

March 20, 2023

ADDENDUM NO. 1
TO
DOCUMENTS AND SPECIFICATIONS
FOR
Meetinghouse Pond Area Collection System and Pumping Station
Contract No. 2022-01 and SRF No. 7150
Town of Orleans, MA



Department of Public Works & Natural Resources

This Addendum No. 1 forms a part of the Contract Documents and modifies the Bidding Documents dated March 2023 as noted below. Acknowledge receipt of this Addendum in the space provided in SECTION 00410, FORM OF GENERAL BID. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 6 pages and 1 page of attachments for a total of 7 pages.

ATTACHMENTS

1. Drawing Number 04 D-101

CHANGES TO BE MADE TO THE CONTRACT SPECIFICATIONS

1. SECTION 01025 – MEASUREMENT AND PAYMENT

- A. Page 01025-3, 1.03 PAYMENT ITEMS, Paragraph A – SRF Eligible Items, add the following items to the table:

Item	Description
24	Replacement of Water Services
25	Replacement of Baxter Lane and Lucy's Lane Water Mains
26	Water Quality Improvements

- B. Page 01025-3, 1.03 PAYMENT ITEMS, Paragraph C – SRF Ineligible Bid Items, replace Paragraph C in its entirety with "Paragraph B. SRF Ineligible Bid Items – None".
- C. Page 01025-5, 1.04 BASIS OF MEASUREMENT AND PAYMENT – SRF ELIGIBLE ITEMS, ITEM 3 – PRECAST CONCRETE MANHOLES AND STRUCTURES, Paragraph B. 2., replace the words "...air release and flushing/drain manholes...", with "...air release/vacuum valve manholes, air release stations, and flushing connections...".
- D. Page 01025-5, 1.04 BASIS OF MEASUREMENT AND PAYMENT – SRF ELIGIBLE ITEMS, ITEM 3 – PRECAST CONCRETE MANHOLES AND STRUCTURES, Paragraph C. 1., replace the words "...air vacuum

and air release valve and/or flushing drain manholes...”, with “...air release/vacuum valve manholes, air release stations, and flushing connections ...”.

- E. Page 01025-6, 1.04 BASIS OF MEASUREMENT AND PAYMENT – SRF ELIGIBLE ITEMS, ITEM 3 – PRECAST CONCRETE MANHOLES AND STRUCTURES, Paragraph C. 5., replace the words “...Inline Flushing Manhole...”, with “...Inline Flushing Connection ...”.
 - F. Page 01025-6, 1.04 BASIS OF MEASUREMENT AND PAYMENT – SRF ELIGIBLE ITEMS, ITEM 3 – PRECAST CONCRETE MANHOLES AND STRUCTURES, Paragraph C. 5., replace the words “...Terminal Flushing Manhole with Combination Air Valve manhole shall...”, with “...Terminal Flushing Connection with Combination Air Valve shall...”.
 - G. Page 01025-6, 1.04 BASIS OF MEASUREMENT AND PAYMENT – SRF ELIGIBLE ITEMS, ITEM 3 – PRECAST CONCRETE MANHOLES AND STRUCTURES, Paragraph C. 5., replace the words “...exclusive of normal Contract re.”, with “...exclusive of normal Contract retainage ...”.
2. SECTION 11306 – SUBMERSIBLE SOLIDS HANDLING PUMPS AND APPURTENANCES
- A. Page 11306-11, 2.07 – GUIDE ASSEMBLY, Paragraph D, replace the text of the paragraph with the following text:
 - D. For Pump Station No. 4, provide Type 316 stainless steel wire rope of sufficient length, to reach from pump to finished grade elevation plus additional length, to be field verified, such that it is compatible with Thern Commander 2000 portable davit crane and of strength for lifting pump and motor. Wire rope shall be rated for no less than two (2) times the pump and motor weight. Provide wire rope designed for attachment to existing lifting bail provided on motor and to the guide rail retainer bracket.
 - B. Page 11306-11, Paragraph 2.07 – GUIDE ASSEMBLY, add the following new subparagraph:
 - E. At Existing Pumping Station No. 1 (84 Old Colony Way), Existing Pumping Station No. 2 (Snow Library, 67 Main Street), and Existing Pumping Station No. 3 (Cranberry Cove Plaza, 10 Route 6A) replace existing Type 316 stainless steel chain with Type 316 stainless steel wire rope. Wire rope shall be of sufficient length, to reach from pump to finished grade elevation plus additional length, to be field verified, such that it is compatible with Thern Commander 2000 portable davit crane and of strength for lifting pump and motor. Wire rope shall be rated for no less than two (2) times the pump and motor weight. Provide wire rope designed for attachment to existing lifting bail provided on motor and to the existing guide rail retainer bracket. Existing Type 316 stainless steel chain to remain the property of the Owner and shall be cleaned and delivered to the Town of Orleans WWTF located at 29 Oak Ridge Lane. Refer to the following table for existing pumping station information:

Description	Existing Pumping Station No. 1 (84 Old Colony Way),	Existing Pumping Station No. 2 (Snow Library, 67 Main Street)	Existing Pumping Station No. 3 (Cranberry Cove Plaza, 10 Route 6A)
Finished Grade Elevation	42.00	33.50	14.50
Top of Pump Elevation	18.10	8.54	-11.44
Pump and Motor Weight (pounds)	478	478	423

CHANGES TO BE MADE TO THE CONTRACT DRAWINGS

- 1. DRAWING NUMBER 04 C-100
 - A. Plan and Profile, delete the words “8” EFF FM” and replace with the words “8” FM”.
- 2. DRAWING NUMBER 04 C-101
 - A. Plan and Profile, delete the words “8” EFF FM” and replace with the words “8” FM”.
- 3. DRAWING NUMBER 04 C-102
 - A. Plan and Profile, delete the words “ARV/Vacuum Release Manhole” and replace with the words “Air Release Station”.

- B. Plan and Profile, delete the words “LPS Cleanout Manhole” and replace with the words “In-Line Flushing Connection” in all locations.
- 4. DRAWING NUMBER 04 C-104
 - A. Plan and Profile, delete the words “8” EFF FM” and replace with the words “8” FM”.
- 5. DRAWING NUMBER 04 C-105
 - A. Plan and Profile, delete the words “8” EFF FM” and replace with the words “8” FM”.
 - B. Plan and Profile, delete the words “Air Release Valve at Force Main High Point” and replace with the words “Air Release/Vacuum Valve Manhole at Force Main High Point”.
- 6. DRAWING NUMBER 04 C-106
 - A. Plan and Profile, delete the words “8” EFF FM” and replace with the words “8” FM”.
 - B. Plan and Profile, delete the words “Air/Vacuum Release Valve Manhole at Force Main High Point” and replace with the words “Air Release/Vacuum Valve Manhole at Force Main High Point”.
- 7. DRAWING NUMBER 04 C-107
 - A. Plan and Profile, delete the words “8” EFF FM” and replace with the words “8” FM”.
- 8. DRAWING NUMBER 04 C-108
 - A. Plan and Profile, delete the words “8” EFF FM” and replace with the words “8” FM”.
- 9. DRAWING NUMBER 04 C-109
 - A. Plan and Profile, delete the words “8” EFF FM” and replace with the words “8” FM”.
 - B. Plan and Profile, delete the words “Existing SMH100” and replace with the words “Existing H-03-06”.
 - C. Profile, delete the words “Connect to Existing SMH100, Inv.=93.0” and replace with the words “Connect to Existing SMH H-03-06, Inv.=93.00”.
- 10. DRAWING NUMBER 04 C-110
 - A. Plan and Profile, delete the words “Cleanout Manhole” and replace with the words “In-Line Flushing Connection” in all locations.
 - B. Plan and Profile, delete the words “Air/Vacuum Release Valve Manhole” and replace with the words “Air Release Station”.
- 11. DRAWING NUMBER 04 C-118
 - A. Plan, delete the words “Cleanout Manhole G-07-11” and replace with the words “In-Line Flushing Connection G-07-11”
 - B. Profile, delete the words “Cleanout Manhole at LPS Low Point G-07-11” and replace with the words “In-Line Flushing Connection at LPS Low Point G-07-11”.
 - C. Plan and Profile, delete the words “Air/Vacuum Release Valve Manhole” and replace with the words “Air Release Station”.
- 12. DRAWING NUMBER 04 C-128
 - A. Plan, delete the words “LPS Cleanout Manhole G-07-16” and replace with the words “In-Line Flushing Connection G-07-16”.
 - B. Profile, delete the words “LPS Cleanout Manhole at LPS Low Point G-07-16” and replace with the words “In-Line Flushing Connection at LPS Low Point G-07-16”.
- 13. DRAWING NUMBER 04 C-129
 - A. Plan, delete the words “LPS Cleanout Manhole G-07-16” and replace with the words “In-Line Flushing Connection G-07-16”.

- B. Profile, delete the words “LPS Cleanout Manhole at LPS Low Point G-07-16” and replace with the words “In-Line Flushing Connection at LPS Low Point G-07-16”.
14. DRAWING NUMBER 04 C-130
- A. Plan and Profile, delete the words “Air Release Valve Manhole G-07-13” and replace with the words “Air Release Station G-07-13”.
15. DRAWING NUMBER 04 C-131
- A. Plan and Profile, delete the words “Air Release Valve Manhole” and replace with the words “Air Release Station”.
 - B. Plan and Profile, delete the words “Cleanout Manhole” and replace with the words “In-Line Flushing Connection” in all locations.
16. DRAWING NUMBER 04 C-132
- A. Plan and Profile, delete the words “Air Release Valve Manhole” and replace with the words “Air Release Station”.
 - B. Plan, delete the words “Cleanout Manhole G-06-23” and replace with the words “In-Line Flushing Connection G-06-23”.
 - C. Profile, delete the words “Cleanout Manhole at Low Point G-06-23” and replace with the words “In-Line Flushing Connection at LPS Low Point G-06-23”.
 - D. Plan, delete the words “Cleanout Manhole G-06-27” and replace with the words “In-Line Flushing Connection G-06-27”.
 - E. Profile, delete the words “Cleanout Manhole at LPS Low Point G-06-27” and replace with the words “In-Line Flushing Connection at LPS Low Point G-06-27”.
17. DRAWING NUMBER 04 C-133
- A. Plan and Profile, delete the words “Cleanout Manhole” and replace with the words “In-Line Flushing Connection”.
18. DRAWING NUMBER 04 C-134
- A. Plan, delete the words “Cleanout Manhole G-06-25” and replace with the words “In-Line Flushing Connection G-06-25”.
 - B. Profile, delete the words “Cleanout Manhole at LPS Low Point G-06-25” and replace with the words “In-Line Flushing Connection at LPS Low Point G-06-25”.
19. DRAWING NUMBER 04 C-136
- A. Plan and Profile, delete the words “Cleanout Manhole” and replace with the words “In-Line Flushing Connection”.
20. DRAWING NUMBER 04 C-137
- A. Plan and Profile, delete the words “Air Release Valve Manhole” and replace with the words “Air Release Station”.
21. DRAWING NUMBER 04 C-138
- A. Plan and Profile, delete the words “Cleanout Manhole” and replace with the words “In-Line Flushing Connection”.
22. DRAWING NUMBER 04 C-139
- A. Plan and Profile, delete the words “Cleanout Manhole” and replace with the words “In-Line Flushing Connection”.
23. DRAWING NUMBER 04 C-140
- A. Plan and Profile, delete the words “Air Release Valve Manhole” and replace with the words “Air Release Station” in all locations.
 - B. Plan and Profile, delete the words “Cleanout Manhole” and replace with the words “In-Line Flushing Connection”.
24. DRAWING NUMBER 04 C-141
- A. Plan and Profile, delete the words “Cleanout Manhole” and replace with the words “In-Line Flushing Connection”.

25. DRAWING NUMBER 04 C-142

- A. Plan and Profile, delete the words “Air Release Valve Manhole” and replace with the words “Air Release Station”.
- B. Plan and Profile, delete the words “Cleanout Manhole” and replace with the words “In-Line Flushing Connection”.

26. DRAWING NUMBER 04 C-143

- A. Plan and Profile, delete the words “Flushing Manhole” and replace with the words “Terminal Flushing”.

27. DRAWING NUMBER 04 C-146

- A. Plan and Profile, delete the words “Air Release Valve Manhole” and replace with the words “Air Release Station”.
- B. Plan and Profile, delete the words “Cleanout Manhole” and replace with the words “In-Line Flushing Connection”.

28. DRAWING NUMBER 04 C-148

- A. Plan and Profile, delete the words “Air Release Valve” and replace with the words “Air Release Station”.

29. DRAWING NUMBER 04 C-149

- A. Plan, delete the words “Cleanout Manhole G-07-22” and replace with the words “In-Line Flushing Connection G-07-22”.
- B. Profile, delete the words “Cleanout Manhole at LPS Low Point G-07-22” and replace with the words “In-Line Flushing Connection at LPS Low Point G-07-22”.
- B. Add cleanout at Low Pressure Sewer junction of High Tide Lane and Cedar Way at approximately Station 2+70 with label “Cleanout”

30. DRAWING NUMBER 04 C-150

- A. Plan and Profile, delete the words “Flushing Manhole” and replace with the words “Terminal Flushing”.
- B. Add label “Cleanout” at Low Pressure Sewer junction of Pond View Road and High Tide Lane at approximately Station 0+31

31. DRAWING NUMBER 04 C-151

- A. Plan and Profile, delete the words “Air Release Valve Manhole” and replace with the words “Air Release Station”.

32. DRAWING NUMBER 04 C-152

- A. Plan and Profile, delete the words “Cleanout Manhole” and replace with the words “In-Line Flushing Connection”.

33. DRAWING NUMBER 04 C-155

- A. Plan and Profile, delete the words “Flushing Manhole” and replace with the words “Terminal Flushing”.

34. DRAWING NUMBER 04 C-159

- A. Plan and Profile, delete the words “Cleanout Manhole” and replace with the words “In-Line Flushing Connection”.

35. DRAWING NUMBER 00 D-003 - SCHEDULES

- A. BLOWER AND COMPRESSOR SCHEDULE, SBR.BLW-4, MOTOR DATA, HP
 - a. Delete “50” and replace with “40”.

36. DRAWING NUMBER 04 D-101

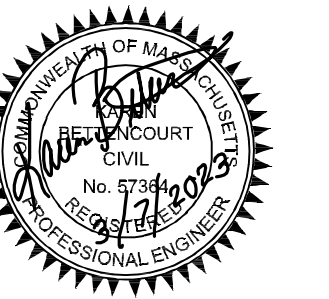
- A. Delete the drawing in its entirety and replace with the new drawing attached.

CHANGES TO BE MADE TO THE CONTRACT ATTACHMENTS

None

END OF ADDENDUM NO. 1

This Page Intentionally Left Blank.



I/R	DATE	DESCRIPTION
2	3-09-2023	ADDENDUM NO. 1
1	3-01-2023	ISSUE FOR BID

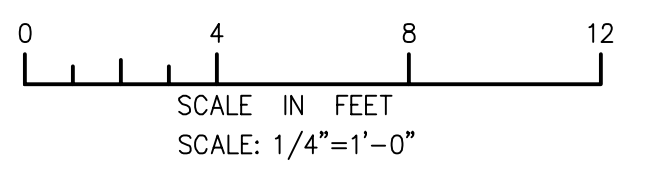
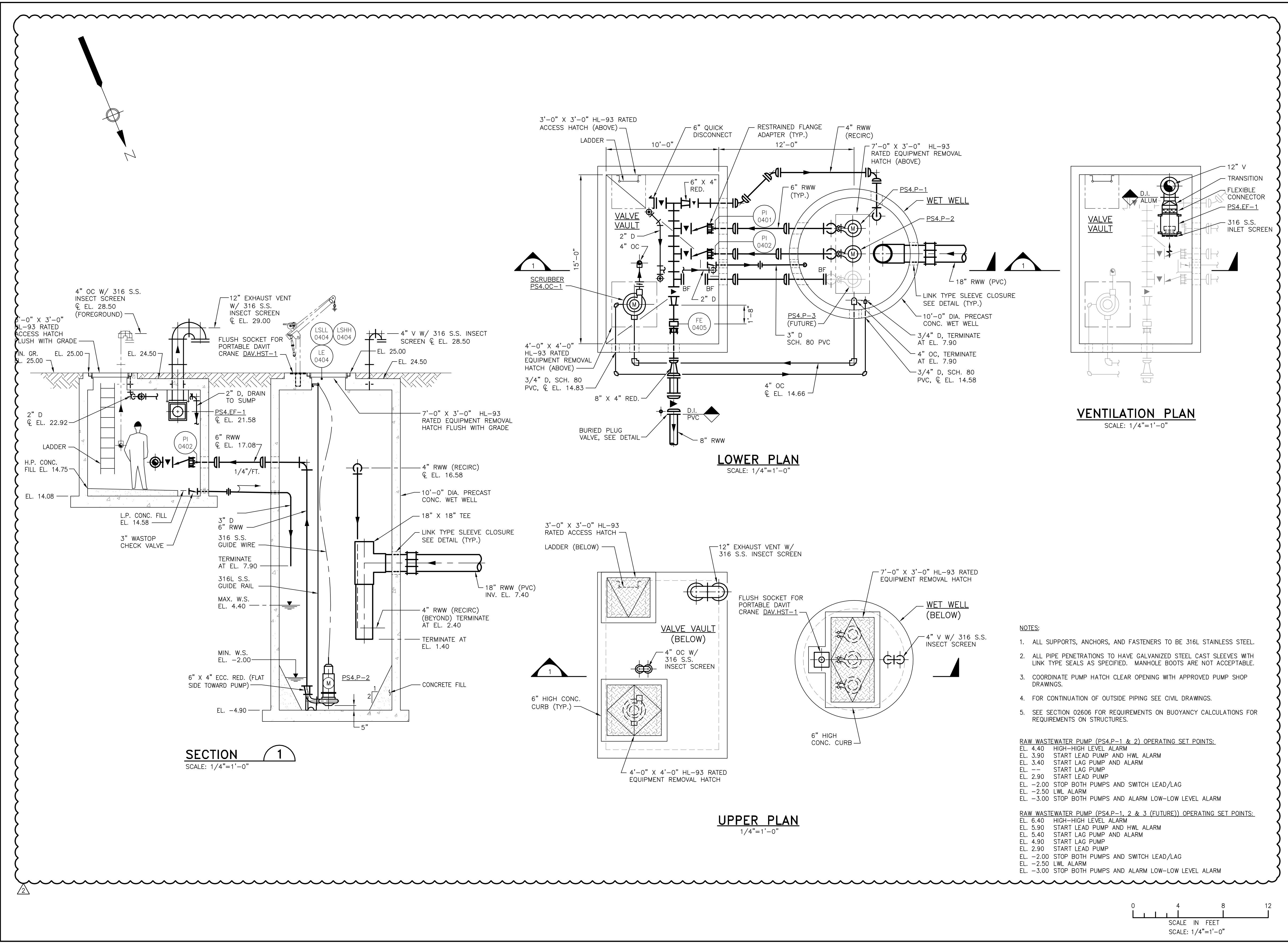
60652634

Designed By:	M. SALSBURY
Drawn By:	N. RUBINI
Dept Check:	K. BETTENCOURT
Proj Check:	T. PARECE
Date:	MARCH 2023
Scale:	AS NOTED

MECHANICAL PROCESS

**PUMPING STATION
 NO. 4 PLAN AND
 SECTION**

SHEET NUMBER
 04 D-101



PATH: C:\USERS\RBUBINI\ONEPDRIVE - AECOM\PROJECTS\MEETINGHOUSE\SRF01_CAD\2023\04-D-101.DWG
 LAST UPDATE: Friday, March 10, 2023 9:07:22 AM
 PLOT DATE: Friday, March 10, 2023 9:09:00 AM

April 4, 2023

ADDENDUM NO. 2
TO
DOCUMENTS AND SPECIFICATIONS
FOR
Meetinghouse Pond Area Collection System and Pumping Station
Contract No. 2022-01 and SRF No. 7150
Town of Orleans, MA



Department of Public Works & Natural Resources

This Addendum No. 2 forms a part of the Contract Documents and modifies the Bidding Documents dated March 2023 as noted below. Acknowledge receipt of this Addendum in the space provided in SECTION 00410, FORM OF GENERAL BID. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 6 pages and 77 page of attachments for a total of 83 pages.

ATTACHMENTS

- | | |
|---|--|
| 1. Orleans, MA MHP Pre-Bid Conference Attendance List
2023-03-29 | 2. Orleans, MA MHP Pre-Bid Conference Presentation
2023-03-29 |
| 3. Orleans_MA-2022-01-Bid
Form_2023_0404_Contractor_v2 | 4. Commonwealth of Massachusetts Prevailing Wage
Rates |
| 5. Product Data Sheet – Keller LevelRat | 6. Drawing 04 C-128 |
| 7. Drawing 04 C-129 | 8. Drawing 04 C-402 |
| 9. Drawing 04 C-403 | 10. Drawing 00 E-602 |
| 11. Drawing 04 E-001 | 12. Drawing 04 E-002 |
| 13. Drawing 04 E-101 | 14. Drawing 04 E-601 |
| 15. Drawing 04 E-602 | 16. Drawing 10 E-001 |
| 17. Drawing 99 E-503 | 18. Drawing 00 DI-601 |
| 19. Drawing 04 DI-601 | |

RESPONSE TO PLAN HOLDER QUESTIONS

Responses to these questions do not modify the bidding and contract documents.

1. Will you be sending out the pre-bid meeting attendance sheet via addendum?

- A. The pre-bid meeting attendance sheet and pre-bid meeting presentation are attached with Addendum No. 2
- 2. Has a construction budget and schedule been established?
 - A. The Engineers' opinion of construction cost has been included in SECTION 00100 – ADVERTISEMENT FOR BIDS and SECTION 01030 – SPECIAL REQUIREMENTS via Addendum No. 2. The project timeline is provided in SECTION 01030 – SPECIAL REQUIREMENTS

CHANGES TO BE MADE TO THE CONTRACT SPECIFICATIONS

- 3. SECTION 00100 – ADVERTISEMENT FOR BIDS
 - A. Page 00100-1, Paragraph 1, delete the paragraph in its entirety and replace with the following new paragraph:
 - 1. The Town of Orleans, MA acting through the Town of Orleans Town Administrator will receive sealed bids for Meetinghouse Pond Area Collection System and Pumping Station, Contract No. 2022-01 and SRF No. 7150. The scope of work includes constructing approximately 18,750 linear feet of 8-inch, 10-inch, 12-inch, and 18-inch PVC gravity sewer and appurtenances, approximately 7,460 linear feet of 8-inch PVC force main and appurtenances, approximately 20,750 linear feet of 1.25-inch, 1.5-inch, 2-inch and 3-inch low pressure sewer and appurtenances and 1 Submersible Pumping Station and all appurtenances to provide wastewater service to the Meetinghouse Pond Area of Orleans, MA. The Engineers' opinion of construction cost is \$24,000,000.
 - B. Page 00100-1, Paragraph 4, replace the last sentence in the last paragraph with the following new sentence: "Questions are due to the ENGINEER by 12:00 p.m. local time on Friday April 7, 2023."
- 4. SECTION 00200 – INSTRUCTIONS TO BIDDERS
 - A. Page 00200-4, 1.09 ADDENDA AND INTERPRETATIONS, Paragraph B, delete the following "...at least seven working days prior to the date fixed for the opening of bids." and replace with the following, "...by 12:00 p.m. local time on Friday April 7, 2023."
- 5. SECTION 00410 – FORM OF GENERAL BID
 - A. PROPOSAL FORM ATTACHMENT, Delete "Orleans_MA-2022-01-Bid Form_2023_0308_Contractor" in its entirety and replace with the attached new "Orleans_MA-2022-01-Bid Form_2023_0404_Contractor_v2" in both hard copy and Microsoft Excel format.
- 6. SECTION 00830 – STATE STATUTES AND REGULATIONS COMMONWEALTH OF MASSACHUSETTS
 - A. ATTACHMENT A, MINIMUM WAGE RATES, Replace all pages of the Commonwealth of Massachusetts Prevailing Wage Rates, issued 01/05/2023 (36 pages total) with the attached Commonwealth of Massachusetts Prevailing Wage Rates, issued 03/14/2023 (38 pages total).
- 7. SECTION 01025 – MEASUREMENT AND PAYMENT
 - A. Page 01025-4, Article 1.04 - BASIS OF MEASUREMENT AND PAYMENT – SRF ELIGIBLE ITEMS, delete ITEM 3 - PRECAST CONCRETE MANHOLES AND STRUCTURES in its entirety and replace with the following new Item:

ITEM 3 - PRECAST CONCRETE MANHOLES AND STRUCTURES

 - A. General. The prices bid under each division of this Bid Item shall be considered as fair compensation for all labor, equipment, tools and materials necessary to complete the Work as specified, which shall include excavation, installation, steel reinforced copolymer polypropylene plastic steps, lifting rings, sealing materials in horizontal joints, pipe penetrations, dampproofing, invert, electrical and mechanical equipment, valves and fittings, valve boxes and covers, supports, thrust boxes, insulation, external manhole encapsulation system, testing, backfill, mancatchers on manholes over twenty (20) feet in depth, removal and legal disposal of existing structures to be replaced, as specified and/or shown on the Contract Drawings and all other incidental Work relative thereto.
 - B. Measurement. Measurement for furnishing and installing precast concrete manholes shall be as follows:
 - 1. Measurement for Sewer Manholes, shall be for the depth from the top of frame to the lowest invert in the manhole, as approved by the Engineer.

2. Measurement for Air Release Stations, regardless of depth, shall be per each installation, as approved by the Engineer.
 3. Measurement for Force Main In-Line Flushing Connections, shall be per each installation, as approved by the Engineer.
 4. Measurement for Low Pressure Sewer Terminal Flushing Connections, shall be per each installation, as approved by the Engineer.
 5. Measurement for Low Pressure Sewer In-Line Flushing Connections, shall be per each installation, as approved by the Engineer.
- C. Payment. Payment for furnishing and installing precast concrete manholes listed in DOCUMENT 00410, FORM OF GENERAL BID shall be made at the unit prices bid under the applicable divisions of this Bid Item.
1. Payment for Sewer Manholes shall be per each approved installation.
 2. Payment for Air Release Stations shall be per each approved installation.
 3. Payment for Force Main In-Line Flushing Connections shall be per each approved installation.
 4. Payment for Low Pressure Sewer Terminal Flushing Connections shall be per each approved installation.
 5. Payment for Low Pressure Sewer In-Line Flushing Connections, shall be per each approved installation.
 6. Only eighty-five (85) percent of the price bid for each manhole shall be paid for upon its installation, the balance shall be withheld until such time as the manhole has been successfully tested and accepted by the Owner. This percentage is exclusive of normal Contract retainage.
 7. An additional ten (10) percent shall be withheld until such time as the invert, manhole steps, pig catchers, and mancatchers have been installed and accepted by the Owner. This percentage is exclusive of normal Contract retainage.
- B. Page 01025-17, Article 1.04 - BASIS OF MEASUREMENT AND PAYMENT – SRF ELIGIBLE ITEMS, ITEM 23 – PUMPING STATION, Paragraph A.
1. After the words “...emergency generator,” add the following text, “...drainage pipes, catch basins, and leaching basins,”.
- C. Page 01025-20, Article 1.04 - BASIS OF MEASUREMENT AND PAYMENT – SRF ELIGIBLE ITEMS, ITEM 26 – WATER QUALITY IMPROVEMENTS, Paragraph A.
1. After the words “...pipes and fittings;” and the following text, “...catch basins, and leaching basins;”
8. SECTION 01030 – SPECIAL REQUIREMENTS
- A. Page 01030-5, ARTICLE 1.11 – SCOPE OF WORK AND SEQUENCE OF CONSTRUCTION, Paragraph B, delete subparagraph B. in its entirety and replace with the following new paragraph:
- B. The Town of Orleans, MA acting through the Town of Orleans Town Administrator will receive sealed bids for Meetinghouse Pond Area Collection System and Pumping Station, Contract No. 2022-01 and SRF No. 7150. The scope of work includes constructing approximately 18,750 linear feet of 8-inch, 10-inch, 12-inch, and 18-inch PVC gravity sewer and appurtenances, approximately 7,460 linear feet of 8-inch PVC force main and appurtenances, approximately 20,750 linear feet of 1.25-inch, 1.5-inch, 2-inch and 3-inch low pressure sewer and appurtenances and 1 Submersible Pumping Station and all appurtenances to provide wastewater service to the Meetinghouse Pond Area of Orleans, MA. The Engineers’ opinion of construction cost is \$24,000,000.
- B. Page 01030-5, ARTICLE 1.11 – SCOPE OF WORK AND SEQUENCE OF CONSTRUCTION, Paragraph E, 1. – Winter Season Work, delete subparagraph a. in its entirety and replace with the following new paragraph:
- a. The Winter Season is defined as September 16 through May 14.
- C. Page 01030-5, ARTICLE 1.11 – SCOPE OF WORK AND SEQUENCE OF CONSTRUCTION, Paragraph E, 2 – Summer Season Work, a, delete the words “Town Hall Parking Lot” from the list of roadways.

D. Page 01030-5, ARTICLE 1.11 – SCOPE OF WORK AND SEQUENCE OF CONSTRUCTION, Paragraph N., delete subparagraph 5. in its entirety and replace with the following new paragraphs:

5. The Contractor shall provide four Metering Systems including the following:

Item Number	Description
BMTS450BHYD	3-inch Fire Hydrant Meter TSM 450FH
BTS450L-2	M450 3-inch Turbo Local Register (gallons)
H81-98HS	3-inch MIP x 2-1/2-inch FEM NST SWVL UPD (#09-215-2)
MC81-98-NL	3-inch x 2-1/2-inch Bushing No Lead (#XNL114-4840)
FI88-84 HYD	2.5-inch Hydrant Check Valve (#07-1-0B)
FGGV-8	2-1/2-inch FIP Gate Valve (#0818-25NL)
H88-88H	2-1/2-inch MIP x 2-1/2-inch Male NST (UPD #14-146-12)

Product information from Stiles Company, 922 Pleasant Street, Norwood, MA 02062, 800-426-6246

6. The Metering Systems shall be used by the Contractor on this Project only, refurbished in accordance with the manufacturer’s requirements, and shall be provided to the OWNER at the completion of the project.

9. VOLUME II – 2019-01 AND 2019-02 PROPRIETARY EQUIPMENT SHOP DRAWINGS

A. Page 1081 of 1388, replace the product data sheet for the Keller Levelgage (2 pages total) with the attached data sheet for the Keller LevelRat (3 pages total)

CHANGES TO BE MADE TO THE CONTRACT DRAWINGS

1. DRAWING 04 C-105

A. Plan and Profile, delete the words “Air Release Valve at Force Main High Point” and replace with the words “Air Release Station at Force Main High Point”.

2. DRAWING 04 C-106

A. Plan and Profile, delete the words “Air Release Valve at Force Main High Point” and replace with the words “Air Release Station at Force Main High Point”.

B. Plan and Profile, delete the words “ARV/Vacuum Release Valve Manhole at Force Main High Point” and replace with the words “Air Release Station at Force Main High Point”.

C. Plan and Profile, delete the words “Forcemain Cleanout Manhole” and replace with the words “In-Line Flushing Connection”.

3. DRAWING 04 C-107

A. Plan and Profile, delete the words “Forcemain Cleanout Manhole” and replace with the words “In-Line Flushing Connection”.

4. DRAWING 04 C-128

A. Delete the drawing in its entirety and replace with the new drawing attached.

5. DRAWING 04 C-129

A. Delete the drawing in its entirety and replace with the new drawing attached.

6. DRAWING 04 C-131

A. Profile, Replace “SMH G-05-08 STA 3+00” with “SMH G-05-08 STA 1+38”

B. Profile, Replace “SMH G-05-07 STA 3+71” with “SMH G-05-07 STA 2+99”

C. Profile, Replace “SMH G-06-02 STA 6+51” with “SMH G-06-02 STA 4+39”

7. DRAWING 04 C-144
 - A. Profile, Replace “SMH F-07-15 STA 5+98” with “SMH F-07-15 STA 1+26”
 - B. Profile, Replace “SMH G-07-08 STA 4+42” with “SMH G-07-08 STA 2+62”
8. DRAWING 04 C-146
 - A. Profile, Replace “SMH F-07-04 STA 4+42” with “SMH F-07-04 STA 1+40”
9. DRAWING 04 C-159
 - A. Plan and Profile, Add AIR RELEASE STATION AT LPS HIGH POINT downstream of TERMINAL FLUSHING G-06-19
10. DRAWING 04 C-402
 - A. Delete the drawing in its entirety and replace with the new drawing attached.
11. DRAWING 04 C-403
 - A. Delete the drawing in its entirety and replace with the new drawing attached.
12. DRAWING 99 C-502, IN-LINE FLUSHING CONNECTION ON LOW PRESSURE SEWER MAIN
 - A. Replace detail title “IN-LINE FLUSHING CONNECTION ON LOW PRESSURE SEWER MAIN” with “IN-LINE FLUSHING CONNECTION ON LOW PRESSURE SEWER AND FORCE MAIN”
13. DRAWING 99 C-506, TYPICAL FORCE MAIN BLOW-OFF CONNECTION BELOW INVERT OF FORCEMAIN
 - A. Delete detail in it’s entirety.
14. DRAWING 99 C-507, AIR RELEASE & VACUUM VALVE MANHOLE
 - A. Replace detail title “AIR RELEASE & VACUUM VALVE MANHOLE” with “AIR RELEASE STATION”
 - B. Replace label “M.H. FRAME & COVER” WITH “36” M.H. FRAME & COVER”
15. DRAWING 00 E-602
 - A. Delete the drawing in its entirety and replace with the new drawing attached.
16. DRAWING 04 E-001
 - A. Delete the drawing in its entirety and replace with the new drawing attached.
17. DRAWING 04 E-002
 - A. Delete the drawing in its entirety and replace with the new drawing attached.
18. DRAWING 04 E-101
 - A. Delete the drawing in its entirety and replace with the new drawing attached.
19. DRAWING 04 E-601
 - A. Delete the drawing in its entirety and replace with the new drawing attached.
20. DRAWING 04 E-602
 - A. Delete the drawing in its entirety and replace with the new drawing attached.
21. DRAWING 10 E-001
 - A. Delete the drawing in its entirety and replace with the new drawing attached.
22. DRAWING 99 E-503
 - A. Delete the drawing in its entirety and replace with the new drawing attached.
23. DRAWING 00 DI-601
 - A. Delete the drawing in its entirety and replace with the new drawing attached.

24. DRAWING 04 DI-601

- A. Delete the drawing in its entirety and replace with the new drawing attached.

CHANGES TO BE MADE TO THE CONTRACT ATTACHMENTS

None

END OF ADDENDUM NO. 2

Attendance List

Subject **Town of Orleans, MA
 Meetinghouse Pond Area Collection System and Pumping Station
 Contract No. 2022-01 and SRF No. 7150
 Non-Mandatory Pre-Bid Conference**

Project Number 60652634

Date and Time March 29, 2023, 9:00 am

Attendee	Affiliation	e-Mail and Telephone Number
Kara Quinn	Robert Bour Co	kquinn@robertbour.com 714 944 1507
Bill McMahon	RBO	bmcmahon@robertbour.com
REGGIE Downard	AECOM	REGGIE.DOWNARD@AECOM.COM 508-237-7161
Justin Rosenberg	AECOM	justin.rosenberg@aecom.com 610-247-8913

Attendee	Affiliation	e-Mail and Telephone Number
Ron Corcoran	Town of Orleans	Rcorcoran@Town.orleans.ma.us
Michaela Miteva	Town of Orleans	mmiteva@town.orleans.ma.us
Tom Deley	-	tdeley@town.orleans.ma.us
Tim Harrison	AECOM	tim.harrison@aecom.com 510-506-3099
Thomas Presles	AECOM	Tom.Presles@aecom.com 978-764-9027
Amy Hunter	AECOM	amy.hunter@aecom.com 508-364-7269



Meetinghouse Pond Area Collection System and Pumping Station

Contract No. 2022-01 and SRF No. 7150

Non-Mandatory Pre-Bid Conference

March 29, 2023, 9:00AM



AECOM

1

Agenda

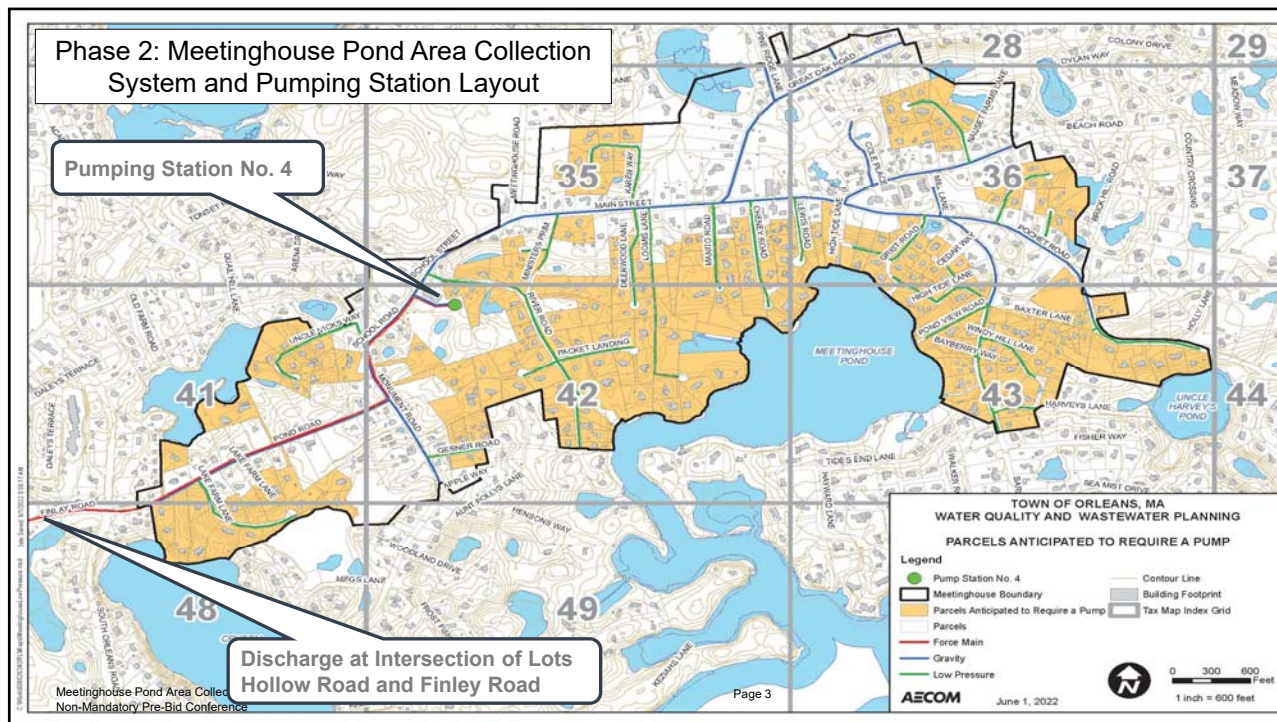
- ❖ Welcome and Introduction
 - Orleans, MA
 - AECOM
- ❖ Project Overview
- ❖ Special Attention to Specifications and Bidding Conditions
- ❖ Addendums
- ❖ Open Floor for Questions
- ❖ Site Visit



AECOM

2

1



3

Project Overview (cont.)

- ❖ General Scope of Work
 - About 18,560 Linear Feet of 8-inch through 18-inch PVC Gravity Sewer
 - About 7,460 Linear Feet of 8-inch PVC Force Main
 - About 20,610 Linear Feet of 1 ¼-inch through 3-inch Low Pressure Sewer
 - 1 Submersible Pumping Station: 2 of 3 Pumps Furnished to be Installed
 - Standardized Equipment at WWTF and Pump Station
- ❖ Time for Completion - 880 Calendar Days / 529 Working Days
- ❖ Bidding Submission Requirements
 - Bids due to Orleans, MA: April 19, 2023 by 10:00 am Local Time
 - Attachments to the Bid
- ❖ No DCAMM Certification or MassDOT Highway Division Certification Required



4

Project Overview (cont.)

Attachments to the Bid

- Microsoft Excel Proposal Form
- Project Reference List
- Insurance Requirements
- Statement of State Tax Compliance
- Certificate of Non-Collusion
- Acknowledgement of Principal, If a Corporation or a Partnership
- Certification of OSHA 10-Hour Training
- Massachusetts Diesel Retrofit Form

Post Bid Attachments

- State Revolving Loan
 - Disadvantaged Business Enterprise (DBE) Goals
 - Minimum 4.2 Percent D/MBE Participation
 - Minimum 4.5 Percent D/WBE Participation
 - Two Low Bidders to Submit by Close of Business on the Third Business Day After Bid Opening
 - DBE Forms - EEO-DEP-190C and EEO-DEP-191C
 - DBE Certification of United States Citizenship Form



5

Special Attention to Specifications and Bidding Conditions

- Preconstruction Requirements
 - Submittals
 - Photos and Video Documenting Existing Conditions
 - Health and Safety Plan
 - Traffic Management Plan
 - Prepare and Submit to Town, Engineer and MassDOT for Review and Approval
 - Detours and Road Accessibility
 - Responsible for Ordering and Coordinating Traffic Details
 - Project Schedule
- Project Meetings
 - Weekly
- Progress Schedule - "Two-week Look Ahead"
 - Summarizes Anticipated Construction Activities
 - Thursday of Each Week
- American Iron and Steel (AIS) Certification
 - Required to be submitted with initial product submittal – will be rejected if not included
 - No payment for items without approved AIS certification



6

Special Attention to Specifications and Bidding Conditions (cont.)

- ❖ Easements Obtained
- ❖ Permits and Licenses Obtained
 - Cape Cod Commission - Consistency Review
 - MassDEP - CWMP Approval
 - Orleans, MA - Conservation Commission - Order of Conditions
 - MassDOT - Route 28 Crossing
- ❖ EPA Construction General Permit
 - Prepare a SWPPP and File an NOI with EPA
 - Implement SWPPP and Perform Required Inspections
- ❖ Town Permits to be Issued After the Contract Award



7

Special Attention to Specifications and Bidding Conditions (cont.)

- ❖ Hours of Operation
 - No Outdoor Activities Permitted Before 7:00 am or After 5:00 pm
 - No Outdoor Activities Permitted Saturday, Sunday, Legal Holidays and the Two Days Preceding the Legal Holidays
- ❖ Number of Crews
 - Minimum of Two Mainline Crews
 - One Service Connection Crew
 - One Cleanup/Restoration Paving Crew
- ❖ Sequence of Construction
 - Specified under Section 01030, Special Requirements



8

Special Attention to Specifications and Bidding Conditions (cont.)

- ❖ Summer Season Work: May 15 through September 15
- ❖ Winter Season Work: September 16 through May 14
- ❖ Work Shall Not Occur on the Following Roads During the Summer Season:
 - Barley Neck Road
 - Beach Road
 - Great Neck Road
 - Main Street
 - Monument Road
 - Pochet Road
 - River Road
 - School Road
 - South Orleans Road (Route 28)
 - Town Hall Parking Lot
 - Pond Road – work to occur as soon as possible



9

Special Attention to Specifications and Bidding Conditions (cont.)

- ❖ Pavement Repair and Restoration
 - Restoration Requirements Vary by Road
 - Required to Place Temporary Pavement Every Friday and As Specified in MassDOT Permit for State Roadways
- ❖ Archeological Sensitive Areas
 - None Identified
 - Cultural Resource Training
- ❖ Existing Brick Sidewalks (Aesthetics Matter!)
 - Installation of Service Laterals
 - Minimize the Number of Bricks Removed
 - Replace the Existing Bricks Following Installation of Service Laterals
 - No Saw Cutting and/or Splitting of Existing Bricks



10

Special Attention to Specifications and Bidding Conditions (cont.)

- ❖ Monthly Photographs
- ❖ Crushed Stone and Processed Glass Aggregate
- ❖ Sensitive Sites
 - Minimize Disruption to Town Hall During Construction of Pump Station 4
- ❖ Coordinate with Veolia (Contract Operator)



11

Special Attention to Specifications and Bidding Conditions (cont.)

- Water System Upgrades
 - Water Main Replacements (Baxter Lane and Lucy Lane)
 - Water Service Replacements in Sewer Area
- Water Quality Projects
 - 25 Pond Road
 - 41-BMP-1 – 19 Monument Road
 - 42-BMP-1 – Monument Road and Pond Road
- Post Construction
 - Photographs and Record Drawings
 - Tie-Cards and GPS Coordinates
 - Collection System Cleaning, Testing and CCTV
 - Operation and Maintenance Manuals
 - Manufacturer's Services
 - Spare Parts



12

Addendums

- ❖ Addendum No. 1 – Issued on March 20, 2023
 - Updated Measurement and Payment Regarding SRF Eligibility
 - Replace Chains at Existing Pump Stations with Cable
 - Revised Elevations at Pump Station 4
 - Miscellaneous Revisions to Collection System Labeling
- ❖ Addendum No. 2 – Issue Date TBD
 - Massachusetts Prevailing Wage Rates Update
 - Requirement to Provide Water Metering Systems
 - Revised Pump Station 4 System Architecture Drawing (HMI and Ethernet Cable)
 - Other Items To Be Determined



13

Site Visit

- ❖ Pumping Station No. 4
- ❖ Pumping Station No. 1
- ❖ Wastewater Treatment Facility



14

Questions and Answers



Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
------	-------------	-----------------	----------	----------------

SRF ELIGIBLE BID ITEMS

1	For Mobilization/Demobilization for Items 2 through 23 inclusive, as specified (maximum of five (5) percent of Items 2 through 23 inclusive bid), the sum of		1	\$ -
		l.s.		
2A.	For furnishing and installing 1-1/4-inch through 3-inch, inclusive, Polyvinyl Chloride/High Density Polyethylene Low Pressure Sewer Pipe and Associated Fittings, All Depths, as specified, the sum of		20,750	\$ -
		per l.f.		
2B.	For furnishing and installing 8-inch Polyvinyl Chloride Sewer Pipe and Associated Fittings, Less Than 10-feet in Depth, as specified, the sum of		8,370	\$ -
		per l.f.		
2C.	For furnishing and installing 8-inch Polyvinyl Chloride Sewer Pipe and Associated Fittings, Greater Than 10-feet in Depth, as specified, the sum of		3,780	\$ -
		per l.f.		
2D.	10-inch Polyvinyl Chloride Sewer Pipe and Associated Fittings - Not Used			
2E.	For furnishing and installing 12-inch Polyvinyl Chloride Sewer Pipe and Associated Fittings, All Depths, as specified, the sum of		4,680	\$ -
		per l.f.		
2F.	For furnishing and installing 18-inch Polyvinyl Chloride Sewer Pipe and Associated Fittings, All Depths, as specified, the sum of		1,920	\$ -
		per l.f.		

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
2G.	For furnishing and installing 8-inch PVC Force Main and Associated Fittings, All Depths, as specified, the sum of			
		per l.f.	7,460	\$ -
2H.	For furnishing and installing 1-1/4-inch Polyvinyl Chloride Low-Pressure Sewer Service Connections and Associated Fittings from main line to property line, All Depths, as specified, the sum of			
		per l.f.	4,180	\$ -
2I.	For furnishing and installing 6-inch Polyvinyl Chloride Service Connections and Associated Fittings from main line to property line as specified, the sum of			
		per l.f.	4,260	\$ -
2J.	For furnishing and installing LPS Wyes, All Depths, as specified, the sum of			
		per each	200	\$ -
2K.	For furnishing and installing 8-inch Polyvinyl Chloride Sewer Wyes, All Depths, as specified, the sum of			
		per each	120	\$ -
2L.	10-inch Polyvinyl Chloride Sewer Wyes - Not Used			
2M.	For furnishing and installing 12-inch Polyvinyl Chloride Sewer Wyes, All Depths, as specified, the sum of			
		per each	50	\$ -
2N.	For furnishing and installing 18-inch Polyvinyl Chloride Sewer Wyes, All Depths, as specified, the sum of			
		per each	10	\$ -
2O.	For furnishing and installing Low Pressure Sewer Main Line Valves, All Sizes and Depths, as specified, the sum of			
		per each	50	\$ -

Company's Name	Date
----------------	------

Company's Address	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
-------------------	---

Item	Description	Unit of Measure	Quantity	Extended Total
3A.	For furnishing and installing 4-foot Diameter Precast Concrete Sewer Manholes, Less Than 10 feet in Depth, the sum of			
		per each	52	\$ -
3B.	For furnishing and installing 4-foot Diameter Precast Concrete Sewer Manholes, Greater Than 10 feet in Depth, the sum of			
		per each	41	\$ -
3C.	For furnishing and installing 5-foot Diameter Precast Concrete Sewer Manholes, All Depths, as specified, the sum of			
		per each	11	\$ -
3D.	6-foot Diameter Precast Concrete Sewer Manholes - Not Used			
3E.	For furnishing and installing Low Pressure Sewer Terminal Flushing Connections, All Depths, as specified, the sum of			
		per each	29	\$ -
3F.	For furnishing and installing Low Pressure Sewer In-Line Flushing Connections, All Depths, as specified, the sum of			
		per each	21	\$ -
3G.	For furnishing and installing 5-foot Diameter Precast Concrete Air Release Stations, All Depths, as specified, the sum of			
		per each	17	\$ -
3H.	For furnishing and installing Force Main Sewer In-Line Flushing Connections, All Depths, as specified, the sum of			
		per each	2	\$ -
4A.	For furnishing and installing Manhole Frames and Covers, as specified, the sum of			
		per each	88	\$ -
4B.	For furnishing and installing Watertight Manhole Frames and Covers, as specified, the sum of			
		per each	16	\$ -
4C.	For furnishing and installing 36" Manhole Frames and Covers, as specified, the sum of			
		per each	17	\$ -

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
5	For furnishing and installing Interior Manhole Drop Connections, as specified, the sum of			
		per v.f.	30	\$ -
6	For furnishing and installing chimneys, as specified, the sum of			
		per v.f.	700	\$ -
7	For furnishing and placing miscellaneous cement concrete, as specified, the sum of			
		per c.y.	560	\$ -
8	For Rock and Boulder Excavation including Replacement with Suitable Fill Material, as specified, the sum of*			
		per c.y.	830	\$ -
	* Minimum Bid = \$80/c.y.			
9A.	For Replacement of Unsuitable Material Below Trench Grade and/or Subgrade, as specified, the sum of			
		per c.y.	930	\$ -
9B.	For Replacement of Unsuitable Material Above Trench Grade, as specified, the sum of			
		per c.y.	1,850	\$ -
10	For Experimental Excavation, as specified, the sum of			
		per c.y.	560	\$ -
11	Fill for embankments – Not Used			
12	Sheeting and/or shoring ordered left in place – Not Used			
13	For performing Soil Compaction Tests, as specified, the sum of			
		per each	190	\$ -

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
14	For furnishing and placing Road Gravel Material, as specified, the sum of			
		per c.y.	12,200	\$ -
15A.	Full Depth Reconstruction - Not Used			
15B.	For furnishing and placing Temporary Bituminous Concrete Trench Pavement in State Roadways (Base Course), as specified, the sum of *			
		per l.f.	210	\$ -
	* Minimum Bid = \$80/ton			
15C.	For furnishing and placing Permanent Bituminous Concrete Trench Width Pavement in State Roadways (Base Course), as specified, the sum of *			
		per l.f.	210	\$ -
	* Minimum Bid = \$80/ton			
15D.	Placing Permanent Bituminous Concrete Full Width Pavement in State Roadways (Top Course) - Not Used			
15E.	Milling and Placing Permanent Bituminous Concrete Full Width Pavement in State Roadways (Top Course) - Not Used			
15F.	For furnishing and placing Temporary Bituminous Concrete Trench Pavement in Town Roadways (Base Course), as specified, the sum of *			
		per l.f.	57,780	\$ -
15G.	For furnishing and placing Permanent Bituminous Concrete Trench Width Pavement in Town Roadways (Base Course), as specified, the sum of *			
		per l.f.	57,780	\$ -
15H.	For furnishing and placing Permanent Bituminous Concrete Full Width Pavement in Town Roadways (Top Course), as specified, the sum of *			
		per ton	2,470	\$ -
	* Minimum Bid = \$80/ton			

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
15I.	For milling and furnishing and placing Permanent Bituminous Concrete Full Width Pavement in Town Roadways (Top Course), as specified, the sum of *			
		per ton	1,620	\$ -
	* Minimum Bid = \$80/ton			
15J.	For Miscellaneous Restoration of Municipal Roadways, as specified, the sum of *			
	One Hundred Thousand Dollars and No Cents		1	\$ 100,000.00
	\$ 100,000.00	Allowance		
15K.	For furnishing and placing Miscellaneous Bituminous Concrete Pavement, as specified, the sum of *			
		per ton	610	\$ -
	* Minimum Bid = \$80/ton			
15L.	For furnishing and placing Dense Graded Gravel, as specified, the sum of			
	Fifty Thousand Dollars and No Cents		1	\$ 50,000.00
	\$ 50,000.00	Allowance		
15M.	Vehicle Loop Detectors - Not Used			
15N.	For repainting of Traffic Markings - Lines, Symbols and Wording, as specified, the sum of			
	One Hundred Thousand Dollars and No Cents		1	\$ 100,000.00
	\$ 100,000.00	Allowance		
15O.	For tracer wire, as specified, the sum of			
		per l.f.	55,050	\$ -
16A.	For removal and relaying and/or replacement of Existing Water Mains and services, as specified, the sum of			
		per inch-foot	5,000	\$ -
16B.	For removal and relaying and/or replacement of Existing Storm Drains, as specified, the sum of			
		per inch-foot	40,000	\$ -

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
16C.	For removal and relaying and/or replacement of Existing Gas Mains and services, as specified, the sum of <u>One Hundred Thousand Dollars and No Cents</u> \$ _____	Allowance	1	\$ 100,000.00
16D.	For removal and relaying and/or replacement of Existing Miscellaneous Utilities, as specified, the sum of <u>One Hundred Thousand Dollars and No Cents</u> \$ _____	Allowance	1	\$ 100,000.00
16E.	For furnishing, installing and removal of 6-inch Water Main Line Stops, as specified, the sum of _____	per each	10	\$ -
16F.	For furnishing, installing and removal of 8-inch Water Main Line Stops, as specified, the sum of _____	per each	10	\$ -
17	Uniformed Traffic Police Officers - Paid by Owner			
18A.	For furnishing, installing, and removing Engineer's Field Office, as specified, the sum of _____	per l.s.	1	\$ -
18B.	For maintaining Engineer's Field Office, as specified, the sum of _____	per month	30	\$ -
19	For furnishing, installing, maintaining and removing Environmental Protection, as specified, the sum of _____	per l.f.	23,480	\$ -
20	For furnishing, installing, maintaining and removing Trench Dewatering Equipment, as specified, the sum of _____	per l.f.	4,550	\$ -
21	Temporary By-pass Pumping - Not Used			

Company's Name	Date
	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
22A.	For SCADA System Integrator, as specified, the sum of			
	<u>Twenty Thousand Dollars and No Cents</u>		<u>1</u>	<u>\$ 20,000.00</u>
	\$ 20,000.00	Allowance		
22B.	For furnishing and installing SBR Transfer Pump, as specified, the sum of			
	<u>Ninety Thousand Dollars and No Cents</u>		<u>1</u>	<u>\$ 90,000.00</u>
	\$ 90,000.00	Allowance		
22C.	For furnishing and installing SBR Blower, as specified, the sum of			
	<u>Ninety Thousand Dollars and No Cents</u>		<u>1</u>	<u>\$ 90,000.00</u>
	\$ 90,000.00	Allowance		
22D.	For furnishing and installing SBR Aeration Grids, as specified, the sum of			
	<u>Forty Thousand Dollars and No Cents</u>		<u>1</u>	<u>\$ 40,000.00</u>
	\$ 40,000.00	Allowance		
22E.	For furnishing and installing Variable Frequency Drives for SBR Transfer Pump and SBR Blower, as specified, the sum of			
	<u>One Hundred Fifty Thousand Dollars and No Cents</u>		<u>1</u>	<u>\$ 150,000.00</u>
	\$ 150,000.00	Allowance		
23A.	For furnishing and installing Pumping Station No. 4, as specified, the sum of			
		per l.s.	<u>1</u>	<u>\$ -</u>
23B.	For furnishing and installing Submersible Pumps, as specified, the sum of			
	<u>One Hundred Thirty Five Thousand Dollars and No Cents</u>		<u>1</u>	<u>\$ 135,000.00</u>
	\$ 135,000.00	Allowance		
23C.	For furnishing and installing Variable Frequency Drives for Submersible Pumps, as specified, the sum of			
	<u>One Hundred Fifty Thousand Dollars and No Cents</u>		<u>1</u>	<u>\$ 150,000.00</u>
	\$ 150,000.00	Allowance		
23D.	For furnishing and installing Odor Control System, as specified, the sum of			
	<u>Forty Thousand Dollars and No Cents</u>		<u>1</u>	<u>\$ 40,000.00</u>
	\$ 40,000.00	Allowance		

Company's Name	Date
----------------	------

Company's Address	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
-------------------	---

Item	Description	Unit of Measure	Quantity	Extended Total
23E.	For furnishing and installing Standby Diesel Engine Driven Generator Set, as specified, the sum of <u>One Hundred Fifty Thousand Dollars and No Cents</u> \$	Allowance	1	\$ 150,000.00
	150,000.00			
23F.	For Davit Crane, as specified, the sum of <u>Ten Thousand Dollars and No Cents</u> \$	Allowance	1	\$ 10,000.00
	10,000.00			
23G.	For Electric Company Connection/Service Fee, as specified, the sum of <u>Fifty Thousand Dollars and No Cents</u> \$	Allowance	1	\$ 50,000.00
	50,000.00			
23H.	For Telephone Company Connection/Service Fee, as specified, the sum of <u>Ten Thousand Dollars and No Cents</u> \$	Allowance	1	\$ 10,000.00
	10,000.00			
23I.	For Planting Operations, as specified, the sum of <u>Twenty Thousand Dollars and No Cents</u> \$	Allowance	1	\$ 20,000.00
	20,000.00			
TOTAL AMOUNT OF BID BASED ON ENGINEER'S ESTIMATE OF QUANTITIES THE SUM OF (Bid Items 1 through 23, inclusive)				One Million Four Hundred Five Thousand Dollars and No Cents
		\$		1,405,000.00

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
Item 24 - Replacement of Water Services				
24A.	For Mobilization/Demobilization for Items 24B through 24E inclusive, as specified (maximum of five (5) percent of Item 24B through 24E bid), the sum of		1	\$ -
		l.s.		
24B.	For furnishing and installing Polyvinyl Chloride Water Services and Associated Fittings from water main to property line as specified, the sum of		3,750	\$ -
		per l.f.		
24C.	For furnishing and placing Road Gravel Material, as specified, the sum of		670	\$ -
		per c.y.		
24D.	For furnishing and placing Temporary Bituminous Concrete Trench Pavement, as specified, the sum of *		190	\$ -
		per ton		
	* Minimum Bid = \$80/ton			
24E.	For furnishing and placing Permanent Bituminous Concrete Trench Pavement, as specified, the sum of *		310	\$ -
		per ton		
	* Minimum Bid = \$80/ton			
Item 24 - Replacement of Water Services (Bid Items 24A. through 24E., inclusive)				\$ -

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
------	-------------	-----------------	----------	----------------

Item 25 - Replacement of Baxter Lane and Lucy's Lane Water Mains

25A.	For Mobilization/Demobilization for Items 25B through 25I inclusive, as specified (maximum of five (5) percent of Item 25B through Item 25I bid), the sum of		1	\$ -
		l.s.		
25B.	For furnishing and installing 8-inch DI water main and Associated Fittings, as specified, the sum of		1,600	\$ -
		per l.f.		
25C.	For furnishing and installing 1-inch Polyvinyl Chloride Water Services and Associated Fittings from water main to property line as specified, the sum of		400	\$ -
		per l.f.		
25D.	For furnishing and installing 6-inch Gate Valves and Boxes, as specified, the sum of		4	\$ -
		per each		
25E.	For furnishing and installing 8-inch Gate Valves and Boxes, as specified, the sum of		12	\$ -
		per each		
25F.	For furnishing and installing Fire Hydrants, as specified, the sum of		5	\$ -
		per each		
25G.	For furnishing and placing Road Gravel Material, as specified, the sum of		300	\$ -
		per c.y.		

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
25H.	For furnishing and placing Temporary Bituminous Concrete Trench Pavement, as specified, the sum of *			
		per ton	100	\$ -
	* Minimum Bid = \$80/ton			
25I.	For furnishing and placing Permanent Bituminous Concrete Trench Pavement, as specified, the sum of *			
		per ton	150	\$ -
	* Minimum Bid = \$80/ton			
Item 25 - Replacement of Canal Road Water Main (Bid Items 25A. through 25I., inclusive)				\$ -

Item 26 - Water Quality Improvements

26A.	For Mobilization/Demobilization for Items 26B through 26D inclusive, as specified (maximum of five (5) percent of Item 26B through Item 26D bid), the sum of			
		l.s.	1	\$ -
26B.	For Pond Road Water Quality Improvements, as specified, the sum of			
		per l.s.	1	\$ -
26C.	For Monument Road Water Quality Improvements, as specified, the sum of			
		per l.s.	1	\$ -
26D.	For Water Quality Improvements at Pond Road and Monument Road, as specified, the sum of			
		per l.s.	1	\$ -
Item 26 - Water Quality Improvements (Bid Items 26A. through 26D., inclusive)				\$ -

BASIS OF AWARD

BASIS OF AWARD = TOTAL AMOUNT SRF ELIGIBLE BID ITEMS BASED ON ENGINEER'S ESTIMATE OF QUANTITIES (Bid Items 1 through 26, inclusive)

One Million Four Hundred Five Thousand Dollars and No Cents

\$ 1,405,000.00



MAURA HEALEY
Governor

KIM DRISCOLL
Lt. Governor

THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DEPARTMENT OF LABOR STANDARDS

Prevailing Wage Rates

As determined by the Director under the provisions of the
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

LAUREN JONES
Secretary

MICHAEL FLANAGAN
Director

Awarding Authority: Town of Orleans
Contract Number: 2022-01 **City/Town:** ORLEANS
Description of Work: 19,100 feet of 8-inch, 10-inch, 12-inch, and 18-inch PVC gravity sewer, 8,300 feet of 8-inch PVC force main, 20,300 linear feet of 1.5-inch, 2-inch and 3-inch low pressure sewer and pump station
Job Location: 19 School Road

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- The wage rates will remain in effect for the duration of the project, except in the case of multi-year public construction projects. For construction projects lasting longer than one year, awarding authorities must request an updated wage schedule no later than two weeks before the anniversary of the date the contract was executed by the awarding authority and the general contractor. For multi-year CM AT RISK projects, the awarding authority must request an annual update no later than two weeks before the anniversary date, determined as the earlier of: (a) the execution date of the GMP Amendment, or (b) the execution date of the first amendment to permit procurement of construction services. The annual update requirement is not applicable to 27F "rental of equipment" contracts. **The updated wage schedule must be provided to all contractors, including general and sub-contractors, working on the construction project.**
- This wage schedule applies only to the specific project referenced at the top of this page and uniquely identified by the "Wage Request Number" on all pages of this schedule.
- An Awarding Authority must request an updated wage schedule if it has not opened bids or selected a contractor within 90 days of the date of issuance of the wage schedule. For CM AT RISK projects (bid pursuant to G.L. c.149A), the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid for the first construction scope of work must be within 90-days of the wage schedule issuance date.
- The wage schedule shall be incorporated in any advertisement or call for bids for the project as required by M.G.L. c. 149, § 27. The wage schedule shall be made a part of the contract awarded for the project. The wage schedule must be posted in a conspicuous place at the work site for the life of the project in accordance with M.G.L. c. 149 § 27. The wages listed on the wage schedule must be paid to employees performing construction work on the project whether they are employed by the prime contractor, a filed sub-bidder, or a sub-contractor.
- Apprentices working on the project are required to be registered with the Massachusetts Division of Apprentice Standards (DAS). Apprentices must keep their apprentice identification card on their persons during all work hours on the project. An apprentice registered with DAS may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. **Any apprentice not registered with DAS regardless of whether they are registered with another federal, state, local, or private agency must be paid the journeyworker's rate.**
- Every contractor or subcontractor working on the construction project must submit weekly payroll reports and a Statement of Compliance directly to the awarding authority by mail or email and keep them on file for three years. Each weekly payroll report must contain: the employee's name, address, occupational classification, hours worked, and wages paid. Do not submit weekly payroll reports to DLS. For a sample payroll reporting form go to <http://www.mass.gov/dols/pw>.
- Contractors with questions about the wage rates or classifications included on the wage schedule have an affirmative obligation to inquire with DLS at (617) 626-6953.
- Contractors must obtain the wage schedules from awarding authorities. Failure of a contractor or subcontractor to pay the prevailing wage rates listed on the wage schedule to all employees who perform construction work on the project is a violation of the law and subjects the contractor or subcontractor to civil and criminal penalties.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may file a complaint with the Fair Labor Division of the office of the Attorney General at (617) 727-3465.

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Construction						
(2 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2021	\$35.95	\$13.41	\$16.01	\$0.00	\$65.37
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2021	\$36.02	\$13.41	\$16.01	\$0.00	\$65.44
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2021	\$36.14	\$13.41	\$16.01	\$0.00	\$65.56
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 2)</i>	08/01/2020	\$103.05	\$9.40	\$23.12	\$0.00	\$135.57
For apprentice rates see "Apprentice- PILE DRIVER"						
AIR TRACK OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.91	\$9.10	\$16.64	\$0.00	\$63.65
	06/01/2023	\$38.81	\$9.10	\$16.64	\$0.00	\$64.55
	12/01/2023	\$39.71	\$9.10	\$16.64	\$0.00	\$65.45
For apprentice rates see "Apprentice- LABORER"						
AIR TRACK OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$37.31	\$9.35	\$16.89	\$0.00	\$63.55
	06/01/2023	\$38.21	\$9.35	\$16.89	\$0.00	\$64.45
	12/01/2023	\$39.11	\$9.35	\$16.89	\$0.00	\$65.35
	06/01/2024	\$40.44	\$9.35	\$16.89	\$0.00	\$66.68
	12/01/2024	\$41.77	\$9.35	\$16.89	\$0.00	\$68.01
	06/01/2025	\$43.16	\$9.35	\$16.89	\$0.00	\$69.40
	12/01/2025	\$44.54	\$9.35	\$16.89	\$0.00	\$70.78
	06/01/2026	\$45.98	\$9.35	\$16.89	\$0.00	\$72.22
	12/01/2026	\$47.42	\$9.35	\$16.89	\$0.00	\$73.66
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
ASBESTOS REMOVER - PIPE / MECH. EQUIPT. <i>HEAT & FROST INSULATORS LOCAL 6 (BOSTON)</i>	12/01/2020	\$38.10	\$12.80	\$9.45	\$0.00	\$60.35
ASPHALT RAKER <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
ASPHALT RAKER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$36.81	\$9.35	\$16.89	\$0.00	\$63.05
	06/01/2023	\$37.71	\$9.35	\$16.89	\$0.00	\$63.95
	12/01/2023	\$38.61	\$9.35	\$16.89	\$0.00	\$64.85
	06/01/2024	\$39.94	\$9.35	\$16.89	\$0.00	\$66.18
	12/01/2024	\$41.27	\$9.35	\$16.89	\$0.00	\$67.51
	06/01/2025	\$42.66	\$9.35	\$16.89	\$0.00	\$68.90
	12/01/2025	\$44.04	\$9.35	\$16.89	\$0.00	\$70.28
	06/01/2026	\$45.48	\$9.35	\$16.89	\$0.00	\$71.72
	12/01/2026	\$46.92	\$9.35	\$16.89	\$0.00	\$73.16
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.63	\$14.25	\$16.05	\$0.00	\$83.93
	06/01/2023	\$54.88	\$14.25	\$16.05	\$0.00	\$85.18
	12/01/2023	\$56.13	\$14.25	\$16.05	\$0.00	\$86.43
	06/01/2024	\$57.43	\$14.25	\$16.05	\$0.00	\$87.73
	12/01/2024	\$58.88	\$14.25	\$16.05	\$0.00	\$89.18
	06/01/2025	\$60.18	\$14.25	\$16.05	\$0.00	\$90.48
	12/01/2025	\$61.63	\$14.25	\$16.05	\$0.00	\$91.93
	06/01/2026	\$62.93	\$14.25	\$16.05	\$0.00	\$93.23
	12/01/2026	\$64.38	\$14.25	\$16.05	\$0.00	\$94.68
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.63	\$14.25	\$16.05	\$0.00	\$83.93
	06/01/2023	\$54.88	\$14.25	\$16.05	\$0.00	\$85.18
	12/01/2023	\$56.13	\$14.25	\$16.05	\$0.00	\$86.43
	06/01/2024	\$57.43	\$14.25	\$16.05	\$0.00	\$87.73
	12/01/2024	\$58.88	\$14.25	\$16.05	\$0.00	\$89.18
	06/01/2025	\$60.18	\$14.25	\$16.05	\$0.00	\$90.48
	12/01/2025	\$61.63	\$14.25	\$16.05	\$0.00	\$91.93
	06/01/2026	\$62.93	\$14.25	\$16.05	\$0.00	\$93.23
	12/01/2026	\$64.38	\$14.25	\$16.05	\$0.00	\$94.68
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BARCO-TYPE JUMPING TAMPER <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.91	\$9.10	\$16.64	\$0.00	\$63.65
	06/01/2023	\$38.81	\$9.10	\$16.64	\$0.00	\$64.55
	12/01/2023	\$39.71	\$9.10	\$16.64	\$0.00	\$65.45
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$37.31	\$9.35	\$16.89	\$0.00	\$63.55
	06/01/2023	\$38.21	\$9.35	\$16.89	\$0.00	\$64.45
	12/01/2023	\$39.11	\$9.35	\$16.89	\$0.00	\$65.35
	06/01/2024	\$40.44	\$9.35	\$16.89	\$0.00	\$66.68
	12/01/2024	\$41.77	\$9.35	\$16.89	\$0.00	\$68.01
	06/01/2025	\$43.16	\$9.35	\$16.89	\$0.00	\$69.40
	12/01/2025	\$44.54	\$9.35	\$16.89	\$0.00	\$70.78
	06/01/2026	\$45.98	\$9.35	\$16.89	\$0.00	\$72.22
	12/01/2026	\$47.42	\$9.35	\$16.89	\$0.00	\$73.66
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
BOILER MAKER <i>BOILERMAKERS LOCAL 29</i>	01/01/2023	\$47.37	\$7.07	\$20.31	\$0.00	\$74.75
	01/01/2024	\$48.12	\$7.07	\$20.60	\$0.00	\$75.79

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - BOILERMAKER - Local 29

Effective Date - 01/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	65	\$30.79	\$7.07	\$13.22	\$0.00	\$51.08
2	65	\$30.79	\$7.07	\$13.22	\$0.00	\$51.08
3	70	\$33.16	\$7.07	\$14.23	\$0.00	\$54.46
4	75	\$35.53	\$7.07	\$15.24	\$0.00	\$57.84
5	80	\$37.90	\$7.07	\$16.25	\$0.00	\$61.22
6	85	\$40.26	\$7.07	\$17.28	\$0.00	\$64.61
7	90	\$42.63	\$7.07	\$18.28	\$0.00	\$67.98
8	95	\$45.00	\$7.07	\$19.32	\$0.00	\$71.39

Effective Date - 01/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	65	\$31.28	\$7.07	\$13.22	\$0.00	\$51.57
2	65	\$31.28	\$7.07	\$13.22	\$0.00	\$51.57
3	70	\$33.68	\$7.07	\$14.23	\$0.00	\$54.98
4	75	\$36.09	\$7.07	\$15.24	\$0.00	\$58.40
5	80	\$38.50	\$7.07	\$16.25	\$0.00	\$61.82
6	85	\$40.90	\$7.07	\$17.28	\$0.00	\$65.25
7	90	\$43.31	\$7.07	\$18.28	\$0.00	\$68.66
8	95	\$45.71	\$7.07	\$19.32	\$0.00	\$72.10

Notes:

Apprentice to Journeyworker Ratio:1:4

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)	02/01/2023	\$60.35	\$11.49	\$22.34	\$0.00	\$94.18
BRICKLAYERS LOCAL 3 (NEW BEDFORD)	08/01/2023	\$62.40	\$11.49	\$22.34	\$0.00	\$96.23
	02/01/2024	\$63.65	\$11.49	\$22.34	\$0.00	\$97.48
	08/01/2024	\$65.75	\$11.49	\$22.34	\$0.00	\$99.58
	02/01/2025	\$67.05	\$11.49	\$22.34	\$0.00	\$100.88
	08/01/2025	\$69.20	\$11.49	\$22.34	\$0.00	\$103.03
	02/01/2026	\$70.55	\$11.49	\$22.34	\$0.00	\$104.38
	08/01/2026	\$72.75	\$11.49	\$22.34	\$0.00	\$106.58
	02/01/2027	\$74.15	\$11.49	\$22.34	\$0.00	\$107.98

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - BRICK/PLASTER/CEMENT MASON - Local 3 New Bedford

Effective Date - 02/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$30.18	\$11.49	\$22.34	\$0.00	\$64.01
2	60	\$36.21	\$11.49	\$22.34	\$0.00	\$70.04
3	70	\$42.25	\$11.49	\$22.34	\$0.00	\$76.08
4	80	\$48.28	\$11.49	\$22.34	\$0.00	\$82.11
5	90	\$54.32	\$11.49	\$22.34	\$0.00	\$88.15

Effective Date - 08/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$31.20	\$11.49	\$22.34	\$0.00	\$65.03
2	60	\$37.44	\$11.49	\$22.34	\$0.00	\$71.27
3	70	\$43.68	\$11.49	\$22.34	\$0.00	\$77.51
4	80	\$49.92	\$11.49	\$22.34	\$0.00	\$83.75
5	90	\$56.16	\$11.49	\$22.34	\$0.00	\$89.99

Notes:

Apprentice to Journeyworker Ratio:1:5

BULLDOZER/GRADER/SCRAPER	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
<i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CAISSON & UNDERPINNING BOTTOM MAN	12/01/2022	\$43.73	\$9.35	\$17.97	\$0.00	\$71.05
<i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2023	\$44.73	\$9.35	\$17.97	\$0.00	\$72.05
	12/01/2023	\$45.98	\$9.35	\$17.97	\$0.00	\$73.30
	06/01/2024	\$47.46	\$9.35	\$17.97	\$0.00	\$74.78
	12/01/2024	\$48.93	\$9.35	\$17.97	\$0.00	\$76.25
	06/01/2025	\$50.43	\$9.35	\$17.97	\$0.00	\$77.75
	12/01/2025	\$51.93	\$9.35	\$17.97	\$0.00	\$79.25
	06/01/2026	\$53.48	\$9.35	\$17.97	\$0.00	\$80.80
	12/01/2026	\$54.98	\$9.35	\$17.97	\$0.00	\$82.30

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CAISSON & UNDERPINNING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2022	\$42.58	\$9.35	\$17.97	\$0.00	\$69.90
	06/01/2023	\$43.58	\$9.35	\$17.97	\$0.00	\$70.90
	12/01/2023	\$44.83	\$9.35	\$17.97	\$0.00	\$72.15
	06/01/2024	\$46.31	\$9.35	\$17.97	\$0.00	\$73.63
	12/01/2024	\$47.78	\$9.35	\$17.97	\$0.00	\$75.10
	06/01/2025	\$49.28	\$9.35	\$17.97	\$0.00	\$76.60
	12/01/2025	\$50.78	\$9.35	\$17.97	\$0.00	\$78.10
	06/01/2026	\$52.33	\$9.35	\$17.97	\$0.00	\$79.65
	12/01/2026	\$53.83	\$9.35	\$17.97	\$0.00	\$81.15
For apprentice rates see "Apprentice- LABORER"						
CAISSON & UNDERPINNING TOP MAN <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2022	\$42.58	\$9.35	\$17.97	\$0.00	\$69.90
	06/01/2023	\$43.58	\$9.35	\$17.97	\$0.00	\$70.90
	12/01/2023	\$44.83	\$9.35	\$17.97	\$0.00	\$72.15
	06/01/2024	\$46.31	\$9.35	\$17.97	\$0.00	\$73.63
	12/01/2024	\$47.78	\$9.35	\$17.97	\$0.00	\$75.10
	06/01/2025	\$49.28	\$9.35	\$17.97	\$0.00	\$76.60
	12/01/2025	\$50.78	\$9.35	\$17.97	\$0.00	\$78.10
	06/01/2026	\$52.33	\$9.35	\$17.97	\$0.00	\$79.65
	12/01/2026	\$53.83	\$9.35	\$17.97	\$0.00	\$81.15
For apprentice rates see "Apprentice- LABORER"						
CARBIDE CORE DRILL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
CARPENTER <i>CARPENTERS -ZONE 2 (Eastern Massachusetts)</i>	03/01/2023	\$45.78	\$8.68	\$19.97	\$0.00	\$74.43

Apprentice - CARPENTER - Zone 2 Eastern MA

Effective Date - 03/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.89	\$8.68	\$1.73	\$0.00	\$33.30
2	60	\$27.47	\$8.68	\$1.73	\$0.00	\$37.88
3	70	\$32.05	\$8.68	\$14.78	\$0.00	\$55.51
4	75	\$34.34	\$8.68	\$14.78	\$0.00	\$57.80
5	80	\$36.62	\$8.68	\$16.51	\$0.00	\$61.81
6	80	\$36.62	\$8.68	\$16.51	\$0.00	\$61.81
7	90	\$41.20	\$8.68	\$18.24	\$0.00	\$68.12
8	90	\$41.20	\$8.68	\$18.24	\$0.00	\$68.12

Notes:

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80
Step 1&2 \$30.71/ 3&4 \$36.93/ 5&6 \$56.82/ 7&8 \$63.06

Apprentice to Journeyworker Ratio:1:5

CARPENTER WOOD FRAME <i>CARPENTERS-ZONE 3 (Wood Frame)</i>	04/01/2022	\$23.66	\$7.21	\$4.80	\$0.00	\$35.67
	04/01/2023	\$24.16	\$7.21	\$4.80	\$0.00	\$36.17

All Aspects of New Wood Frame Work

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CARPENTER (Wood Frame) - Zone 3

Effective Date - 04/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$14.20	\$7.21	\$0.00	\$0.00	\$21.41
2	60	\$14.20	\$7.21	\$0.00	\$0.00	\$21.41
3	65	\$15.38	\$7.21	\$0.00	\$0.00	\$22.59
4	70	\$16.56	\$7.21	\$0.00	\$0.00	\$23.77
5	75	\$17.75	\$7.21	\$3.80	\$0.00	\$28.76
6	80	\$18.93	\$7.21	\$3.80	\$0.00	\$29.94
7	85	\$20.11	\$7.21	\$3.80	\$0.00	\$31.12
8	90	\$21.29	\$7.21	\$3.80	\$0.00	\$32.30

Effective Date - 04/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$14.50	\$7.21	\$0.00	\$0.00	\$21.71
2	60	\$14.50	\$7.21	\$0.00	\$0.00	\$21.71
3	65	\$15.70	\$7.21	\$0.00	\$0.00	\$22.91
4	70	\$16.91	\$7.21	\$0.00	\$0.00	\$24.12
5	75	\$18.12	\$7.21	\$3.80	\$0.00	\$29.13
6	80	\$19.33	\$7.21	\$3.80	\$0.00	\$30.34
7	85	\$20.54	\$7.21	\$3.80	\$0.00	\$31.55
8	90	\$21.74	\$7.21	\$3.80	\$0.00	\$32.75

Notes:
 % Indentured After 10/1/17; 45/45/55/55/70/70/80/80
 Step 1&2 \$17.86/ 3&4 \$20.22/ 5&6 \$27.57/ 7&8 \$29.94

Apprentice to Journeyworker Ratio:1:5

CEMENT MASONRY/PLASTERING	01/01/2023	\$49.45	\$12.75	\$22.74	\$0.87	\$85.81
BRICKLAYERS LOCAL 3 (NEW BEDFORD)	07/01/2023	\$50.59	\$12.75	\$22.74	\$0.87	\$86.95
	01/01/2024	\$51.73	\$12.75	\$22.74	\$0.87	\$88.09

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CEMENT MASONRY/PLASTERING - Eastern Mass (New Bedford)

Effective Date - 01/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.73	\$12.75	\$15.49	\$0.00	\$52.97
2	60	\$29.67	\$12.75	\$22.74	\$0.87	\$66.03
3	65	\$32.14	\$12.75	\$22.74	\$0.87	\$68.50
4	70	\$34.62	\$12.75	\$22.74	\$0.87	\$70.98
5	75	\$37.09	\$12.75	\$22.74	\$0.87	\$73.45
6	80	\$39.56	\$12.75	\$22.74	\$0.87	\$75.92
7	90	\$44.51	\$12.75	\$22.74	\$0.87	\$80.87

Effective Date - 07/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.30	\$12.75	\$15.49	\$0.00	\$53.54
2	60	\$30.35	\$12.75	\$22.74	\$0.87	\$66.71
3	65	\$32.88	\$12.75	\$22.74	\$0.87	\$69.24
4	70	\$35.41	\$12.75	\$22.74	\$0.87	\$71.77
5	75	\$37.94	\$12.75	\$22.74	\$0.87	\$74.30
6	80	\$40.47	\$12.75	\$22.74	\$0.87	\$76.83
7	90	\$45.53	\$12.75	\$22.74	\$0.87	\$81.89

Notes:
Steps 3,4 are 500 hrs. All other steps are 1,000 hrs.

Apprentice to Journeyworker Ratio:1:3

CHAIN SAW OPERATOR	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
LABORERS - ZONE 2	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95

For apprentice rates see "Apprentice- LABORER"

CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES	12/01/2022	\$54.68	\$14.25	\$16.05	\$0.00	\$84.98
OPERATING ENGINEERS LOCAL 4	06/01/2023	\$55.95	\$14.25	\$16.05	\$0.00	\$86.25
	12/01/2023	\$57.23	\$14.25	\$16.05	\$0.00	\$87.53
	06/01/2024	\$58.55	\$14.25	\$16.05	\$0.00	\$88.85
	12/01/2024	\$60.03	\$14.25	\$16.05	\$0.00	\$90.33
	06/01/2025	\$61.36	\$14.25	\$16.05	\$0.00	\$91.66
	12/01/2025	\$62.83	\$14.25	\$16.05	\$0.00	\$93.13
	06/01/2026	\$64.16	\$14.25	\$16.05	\$0.00	\$94.46
	12/01/2026	\$65.64	\$14.25	\$16.05	\$0.00	\$95.94

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
COMPRESSOR OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$35.08	\$14.25	\$16.05	\$0.00	\$65.38
	06/01/2023	\$35.90	\$14.25	\$16.05	\$0.00	\$66.20
	12/01/2023	\$36.72	\$14.25	\$16.05	\$0.00	\$67.02
	06/01/2024	\$37.57	\$14.25	\$16.05	\$0.00	\$67.87
	12/01/2024	\$38.52	\$14.25	\$16.05	\$0.00	\$68.82
	06/01/2025	\$39.37	\$14.25	\$16.05	\$0.00	\$69.67
	12/01/2025	\$40.32	\$14.25	\$16.05	\$0.00	\$70.62
	06/01/2026	\$41.18	\$14.25	\$16.05	\$0.00	\$71.48
	12/01/2026	\$42.13	\$14.25	\$16.05	\$0.00	\$72.43

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

DELEADER (BRIDGE) <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2023	\$56.06	\$8.65	\$23.05	\$0.00	\$87.76
	07/01/2023	\$57.26	\$8.65	\$23.05	\$0.00	\$88.96
	01/01/2024	\$58.46	\$8.65	\$23.05	\$0.00	\$90.16
	07/01/2024	\$59.66	\$8.65	\$23.05	\$0.00	\$91.36
	01/01/2025	\$60.86	\$8.65	\$23.05	\$0.00	\$92.56

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$28.03	\$8.65	\$0.00	\$0.00	\$36.68
2	55	\$30.83	\$8.65	\$6.27	\$0.00	\$45.75
3	60	\$33.64	\$8.65	\$6.84	\$0.00	\$49.13
4	65	\$36.44	\$8.65	\$7.41	\$0.00	\$52.50
5	70	\$39.24	\$8.65	\$19.63	\$0.00	\$67.52
6	75	\$42.05	\$8.65	\$20.20	\$0.00	\$70.90
7	80	\$44.85	\$8.65	\$20.77	\$0.00	\$74.27
8	90	\$50.45	\$8.65	\$21.91	\$0.00	\$81.01

Effective Date - 07/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$28.63	\$8.65	\$0.00	\$0.00	\$37.28
2	55	\$31.49	\$8.65	\$6.27	\$0.00	\$46.41
3	60	\$34.36	\$8.65	\$6.84	\$0.00	\$49.85
4	65	\$37.22	\$8.65	\$7.41	\$0.00	\$53.28
5	70	\$40.08	\$8.65	\$19.63	\$0.00	\$68.36
6	75	\$42.95	\$8.65	\$20.20	\$0.00	\$71.80
7	80	\$45.81	\$8.65	\$20.77	\$0.00	\$75.23
8	90	\$51.53	\$8.65	\$21.91	\$0.00	\$82.09

Notes:
Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

DEMO: ADZEMAN <i>LABORERS - ZONE 2</i>	12/01/2022	\$43.33	\$9.10	\$17.57	\$0.00	\$70.00
	06/01/2023	\$44.33	\$9.10	\$17.57	\$0.00	\$71.00
	12/01/2023	\$45.58	\$9.10	\$17.57	\$0.00	\$72.25

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"						
DEMO: BACKHOE/LOADER/HAMMER OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2022	\$44.33	\$9.10	\$17.57	\$0.00	\$71.00
	06/01/2023	\$45.33	\$9.10	\$17.57	\$0.00	\$72.00
	12/01/2023	\$46.58	\$9.10	\$17.57	\$0.00	\$73.25
For apprentice rates see "Apprentice- LABORER"						
DEMO: BURNERS <i>LABORERS - ZONE 2</i>	12/01/2022	\$44.08	\$9.10	\$17.57	\$0.00	\$70.75
	06/01/2023	\$45.08	\$9.10	\$17.57	\$0.00	\$71.75
	12/01/2023	\$46.33	\$9.10	\$17.57	\$0.00	\$73.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: CONCRETE CUTTER/SAWYER <i>LABORERS - ZONE 2</i>	12/01/2022	\$44.33	\$9.10	\$17.57	\$0.00	\$71.00
	06/01/2023	\$45.33	\$9.10	\$17.57	\$0.00	\$72.00
	12/01/2023	\$46.58	\$9.10	\$17.57	\$0.00	\$73.25
For apprentice rates see "Apprentice- LABORER"						
DEMO: JACKHAMMER OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2022	\$44.08	\$9.10	\$17.57	\$0.00	\$70.75
	06/01/2023	\$45.08	\$9.10	\$17.57	\$0.00	\$71.75
	12/01/2023	\$46.33	\$9.10	\$17.57	\$0.00	\$73.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: WRECKING LABORER <i>LABORERS - ZONE 2</i>	12/01/2022	\$43.33	\$9.10	\$17.57	\$0.00	\$70.00
	06/01/2023	\$44.33	\$9.10	\$17.57	\$0.00	\$71.00
	12/01/2023	\$45.58	\$9.10	\$17.57	\$0.00	\$72.25
For apprentice rates see "Apprentice- LABORER"						
DIRECTIONAL DRILL MACHINE OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DIVER <i>PILE DRIVER LOCAL 56 (ZONE 2)</i>	08/01/2020	\$68.70	\$9.40	\$23.12	\$0.00	\$101.22
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER <i>PILE DRIVER LOCAL 56 (ZONE 2)</i>	08/01/2020	\$49.07	\$9.40	\$23.12	\$0.00	\$81.59
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 2)</i>	08/01/2020	\$73.60	\$9.40	\$23.12	\$0.00	\$106.12
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER/SLURRY (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 2)</i>	08/01/2020	\$103.05	\$9.40	\$23.12	\$0.00	\$135.57
For apprentice rates see "Apprentice- PILE DRIVER"						
DRAWBRIDGE OPERATOR (Construction) <i>DRAWBRIDGE - SEIU LOCAL 888</i>	07/01/2020	\$26.77	\$6.67	\$3.93	\$0.16	\$37.53
ELECTRICIAN <i>ELECTRICIANS LOCAL 223</i>	09/01/2022	\$46.35	\$11.50	\$16.18	\$0.00	\$74.03
	09/01/2023	\$47.87	\$11.75	\$16.86	\$0.00	\$76.48

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - ELECTRICIAN - Local 223

Effective Date - 09/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$18.54	\$11.50	\$0.56	\$0.00	\$30.60
2	45	\$20.86	\$11.50	\$0.63	\$0.00	\$32.99
3	50	\$23.18	\$11.50	\$0.70	\$0.00	\$35.38
4	55	\$25.49	\$11.50	\$7.35	\$0.00	\$44.34
5	60	\$27.81	\$11.50	\$7.86	\$0.00	\$47.17
6	65	\$30.13	\$11.50	\$8.37	\$0.00	\$50.00
7	70	\$32.45	\$11.50	\$8.89	\$0.00	\$52.84
8	75	\$34.76	\$11.50	\$9.40	\$0.00	\$55.66

Effective Date - 09/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$19.15	\$11.75	\$0.57	\$0.00	\$31.47
2	45	\$21.54	\$11.75	\$0.65	\$0.00	\$33.94
3	50	\$23.94	\$11.75	\$0.72	\$0.00	\$36.41
4	55	\$26.33	\$11.75	\$7.79	\$0.00	\$45.87
5	60	\$28.72	\$11.75	\$8.31	\$0.00	\$48.78
6	65	\$31.12	\$11.75	\$8.65	\$0.00	\$51.52
7	70	\$33.51	\$11.75	\$9.38	\$0.00	\$54.64
8	75	\$35.90	\$11.75	\$9.90	\$0.00	\$57.55

Notes:

Apprentice to Journeyworker Ratio:2:3***

ELEVATOR CONSTRUCTOR ELEVATOR CONSTRUCTORS LOCAL 4	01/01/2022	\$65.62	\$16.03	\$20.21	\$0.00	\$101.86
---	------------	---------	---------	---------	--------	----------

Apprentice - ELEVATOR CONSTRUCTOR - Local 4

Effective Date - 01/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$32.81	\$16.03	\$0.00	\$0.00	\$48.84
2	55	\$36.09	\$16.03	\$20.21	\$0.00	\$72.33
3	65	\$42.65	\$16.03	\$20.21	\$0.00	\$78.89
4	70	\$45.93	\$16.03	\$20.21	\$0.00	\$82.17
5	80	\$52.50	\$16.03	\$20.21	\$0.00	\$88.74

Notes:
Steps 1-2 are 6 mos.; Steps 3-5 are 1 year

Apprentice to Journeyworker Ratio:1:1

ELEVATOR CONSTRUCTOR HELPER ELEVATOR CONSTRUCTORS LOCAL 4	01/01/2022	\$45.93	\$16.03	\$20.21	\$0.00	\$82.17
--	------------	---------	---------	---------	--------	---------

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"						
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$36.81	\$9.35	\$16.89	\$0.00	\$63.05
	06/01/2023	\$37.71	\$9.35	\$16.89	\$0.00	\$63.95
	12/01/2023	\$38.61	\$9.35	\$16.89	\$0.00	\$64.85
	06/01/2024	\$39.94	\$9.35	\$16.89	\$0.00	\$66.18
	12/01/2024	\$41.27	\$9.35	\$16.89	\$0.00	\$67.51
	06/01/2025	\$42.66	\$9.35	\$16.89	\$0.00	\$68.90
	12/01/2025	\$44.04	\$9.35	\$16.89	\$0.00	\$70.28
	06/01/2026	\$45.48	\$9.35	\$16.89	\$0.00	\$71.72
	12/01/2026	\$46.92	\$9.35	\$16.89	\$0.00	\$73.16
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
FIELD ENG.INST.PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/05/2022	\$48.67	\$14.25	\$16.05	\$0.00	\$78.97
	05/01/2023	\$49.91	\$14.25	\$16.05	\$0.00	\$80.21
	11/01/2023	\$51.15	\$14.25	\$16.05	\$0.00	\$81.45
	05/01/2024	\$52.39	\$14.25	\$16.05	\$0.00	\$82.69
	11/01/2024	\$53.68	\$14.25	\$16.05	\$0.00	\$83.98
	05/01/2025	\$55.12	\$14.25	\$16.05	\$0.00	\$85.42
	11/01/2025	\$56.41	\$14.25	\$16.05	\$0.00	\$86.71
	05/01/2026	\$57.85	\$14.25	\$16.05	\$0.00	\$88.15
	11/01/2026	\$59.14	\$14.25	\$16.05	\$0.00	\$89.44
	05/01/2027	\$60.57	\$14.25	\$16.05	\$0.00	\$90.87
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIELD ENG.PARTY CHIEF-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2022	\$50.22	\$14.25	\$16.05	\$0.00	\$80.52
	05/01/2023	\$51.47	\$14.25	\$16.05	\$0.00	\$81.77
	11/01/2023	\$52.72	\$14.25	\$16.05	\$0.00	\$83.02
	05/01/2024	\$53.97	\$14.25	\$16.05	\$0.00	\$84.27
	11/01/2024	\$55.27	\$14.25	\$16.05	\$0.00	\$85.57
	05/01/2025	\$56.72	\$14.25	\$16.05	\$0.00	\$87.02
	11/01/2025	\$58.02	\$14.25	\$16.05	\$0.00	\$88.32
	05/01/2026	\$59.47	\$14.25	\$16.05	\$0.00	\$89.77
	11/01/2026	\$60.77	\$14.25	\$16.05	\$0.00	\$91.07
	05/01/2027	\$62.22	\$14.25	\$16.05	\$0.00	\$92.52
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIELD ENG.ROD PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2022	\$24.31	\$14.25	\$16.05	\$0.00	\$54.61
	05/01/2023	\$25.05	\$14.25	\$16.05	\$0.00	\$55.35
	11/01/2023	\$25.78	\$14.25	\$16.05	\$0.00	\$56.08
	05/01/2024	\$26.51	\$14.25	\$16.05	\$0.00	\$56.81
	11/01/2024	\$27.27	\$14.25	\$16.05	\$0.00	\$57.57
	05/01/2025	\$28.12	\$14.25	\$16.05	\$0.00	\$58.42
	11/01/2025	\$28.88	\$14.25	\$16.05	\$0.00	\$59.18
	05/01/2026	\$29.73	\$14.25	\$16.05	\$0.00	\$60.03
	11/01/2026	\$30.49	\$14.25	\$16.05	\$0.00	\$60.79
	05/01/2027	\$31.34	\$14.25	\$16.05	\$0.00	\$61.64
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIRE ALARM INSTALLER <i>ELECTRICIANS LOCAL 223</i>	09/01/2020	\$43.66	\$10.90	\$14.66	\$0.00	\$69.22
For apprentice rates see "Apprentice- ELECTRICIAN"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING <i>ELECTRICIANS</i>	09/01/2020	\$36.86	\$10.90	\$12.45	\$0.00	\$60.21
<i>LOCAL 223</i> For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"						
FIREMAN (ASST. ENGINEER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$43.54	\$14.25	\$16.05	\$0.00	\$73.84
	06/01/2023	\$44.56	\$14.25	\$16.05	\$0.00	\$74.86
	12/01/2023	\$45.57	\$14.25	\$16.05	\$0.00	\$75.87
	06/01/2024	\$46.63	\$14.25	\$16.05	\$0.00	\$76.93
	12/01/2024	\$47.81	\$14.25	\$16.05	\$0.00	\$78.11
	06/01/2025	\$48.87	\$14.25	\$16.05	\$0.00	\$79.17
	12/01/2025	\$50.04	\$14.25	\$16.05	\$0.00	\$80.34
	06/01/2026	\$51.10	\$14.25	\$16.05	\$0.00	\$81.40
	12/01/2026	\$52.28	\$14.25	\$16.05	\$0.00	\$82.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FLAGGER & SIGNALER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$25.23	\$9.35	\$16.89	\$0.00	\$51.47
	06/01/2023	\$25.98	\$9.35	\$16.89	\$0.00	\$52.22
	12/01/2023	\$25.98	\$9.35	\$16.89	\$0.00	\$52.22
	06/01/2024	\$27.01	\$9.35	\$16.89	\$0.00	\$53.25
	12/01/2024	\$27.01	\$9.35	\$16.89	\$0.00	\$53.25
	06/01/2025	\$28.09	\$9.35	\$16.89	\$0.00	\$54.33
	12/01/2025	\$28.09	\$9.35	\$16.89	\$0.00	\$54.33
	06/01/2026	\$29.21	\$9.35	\$16.89	\$0.00	\$55.45
	12/01/2026	\$29.21	\$9.35	\$16.89	\$0.00	\$55.45
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
FLOORCOVERER <i>FLOORCOVERERS LOCAL 2168 ZONE II</i>	03/01/2022	\$47.62	\$8.68	\$20.27	\$0.00	\$76.57

Apprentice - FLOORCOVERER - Local 2168 Zone II

Effective Date - 03/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.81	\$8.68	\$1.79	\$0.00	\$34.28
2	55	\$26.19	\$8.68	\$1.79	\$0.00	\$36.66
3	60	\$28.57	\$8.68	\$14.90	\$0.00	\$52.15
4	65	\$30.95	\$8.68	\$14.90	\$0.00	\$54.53
5	70	\$33.33	\$8.68	\$16.69	\$0.00	\$58.70
6	75	\$35.72	\$8.68	\$16.69	\$0.00	\$61.09
7	80	\$38.10	\$8.68	\$18.48	\$0.00	\$65.26
8	85	\$40.48	\$8.68	\$18.48	\$0.00	\$67.64

Notes: Steps are 750 hrs.
% After 10/1/17; 45/45/55/55/70/70/80/80 (1500hr Steps)
Step 1&2 \$31.90/ 3&4 \$38.39/ 5&6 \$58.70/ 7&8 \$65.26

Apprentice to Journeyworker Ratio:1:1

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FORK LIFT/CHERRY PICKER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.63	\$14.25	\$16.05	\$0.00	\$83.93
	06/01/2023	\$54.88	\$14.25	\$16.05	\$0.00	\$85.18
	12/01/2023	\$56.13	\$14.25	\$16.05	\$0.00	\$86.43
	06/01/2024	\$57.43	\$14.25	\$16.05	\$0.00	\$87.73
	12/01/2024	\$58.88	\$14.25	\$16.05	\$0.00	\$89.18
	06/01/2025	\$60.18	\$14.25	\$16.05	\$0.00	\$90.48
	12/01/2025	\$61.63	\$14.25	\$16.05	\$0.00	\$91.93
	06/01/2026	\$62.93	\$14.25	\$16.05	\$0.00	\$93.23
	12/01/2026	\$64.38	\$14.25	\$16.05	\$0.00	\$94.68
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GENERATOR/LIGHTING PLANT/HEATERS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$35.08	\$14.25	\$16.05	\$0.00	\$65.38
	06/01/2023	\$35.90	\$14.25	\$16.05	\$0.00	\$66.20
	12/01/2023	\$36.72	\$14.25	\$16.05	\$0.00	\$67.02
	06/01/2024	\$37.57	\$14.25	\$16.05	\$0.00	\$67.87
	12/01/2024	\$38.52	\$14.25	\$16.05	\$0.00	\$68.82
	06/01/2025	\$39.37	\$14.25	\$16.05	\$0.00	\$69.67
	12/01/2025	\$40.32	\$14.25	\$16.05	\$0.00	\$70.62
	06/01/2026	\$41.18	\$14.25	\$16.05	\$0.00	\$71.48
	12/01/2026	\$42.13	\$14.25	\$16.05	\$0.00	\$72.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) <i>GLAZIERS LOCAL 1333</i>	06/01/2020	\$39.18	\$10.80	\$10.45	\$0.00	\$60.43

Apprentice - GLAZIER - Local 1333

Effective Date - 06/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.59	\$10.80	\$1.80	\$0.00	\$32.19
2	56	\$22.04	\$10.80	\$1.80	\$0.00	\$34.64
3	63	\$24.49	\$10.80	\$2.45	\$0.00	\$37.74
4	69	\$26.94	\$10.80	\$2.45	\$0.00	\$40.19
5	75	\$29.39	\$10.80	\$3.15	\$0.00	\$43.34
6	81	\$31.83	\$10.80	\$3.15	\$0.00	\$45.78
7	88	\$34.28	\$10.80	\$10.45	\$0.00	\$55.53
8	94	\$36.73	\$10.80	\$10.45	\$0.00	\$57.98

Notes:

Apprentice to Journeyworker Ratio:1:3

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
HOISTING ENGINEER/CRANES/GRADALLS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.63	\$14.25	\$16.05	\$0.00	\$83.93
	06/01/2023	\$54.88	\$14.25	\$16.05	\$0.00	\$85.18
	12/01/2023	\$56.13	\$14.25	\$16.05	\$0.00	\$86.43
	06/01/2024	\$57.43	\$14.25	\$16.05	\$0.00	\$87.73
	12/01/2024	\$58.88	\$14.25	\$16.05	\$0.00	\$89.18
	06/01/2025	\$60.18	\$14.25	\$16.05	\$0.00	\$90.48
	12/01/2025	\$61.63	\$14.25	\$16.05	\$0.00	\$91.93
	06/01/2026	\$62.93	\$14.25	\$16.05	\$0.00	\$93.23
	12/01/2026	\$64.38	\$14.25	\$16.05	\$0.00	\$94.68

Apprentice - OPERATING ENGINEERS - Local 4

Effective Date - 12/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$29.50	\$14.25	\$0.00	\$0.00	\$43.75
2	60	\$32.18	\$14.25	\$16.05	\$0.00	\$62.48
3	65	\$34.86	\$14.25	\$16.05	\$0.00	\$65.16
4	70	\$37.54	\$14.25	\$16.05	\$0.00	\$67.84
5	75	\$40.22	\$14.25	\$16.05	\$0.00	\$70.52
6	80	\$42.90	\$14.25	\$16.05	\$0.00	\$73.20
7	85	\$45.59	\$14.25	\$16.05	\$0.00	\$75.89
8	90	\$48.27	\$14.25	\$16.05	\$0.00	\$78.57

Effective Date - 06/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$30.18	\$14.25	\$0.00	\$0.00	\$44.43
2	60	\$32.93	\$14.25	\$16.05	\$0.00	\$63.23
3	65	\$35.67	\$14.25	\$16.05	\$0.00	\$65.97
4	70	\$38.42	\$14.25	\$16.05	\$0.00	\$68.72
5	75	\$41.16	\$14.25	\$16.05	\$0.00	\$71.46
6	80	\$43.90	\$14.25	\$16.05	\$0.00	\$74.20
7	85	\$46.65	\$14.25	\$16.05	\$0.00	\$76.95
8	90	\$49.39	\$14.25	\$16.05	\$0.00	\$79.69

Notes:

Apprentice to Journeyworker Ratio:1:6

HVAC (DUCTWORK) <i>SHEETMETAL WORKERS LOCAL 17 - B</i>	04/01/2022	\$38.91	\$13.65	\$17.15	\$2.09	\$71.80
---	------------	---------	---------	---------	--------	---------

For apprentice rates see "Apprentice- SHEET METAL WORKER"

HVAC (ELECTRICAL CONTROLS) <i>ELECTRICIANS LOCAL 223</i>	09/01/2020	\$43.66	\$10.90	\$14.66	\$0.00	\$69.22
---	------------	---------	---------	---------	--------	---------

For apprentice rates see "Apprentice- ELECTRICIAN"

HVAC (TESTING AND BALANCING - AIR) <i>SHEETMETAL WORKERS LOCAL 17 - B</i>	04/01/2022	\$38.91	\$13.65	\$17.15	\$2.09	\$71.80
--	------------	---------	---------	---------	--------	---------

For apprentice rates see "Apprentice- SHEET METAL WORKER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
HVAC (TESTING AND BALANCING -WATER) <i>PLUMBERS & PIPEFITTERS LOCAL 51</i>	08/30/2021	\$46.49	\$10.15	\$19.95	\$0.00	\$76.59
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HVAC MECHANIC <i>PLUMBERS & PIPEFITTERS LOCAL 51</i>	08/30/2021	\$46.49	\$10.15	\$19.95	\$0.00	\$76.59
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HYDRAULIC DRILLS <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.91	\$9.10	\$16.64	\$0.00	\$63.65
	06/01/2023	\$38.81	\$9.10	\$16.64	\$0.00	\$64.55
	12/01/2023	\$39.71	\$9.10	\$16.64	\$0.00	\$65.45
For apprentice rates see "Apprentice- LABORER"						
HYDRAULIC DRILLS (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$37.31	\$9.35	\$16.89	\$0.00	\$63.55
	06/01/2023	\$38.21	\$9.35	\$16.89	\$0.00	\$64.45
	12/01/2023	\$39.11	\$9.35	\$16.89	\$0.00	\$65.35
	06/01/2024	\$40.44	\$9.35	\$16.89	\$0.00	\$66.68
	12/01/2024	\$41.77	\$9.35	\$16.89	\$0.00	\$68.01
	06/01/2025	\$43.16	\$9.35	\$16.89	\$0.00	\$69.40
	12/01/2025	\$44.54	\$9.35	\$16.89	\$0.00	\$70.78
	06/01/2026	\$45.98	\$9.35	\$16.89	\$0.00	\$72.22
12/01/2026	\$47.42	\$9.35	\$16.89	\$0.00	\$73.66	
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
INSULATOR (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (BOSTON)</i>	09/01/2022	\$53.85	\$13.80	\$17.14	\$0.00	\$84.79

Apprentice - ASBESTOS INSULATOR (Pipes & Tanks) - Local 6 Boston

Effective Date - 09/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.93	\$13.80	\$12.42	\$0.00	\$53.15
2	60	\$32.31	\$13.80	\$13.36	\$0.00	\$59.47
3	70	\$37.70	\$13.80	\$14.31	\$0.00	\$65.81
4	80	\$43.08	\$13.80	\$15.25	\$0.00	\$72.13

Notes:

Steps are 1 year

Apprentice to Journeyworker Ratio:1:4

IRONWORKER/WELDER <i>IRONWORKERS LOCAL 37</i>	03/16/2021	\$42.46	\$7.70	\$17.10	\$0.00	\$67.26
--	------------	---------	--------	---------	--------	---------

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - IRONWORKER - Local 37

Effective Date - 03/16/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	70	\$29.72	\$7.70	\$17.10	\$0.00	\$54.52
2	75	\$31.85	\$7.70	\$17.10	\$0.00	\$56.65
3	80	\$33.97	\$7.70	\$17.10	\$0.00	\$58.77
4	85	\$36.09	\$7.70	\$17.10	\$0.00	\$60.89
5	90	\$38.21	\$7.70	\$17.10	\$0.00	\$63.01
6	95	\$40.34	\$7.70	\$17.10	\$0.00	\$65.14

Notes:

Apprentice to Journeyworker Ratio:1:4

JACKHAMMER & PAVING BREAKER OPERATOR LABORERS - ZONE 2	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95

For apprentice rates see "Apprentice- LABORER"

LABORER LABORERS - ZONE 2	12/01/2022	\$37.16	\$9.10	\$16.64	\$0.00	\$62.90
	06/01/2023	\$38.06	\$9.10	\$16.64	\$0.00	\$63.80
	12/01/2023	\$38.96	\$9.10	\$16.64	\$0.00	\$64.70

Apprentice - LABORER - Zone 2

Effective Date - 12/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$22.30	\$9.10	\$16.64	\$0.00	\$48.04
2	70	\$26.01	\$9.10	\$16.64	\$0.00	\$51.75
3	80	\$29.73	\$9.10	\$16.64	\$0.00	\$55.47
4	90	\$33.44	\$9.10	\$16.64	\$0.00	\$59.18

Effective Date - 06/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$22.84	\$9.10	\$16.64	\$0.00	\$48.58
2	70	\$26.64	\$9.10	\$16.64	\$0.00	\$52.38
3	80	\$30.45	\$9.10	\$16.64	\$0.00	\$56.19
4	90	\$34.25	\$9.10	\$16.64	\$0.00	\$59.99

Notes:

Apprentice to Journeyworker Ratio:1:5

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER (HEAVY & HIGHWAY) LABORERS - ZONE 2 (HEAVY & HIGHWAY)	12/01/2022	\$36.56	\$9.35	\$16.89	\$0.00	\$62.80
	06/01/2023	\$37.46	\$9.35	\$16.89	\$0.00	\$63.70
	12/01/2023	\$38.36	\$9.35	\$16.89	\$0.00	\$64.60
	06/01/2024	\$39.69	\$9.35	\$16.89	\$0.00	\$65.93
	12/01/2024	\$41.02	\$9.35	\$16.89	\$0.00	\$67.26
	06/01/2025	\$42.41	\$9.35	\$16.89	\$0.00	\$68.65
	12/01/2025	\$43.79	\$9.35	\$16.89	\$0.00	\$70.03
	06/01/2026	\$45.23	\$9.35	\$16.89	\$0.00	\$71.47
	12/01/2026	\$46.67	\$9.35	\$16.89	\$0.00	\$72.91

Apprentice - LABORER (Heavy & Highway) - Zone 2

Effective Date - 12/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$21.94	\$9.35	\$16.89	\$0.00	\$48.18
2	70	\$25.59	\$9.35	\$16.89	\$0.00	\$51.83
3	80	\$29.25	\$9.35	\$16.89	\$0.00	\$55.49
4	90	\$32.90	\$9.35	\$16.89	\$0.00	\$59.14

Effective Date - 06/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$22.48	\$9.35	\$16.89	\$0.00	\$48.72
2	70	\$26.22	\$9.35	\$16.89	\$0.00	\$52.46
3	80	\$29.97	\$9.35	\$16.89	\$0.00	\$56.21
4	90	\$33.71	\$9.35	\$16.89	\$0.00	\$59.95

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER: CARPENTER TENDER LABORERS - ZONE 2	12/01/2022	\$37.16	\$9.10	\$16.64	\$0.00	\$62.90
	06/01/2023	\$38.06	\$9.10	\$16.64	\$0.00	\$63.80
	12/01/2023	\$38.96	\$9.10	\$16.64	\$0.00	\$64.70

For apprentice rates see "Apprentice- LABORER"

LABORER: CEMENT FINISHER TENDER LABORERS - ZONE 2	12/01/2022	\$37.16	\$9.10	\$16.64	\$0.00	\$62.90
	06/01/2023	\$38.06	\$9.10	\$16.64	\$0.00	\$63.80
	12/01/2023	\$38.96	\$9.10	\$16.64	\$0.00	\$64.70

For apprentice rates see "Apprentice- LABORER"

LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER LABORERS - ZONE 2	12/01/2022	\$37.25	\$9.10	\$16.70	\$0.00	\$63.05
	06/01/2023	\$38.15	\$9.10	\$16.70	\$0.00	\$63.95
	12/01/2023	\$39.05	\$9.10	\$16.70	\$0.00	\$64.85

For apprentice rates see "Apprentice- LABORER"

LABORER: MASON TENDER LABORERS - ZONE 2	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: MASON TENDER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$36.81	\$9.35	\$16.89	\$0.00	\$63.05
	06/01/2023	\$37.71	\$9.35	\$16.89	\$0.00	\$63.95
	12/01/2023	\$38.61	\$9.35	\$16.89	\$0.00	\$64.85
	06/01/2024	\$39.94	\$9.35	\$16.89	\$0.00	\$66.18
	12/01/2024	\$41.27	\$9.35	\$16.89	\$0.00	\$67.51
	06/01/2025	\$42.66	\$9.35	\$16.89	\$0.00	\$68.90
	12/01/2025	\$44.04	\$9.35	\$16.89	\$0.00	\$70.28
	06/01/2026	\$45.48	\$9.35	\$16.89	\$0.00	\$71.72
	12/01/2026	\$46.92	\$9.35	\$16.89	\$0.00	\$73.16
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
LABORER: MULTI-TRADE TENDER <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.16	\$9.10	\$16.64	\$0.00	\$62.90
	06/01/2023	\$38.06	\$9.10	\$16.64	\$0.00	\$63.80
	12/01/2023	\$38.96	\$9.10	\$16.64	\$0.00	\$64.70
For apprentice rates see "Apprentice- LABORER"						
LABORER: TREE REMOVER <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.16	\$9.10	\$16.64	\$0.00	\$62.90
	06/01/2023	\$38.06	\$9.10	\$16.64	\$0.00	\$63.80
	12/01/2023	\$38.96	\$9.10	\$16.64	\$0.00	\$64.70
This classification applies to the removal of standing trees, and the trimming and removal of branches and limbs when related to public works construction or site clearance incidental to construction . For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$36.81	\$9.35	\$16.89	\$0.00	\$63.05
	06/01/2023	\$37.71	\$9.35	\$16.89	\$0.00	\$63.95
	12/01/2023	\$38.61	\$9.35	\$16.89	\$0.00	\$64.85
	06/01/2024	\$39.94	\$9.35	\$16.89	\$0.00	\$66.18
	12/01/2024	\$41.27	\$9.35	\$16.89	\$0.00	\$67.51
	06/01/2025	\$42.66	\$9.35	\$16.89	\$0.00	\$68.90
	12/01/2025	\$44.04	\$9.35	\$16.89	\$0.00	\$70.28
	06/01/2026	\$45.48	\$9.35	\$16.89	\$0.00	\$71.72
	12/01/2026	\$46.92	\$9.35	\$16.89	\$0.00	\$73.16
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
MARBLE & TILE FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE & TILE</i>	02/01/2023	\$46.25	\$11.49	\$20.37	\$0.00	\$78.11
	08/01/2023	\$47.89	\$11.49	\$20.37	\$0.00	\$79.75
	02/01/2024	\$48.89	\$11.49	\$20.37	\$0.00	\$80.75
	08/01/2024	\$50.57	\$11.49	\$20.37	\$0.00	\$82.43
	02/01/2025	\$51.61	\$11.49	\$20.37	\$0.00	\$83.47
	08/01/2025	\$53.33	\$11.49	\$20.37	\$0.00	\$85.19
	02/01/2026	\$54.41	\$11.49	\$20.37	\$0.00	\$86.27
	08/01/2026	\$56.17	\$11.49	\$20.37	\$0.00	\$88.03
	02/01/2027	\$57.29	\$11.49	\$20.37	\$0.00	\$89.15

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MARBLE & TILE FINISHER - Local 3 Marble & Tile

Effective Date - 02/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.13	\$11.49	\$20.37	\$0.00	\$54.99
2	60	\$27.75	\$11.49	\$20.37	\$0.00	\$59.61
3	70	\$32.38	\$11.49	\$20.37	\$0.00	\$64.24
4	80	\$37.00	\$11.49	\$20.37	\$0.00	\$68.86
5	90	\$41.63	\$11.49	\$20.37	\$0.00	\$73.49

Effective Date - 08/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.95	\$11.49	\$20.37	\$0.00	\$55.81
2	60	\$28.73	\$11.49	\$20.37	\$0.00	\$60.59
3	70	\$33.52	\$11.49	\$20.37	\$0.00	\$65.38
4	80	\$38.31	\$11.49	\$20.37	\$0.00	\$70.17
5	90	\$43.10	\$11.49	\$20.37	\$0.00	\$74.96

Notes:

Apprentice to Journeyworker Ratio:1:3

MARBLE MASONS, TILELAYERS & TERRAZZO MECH	02/01/2023	\$60.37	\$11.49	\$22.31	\$0.00	\$94.17
BRICKLAYERS LOCAL 3 - MARBLE & TILE	08/01/2023	\$62.42	\$11.49	\$22.31	\$0.00	\$96.22
	02/01/2024	\$63.67	\$11.49	\$22.31	\$0.00	\$97.47
	08/01/2024	\$65.77	\$11.49	\$22.31	\$0.00	\$99.57
	02/01/2025	\$67.07	\$11.49	\$22.31	\$0.00	\$100.87
	08/01/2025	\$69.22	\$11.49	\$22.31	\$0.00	\$103.02
	02/01/2026	\$70.57	\$11.49	\$22.31	\$0.00	\$104.37
	08/01/2026	\$72.77	\$11.49	\$22.31	\$0.00	\$106.57
	02/01/2027	\$74.17	\$11.49	\$22.31	\$0.00	\$107.97

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MARBLE-TILE-TERRAZZO MECHANIC - Local 3 Marble & Tile

Effective Date - 02/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$30.19	\$11.49	\$22.31	\$0.00	\$63.99
2	60	\$36.22	\$11.49	\$22.31	\$0.00	\$70.02
3	70	\$42.26	\$11.49	\$22.31	\$0.00	\$76.06
4	80	\$48.30	\$11.49	\$22.31	\$0.00	\$82.10
5	90	\$54.33	\$11.49	\$22.31	\$0.00	\$88.13

Effective Date - 08/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$31.21	\$11.49	\$22.31	\$0.00	\$65.01
2	60	\$37.45	\$11.49	\$22.31	\$0.00	\$71.25
3	70	\$43.69	\$11.49	\$22.31	\$0.00	\$77.49
4	80	\$49.94	\$11.49	\$22.31	\$0.00	\$83.74
5	90	\$56.18	\$11.49	\$22.31	\$0.00	\$89.98

Notes:

Apprentice to Journeyworker Ratio:1:5

MECH. SWEEPER OPERATOR (ON CONST. SITES) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MECHANICS MAINTENANCE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MILLWRIGHT (Zone 2) <i>MILLWRIGHTS LOCAL 1121 - Zone 2</i>	01/02/2023	\$41.92	\$8.58	\$21.57	\$0.00	\$72.07
---	------------	---------	--------	---------	--------	---------

Apprentice - MILLWRIGHT - Local 1121 Zone 2

Effective Date - 01/02/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$23.06	\$8.58	\$5.72	\$0.00	\$37.36
2	65	\$27.25	\$8.58	\$17.93	\$0.00	\$53.76
3	75	\$31.44	\$8.58	\$18.98	\$0.00	\$59.00
4	85	\$35.63	\$8.58	\$20.01	\$0.00	\$64.22

Notes: Step 1&2 Appr. indentured after 1/6/2020 receive no pension, but do receive annuity. (Step 1 \$5.72, Step 2 \$6.66)
Steps are 2,000 hours

Apprentice to Journeyworker Ratio:1:4

MORTAR MIXER <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95

For apprentice rates see "Apprentice- LABORER"

OILER (OTHER THAN TRUCK CRANES,GRADALLS) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$24.37	\$14.25	\$16.05	\$0.00	\$54.67
	06/01/2023	\$24.94	\$14.25	\$16.05	\$0.00	\$55.24
	12/01/2023	\$25.51	\$14.25	\$16.05	\$0.00	\$55.81
	06/01/2024	\$26.11	\$14.25	\$16.05	\$0.00	\$56.41
	12/01/2024	\$26.77	\$14.25	\$16.05	\$0.00	\$57.07
	06/01/2025	\$27.37	\$14.25	\$16.05	\$0.00	\$57.67
	12/01/2025	\$28.03	\$14.25	\$16.05	\$0.00	\$58.33
	06/01/2026	\$28.62	\$14.25	\$16.05	\$0.00	\$58.92
	12/01/2026	\$29.29	\$14.25	\$16.05	\$0.00	\$59.59

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OILER (TRUCK CRANES, GRADALLS) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$29.57	\$14.25	\$16.05	\$0.00	\$59.87
	06/01/2023	\$30.27	\$14.25	\$16.05	\$0.00	\$60.57
	12/01/2023	\$30.96	\$14.25	\$16.05	\$0.00	\$61.26
	06/01/2024	\$31.68	\$14.25	\$16.05	\$0.00	\$61.98
	12/01/2024	\$32.48	\$14.25	\$16.05	\$0.00	\$62.78
	06/01/2025	\$33.20	\$14.25	\$16.05	\$0.00	\$63.50
	12/01/2025	\$34.00	\$14.25	\$16.05	\$0.00	\$64.30
	06/01/2026	\$34.72	\$14.25	\$16.05	\$0.00	\$65.02
	12/01/2026	\$35.52	\$14.25	\$16.05	\$0.00	\$65.82

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OTHER POWER DRIVEN EQUIPMENT - CLASS II <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PAINTER (BRIDGES/TANKS) <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2023	\$56.06	\$8.65	\$23.05	\$0.00	\$87.76
	07/01/2023	\$57.26	\$8.65	\$23.05	\$0.00	\$88.96
	01/01/2024	\$58.46	\$8.65	\$23.05	\$0.00	\$90.16
	07/01/2024	\$59.66	\$8.65	\$23.05	\$0.00	\$91.36
	01/01/2025	\$60.86	\$8.65	\$23.05	\$0.00	\$92.56

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$28.03	\$8.65	\$0.00	\$0.00	\$36.68
2	55	\$30.83	\$8.65	\$6.27	\$0.00	\$45.75
3	60	\$33.64	\$8.65	\$6.84	\$0.00	\$49.13
4	65	\$36.44	\$8.65	\$7.41	\$0.00	\$52.50
5	70	\$39.24	\$8.65	\$19.63	\$0.00	\$67.52
6	75	\$42.05	\$8.65	\$20.20	\$0.00	\$70.90
7	80	\$44.85	\$8.65	\$20.77	\$0.00	\$74.27
8	90	\$50.45	\$8.65	\$21.91	\$0.00	\$81.01

Effective Date - 07/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$28.63	\$8.65	\$0.00	\$0.00	\$37.28
2	55	\$31.49	\$8.65	\$6.27	\$0.00	\$46.41
3	60	\$34.36	\$8.65	\$6.84	\$0.00	\$49.85
4	65	\$37.22	\$8.65	\$7.41	\$0.00	\$53.28
5	70	\$40.08	\$8.65	\$19.63	\$0.00	\$68.36
6	75	\$42.95	\$8.65	\$20.20	\$0.00	\$71.80
7	80	\$45.81	\$8.65	\$20.77	\$0.00	\$75.23
8	90	\$51.53	\$8.65	\$21.91	\$0.00	\$82.09

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, NEW) *	01/01/2023	\$46.96	\$8.65	\$23.05	\$0.00	\$78.66
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. <i>PAINTERS LOCAL 35 - ZONE 2</i>	07/01/2023	\$48.16	\$8.65	\$23.05	\$0.00	\$79.86
	01/01/2024	\$49.36	\$8.65	\$23.05	\$0.00	\$81.06
	07/01/2024	\$50.56	\$8.65	\$23.05	\$0.00	\$82.26
	01/01/2025	\$51.76	\$8.65	\$23.05	\$0.00	\$83.46

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - New

Effective Date - 01/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.48	\$8.65	\$0.00	\$0.00	\$32.13
2	55	\$25.83	\$8.65	\$6.27	\$0.00	\$40.75
3	60	\$28.18	\$8.65	\$6.84	\$0.00	\$43.67
4	65	\$30.52	\$8.65	\$7.41	\$0.00	\$46.58
5	70	\$32.87	\$8.65	\$19.63	\$0.00	\$61.15
6	75	\$35.22	\$8.65	\$20.20	\$0.00	\$64.07
7	80	\$37.57	\$8.65	\$20.77	\$0.00	\$66.99
8	90	\$42.26	\$8.65	\$21.91	\$0.00	\$72.82

Effective Date - 07/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.08	\$8.65	\$0.00	\$0.00	\$32.73
2	55	\$26.49	\$8.65	\$6.27	\$0.00	\$41.41
3	60	\$28.90	\$8.65	\$6.84	\$0.00	\$44.39
4	65	\$31.30	\$8.65	\$7.41	\$0.00	\$47.36
5	70	\$33.71	\$8.65	\$19.63	\$0.00	\$61.99
6	75	\$36.12	\$8.65	\$20.20	\$0.00	\$64.97
7	80	\$38.53	\$8.65	\$20.77	\$0.00	\$67.95
8	90	\$43.34	\$8.65	\$21.91	\$0.00	\$73.90

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT)	01/01/2023	\$45.02	\$8.65	\$23.05	\$0.00	\$76.72
PAINTERS LOCAL 35 - ZONE 2	07/01/2023	\$46.22	\$8.65	\$23.05	\$0.00	\$77.92
	01/01/2024	\$47.42	\$8.65	\$23.05	\$0.00	\$79.12
	07/01/2024	\$48.62	\$8.65	\$23.05	\$0.00	\$80.32
	01/01/2025	\$49.82	\$8.65	\$23.05	\$0.00	\$81.52

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - Repaint

Effective Date - 01/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.51	\$8.65	\$0.00	\$0.00	\$31.16
2	55	\$24.76	\$8.65	\$6.27	\$0.00	\$39.68
3	60	\$27.01	\$8.65	\$6.84	\$0.00	\$42.50
4	65	\$29.26	\$8.65	\$7.41	\$0.00	\$45.32
5	70	\$31.51	\$8.65	\$19.63	\$0.00	\$59.79
6	75	\$33.77	\$8.65	\$20.20	\$0.00	\$62.62
7	80	\$36.02	\$8.65	\$20.77	\$0.00	\$65.44
8	90	\$40.52	\$8.65	\$21.91	\$0.00	\$71.08

Effective Date - 07/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.11	\$8.65	\$0.00	\$0.00	\$31.76
2	55	\$25.42	\$8.65	\$6.27	\$0.00	\$40.34
3	60	\$27.73	\$8.65	\$6.84	\$0.00	\$43.22
4	65	\$30.04	\$8.65	\$19.06	\$0.00	\$57.75
5	70	\$32.35	\$8.65	\$19.63	\$0.00	\$60.63
6	75	\$34.67	\$8.65	\$20.20	\$0.00	\$63.52
7	80	\$36.98	\$8.65	\$20.77	\$0.00	\$66.40
8	90	\$41.60	\$8.65	\$21.91	\$0.00	\$72.16

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, NEW) *	01/01/2023	\$45.56	\$8.65	\$23.05	\$0.00	\$77.26
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. <i>PAINTERS LOCAL 35 - ZONE 2</i>	07/01/2023	\$46.76	\$8.65	\$23.05	\$0.00	\$78.46
	01/01/2024	\$47.96	\$8.65	\$23.05	\$0.00	\$79.66
	07/01/2024	\$49.16	\$8.65	\$23.05	\$0.00	\$80.86
	01/01/2025	\$50.36	\$8.65	\$23.05	\$0.00	\$82.06

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER - Local 35 Zone 2 - BRUSH NEW

Effective Date - 01/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.78	\$8.65	\$0.00	\$0.00	\$31.43
2	55	\$25.06	\$8.65	\$6.27	\$0.00	\$39.98
3	60	\$27.34	\$8.65	\$6.84	\$0.00	\$42.83
4	65	\$29.61	\$8.65	\$7.41	\$0.00	\$45.67
5	70	\$31.89	\$8.65	\$19.63	\$0.00	\$60.17
6	75	\$34.17	\$8.65	\$20.20	\$0.00	\$63.02
7	80	\$36.45	\$8.65	\$20.77	\$0.00	\$65.87
8	90	\$41.00	\$8.65	\$21.91	\$0.00	\$71.56

Effective Date - 07/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.38	\$8.65	\$0.00	\$0.00	\$32.03
2	55	\$25.72	\$8.65	\$6.27	\$0.00	\$40.64
3	60	\$28.06	\$8.65	\$6.84	\$0.00	\$43.55
4	65	\$30.39	\$8.65	\$7.41	\$0.00	\$46.45
5	70	\$32.73	\$8.65	\$19.63	\$0.00	\$61.01
6	75	\$35.07	\$8.65	\$20.20	\$0.00	\$63.92
7	80	\$37.41	\$8.65	\$20.77	\$0.00	\$66.83
8	90	\$42.08	\$8.65	\$21.91	\$0.00	\$72.64

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, REPAINT)	01/01/2023	\$43.62	\$8.65	\$23.05	\$0.00	\$75.32
PAINTERS LOCAL 35 - ZONE 2	07/01/2023	\$44.82	\$8.65	\$23.05	\$0.00	\$76.52
	01/01/2024	\$46.02	\$8.65	\$23.05	\$0.00	\$77.72
	07/01/2024	\$47.22	\$8.65	\$23.05	\$0.00	\$78.92
	01/01/2025	\$48.42	\$8.65	\$23.05	\$0.00	\$80.12

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 2 - BRUSH REPAINT

Effective Date - 01/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.81	\$8.65	\$0.00	\$0.00	\$30.46
2	55	\$23.99	\$8.65	\$6.27	\$0.00	\$38.91
3	60	\$26.17	\$8.65	\$6.84	\$0.00	\$41.66
4	65	\$28.35	\$8.65	\$7.41	\$0.00	\$44.41
5	70	\$30.53	\$8.65	\$19.63	\$0.00	\$58.81
6	75	\$32.72	\$8.65	\$20.20	\$0.00	\$61.57
7	80	\$34.90	\$8.65	\$20.77	\$0.00	\$64.32
8	90	\$39.26	\$8.65	\$21.91	\$0.00	\$69.82

Effective Date - 07/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.41	\$8.65	\$0.00	\$0.00	\$31.06
2	55	\$24.65	\$8.65	\$6.27	\$0.00	\$39.57
3	60	\$26.89	\$8.65	\$6.84	\$0.00	\$42.38
4	65	\$29.13	\$8.65	\$7.41	\$0.00	\$45.19
5	70	\$31.37	\$8.65	\$19.63	\$0.00	\$59.65
6	75	\$33.62	\$8.65	\$20.20	\$0.00	\$62.47
7	80	\$35.86	\$8.65	\$20.77	\$0.00	\$65.28
8	90	\$40.34	\$8.65	\$21.91	\$0.00	\$70.90

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)	12/01/2022	\$36.56	\$9.35	\$16.89	\$0.00	\$62.80
LABORERS - ZONE 2 (HEAVY & HIGHWAY)	06/01/2023	\$37.46	\$9.35	\$16.89	\$0.00	\$63.70
	12/01/2023	\$38.36	\$9.35	\$16.89	\$0.00	\$64.60
	06/01/2024	\$39.69	\$9.35	\$16.89	\$0.00	\$65.93
	12/01/2024	\$41.02	\$9.35	\$16.89	\$0.00	\$67.26
	06/01/2025	\$42.41	\$9.35	\$16.89	\$0.00	\$68.65
	12/01/2025	\$43.79	\$9.35	\$16.89	\$0.00	\$70.03
	06/01/2026	\$45.23	\$9.35	\$16.89	\$0.00	\$71.47
	12/01/2026	\$46.67	\$9.35	\$16.89	\$0.00	\$72.91

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)

PANEL & PICKUP TRUCKS DRIVER	12/01/2021	\$35.78	\$13.41	\$16.01	\$0.00	\$65.20
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B						

PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)	08/01/2020	\$46.11	\$9.40	\$23.12	\$0.00	\$78.63
PILE DRIVER LOCAL 56 (ZONE 2)						

For apprentice rates see "Apprentice- PILE DRIVER"

PILE DRIVER	08/01/2020	\$46.11	\$9.40	\$23.12	\$0.00	\$78.63
PILE DRIVER LOCAL 56 (ZONE 2)						

Apprentice - PILE DRIVER - Local 56 Zone 2

Effective Date - 08/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Notes: Apprentice wages shall be no less than the following Steps;
 (Same as set in Zone 1)
 1\$57.06/2\$61.96/3\$66.87/4\$69.32/5\$71.78/6\$71.78/7\$76.68/8\$76.68

Apprentice to Journeyworker Ratio:1:5

PIPELAYER <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95

For apprentice rates see "Apprentice- LABORER"

PIPELAYER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$36.81	\$9.35	\$16.89	\$0.00	\$63.05
	06/01/2023	\$37.71	\$9.35	\$16.89	\$0.00	\$63.95
	12/01/2023	\$38.61	\$9.35	\$16.89	\$0.00	\$64.85
	06/01/2024	\$39.94	\$9.35	\$16.89	\$0.00	\$66.18
	12/01/2024	\$41.27	\$9.35	\$16.89	\$0.00	\$67.51
	06/01/2025	\$42.66	\$9.35	\$16.89	\$0.00	\$68.90
	12/01/2025	\$44.04	\$9.35	\$16.89	\$0.00	\$70.28
	06/01/2026	\$45.48	\$9.35	\$16.89	\$0.00	\$71.72
	12/01/2026	\$46.92	\$9.35	\$16.89	\$0.00	\$73.16

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

PLUMBER & PIPEFITTER <i>PLUMBERS & PIPEFITTERS LOCAL 51</i>	08/30/2021	\$46.49	\$10.15	\$19.95	\$0.00	\$76.59
---	------------	---------	---------	---------	--------	---------

Apprentice - PLUMBER/PIPEFITTER - Local 51

Effective Date - 08/30/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$18.60	\$10.15	\$2.50	\$0.00	\$31.25
2	50	\$23.25	\$10.15	\$2.50	\$0.00	\$35.90
3	60	\$27.89	\$10.15	\$8.80	\$0.00	\$46.84
4	70	\$32.54	\$10.15	\$14.08	\$0.00	\$56.77
5	80	\$37.19	\$10.15	\$17.60	\$0.00	\$64.94

Notes:
 Steps 2000hrs. Prior 9/1/05; 40/40/45/50/55/60/65/75/80/85

Apprentice to Journeyworker Ratio:1:3

PNEUMATIC CONTROLS (TEMP.) <i>PLUMBERS & PIPEFITTERS LOCAL 51</i>	08/30/2021	\$46.49	\$10.15	\$19.95	\$0.00	\$76.59
---	------------	---------	---------	---------	--------	---------

For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"

PNEUMATIC DRILL/TOOL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$36.81	\$9.35	\$16.89	\$0.00	\$63.05
	06/01/2023	\$37.71	\$9.35	\$16.89	\$0.00	\$63.95
	12/01/2023	\$38.61	\$9.35	\$16.89	\$0.00	\$64.85
	06/01/2024	\$39.94	\$9.35	\$16.89	\$0.00	\$66.18
	12/01/2024	\$41.27	\$9.35	\$16.89	\$0.00	\$67.51
	06/01/2025	\$42.66	\$9.35	\$16.89	\$0.00	\$68.90
	12/01/2025	\$44.04	\$9.35	\$16.89	\$0.00	\$70.28
	06/01/2026	\$45.48	\$9.35	\$16.89	\$0.00	\$71.72
	12/01/2026	\$46.92	\$9.35	\$16.89	\$0.00	\$73.16
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
POWDERMAN & BLASTER <i>LABORERS - ZONE 2</i>	12/01/2022	\$38.16	\$9.10	\$16.64	\$0.00	\$63.90
	06/01/2023	\$39.06	\$9.10	\$16.64	\$0.00	\$64.80
	12/01/2023	\$39.96	\$9.10	\$16.64	\$0.00	\$65.70
For apprentice rates see "Apprentice- LABORER"						
POWDERMAN & BLASTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$37.56	\$9.35	\$16.89	\$0.00	\$63.80
	06/01/2023	\$38.46	\$9.35	\$16.89	\$0.00	\$64.70
	12/01/2023	\$39.36	\$9.35	\$16.89	\$0.00	\$65.60
	06/01/2024	\$40.69	\$9.35	\$16.89	\$0.00	\$66.93
	12/01/2024	\$42.02	\$9.35	\$16.89	\$0.00	\$68.26
	06/01/2025	\$43.41	\$9.35	\$16.89	\$0.00	\$69.65
	12/01/2025	\$44.79	\$9.35	\$16.89	\$0.00	\$71.03
	06/01/2026	\$46.23	\$9.35	\$16.89	\$0.00	\$72.47
	12/01/2026	\$47.67	\$9.35	\$16.89	\$0.00	\$73.91
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
POWER SHOVEL/DERRICK/TRENCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.63	\$14.25	\$16.05	\$0.00	\$83.93
	06/01/2023	\$54.88	\$14.25	\$16.05	\$0.00	\$85.18
	12/01/2023	\$56.13	\$14.25	\$16.05	\$0.00	\$86.43
	06/01/2024	\$57.43	\$14.25	\$16.05	\$0.00	\$87.73
	12/01/2024	\$58.88	\$14.25	\$16.05	\$0.00	\$89.18
	06/01/2025	\$60.18	\$14.25	\$16.05	\$0.00	\$90.48
	12/01/2025	\$61.63	\$14.25	\$16.05	\$0.00	\$91.93
	06/01/2026	\$62.93	\$14.25	\$16.05	\$0.00	\$93.23
	12/01/2026	\$64.38	\$14.25	\$16.05	\$0.00	\$94.68
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (CONCRETE) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.63	\$14.25	\$16.05	\$0.00	\$83.93
	06/01/2023	\$54.88	\$14.25	\$16.05	\$0.00	\$85.18
	12/01/2023	\$56.13	\$14.25	\$16.05	\$0.00	\$86.43
	06/01/2024	\$57.43	\$14.25	\$16.05	\$0.00	\$87.73
	12/01/2024	\$58.88	\$14.25	\$16.05	\$0.00	\$89.18
	06/01/2025	\$60.18	\$14.25	\$16.05	\$0.00	\$90.48
	12/01/2025	\$61.63	\$14.25	\$16.05	\$0.00	\$91.93
	06/01/2026	\$62.93	\$14.25	\$16.05	\$0.00	\$93.23
	12/01/2026	\$64.38	\$14.25	\$16.05	\$0.00	\$94.68
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$35.08	\$14.25	\$16.05	\$0.00	\$65.38
	06/01/2023	\$35.90	\$14.25	\$16.05	\$0.00	\$66.20
	12/01/2023	\$36.72	\$14.25	\$16.05	\$0.00	\$67.02
	06/01/2024	\$37.57	\$14.25	\$16.05	\$0.00	\$67.87
	12/01/2024	\$38.52	\$14.25	\$16.05	\$0.00	\$68.82
	06/01/2025	\$39.37	\$14.25	\$16.05	\$0.00	\$69.67
	12/01/2025	\$40.32	\$14.25	\$16.05	\$0.00	\$70.62
	06/01/2026	\$41.18	\$14.25	\$16.05	\$0.00	\$71.48
	12/01/2026	\$42.13	\$14.25	\$16.05	\$0.00	\$72.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
READY-MIX CONCRETE DRIVER <i>TEAMSTERS 653 - Southeastern Concrete (Weymouth)</i>	08/01/2022	\$24.50	\$13.41	\$6.90	\$0.00	\$44.81
	05/01/2023	\$25.00	\$13.41	\$6.90	\$0.00	\$45.31
	08/01/2023	\$25.00	\$13.91	\$6.90	\$0.00	\$45.81
RECLAIMERS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
RIDE-ON MOTORIZED BUGGY OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
ROLLER/SPREADER/MULCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
ROOFER (Inc.Roofer Waterproofing &Roofer Damproofg) <i>ROOFERS LOCAL 33</i>	02/01/2023	\$48.53	\$12.78	\$20.20	\$0.00	\$81.51
	08/01/2023	\$50.03	\$12.78	\$20.20	\$0.00	\$83.01
	02/01/2024	\$51.28	\$12.78	\$20.20	\$0.00	\$84.26
	08/01/2024	\$52.78	\$12.78	\$20.20	\$0.00	\$85.76
	02/01/2025	\$54.03	\$12.78	\$20.20	\$0.00	\$87.01
	08/01/2025	\$55.53	\$12.78	\$20.20	\$0.00	\$88.51
	02/01/2026	\$56.78	\$12.78	\$20.20	\$0.00	\$89.76

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - ROOFER - Local 33

Effective Date - 02/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.27	\$12.78	\$5.59	\$0.00	\$42.64
2	60	\$29.12	\$12.78	\$20.20	\$0.00	\$62.10
3	65	\$31.54	\$12.78	\$20.20	\$0.00	\$64.52
4	75	\$36.40	\$12.78	\$20.20	\$0.00	\$69.38
5	85	\$41.25	\$12.78	\$20.20	\$0.00	\$74.23

Effective Date - 08/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.02	\$12.78	\$5.59	\$0.00	\$43.39
2	60	\$30.02	\$12.78	\$20.20	\$0.00	\$63.00
3	65	\$32.52	\$12.78	\$20.20	\$0.00	\$65.50
4	75	\$37.52	\$12.78	\$20.20	\$0.00	\$70.50
5	85	\$42.53	\$12.78	\$20.20	\$0.00	\$75.51

Notes: ** 1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1
 Step 1 is 2000 hrs.; Steps 2-5 are 1000 hrs.
 (Hot Pitch Mechanics' receive \$1.00 hr. above ROOFER)

Apprentice to Journeyworker Ratio:**

ROOFER SLATE / TILE / PRECAST CONCRETE	02/01/2023	\$48.78	\$12.78	\$20.20	\$0.00	\$81.76
ROOFERS LOCAL 33	08/01/2023	\$50.28	\$12.78	\$20.20	\$0.00	\$83.26
	02/01/2024	\$51.53	\$12.78	\$20.20	\$0.00	\$84.51
	08/01/2024	\$53.03	\$12.78	\$20.20	\$0.00	\$86.01
	02/01/2025	\$54.28	\$12.78	\$20.20	\$0.00	\$87.26
	08/01/2025	\$55.78	\$12.78	\$20.20	\$0.00	\$88.76
	02/01/2026	\$57.03	\$12.78	\$20.20	\$0.00	\$90.01

For apprentice rates see "Apprentice- ROOFER"

SHEETMETAL WORKER	04/01/2022	\$37.41	\$13.95	\$17.85	\$2.08	\$71.29
SHEETMETAL WORKERS LOCAL 17 - B						

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - SHEET METAL WORKER - Local 17-B

Effective Date - 04/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$14.96	\$13.95	\$4.10	\$1.02	\$34.03
2	45	\$16.83	\$13.95	\$4.61	\$1.09	\$36.48
3	50	\$18.71	\$13.95	\$11.26	\$1.35	\$45.27
4	55	\$20.58	\$13.95	\$11.26	\$1.41	\$47.20
5	60	\$22.45	\$13.95	\$14.60	\$1.53	\$52.53
6	65	\$24.32	\$13.95	\$14.88	\$1.59	\$54.74
7	70	\$26.19	\$13.95	\$15.16	\$1.66	\$56.96
8	75	\$28.06	\$13.95	\$15.44	\$1.72	\$59.17
9	80	\$29.93	\$13.95	\$15.72	\$1.79	\$61.39
10	85	\$31.80	\$13.95	\$15.57	\$1.85	\$63.17

Notes:

Apprentice to Journeyworker Ratio:1:3

SPECIALIZED EARTH MOVING EQUIP < 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2021	\$36.24	\$13.41	\$16.01	\$0.00	\$65.66
SPECIALIZED EARTH MOVING EQUIP > 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2021	\$36.53	\$13.41	\$16.01	\$0.00	\$65.95
SPRINKLER FITTER <i>SPRINKLER FITTERS LOCAL 550 - (Section B) Zone 2</i>	03/01/2023	\$59.58	\$10.90	\$23.20	\$0.00	\$93.68
	10/01/2023	\$61.16	\$10.90	\$23.20	\$0.00	\$95.26
	03/01/2024	\$62.78	\$10.90	\$23.20	\$0.00	\$96.88
	10/01/2024	\$64.40	\$10.90	\$23.20	\$0.00	\$98.50
	03/01/2025	\$66.02	\$10.90	\$23.20	\$0.00	\$100.12

Apprentice - SPRINKLER FITTER - Local 550 (Section B) Zone 2

Effective Date - 03/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$20.85	\$10.90	\$9.70	\$0.00	\$41.45
2	40	\$23.83	\$10.90	\$9.70	\$0.00	\$44.43
3	45	\$26.81	\$10.90	\$9.70	\$0.00	\$47.41
4	50	\$29.79	\$10.90	\$9.70	\$0.00	\$50.39
5	55	\$32.77	\$10.90	\$9.70	\$0.00	\$53.37
6	60	\$35.75	\$10.90	\$11.20	\$0.00	\$57.85
7	65	\$38.73	\$10.90	\$11.20	\$0.00	\$60.83
8	70	\$41.71	\$10.90	\$11.20	\$0.00	\$63.81
9	75	\$44.69	\$10.90	\$11.20	\$0.00	\$66.79
10	80	\$47.66	\$10.90	\$11.20	\$0.00	\$69.76

Effective Date - 10/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$21.41	\$10.90	\$9.70	\$0.00	\$42.01
2	40	\$24.46	\$10.90	\$9.70	\$0.00	\$45.06
3	45	\$27.52	\$10.90	\$9.70	\$0.00	\$48.12
4	50	\$30.58	\$10.90	\$9.70	\$0.00	\$51.18
5	55	\$33.64	\$10.90	\$9.70	\$0.00	\$54.24
6	60	\$36.70	\$10.90	\$11.20	\$0.00	\$58.80
7	65	\$39.75	\$10.90	\$11.20	\$0.00	\$61.85
8	70	\$42.81	\$10.90	\$11.20	\$0.00	\$64.91
9	75	\$45.87	\$10.90	\$11.20	\$0.00	\$67.97
10	80	\$48.93	\$10.90	\$11.20	\$0.00	\$71.03

Notes: Apprentice entered prior 9/30/10:
40/45/50/55/60/65/70/75/80/85
Steps are 850 hours

Apprentice to Journeyworker Ratio:1:3

STEAM BOILER OPERATOR	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
OPERATING ENGINEERS LOCAL 4	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

TELECOMMUNICATION TECHNICIAN <i>ELECTRICIANS LOCAL 223</i>	09/01/2022	\$38.16	\$11.25	\$13.31	\$0.00	\$62.72
	09/01/2023	\$39.40	\$11.50	\$13.91	\$0.00	\$64.81
	09/01/2024	\$40.69	\$11.75	\$14.53	\$0.00	\$66.97

Apprentice - TELECOMMUNICATION TECHNICIAN - Local 223

Effective Date - 09/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Notes: See Electrician Apprentice Wages

Telecom Apprentice Wages shall be the same as the Electrician Apprentice Wages

Apprentice to Journeyworker Ratio:2:3***

TERRAZZO FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE & TILE</i>	02/01/2023	\$59.29	\$11.49	\$22.34	\$0.00	\$93.12
	08/01/2023	\$61.34	\$11.49	\$22.34	\$0.00	\$95.17
	02/01/2024	\$62.59	\$11.49	\$22.34	\$0.00	\$96.42
	08/01/2024	\$64.69	\$11.49	\$22.34	\$0.00	\$98.52
	02/01/2025	\$65.99	\$11.49	\$22.34	\$0.00	\$99.82
	08/01/2025	\$68.14	\$11.49	\$22.34	\$0.00	\$101.97
	02/01/2026	\$69.49	\$11.49	\$22.34	\$0.00	\$103.32
	08/01/2026	\$71.69	\$11.49	\$22.34	\$0.00	\$105.52
	02/01/2027	\$73.09	\$11.49	\$22.34	\$0.00	\$106.92

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - TERRAZZO FINISHER - Local 3 Marble & Tile

Effective Date - 02/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$29.65	\$11.49	\$22.34	\$0.00	\$63.48
2	60	\$35.57	\$11.49	\$22.34	\$0.00	\$69.40
3	70	\$41.50	\$11.49	\$22.34	\$0.00	\$75.33
4	80	\$47.43	\$11.49	\$22.34	\$0.00	\$81.26
5	90	\$53.36	\$11.49	\$22.34	\$0.00	\$87.19

Effective Date - 08/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$30.67	\$11.49	\$22.34	\$0.00	\$64.50
2	60	\$36.80	\$11.49	\$22.34	\$0.00	\$70.63
3	70	\$42.94	\$11.49	\$22.34	\$0.00	\$76.77
4	80	\$49.07	\$11.49	\$22.34	\$0.00	\$82.90
5	90	\$55.21	\$11.49	\$22.34	\$0.00	\$89.04

Notes:

Apprentice to Journeyworker Ratio:1:3

TEST BORING DRILLER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2022	\$46.58	\$9.35	\$17.97	\$0.00	\$73.90
	06/01/2023	\$47.58	\$9.35	\$17.97	\$0.00	\$74.90
	12/01/2023	\$48.83	\$9.35	\$17.97	\$0.00	\$76.15
	06/01/2024	\$50.31	\$9.35	\$17.97	\$0.00	\$77.63
	12/01/2024	\$51.78	\$9.35	\$17.97	\$0.00	\$79.10
	06/01/2025	\$53.28	\$9.35	\$17.97	\$0.00	\$80.60
	12/01/2025	\$54.78	\$9.35	\$17.97	\$0.00	\$82.10
	06/01/2026	\$56.33	\$9.35	\$17.97	\$0.00	\$83.65
	12/01/2026	\$57.83	\$9.35	\$17.97	\$0.00	\$85.15

For apprentice rates see "Apprentice- LABORER"

TEST BORING DRILLER HELPER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2022	\$42.70	\$9.35	\$17.97	\$0.00	\$70.02
	06/01/2023	\$43.70	\$9.35	\$17.97	\$0.00	\$71.02
	12/01/2023	\$44.95	\$9.35	\$17.97	\$0.00	\$72.27
	06/01/2024	\$46.43	\$9.35	\$17.97	\$0.00	\$73.75
	12/01/2024	\$47.90	\$9.35	\$17.97	\$0.00	\$75.22
	06/01/2025	\$49.40	\$9.35	\$17.97	\$0.00	\$76.72
	12/01/2025	\$50.90	\$9.35	\$17.97	\$0.00	\$78.22
	06/01/2026	\$52.45	\$9.35	\$17.97	\$0.00	\$79.77
	12/01/2026	\$53.95	\$9.35	\$17.97	\$0.00	\$81.27

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TEST BORING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2022	\$42.58	\$9.35	\$17.97	\$0.00	\$69.90
	06/01/2023	\$43.58	\$9.35	\$17.97	\$0.00	\$70.90
	12/01/2023	\$44.83	\$9.35	\$17.97	\$0.00	\$72.15
	06/01/2024	\$46.31	\$9.35	\$17.97	\$0.00	\$73.63
	12/01/2024	\$47.78	\$9.35	\$17.97	\$0.00	\$75.10
	06/01/2025	\$49.28	\$9.35	\$17.97	\$0.00	\$76.60
	12/01/2025	\$50.78	\$9.35	\$17.97	\$0.00	\$78.10
	06/01/2026	\$52.33	\$9.35	\$17.97	\$0.00	\$79.65
	12/01/2026	\$53.83	\$9.35	\$17.97	\$0.00	\$81.15
For apprentice rates see "Apprentice- LABORER"						
TRACTORS/PORTABLE STEAM GENERATORS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2021	\$36.82	\$13.41	\$16.01	\$0.00	\$66.24
TUNNEL WORK - COMPRESSED AIR <i>LABORERS (COMPRESSED AIR)</i>	12/01/2022	\$54.81	\$9.35	\$18.42	\$0.00	\$82.58
	06/01/2023	\$55.81	\$9.35	\$18.42	\$0.00	\$83.58
	12/01/2023	\$57.06	\$9.35	\$18.42	\$0.00	\$84.83
	06/01/2024	\$58.54	\$9.35	\$18.42	\$0.00	\$86.31
	12/01/2024	\$60.01	\$9.35	\$18.42	\$0.00	\$87.78
	06/01/2025	\$61.51	\$9.35	\$18.42	\$0.00	\$89.28
	12/01/2025	\$63.01	\$9.35	\$18.42	\$0.00	\$90.78
	06/01/2026	\$64.56	\$9.35	\$18.42	\$0.00	\$92.33
	12/01/2026	\$66.06	\$9.35	\$18.42	\$0.00	\$93.83
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i>	12/01/2022	\$56.81	\$9.35	\$18.42	\$0.00	\$84.58
	06/01/2023	\$57.81	\$9.35	\$18.42	\$0.00	\$85.58
	12/01/2023	\$59.06	\$9.35	\$18.42	\$0.00	\$86.83
	06/01/2024	\$60.54	\$9.35	\$18.42	\$0.00	\$88.31
	12/01/2024	\$62.01	\$9.35	\$18.42	\$0.00	\$89.78
	06/01/2025	\$63.51	\$9.35	\$18.42	\$0.00	\$91.28
	12/01/2025	\$65.01	\$9.35	\$18.42	\$0.00	\$92.78
	06/01/2026	\$66.56	\$9.35	\$18.42	\$0.00	\$94.33
	12/01/2026	\$68.06	\$9.35	\$18.42	\$0.00	\$95.83
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2022	\$46.88	\$9.35	\$18.42	\$0.00	\$74.65
	06/01/2023	\$47.88	\$9.35	\$18.42	\$0.00	\$75.65
	12/01/2023	\$49.13	\$9.35	\$18.42	\$0.00	\$76.90
	06/01/2024	\$50.61	\$9.35	\$18.42	\$0.00	\$78.38
	12/01/2024	\$52.08	\$9.35	\$18.42	\$0.00	\$79.85
	06/01/2025	\$53.58	\$9.35	\$18.42	\$0.00	\$81.35
	12/01/2025	\$55.08	\$9.35	\$18.42	\$0.00	\$82.85
	06/01/2026	\$56.63	\$9.35	\$18.42	\$0.00	\$84.40
	12/01/2026	\$58.13	\$9.35	\$18.42	\$0.00	\$85.90
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2022	\$48.88	\$9.35	\$18.42	\$0.00	\$76.65
	06/01/2023	\$49.88	\$9.35	\$18.42	\$0.00	\$77.65
	12/01/2023	\$51.13	\$9.35	\$18.42	\$0.00	\$78.90
	06/01/2024	\$52.61	\$9.35	\$18.42	\$0.00	\$80.38
	12/01/2024	\$54.08	\$9.35	\$18.42	\$0.00	\$81.85
	06/01/2025	\$55.58	\$9.35	\$18.42	\$0.00	\$83.35
	12/01/2025	\$57.08	\$9.35	\$18.42	\$0.00	\$84.85
	06/01/2026	\$58.63	\$9.35	\$18.42	\$0.00	\$86.40
	12/01/2026	\$60.13	\$9.35	\$18.42	\$0.00	\$87.90
For apprentice rates see "Apprentice- LABORER"						
VAC-HAUL <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2021	\$36.24	\$13.41	\$16.01	\$0.00	\$65.66
WAGON DRILL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$36.81	\$9.35	\$16.89	\$0.00	\$63.05
	06/01/2023	\$37.71	\$9.35	\$16.89	\$0.00	\$63.95
	12/01/2023	\$38.61	\$9.35	\$16.89	\$0.00	\$64.85
	06/01/2024	\$39.94	\$9.35	\$16.89	\$0.00	\$66.18
	12/01/2024	\$41.27	\$9.35	\$16.89	\$0.00	\$67.51
	06/01/2025	\$42.66	\$9.35	\$16.89	\$0.00	\$68.90
	12/01/2025	\$44.04	\$9.35	\$16.89	\$0.00	\$70.28
	06/01/2026	\$45.48	\$9.35	\$16.89	\$0.00	\$71.72
	12/01/2026	\$46.92	\$9.35	\$16.89	\$0.00	\$73.16
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
WASTE WATER PUMP OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.63	\$14.25	\$16.05	\$0.00	\$83.93
	06/01/2023	\$54.88	\$14.25	\$16.05	\$0.00	\$85.18
	12/01/2023	\$56.13	\$14.25	\$16.05	\$0.00	\$86.43
	06/01/2024	\$57.43	\$14.25	\$16.05	\$0.00	\$87.73
	12/01/2024	\$58.88	\$14.25	\$16.05	\$0.00	\$89.18
	06/01/2025	\$60.18	\$14.25	\$16.05	\$0.00	\$90.48
	12/01/2025	\$61.63	\$14.25	\$16.05	\$0.00	\$91.93
	06/01/2026	\$62.93	\$14.25	\$16.05	\$0.00	\$93.23
	12/01/2026	\$64.38	\$14.25	\$16.05	\$0.00	\$94.68
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
WATER METER INSTALLER <i>PLUMBERS & PIPEFITTERS LOCAL 51</i>	08/30/2021	\$46.49	\$10.15	\$19.95	\$0.00	\$76.59
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"						

Additional Apprentices Information:

Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the pre-determined hourly wage rate established by the Commissioner under the provisions of the M.G.L. c. 149, ss. 26-27D. Apprentices ratios are established by the Division of Apprenticeship Training pursuant to M.G.L. c. 23, ss. 11E-11L.

All apprentices must be registered with the Division of Apprenticeship Training in accordance with M.G.L. c. 23, ss. 11E-11L.

All steps are six months (1000 hours.)

Ratios are expressed in allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified.

** Multiple ratios are listed in the comment field.

*** APP to JM; 1:1, 2:2, 2:3, 3:4, 4:4, 4:5, 4:6, 5:7, 6:7, 6:8, 6:9, 7:10, 8:10, 8:11, 8:12, 9:13, 10:13, 10:14, etc.

**** APP to JM; 1:1, 1:2, 2:3, 2:4, 3:5, 4:6, 4:7, 5:8, 6:9, 6:10, 7:11, 8:12, 8:13, 9:14, 10:15, 10:16, etc.



LIFT STATION LEVEL TRANSMITTER

NON-FOULING DESIGN FOR WASTEWATER APPLICATIONS

Specifically designed for extended service in sewage lift station environments, the LevelRat by KELLER America features a wide sensing diaphragm yet small overall size. Unlike competing models which feature a fragile Teflon®-coated rubber diaphragm, the LevelRat incorporates a monolithic diaphragm which combines the non-stick quality of Teflon with superior toughness and abrasion resistance.

The LevelRat utilizes proven piezoresistive silicon measurement technology combined with KELLER's state-of-the-art, microprocessor-based signal conditioning circuitry to provide outstanding accuracy and reliability over a wide compensated temperature range.

Perfectly suited for pump control applications, the LevelRat is compatible with any standard 2-wire, 4...20 mA current loop or 3-wire voltage systems. The RS485 interface allows users to scale the analog output to any desired range within the standard pressure range. The LevelRat is typically suspended into the liquid by a standard PE-jacketed cable that is both self-supporting and vented. Optional Hytrel or Tefzel-jacketed cables are available, should the installation require greater protection against chemical interaction.

KELLER America's guaranteed lightning protection makes this transmitter ideal for installation in areas prone to chronic damage due to transients caused by lightning.

For more information on the LevelRat, or any other KELLER product, please contact KELLER America, or view the entire KELLER catalog at kelleramerica.com.

FEATURES

4...20mA models include guaranteed lightning protection at no additional cost.

16-bit internal digital error correction for cost-effective low Total Error Band (TEB)₃.

316L stainless construction standard - Optional Titanium for severe applications.

Non-fouling diaphragm with superior resistance to puncture.

2-year warranty covers defects in materials and workmanship.

User-rangeable analog output ensures compatibility as requirements change.

RS485 modified-MODBUS compatible interface allows up to 128 transmitters on a single bus.

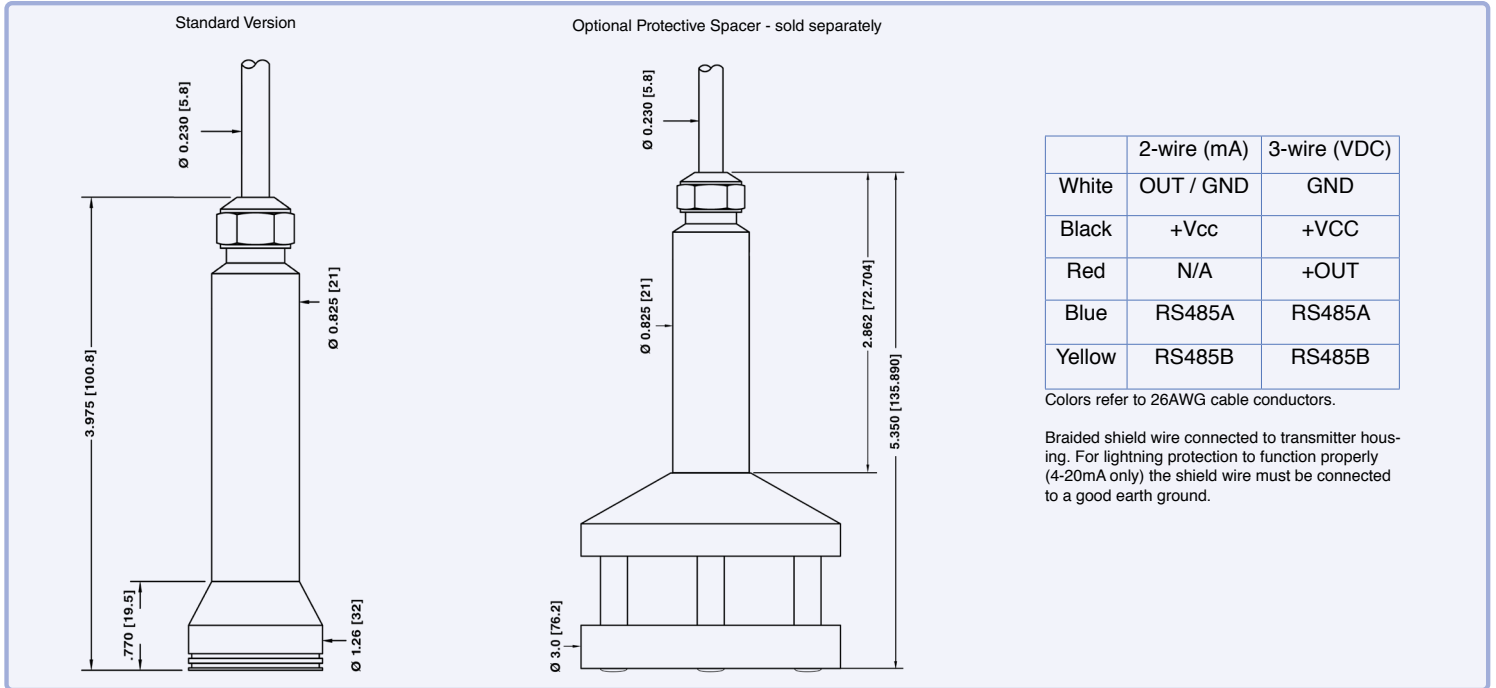
Standard dual (analog & RS485) outputs simplify interface to controls, data collection, and telemetry systems.

Built in the U.S.A. ARRA Section 1605 Compliant.

Standard 3-day lead time.

LEVELRAT





	2-wire (mA)	3-wire (VDC)
White	OUT / GND	GND
Black	+Vcc	+VCC
Red	N/A	+OUT
Blue	RS485A	RS485A
Yellow	RS485B	RS485B

Colors refer to 26AWG cable conductors.

Braided shield wire connected to transmitter housing. For lightning protection to function properly (4-20mA only) the shield wire must be connected to a good earth ground.

Pressure Ranges_{1,2}

Relative Infinite between 0...5 and 0...100 ft W.C.

- The LevelRat can be provided with custom calibration at no extra cost. For fluids other than water, the specific gravity must be given at the time the order is placed.
- Intermediate ranges are realized by deranging the analog output from the next highest basic range: 1, 3, and 10 bar (relative). Level range may be specified in units of lb/in²(psi), inches WC or feet WC. KELLER America uses the International Standard conversion of 2.3067 feet WC/psi.

Accuracy₃

Static Standard $\pm 0.5\%$ FS
 Total Error Band Standard $\pm 1\%$ BR

- Static accuracy includes the combined effects of non-linearity, hysteresis, and non-repeatability at room temperature (25°C). Total Error Band (TEB) includes the combined effects of non-linearity, hysteresis, and non-repeatability as well as thermal dependencies, over the compensated temperature range, expressed as a percentage of the basic range (BR).

The calculation for maximum TEB on intermediate ranges (IR) is: $TEB_{IR} = (BR/IR) \times TEB_{BR}$

Output₄

Current 4...20mA + RS485
 Voltage 0...5, 0...10VDC + RS485
 Resolution 0.002%₅

- Other voltage output options available on request.
- Resolution applies to digital output only. Analog resolution is continuous and limited by the process meter and not the instrument.

Certifications

CE EN50081-1, EN50082-2

Electrical₆

Supply (4-20mA) 11...32 VDC
 Supply (0-5VDC) 8...32 VDC
 Supply (0-10VDC) 13...32 VDC
 Load Resistance (mA) $< (\text{Supply} - 11V) / 0.022A$
 Load Resistance (VDC) $> 4k \text{ ohm}$

- Nominal values may be higher depending upon cable length. Internal lightning protection increases the minimum-required supply voltage from 8VDC to 11VDC, due to internal resistance of the surge protectors. In addition, cable resistance (~70Ω / 1000ft) adds to the supply requirement. In order to insure proper system operation, calculate the minimum required supply voltage (at the source) as follows:

For two-part (internal+external) system (recommended):
 MINIMUM SUPPLY VOLTAGE = $11.6 + 0.022 (\text{CABLE LENGTH} \times 0.07) \text{ VDC}$

For internal only protector (standard with 4-20mA output):
 MINIMUM SUPPLY VOLTAGE = $11 + 0.022 (\text{CABLE LENGTH} \times 0.07) \text{ VDC}$

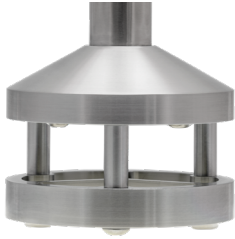
Environmental

Protection Rating IP68
 Operating Temp. -10...60° C
 Compensated Temp. 0...50° C
 Wetted Materials 316 L Stainless Steel
 Titanium Optional (Transmitter Only)
 Kynar
 Cable & Sealing PE & EPDM for water / wastewater
 Hytel & Viton for hydrocarbons
 Tefzel & Viton or EPDM as required for chemical interaction



KELLER

Optional Accessories



Protective Spacer
(316L SS Only)



1/2" NPT Conduit Fitting



Drying Tube Assembly



Bellows Assembly



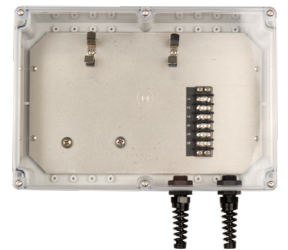
Sour Gas Trap



Stabilizing Weight



Cable Hanger



Termination Enclosure



Pressure Test Adapter



Interface Converter

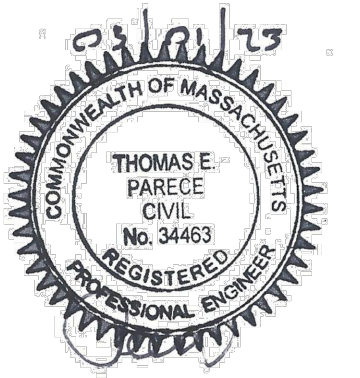


Process Meter



Signal Line Surge Protector

REGISTRATION



ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	03/01/23	ISSUE FOR BID

PROJECT NUMBER

60652634

Designed By:	M. DONOGHUE
Drawn By:	S. GREBENNIKOV
Dept Check:	T. PARECE
Proj Check:	T. HARRISON
Date:	OCTOBER 2022
Scale:	AS NOTED

DISCIPLINE

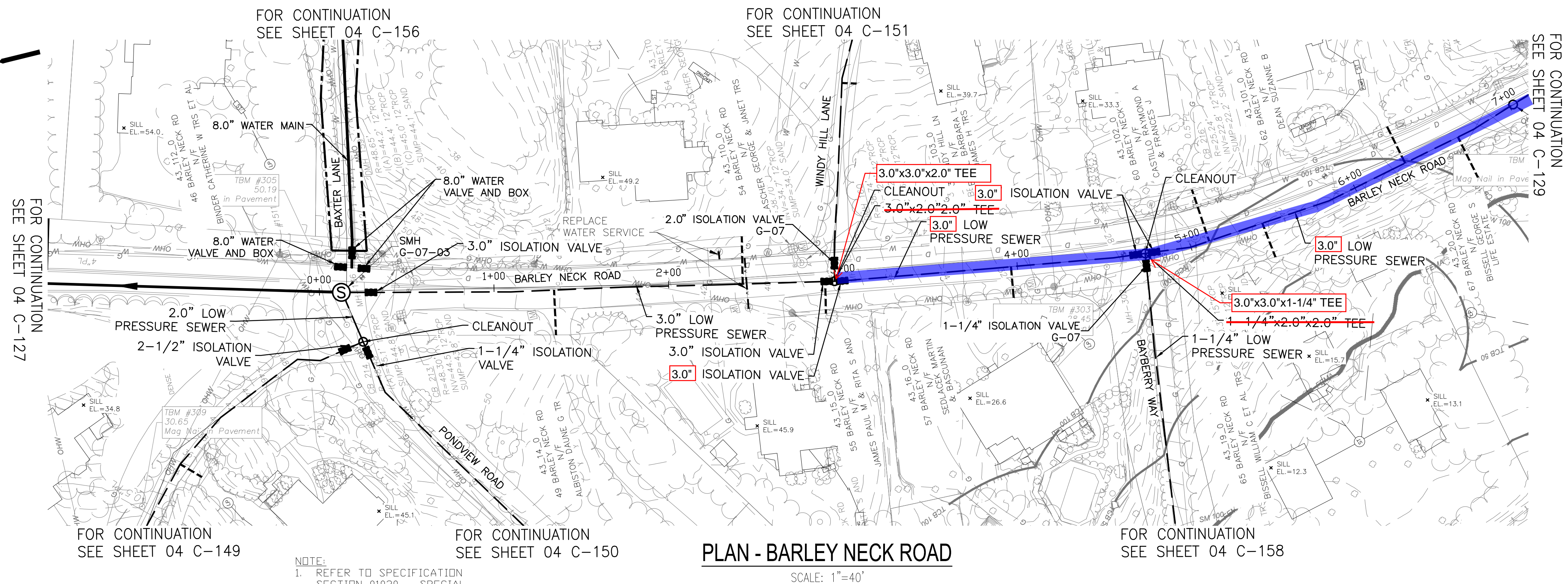
CIVIL

SHEET TITLE

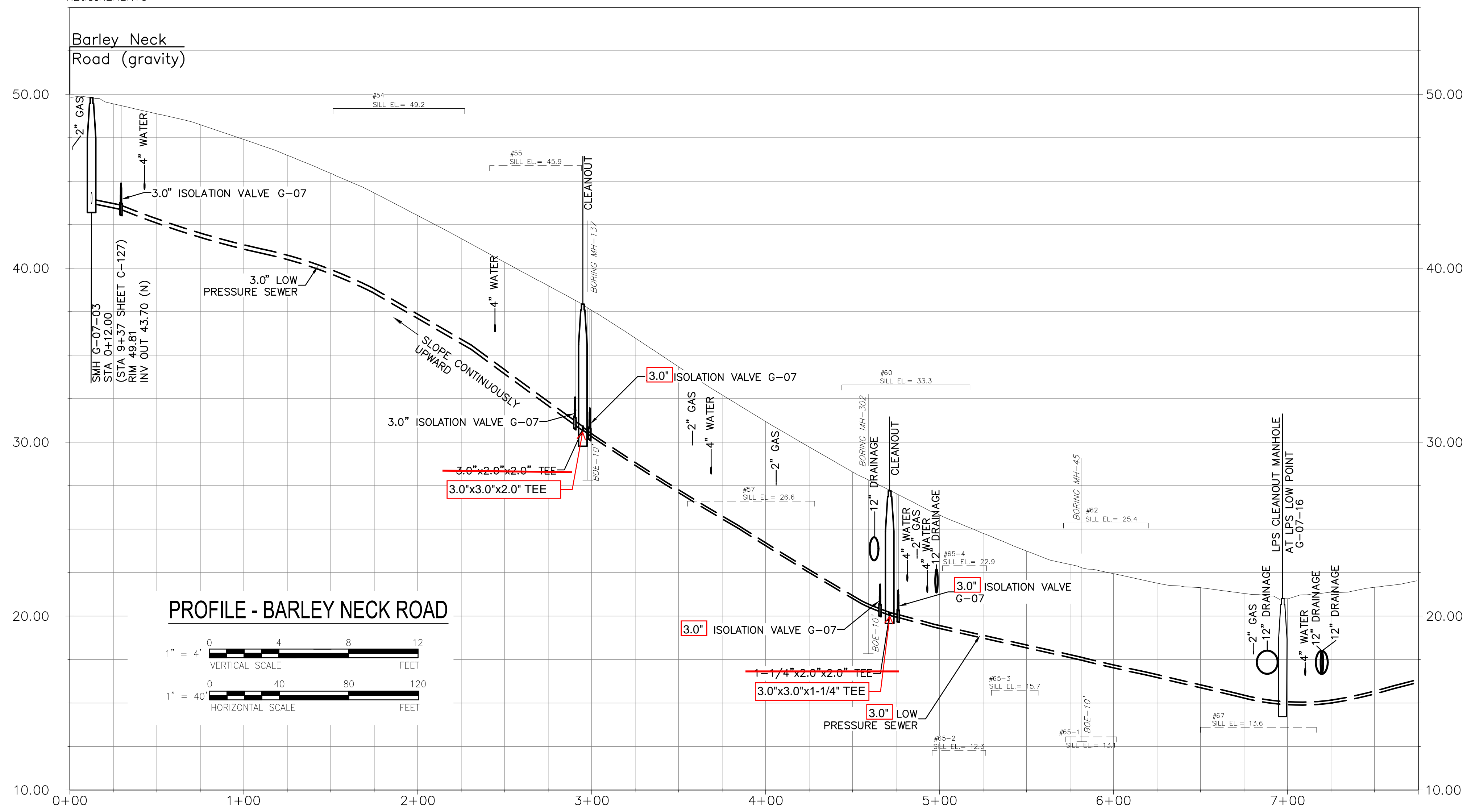
PLAN AND PROFILE SEWER
BARLEY NECK ROAD

SHEET NUMBER

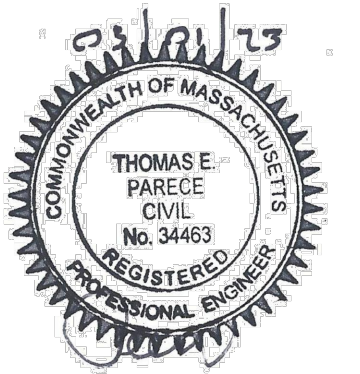
04 C-128



NOTE:
1. REFER TO SPECIFICATION SECTION 01030 - SPECIAL REQUIREMENTS



REGISTRATION



ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	03/01/23	ISSUE FOR BID

PROJECT NUMBER

60652634

Designed By:	M. DONOGHUE
Drawn By:	S. GREBENNIKOV
Dept Check:	T. PARECE
Proj Check:	T. HARRISON
Date:	OCTOBER 2022
Scale:	AS NOTED

DISCIPLINE

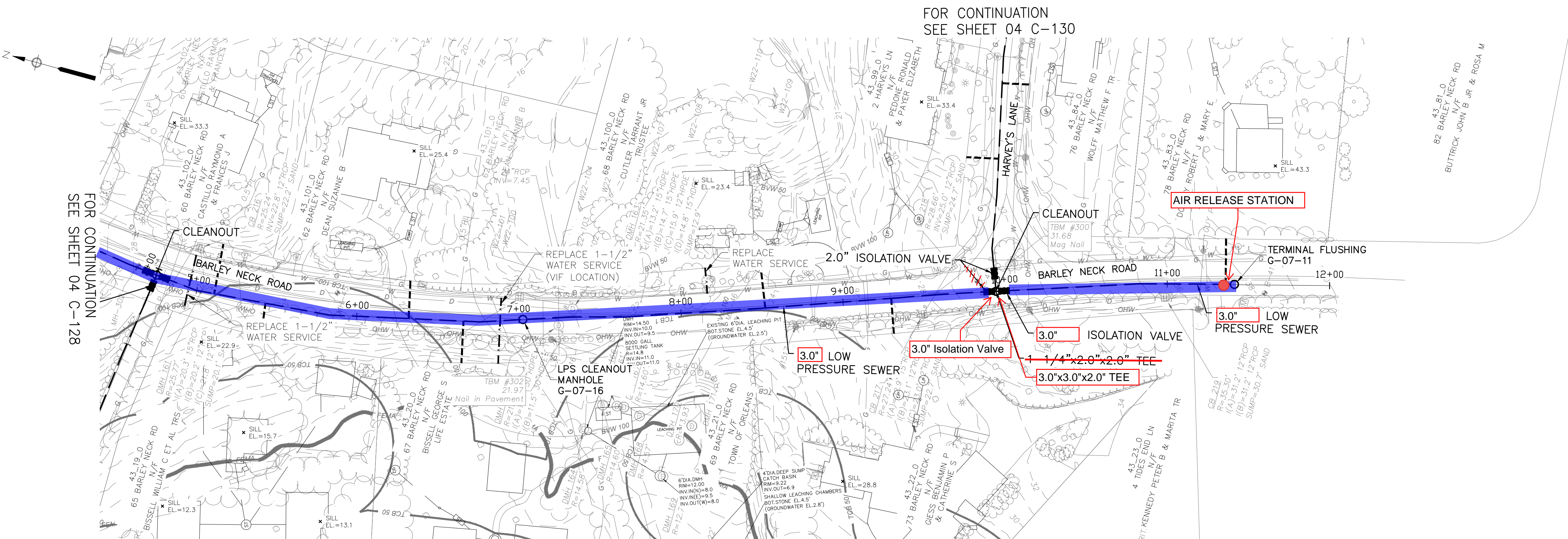
CIVIL

SHEET TITLE

**PLAN AND PROFILE SEWER
BARLEY NECK ROAD**

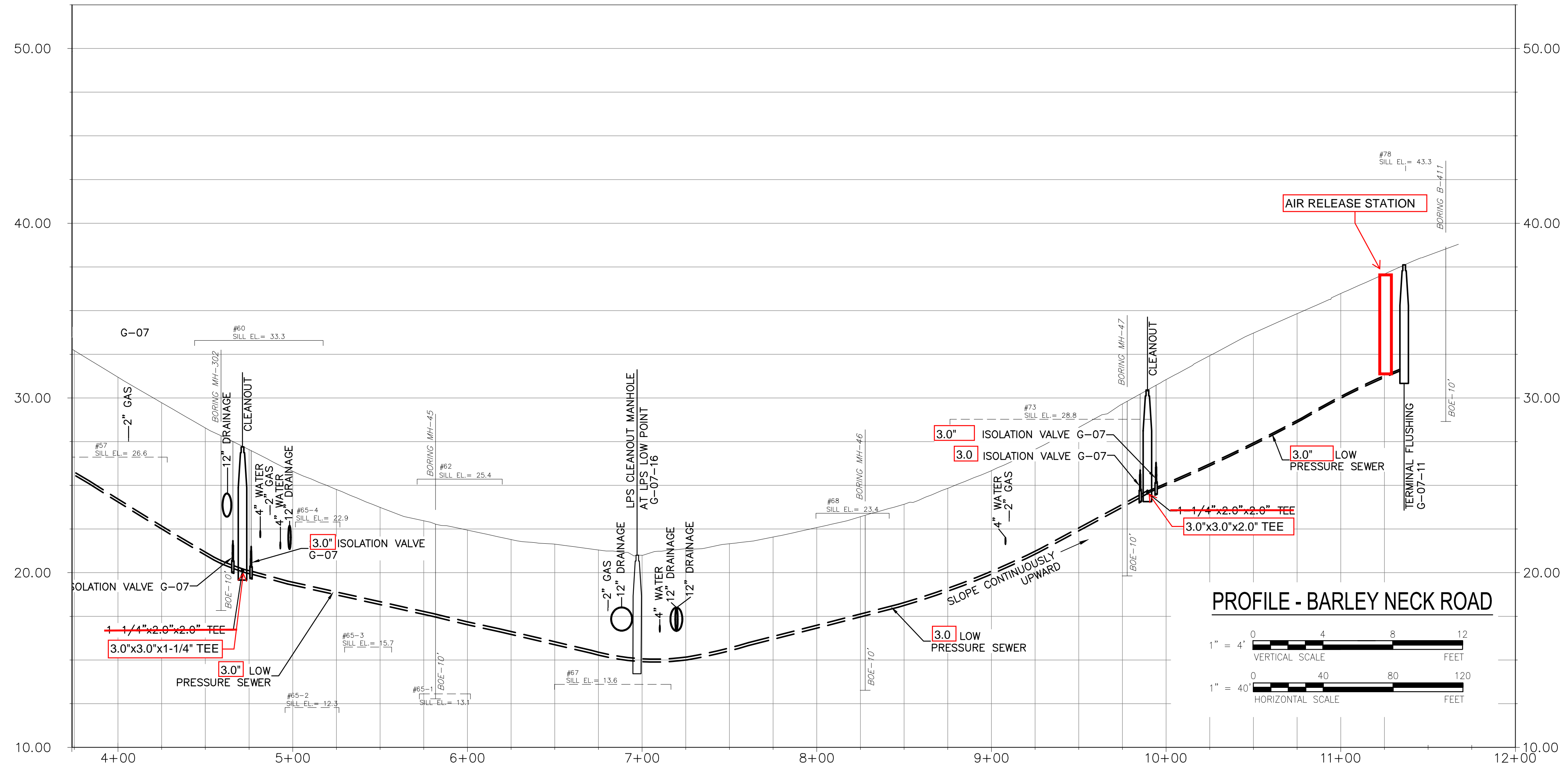
SHEET NUMBER

04 C-129

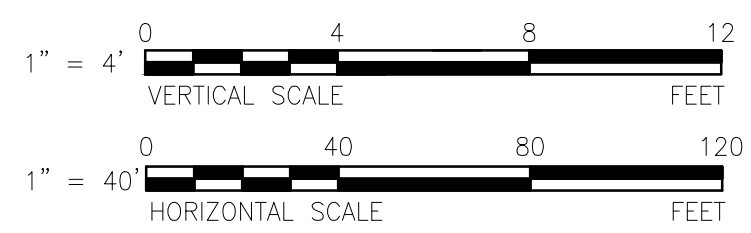


PLAN - BARLEY NECK ROAD
SCALE: 1"=40'

NOTE:
1. REFER TO SPECIFICATION
SECTION 01030 - SPECIAL
REQUIREMENTS



PROFILE - BARLEY NECK ROAD



I/R	DATE	DESCRIPTION
1	4-04-2023	ADDENDUM NO. 2

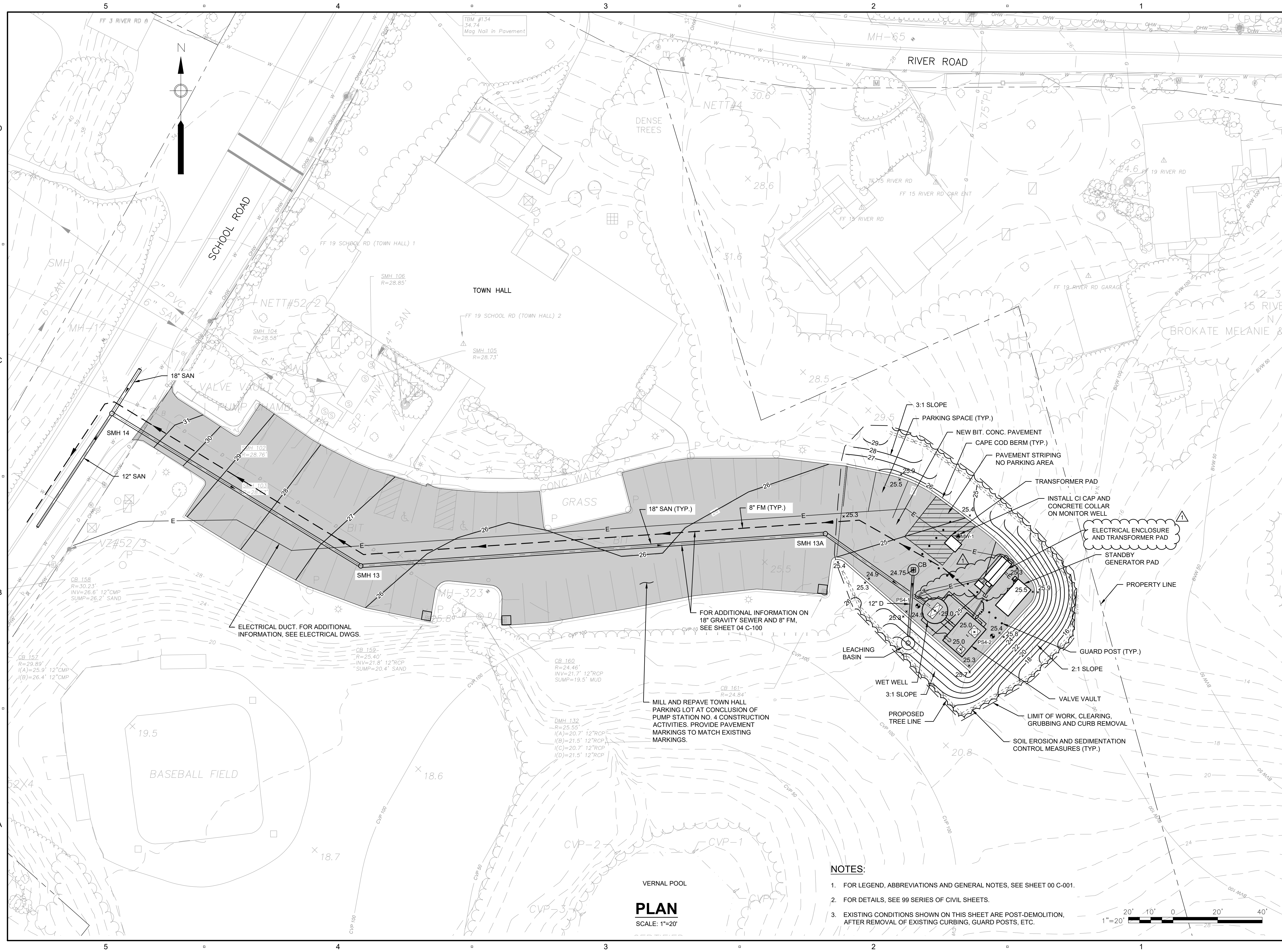
60652634

Designed By:	M. DONOGHUE
Drawn By:	S. NAPOLITANO
Dept Check:	C. BENZIGER
Proj Check:	T. PARECE
Date:	OCTOBER 2022
Scale:	AS NOTED

CIVIL

**SITE PLAN - PUMPING
 STATION NO. 4**

04 C-402



- NOTES:**
- FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, SEE SHEET 00 C-001.
 - FOR DETAILS, SEE 99 SERIES OF CIVIL SHEETS.
 - EXISTING CONDITIONS SHOWN ON THIS SHEET ARE POST-DEMOLITION, AFTER REMOVAL OF EXISTING CURBING, GUARD POSTS, ETC.

PLAN
 SCALE: 1"=20'

PATH: C:\USERS\THIBDIA\AECOM\DIRECTOR\16062634_ORLEANS\MEETINGHOUSE\900_CAD_GIS\910_CAD\2023\SHEET\04 C-402.DWG
 LAST UPDATE: Thursday, September 29, 2022 2:16:46 PM
 PLOT DATE: Tuesday, April 4, 2023 4:09:25 PM

I/R	DATE	DESCRIPTION
1	4-04-2023	ADDENDUM NO. 2

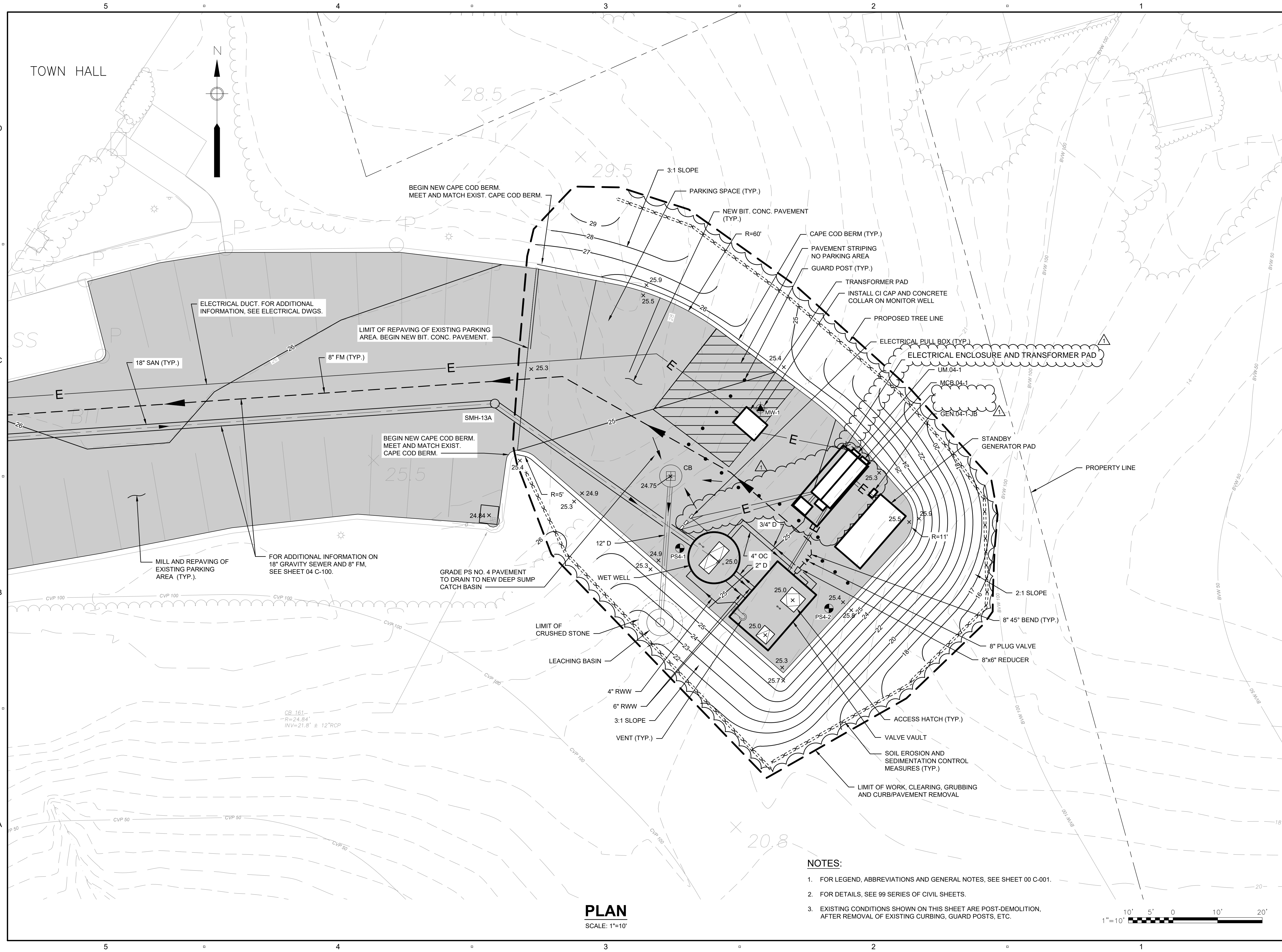
60652634

Designed By:	M. DONOGHUE
Drawn By:	S. NAPOLITANO
Dept Check:	C. BENZIGER
Proj Check:	T. PARECE
Date:	OCTOBER 2022
Scale:	AS NOTED

CIVIL

ENLARGED PLAN -
PUMPING STATION NO. 4

04 C-403



- NOTES:**
- FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, SEE SHEET 00 C-001.
 - FOR DETAILS, SEE 99 SERIES OF CIVIL SHEETS.
 - EXISTING CONDITIONS SHOWN ON THIS SHEET ARE POST-DEMOLITION, AFTER REMOVAL OF EXISTING CURBING, GUARD POSTS, ETC.



PLAN
 SCALE: 1"=10'

PATH: \\AECOM\PROJECTS\2022\04 C-403\04 C-403.DWG
 LAST UPDATE: Thursday, September 29, 2022 2:26:43 PM
 PLOT DATE: Tuesday, April 4, 2023 3:59:40 PM

CONDUIT AND WIRE SCHEDULE

MEDIUM VOLTAGE POWER WIRING

[MV-1] 5"C, CABLE PROVIDED AND INSTALLED BY ELECTRICAL UTILITY.

LOW VOLTAGE POWER WIRING

- [PA] 1"C, 2-12 AWG, 1-12 AWG (G)
[PA-4] 1"C, 4-12 AWG, 1-12 AWG (G)
[PA-6] 1"C, 6-12 AWG, 1-12 AWG (G)
[PB] 1"C, 3-12 AWG, 1-12 AWG (G)
[PC] 1"C, 3-10 AWG, 1-10 AWG (G)
[PC-2] 1"C, 2-10 AWG, 1-10 AWG (G)
[PD] 1"C, 3-8 AWG, 1-10 AWG (G)
[PD-1] 1"C, 3-8 AWG, 1-10 AWG (G)
[PD-2] 1"C, 2-8 AWG, 1-10 AWG (G)
[PD-4] 1"C, 4-8 AWG, 1-10 AWG (G)
[PE] 1"C, 3-6 AWG, 1-10 AWG (G)
[PE-2] 1"C, 2-6 AWG, 1-10 AWG (G)
[PE-4] 1"C, 4-6 AWG, 1-10 AWG (G)
[PF] 1"C, 3-4 AWG, 1-10 AWG (G)
[PF-4] 1 1/2"C, 4-4 AWG, 1-10 AWG (G)
[PG] 1"C, 3-4 AWG, 1-8 AWG (G)
[PG-4] 1"C, 4-4 AWG, 1-8 AWG (G)
[PH] 1 1/4"C, 3-2 AWG, 1-8 AWG (G)
[PH-4] 1 1/2"C, 4-2 AWG, 1-8 AWG (G)
[PJ] 1 1/2"C, 3-1 AWG, 1-8 AWG (G)
[PJ-4] 1 1/2"C, 4-1 AWG, 1-8 AWG (G)
[PK] 1 1/2"C, 3-1 AWG, 1-6 AWG (G)
[PK-4] 1 1/2"C, 4-1 AWG, 1-6 AWG (G)
[PL] 1 1/2"C, 3-1/0 AWG, 1-6 AWG (G)
[PL-4] 1 1/2"C, 4-1/0 AWG, 1-6 AWG (G)
[PM] 1 1/2"C, 3-2/0 AWG, 1-6 AWG (G)
[PM-4] 2"C, 4-2/0 AWG, 1-6 AWG (G)
[PN] 2"C, 3-3/0 AWG, 1-6 AWG (G)
[PN-4] 2"C, 4-3/0 AWG, 1-6 AWG (G)
[PP] 2"C, 3-4/0 AWG, 1-4 AWG (G)
[PP] 2"C, 3-4/0 AWG, 1-4 AWG (G)
[PO] 2 1/2"C, 3-250 KCM, 1-4 AWG (G)
[PR] 3"C, 3-350 KCM, 1-4 AWG(G)
[PS] 3"C, 3-350 KCM, 1-2 AWG(G)
[PT] 3"C, 3-500 KCM, 1-2 AWG(G)

SIGNAL WIRING

- [D2] 3/4"C, 2-14 AWG, 1-14 AWG (G)
[D3] 3/4"C, 3-14 AWG, 1-14 AWG (G)
[D4] 3/4"C, 4-14 AWG, 1-14 AWG (G)
[D5] 3/4"C, 5-14 AWG, 1-14 AWG (G)
[D6] 3/4"C, 6-14 AWG, 1-14 AWG (G)
[D7] 3/4"C, 7-14 AWG, 1-14 AWG (G)
[D8] 3/4"C, 8-14 AWG, 1-14 AWG (G)
[D9] 3/4"C, 9-14 AWG, 1-14 AWG (G)
[D10] 3/4"C, 10-14 AWG, 1-14 AWG (G)
[D11] 1"C, 11-14 AWG, 1-14 AWG (G)
[D12] 1"C, 12-14 AWG, 1-14 AWG (G)
[D13] 1"C, 13-14 AWG, 1-14 AWG (G)
[D14] 1"C, 14-14 AWG, 1-14 AWG (G)
[D15] 1"C, 15-14 AWG, 1-14 AWG (G)
[D16] 1"C, 16-14 AWG, 1-14 AWG (G)
[D17] 1"C, 17-14 AWG, 1-14 AWG (G)
[D18] 1"C, 18-14 AWG, 1-14 AWG (G)
[D19] 1"C, 19-14 AWG, 1-14 AWG (G)
[D20] 1"C, 20-14 AWG, 1-14 AWG (G)
[D28] 1"C, 28-14 AWG, 1-14 AWG (G)
[D30] 1"C, 30-14 AWG, 1-14 AWG (G)
[D34] 1 1/2"C, 34-14 AWG, 1-14 AWG (G)
[D40] 1 1/2"C, 40-14 AWG, 1-14 AWG (G)

CONTROL WIRING

- [VSC] 1"C, VENDOR SUPPLIED CABLE
[CX] 1" C, COAXIAL CABLE
[E1] 1"C, 1-CAT 6 CABLE
[E2] 1"C, 2-CAT 6 CABLES
[F01] 1"C, 1-FIBER OPTIC MEDIA CABLE
[F02] 1"C, 2-FIBER OPTIC MEDIA CABLES
[C1] 1"C, 1-TSP 16 AWG
[C2] 1"C, 2-TSP 16 AWG
[C3] 1"C, 3-TSP 16 AWG
[C4] 1 1/2"C, 4-TSP 16 AWG
[C5] 1 1/2"C, 5-TSP 16 AWG

GROUND WIRING:

NOTE: ALL G SERIES WIRING SHALL BE CONNECTED TO GROUNDING BUS BAR LOCATED IN THE ELECTRICAL ROOM UNLESS OTHERWISE INDICATED. INSTALL IN PVC CONDUIT.

- [G1] 1"C, 1-12 AWG (G)
[G2] 1"C, 1-10 AWG (G)
[G3] 1"C, 1-8 AWG (G)
[G4] 1C, 1-6 AWG (G)
[G5] 1"C, 1-4 AWG (G)
[G6] 1"C, 1-2 AWG (G)
[G7] 1"C, 1-1/0 AWG (G)
[G8] 1"C, 1-2/0 AWG (G)
[G9] 1 1/2"C, 1-3/0 AWG (G)
[G10] 1 1/2"C, 1-4/0 AWG (G)
[G11] 1 1/2"C, 1-250 KCM (G)
[G12] 2"C, 1-350 KCM (G)
[G13] 2"C, 1-500 KCM (G)

CONDUIT AND WIRE SCHEDULE NOTES:

- 1. FOR CIRCUITS RUN IN DUCT BANKS, THE DUCT SIZE INDICATED ON THE DUCT BANK SCHEDULE GOVERNS THE CONDUIT SIZE IN THE DUCT BANK. CONDUIT SIZES SHOWN HERE GOVERNS CONDUIT SIZE WHEN NOT RUN IN DUCT BANK.

TABLE OF RESPONSIBILITY - ELECTRICAL, GENERAL, AND SYSTEM INTEGRATOR

Table with 4 columns: ELEMENT, GENERAL CONTRACTOR, SYSTEM INTEGRATOR, ELECTRICAL CONTRACTOR. Rows 1-7 detailing responsibilities for instruments, hardware, and wiring.

EQUIPMENT GROUNDING SCHEDULE

Table with 4 columns: EQUIPMENT, GROUNDING CONDUIT AND WIRE, QTY., NOTES. Lists grounding requirements for various equipment like transformers, generators, and panels.



PROJECT

MEETINGHOUSE POND AREA COLLECTION SYSTEM AND PUMPING STATION CONTRACT No. 2022-01 SRF No. 7150

OWNER

TOWN OF ORLEANS, MA 19 SCHOOL ROAD ORLEANS, MA 02653 (508) 240-3700

ENGINEER

AECOM TECHNICAL SERVICES, INC. 9 JONATHAN BOURNE DRIVE POCASSET, MA 02559 PHONE: (978) 905-2100 www.aecom.com

REGISTRATION



ISSUE/REVISION

Table with 3 columns: I/R, DATE, DESCRIPTION. Shows revision 2 dated 4-03-2023 for ADDENDUM NO.2 and revision 1 dated 3-01-2023 for ISSUE FOR BID.

PROJECT NUMBER

60652634

Designed By: A. ABRAHAM
Drawn By: A. ABRAHAM
Dept Check: Y. RIZK
Proj Check: T. PARECE
Date: MARCH 2023
Scale: -

DISCIPLINE

ELECTRICAL SHEET TITLE

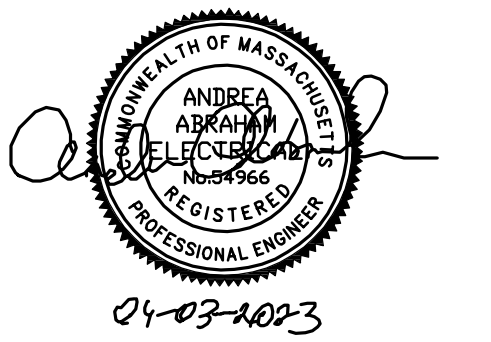
ELECTRICAL SCHEDULES II

SHEET NUMBER

00 E-602

PATH: I:\AECOM\NET\COM\FILES\AMER\CH\MS\FORD\USCH\1\DCS\PROJECTS\WYTR\60652634_ORLEANS\MEETINGHOUSE\SRF\900_CAD_G18\910_CAD\20-SHEETS\E-602.DWG
LAST UPDATE: Tuesday, April 04, 2023 12:40:10 PM
PLOT DATE: Tuesday, April 04, 2023 12:40:16 PM

REGISTRATION



ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	4-03-2023	ADDENDUM NO.2
1	3-01-2023	ISSUE FOR BID

PROJECT NUMBER

60652634

Designed By:	A. ABRAHAM
Drawn By:	A. ABRAHAM
Dept Check:	Y. RIZK
Proj Check:	T. PARECE
Date:	MARCH 2023
Scale:	-

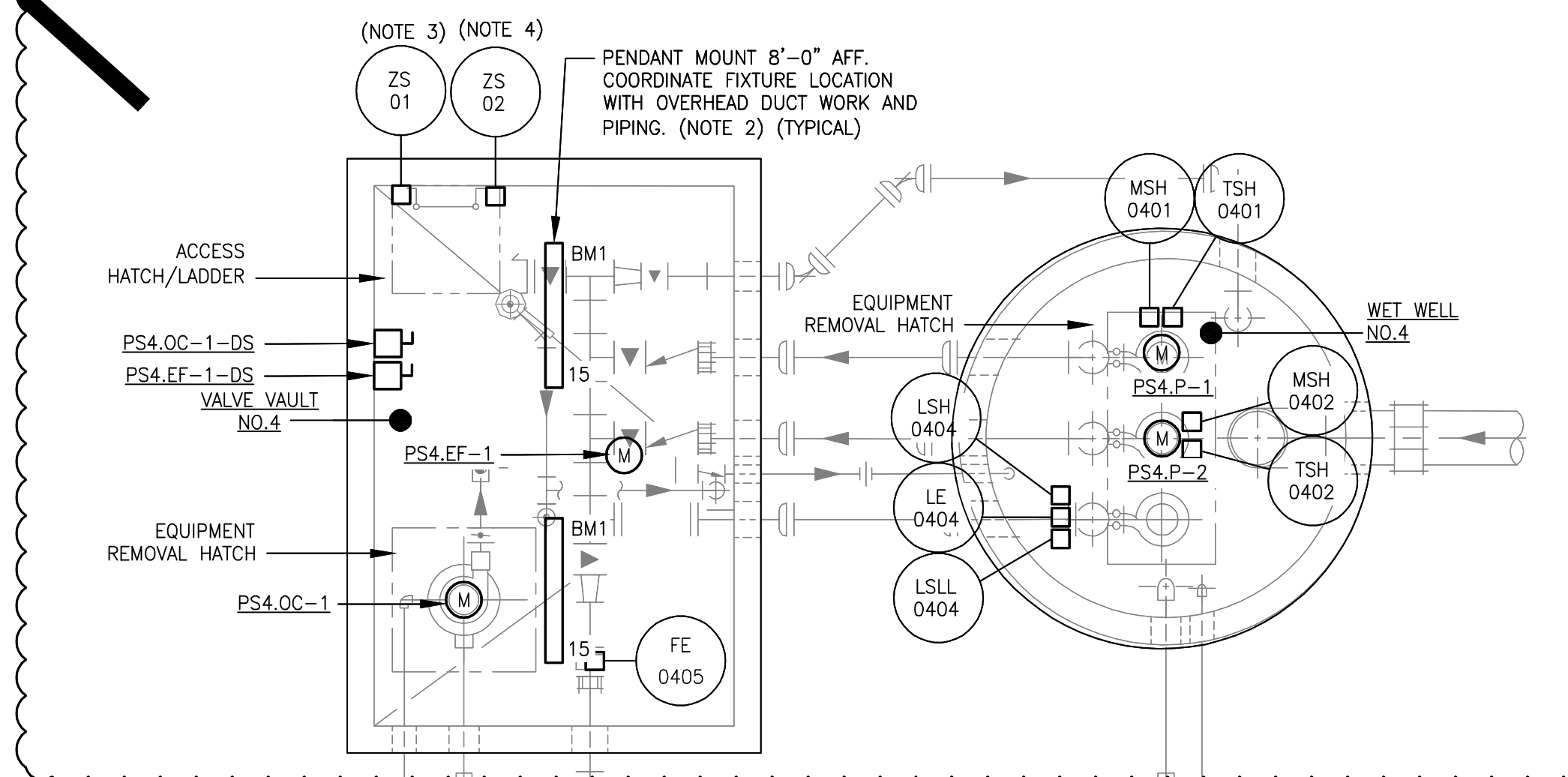
DISCIPLINE
ELECTRICAL
SHEET TITLE

PUMP STATION NO.4 -
ELECTRICAL POWER
PLAN
SHEET NUMBER

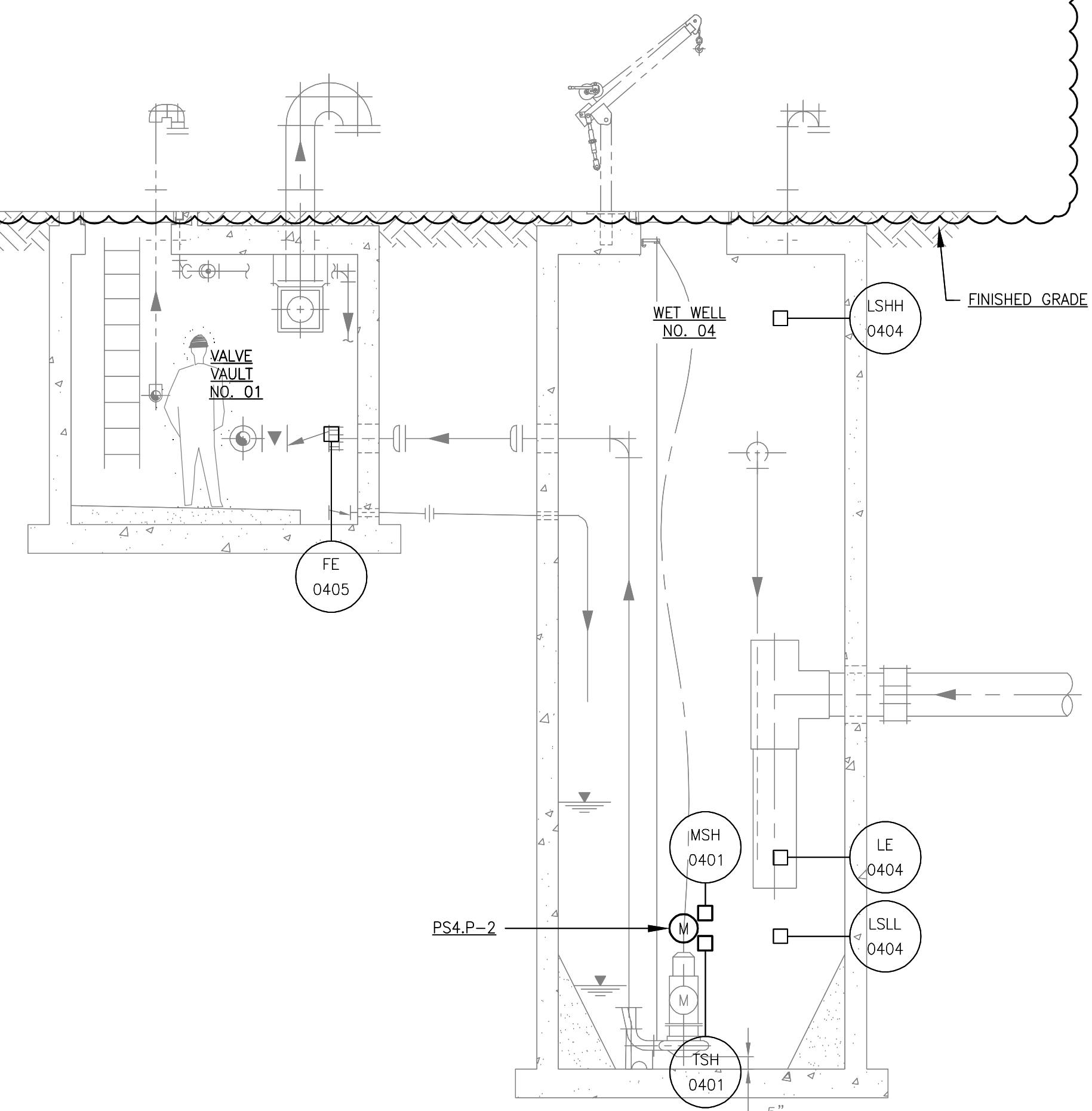
04 E-101

NOTES:

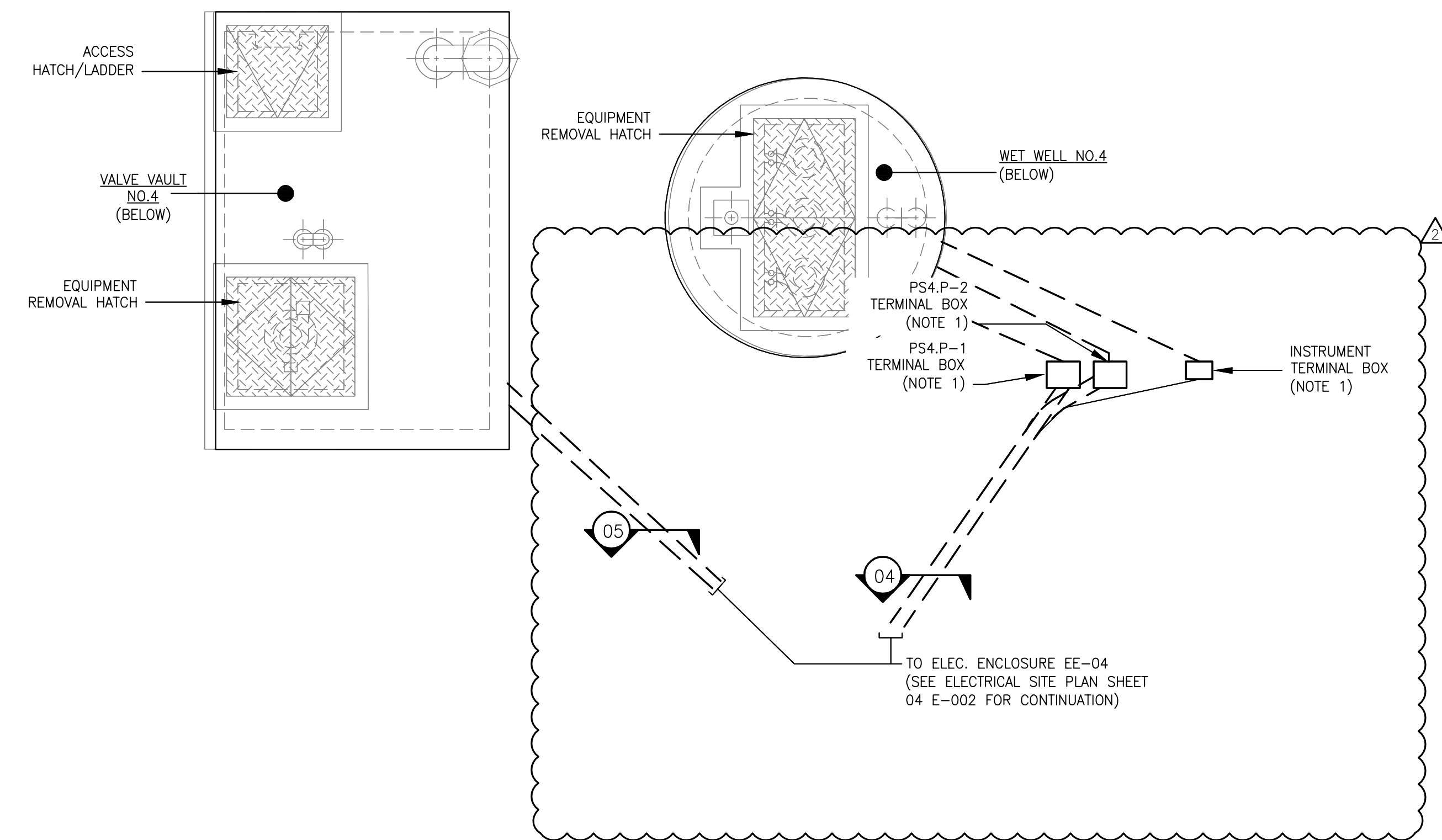
1. LOCATE EQUIPMENT OUTSIDE OF XP CLASSIFIED BOUNDARY IN ACCORDANCE WITH NFPA 820 AND AREA CLASSIFICATION SCHEDULE PER SHEET 00 E-601. LOCATE BELOW GRADE.
2. PROVIDE CLASS 1, DIVISION 2 LUMINAIRE, THE LUMINAIRE INDICATED IS A SOLAR RAY LIGHTING; THE FLYER SERIES HAZLOC MODEL NUMBER HJHL42-040-40-U-120-HJPP PROVIDE THIS LUMINAIRE OR EQUAL.
3. HATCH ACCESS LIMIT SWITCH ZS-01 TO BE INTERLOCKED WITH EXHAUST FAN PS4.EF-1 MOTOR STARTER CONTROL CIRCUIT. SEE WIRING SCHEMATIC 04 E-602 FOR DETAILS.
4. HATCH ACCESS LIMIT SWITCH ZS-02 TO BE INTERLOCKED WITH VALVE VAULT LIGHTS. VALVE VAULT LIGHTS TO BE OFF WHEN HATCH IS CLOSED AND SHALL BE ON WHEN HATCH IS OPENED.



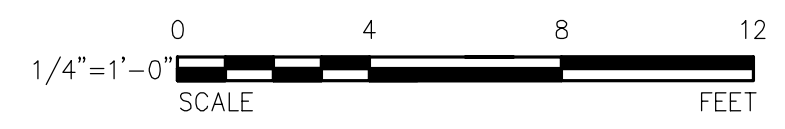
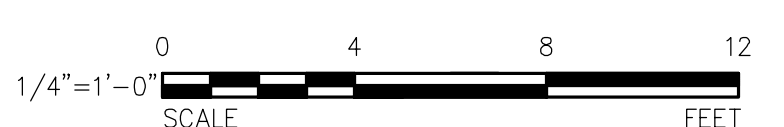
PUMP STATION NO.4 - PLAN VIEW - LOWER
 (SCALE: 1/4" = 1'-0")



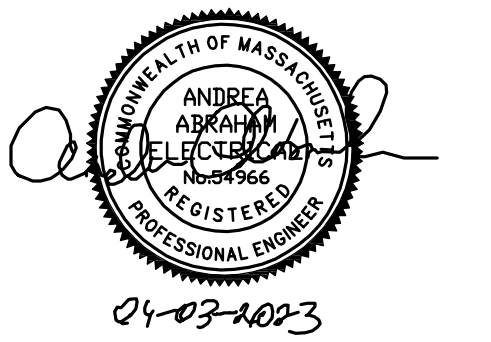
PUMP STATION NO.4 - SECTION VIEW
 (SCALE: 1/4" = 1'-0")



PUMP STATION NO.4 - PLAN VIEW - UPPER
 (SCALE: 1/4" = 1'-0")



PATH: I:\AECOM\NET\COM\FILES\AMER\CHLMS\FORD\USCHL1\DCS\PROJECTS\WTR\60652634_ORLEANSMEETINGHOUSE\SRF04 E-101.DWG
 LAST UPDATE: Tuesday, April 04, 2023 12:40:25 PM
 PLOT DATE: Tuesday, April 04, 2023 12:40:42 PM



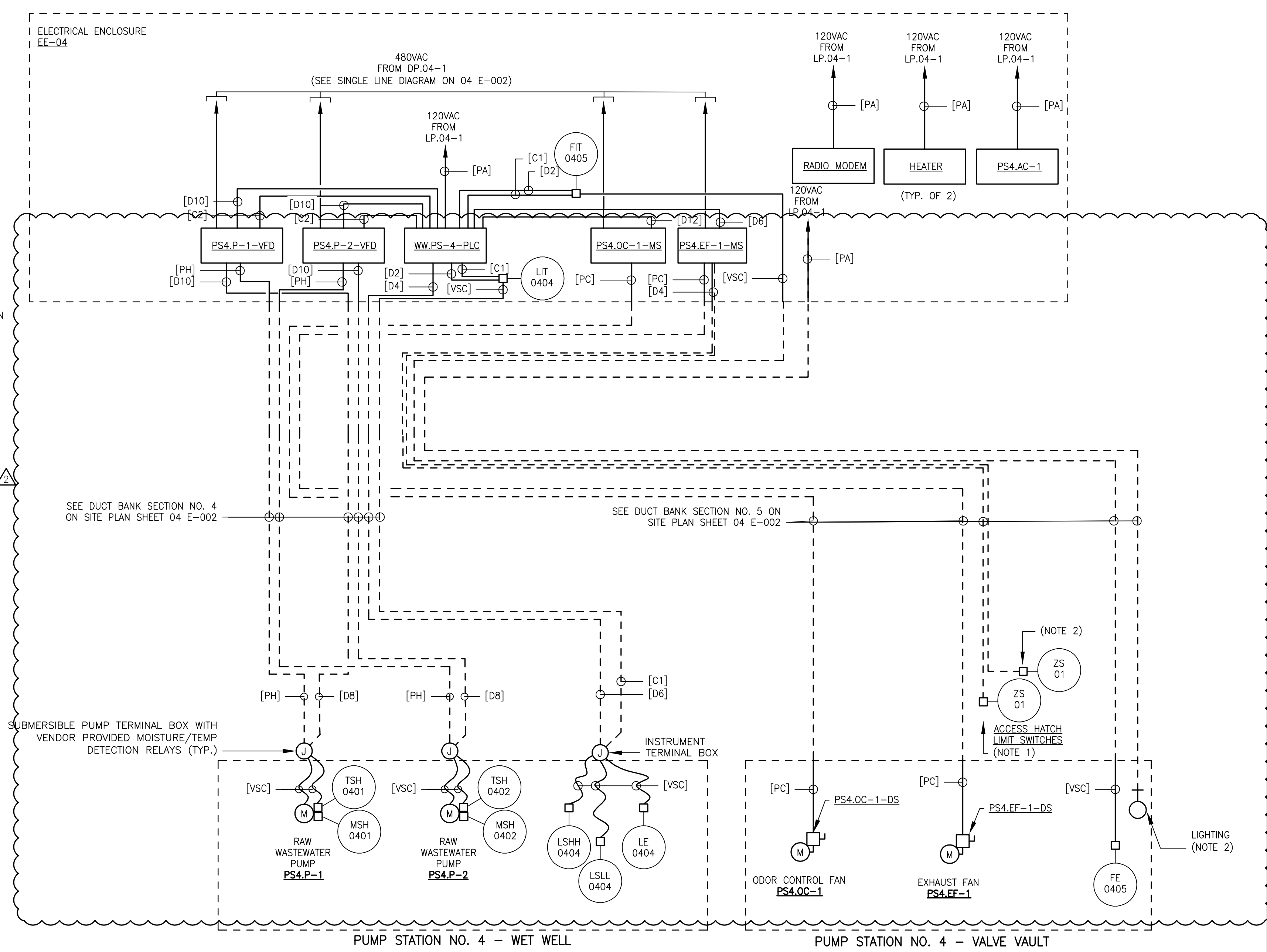
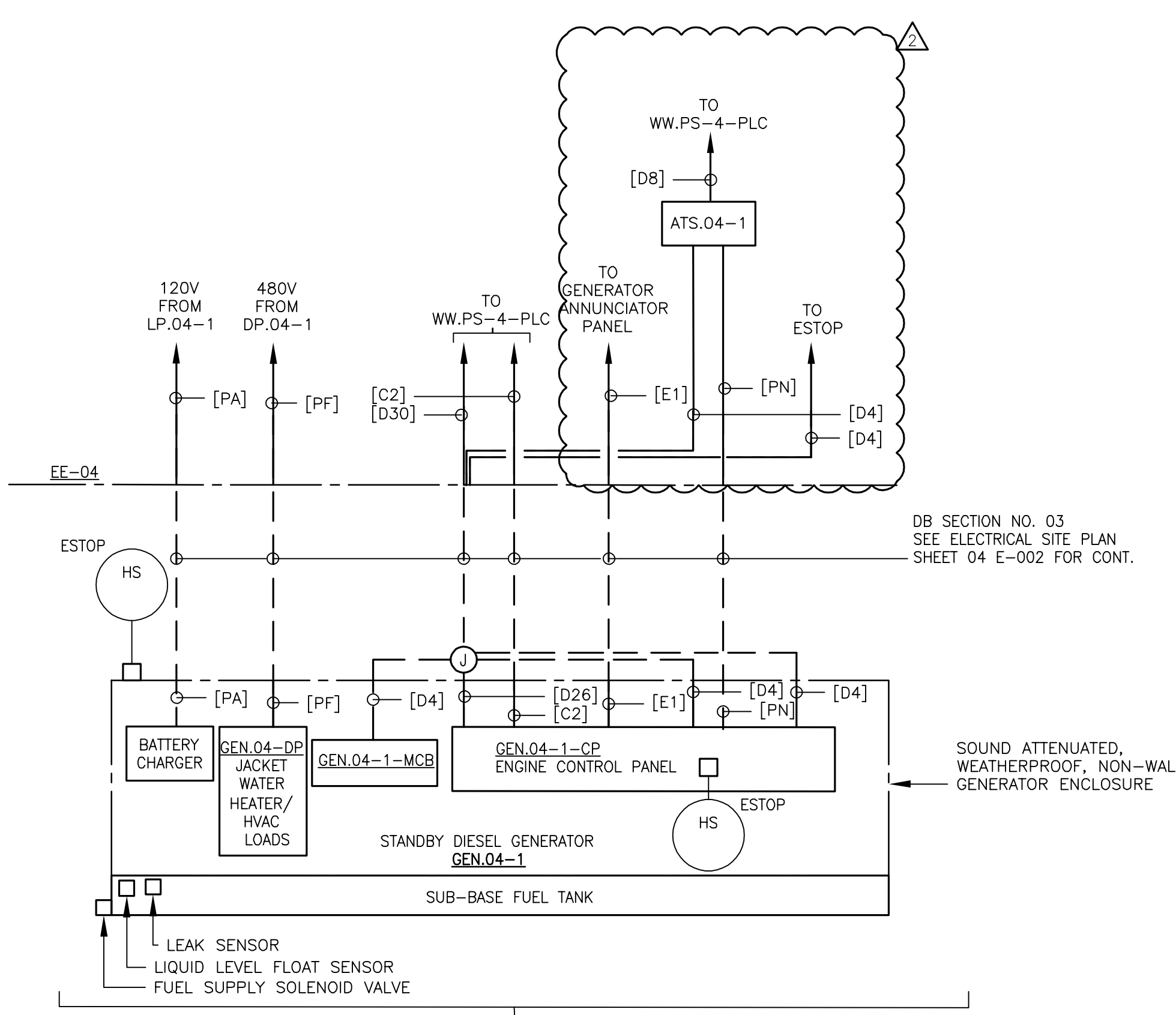
I/R	DATE	DESCRIPTION
2	4-03-2023	ADDENDUM NO.2
1	3-01-2023	ISSUE FOR BID

60652634

Designed By:	A. ABRAHAM
Drawn By:	A. ABRAHAM
Dept Check:	Y. RIZK
Proj Check:	T. PARECE
Date:	MARCH 2023
Scale:	-

NOTES

- HATCH ACCESS LIMIT SWITCH ZS-01 TO BE INTERLOCKED WITH EXHAUST FAN PS4.EF-1 MOTOR STARTER CONTROL CIRCUIT. SEE WIRING SCHEMATIC 04 E-602 FOR DETAILS.
- HATCH ACCESS LIMIT SWITCH ZS-02 TO BE INTERLOCKED WITH VALVE VAULT LIGHTS. VALVE VAULT LIGHTS TO BE OFF WHEN HATCH IS CLOSED AND SHALL BE ON WHEN HATCH IS OPENED.

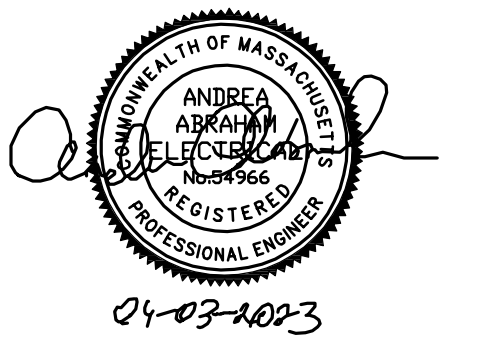


PUMP STATION NO.4 - WET WELL AND VALVE VAULT - RISER DIAGRAMS

SCALE: NTS

PATH: \\AECOM\NET\COMMON\PROJECTS\MASS\METTINGHOUSE\SRF\04_01\04 E-601.DWG
 LAST UPDATE: Tuesday, April 04, 2023 12:27:55 PM
 PLOT DATE: Tuesday, April 04, 2023 12:40:49 PM

REGISTRATION



ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	4-03-2023	ADDENDUM NO.2
1	3-01-2023	ISSUE FOR BID

PROJECT NUMBER

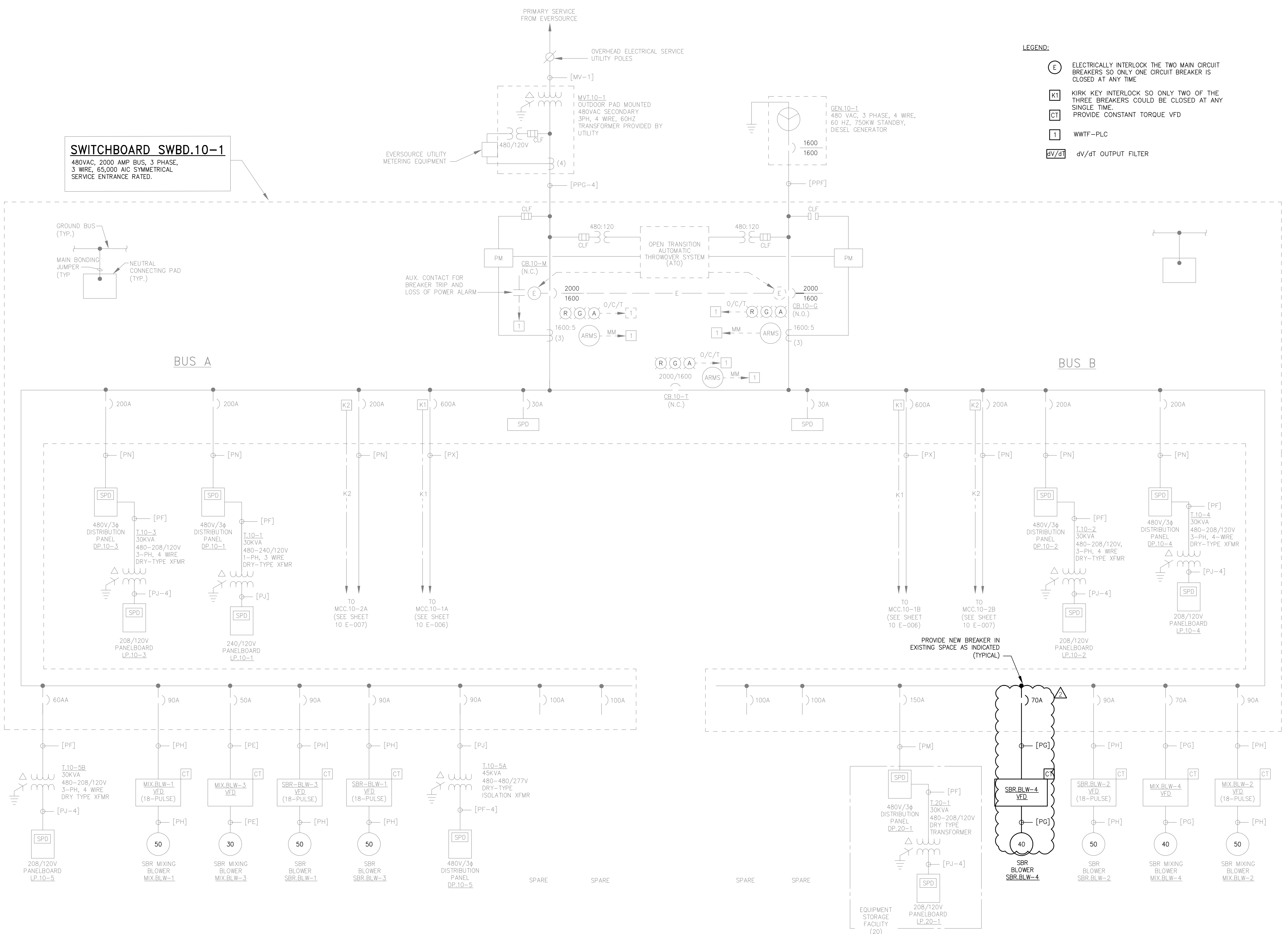
60652634

Designed By:	A. ABRAHAM
Drawn By:	A. ABRAHAM
Dept Check:	Y. RIZK
Proj Check:	T. PARECE
Date:	MARCH 2023
Scale:	-

DISCIPLINE
ELECTRICAL
SHEET TITLE

WWTF - ELECTRICAL
SINGLE LINE DIAGRAM -
MODIFICATIONS
SHEET NUMBER

10 E-001



- LEGEND:**
- E ELECTRICALLY INTERLOCK THE TWO MAIN CIRCUIT BREAKERS SO ONLY ONE CIRCUIT BREAKER IS CLOSED AT ANY TIME
 - K1 KIRK KEY INTERLOCK SO ONLY TWO OF THE THREE BREAKERS COULD BE CLOSED AT ANY SINGLE TIME
 - CT PROVIDE CONSTANT TORQUE VFD
 - 1 WWTF-PLC
 - dv/dt dv/dt OUTPUT FILTER

SWITCHBOARD SWBD.10-1
 480VAC, 2000 AMP BUS, 3 PHASE,
 3 WIRE, 65,000 AIC SYMMETRICAL
 SERVICE ENTRANCE RATED.

PATH: \\AECOM\NET\COMMON\PROJECTS\MA\ORLEANS\MEETINGHOUSE\SRF9000_CAD_G18\10_CAD\20-SHEETS\10 E-001.DWG
 LAST UPDATE: Monday, April 03, 2023 8:54:42 PM
 PLOT DATE: Tuesday, April 04, 2023 12:40:59 PM



NOT USED



PROJECT

MEETINGHOUSE POND
 AREA COLLECTION
 SYSTEM AND PUMPING
 STATION
 CONTRACT No. 2022-01
 SRF No. 7150

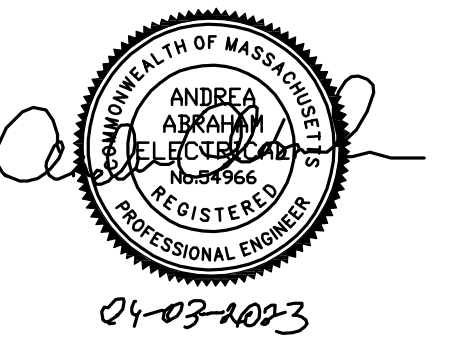
OWNER

TOWN OF ORLEANS, MA
 19 SCHOOL ROAD
 ORLEANS, MA 02653
 (508) 240-3700

ENGINEER

AECOM TECHNICAL SERVICES, INC.
 9 JONATHAN BOURNE DRIVE
 POCASSET, MA 02559
 PHONE: (978) 905-2100
 www.aecom.com

REGISTRATION



ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	4-03-2023	ADDENDUM NO.2
1	3-01-2023	ISSUE FOR BID

PROJECT NUMBER

60652634

Designed By:	A. ABRAHAM
Drawn By:	A. ABRAHAM
Dept Check:	Y. RIZK
Proj Check:	T. PARECE
Date:	MARCH 2023
Scale:	-

DISCIPLINE

ELECTRICAL
SHEET TITLE

ELECTRICAL DETAILS III

SHEET NUMBER

99 E-503

PATH: I:\AECOM\NET\COM\FILES\AMER\CH\ELMS\FORD\USCH\1\DCS\PROJECTS\WTR\60652634_ORLEANS\MEETINGHOUSE\SRF\900_CAD_G18\910_CAD\20-SHEETS\99 E-503.DWG
 LAST UPDATE: Tuesday, April 04, 2023 12:28:51 PM
 PLOT DATE: Tuesday, April 04, 2023 12:41:04 PM

PROJECT

MEETINGHOUSE POND
AREA COLLECTION
SYSTEM AND PUMPING
STATION
CONTRACT No. 2022-01
SRF No. 7150

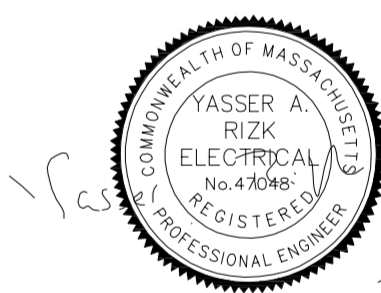
OWNER

TOWN OF ORLEANS, MA
19 SCHOOL ROAD
ORLEANS, MA 02653
(508) 240-3700

ENGINEER

AECOM TECHNICAL SERVICES, INC.
9 JONATHAN BOURNE DRIVE
POCASSET, MA 02559
PHONE: (978) 905-2100
www.aecom.com

REGISTRATION



Mar 27, 2023

ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	3-27-2023	ADDENDUM NO. 2
1	3-01-2023	ISSUE FOR BID

PROJECT NUMBER

60652634

Designed By: **A. GATES**

Drawn By: **A. GATES**

Dept Check: **Y. RIZK**

Proj Check: **T. PARECE**

Date: **MARCH 2023**

Scale: **AS NOTED**

DISCIPLINE

INSTRUMENTATION

SHEET TITLE

SYSTEM ARCHITECTURE

SHEET NUMBER

00 DI-601

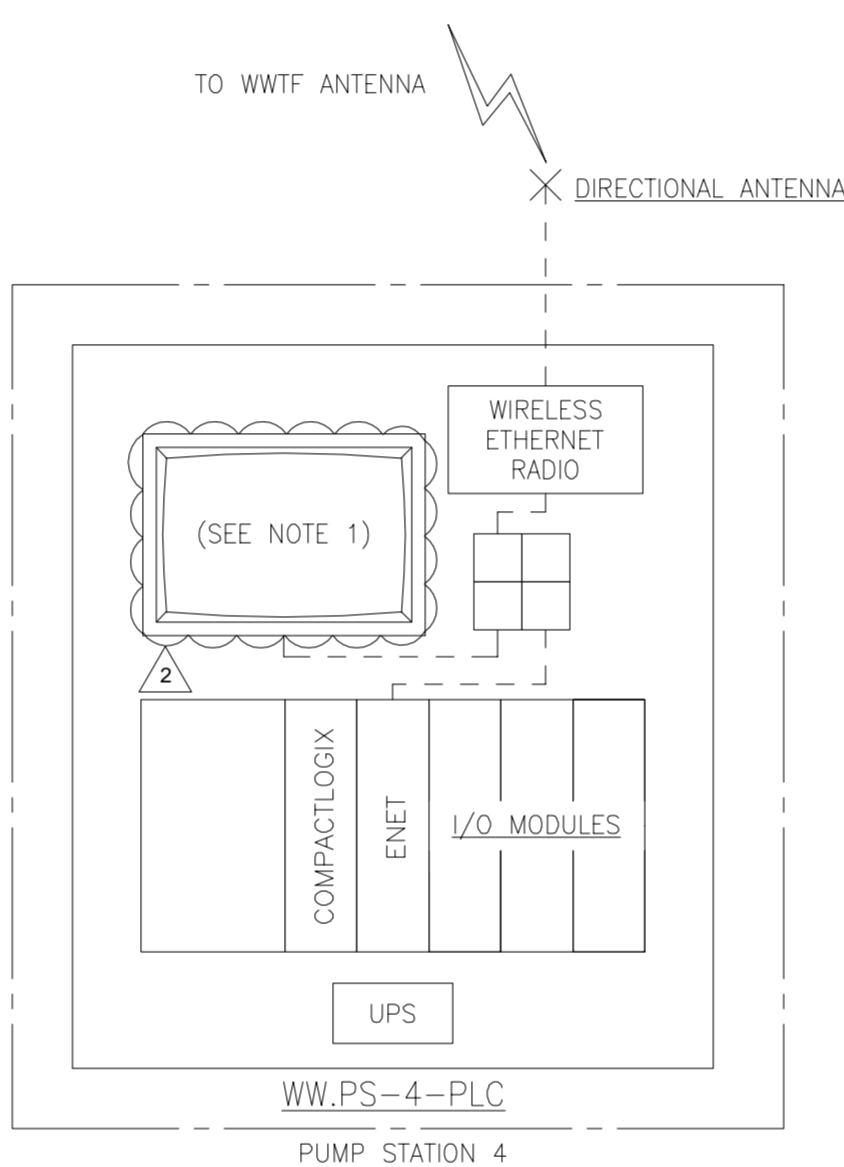


TABLE OF RESPONSIBILITY – ELECTRICAL, GENERAL, AND SYSTEM INTEGRATOR				
	ELEMENT	GENERAL CONTRACTOR	SYSTEM INTEGRATOR	ELECTRICAL CONTRACTOR
1	FURNISH, TEST AND CALIBRATE INSTRUMENTS		X	
2	INSTALL INSTRUMENTS	X		
3	INSTALL FIELD LOCATED DEVICES ASSOCIATED WITH INSTRUMENTS INCLUDING TRANSMITTERS, INDICATORS, CONTROL PANELS, AND ANCIALLARY COMPONENTS THAT ARE NOT LOCATED WITHIN PROCESS PIPING AND TANKS. LOCATIONS SHALL BE AS INDICATED ON THE ELECTRICAL DRAWINGS.	X		
4	FURNISH AND INSTALL FIELD LOCATED DEVICES SUPPLIED UNDER DIVISION 16 INCLUDING MOTOR LOCAL CONTROL STATIONS, DISCONNECTS, EMERGENCY STOP PUSHBUTTONS (ESTOPS)			X
5	FURNISH RADIO SYSTEM HARDWARE		X	
6	INSTALL RADIO SYSTEM HARDWARE			X
7	FURNISH AND INSTALL INTERCONNECTING WIRE, CABLE, CONDUIT, AND CONNECTIONS FOR INSTRUMENTS			X

LEGEND

- ETHERNET
- FIBER MEDIA
- MANAGED ETHERNET SWITCH
- UNINTERRUPTIBLE POWER SUPPLY

NOTES:

1. PROVIDE 15" COLOR TOUCHSCREEN, PANELVIEW PLUS 7 0IT.

PROJECT

MEETINGHOUSE POND
AREA COLLECTION
SYSTEM AND PUMPING
STATION
CONTRACT No. 2022-01
SRF No. 7150

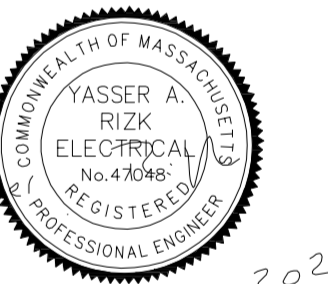
OWNER

TOWN OF ORLEANS, MA
19 SCHOOL ROAD
ORLEANS, MA 02653
(508) 240-3700

ENGINEER

AECOM TECHNICAL SERVICES, INC.
9 JONATHAN BOURNE DRIVE
POCASSET, MA 02559
PHONE: (978) 905-2100
www.aecom.com

REGISTRATION



Mar 27, 2023

ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	3-27-2023	ADDENDUM NO. 2
1	3-01-2023	ISSUE FOR BID

PROJECT NUMBER

60652634

Designed By: **A. GATES**

Drawn By: **A. GATES**

Dept Check: **Y. RIZK**

Proj Check: **T. PARECE**

Date: **MARCH 2023**

Scale: **AS NOTED**

DISCIPLINE

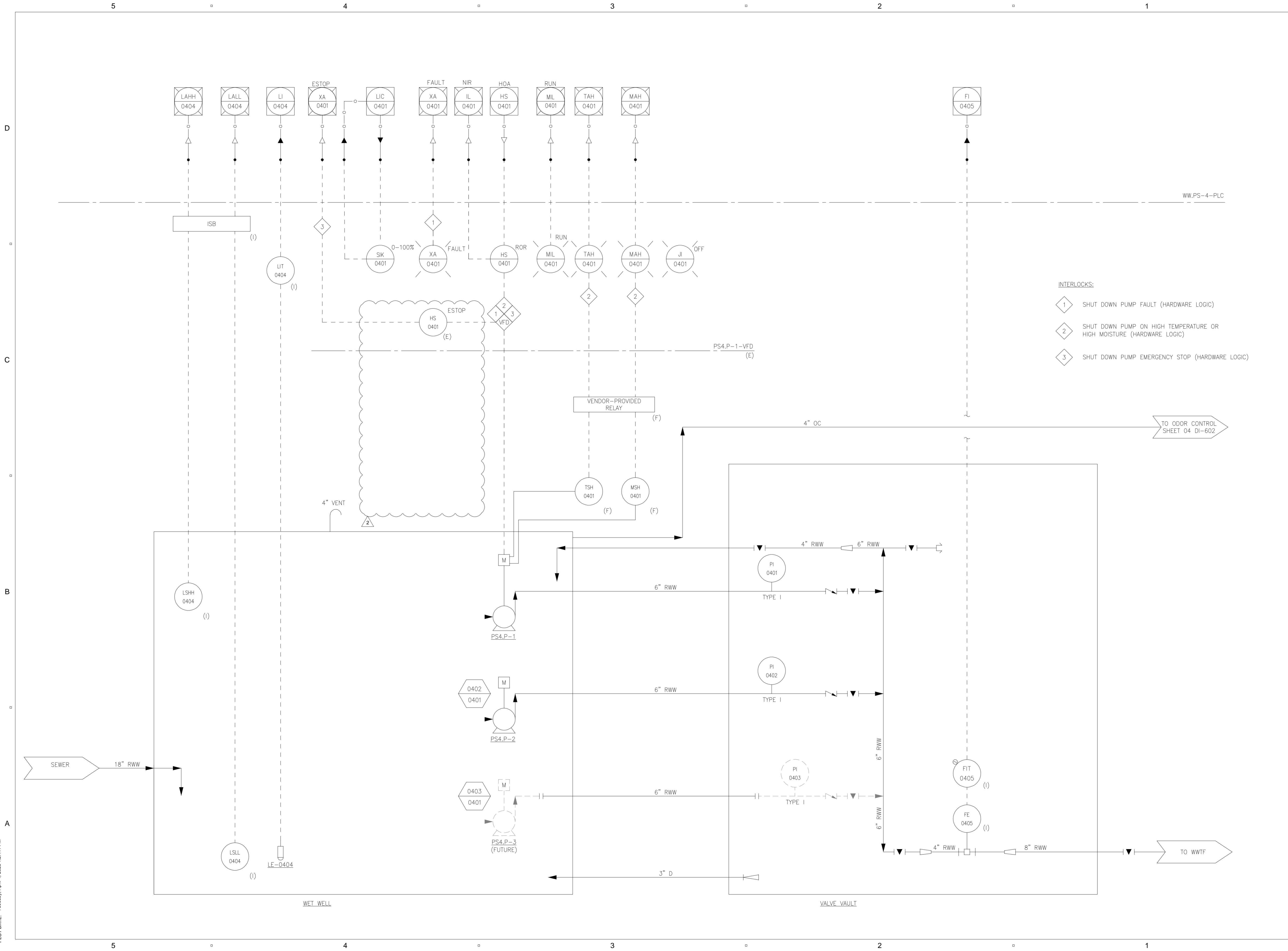
INSTRUMENTATION

SHEET TITLE

PUMP STATION 4 P&ID

SHEET NUMBER

04 DI-601



PATH: L:\DCS\PROJECTS\WTF\60652634_ORLEANSMEETINGHOUSE\PS90_CAD_GIS\10_CAD\DCS\PROJECTS\04 DI-601.DWG
 LAST UPDATE: Tuesday, March 7, 2023 5:45:58 PM
 PLOT DATE: Tuesday, April 4, 2023 1:27:41 PM

April 13, 2023

ADDENDUM NO. 3
TO
DOCUMENTS AND SPECIFICATIONS
FOR
Meetinghouse Pond Area Collection System and Pumping Station
Contract No. 2022-01 and SRF No. 7150
Town of Orleans, MA



Department of Public Works & Natural Resources

This Addendum No. 3 forms a part of the Contract Documents and modifies the Bidding Documents dated March 2023 as noted below. Acknowledge receipt of this Addendum in the space provided in SECTION 00410, FORM OF GENERAL BID. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 20 pages and 3 pages of attachments for a total of 23 pages.

ATTACHMENTS

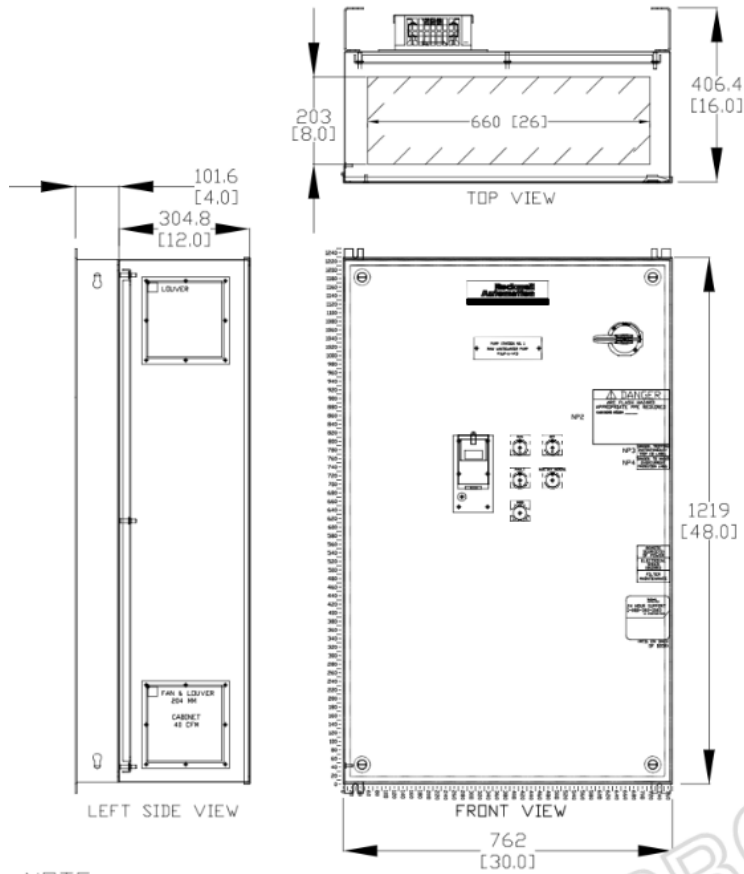
1. DRAWING 00 G-002
2. DRAWING 04 E-002
3. DRAWING 99 E-501

RESPONSE TO PLAN HOLDER QUESTIONS

Responses to these questions do not modify the bidding and contract documents.

1. Are there any portions of the project that will need to be Bored? Are the crossings to be Jack & Bored or Directionally Bored? What are the approximate lengths and diameters of the portions to be bored?
 - A. There are no portions of the project that are anticipated to be bored.
2. What is the bid bond and cost estimate for this project?
 - A. Engineer's estimate was provided as part of Addendum 2. Requirements for the bid bond are provided in Specification Section 00310.
3. There seem to be drawings listed on the Index (00 G-002) that are not included in the plan package as well as some drawings that were provided but not listed on the index. Drawings listed on the index but not included are: 10 E-102, 10 E-202, 10 E-602, and all FA drawings. Drawing 04 E-603 was provided but not listed on the index. Please advise.
 - A. Revised Index of Drawings (00 G-002) is re-issued as part of this Addendum 3.
4. Please provide the manufacturer and model of the switchboard SWBD.10-1.

- A. Requested information is included in this Addendum 3.
- 5. Please provide the dimensions of the three VFDs which will be installed within the electrical enclosure. This information is required for the contractor to properly size the free-standing electrical enclosure. The submittals for the VFDs for PS1.P-1, 2, 3 and PS2.P-1, 2 were not included within the Volume II of the specifications.
 - A. The Owner has not standardized on VFDs for this Project and the size of equipment may vary from installation to installation. The successful bidder will be required to submit on equipment in accordance with the Contract Documents and is responsible for coordination of equipment. The VFD information provided here is for information only based on equipment submitted for the Downtown Collection System and Pumping Stations Project for Pump Station 1:



- 6. Will the ATS be supplied as part of the allowance under item 23E?
 - A. No, the ATS is not included as part of the allowance under item 23E.
- 7. Will you provide the plan holders list?
 - A. Yes, this plan holders list is included in the table below:

Plan Holders Company
AECOM
Albanese D&S Inc.
AMP Electrical, Inc.
Ardent Group, Inc.
Atlantic Fluid Technology
BidPrime, Inc

CC Construction
Chapman Construction Group, Inc.
Construct Connect
Dig It Construction
Dodge Construction Network
E.J. Prescott, Inc.
Fall River Electrical Associates
Ferguson Waterworks
G&H Heating & Cooling
MassDEP, SRF
North America Procurement Council (NAPC)
Projectdog, Inc.
Revoli Construction Co., Inc.
Robert B. Our Co., Inc.
Tech Sales NE
Town of Orleans
United Concrete Products, Inc.

CHANGES TO BE MADE TO THE CONTRACT SPECIFICATIONS

1. SECTION 01030 – SPECIAL REQUIREMENTS

A. Page 01030-5, ARTICLE 1.11 – SCOPE OF WORK AND SEQUENCE OF CONSTRUCTION, Paragraph E., delete subparagraph 5.c. in its entirety and replace with the following new paragraph:

c. Water service information is summarized as follows:

	Address	Service	Date Replaced	To Be Replaced Under This Project	Notes
15	BARLEY NECK ROAD	1" IP		Yes	
25	BARLEY NECK ROAD	1" IP		Yes	
29	BARLEY NECK ROAD	1" IP		Yes	
30	BARLEY NECK ROAD	1" IP		Yes	
33	BARLEY NECK ROAD	1" CTS to CV	6/4/1985		
40	BARLEY NECK ROAD	1" CTS			
44	BARLEY NECK ROAD	1" IP		Yes	
46	BARLEY NECK ROAD	1" CTS			
54	BARLEY NECK ROAD	1" IP		Yes	
55	BARLEY NECK ROAD	1" CTS	3/22/2006		
57	BARLEY NECK ROAD	1-1/2 CTS			
60	BARLEY NECK ROAD	1" CTS	7/26/2001		
62	BARLEY NECK ROAD	1-1/2" CTS			
65	BARLEY NECK ROAD	1-1/4" IP		Yes	
67	BARLEY NECK ROAD	1-1/4" IP		Yes	1" CTS To House

	Address	Service	Date Replaced	To Be Replaced Under This Project	Notes
68	BARLEY NECK ROAD	1" IP		Yes	
73	BARLEY NECK ROAD	1" CTS			
76	BARLEY NECK ROAD	1" IP		Yes	
78	BARLEY NECK ROAD	1" CTS to CV	10/16/2002		
18	BARLEY NECK ROAD	1-1/2" CTS			
	HSE				
6	BARLEY NECK VILLAGE LANE 1	1-1/2" CTS			
8	BARLEY NECK VILLAGE LANE 2	1" CTS			
10	BARLEY NECK VILLAGE LANE 3	1" CTS			
5	BARLEY NECK VILLAGE LANE 4	1" CTS			Off of 2" CTS From Beach Road
3	BARLEY NECK VILLAGE LANE 5	1" CTS			Off of 2" CTS From Beach Road
1	BARLEY NECK VILLAGE LANE 6	1" CTS			Off of 2" CTS From Beach Road
1	BAXTER LANE	1" CTS		Yes	
3	BAXTER LANE	2" CTS		Yes	
5	BAXTER LANE	1" IP		Yes	
6	BAXTER LANE	1" IP		Yes	
7	BAXTER LANE	1" & 1-1/4" IP		Yes	
9	BAXTER LANE	1" & 1-1/4" IP		Yes	
11	BAXTER LANE	1-1/4" IP		Yes	
12	BAXTER LANE	2" CTS		Yes	
15	BAXTER LANE	1-1/2" CTS		Yes	
6	BAYBERRY WAY	2" CTS			
2	BEACH ROAD	1" CTS	12/19/2005		
5	BEACH ROAD	1" CTS to CV			
8	BEACH ROAD	1" IP		Yes	
10	BEACH ROAD	1" IP		Yes	
11	BEACH ROAD	1" IP		Yes	
16	BEACH ROAD	1" IP		Yes	
16	BEACH ROAD	1" IP		Yes	
22	BEACH ROAD	1" CTS	10/30/2017		
24	BEACH ROAD	1-1/2" CTS to CV			
26	BEACH ROAD	1" CTS to CV			
27	BEACH ROAD	1" CTS			
30	BEACH ROAD	2" CTS	10/27/2017		
33	BEACH ROAD	1" CTS			
35	BEACH ROAD	1" CTS	10/19/2017		
38	BEACH ROAD	1" CTS to CV	10/10/2017		

	Address	Service	Date Replaced	To Be Replaced Under This Project	Notes
39	BEACH ROAD	1" CTS to CV	10/19/2017		
39	BEACH ROAD				Discontinued 9/15/17
40	BEACH ROAD	1" CTS	10/20/2017		
43	BEACH ROAD	1" CTS			
24	BEACH ROAD 1	1-1/2 CTS			No Good Record
24	BEACH ROAD 2				
24	BEACH ROAD 3				
8	BEACH ROAD 4				
8	BEACH ROAD 5	1-1/2 CTS			
6	BRICK HILL ROAD	1" IP		Yes	
5	CEDAR WAY	1" IP		Yes	
6	CEDAR WAY	1" CTS	7/19/2019		
8	CEDAR WAY	2" CTS			
10	CEDAR WAY	1-1/4" IP		Yes	
12	CEDAR WAY	1" IP		Yes	
4	CHENEY ROAD	1" IP		Yes	
7	CHENEY ROAD	1" IP		Yes	
8	CHENEY ROAD	1" IP		Yes	
9	CHENEY ROAD	1" CTS	11/18/2014		
10	CHENEY ROAD	1" CTS	11/15/2016		
14	CHENEY ROAD	1" IP		Yes	
17	CHENEY ROAD	1" CTS			
21	CHENEY ROAD	1-1/4" IP		Yes	
25	CHENEY ROAD	1-1/2" CTS	8/1/2014		
27	CHENEY ROAD	1-1/2" CTS	9/28/2015		
4	COLE PLACE	1" CTS	'9/1989		
6	COLE PLACE	1-1/2" CTS	5/11/1998		
18	COLE PLACE	1" CTS	11/6/2015		
19	COLE PLACE				Off of Nauset Farms Way
20	COLE PLACE	2" IP		Yes	Feed off of Nauset Farms Way
9	DEERWOOD LANE	1" CTS			
10	DEERWOOD LANE	1" CTS			
14	DEERWOOD LANE	1" IP		Yes	CV Replaced 11-24-15
15	DEERWOOD LANE	1" IP		Yes	
16	DEERWOOD LANE	1" CTS			
20	DEERWOOD LANE	1" CTS			
21	DEERWOOD LANE	1" CTS			
23	DEERWOOD LANE	1" CTS			
24	DEERWOOD LANE	1" IP		Yes	

	Address	Service	Date Replaced	To Be Replaced Under This Project	Notes
104	FINLAY ROAD	1" CTS to CV	4/28/1992		
7	GESNER ROAD	1" CTS	8/26/2019		
8	GESNER ROAD	1" CTS	11/19/1994		
10	GESNER ROAD	1" CTS	11/8/1996		
14	GREAT OAK RD	1-1/2" CTS			
6	GREAT OAK ROAD	1" CTS	4/11/2001		
10	GREAT OAK ROAD	1" IP		Yes	
11	GREAT OAK ROAD	1" CTS	Aug-21		
14	GREAT OAK ROAD	1" IP		Yes	
21	GREAT OAK ROAD	1" CTS	2/3/2012		
22	GREAT OAK ROAD	1" IP		Yes	
24	GREAT OAK ROAD	2" IP		Yes	
26	GREAT OAK ROAD	1" CTS	3/28/2014		
30	GREAT OAK ROAD	1" IP		Yes	
31	GREAT OAK ROAD	1" IP		Yes	
34	GREAT OAK ROAD	1" CTS			
37	GREAT OAK ROAD	1" IP		Yes	
38	GREAT OAK ROAD	1" CTS			
41	GREAT OAK ROAD	1" CTS	8/7/1978	Yes	
43	GREAT OAK ROAD	1" IP		Yes	
45	GREAT OAK ROAD	1" IP		Yes	
47	GREAT OAK ROAD	1" IP		Yes	
48	GREAT OAK ROAD	1" IP		Yes	Off 2" IP Main
51	GREAT OAK ROAD	1" IP		Yes	
52	GREAT OAK ROAD	1" IP		Yes	
53	GREAT OAK ROAD	1" IP		Yes	
55	GREAT OAK ROAD	1" CTS			
59	GREAT OAK ROAD	1" CTS			
18	GREAT OAK ROAD A	2" CTS	1/23/2003		
18	GREAT OAK ROAD B	2" CTS			
11	GRIST ROAD	1" CTS	6/21/1995		
12	GRIST ROAD	1" IP		Yes	
15	GRIST ROAD	1" IP		Yes	
2	HARVEY'S LANE	1" IP		Yes	
6	HARVEY'S LANE	1" CTS	3/24/2000		
10	HARVEY'S LANE	2" CTS			
3	HIGH TIDE LANE	1" CTS			
4	HIGH TIDE LANE	1" IP		Yes	
9	HIGH TIDE LANE	1" CTS	4/21/1993		
10	HIGH TIDE LANE	1" CTS			

	Address	Service	Date Replaced	To Be Replaced Under This Project	Notes
14	HIGH TIDE LANE	1" IP		Yes	
15	HIGH TIDE LANE	1" CTS	3/5/1990		Off 2" IP Main
16	HIGH TIDE LANE	1" IP		Yes	CV Replaced 5-19-95
17	HIGH TIDE LANE	1-1/2" CTS	11/16/2001		
20	HIGH TIDE LANE	1" CTS	2/13/2012		
24	HIGH TIDE LANE	1" CTS	7/2/2002		
25	HIGH TIDE LANE	1" CTS	6/13/2022		
31	HIGH TIDE LANE	1" IP		Yes	
32	HIGH TIDE LANE	1" IP		Yes	
35	HIGH TIDE LANE	1" IP		Yes	
1	HOUSEWRIGHTS WAY	1" CTS			
17	KAREN'S WAY	1" IP		Yes	
18	KAREN'S WAY	1" IP		Yes	
21	KAREN'S WAY	1" CTS	3/27/2019		
22	KAREN'S WAY	1" IP		Yes	
25	KAREN'S WAY	1" IP		Yes	
27	KAREN'S WAY	1" IP		Yes	
31	KAREN'S WAY	1" CTS Poly		Yes	
3	LAKE FARM LANE	1" CTS			
4	LAKE FARM LANE	1" CTS			
6	LAKE FARM LANE	2" CTS			
7	LAKE FARM LANE	1" CTS			
9	LAKE FARM LANE	1-1/2 CTS			
10	LAKE FARM LANE	1" CTS			
15	LAKE FARM LANE	1" CTS			
16	LAKE FARM LANE	1" CTS			
18	LAKE FARM LANE	1" CTS			
21	LAKE FARM LANE	2" CTS			
3	LARBOARD LANE	1" IP		Yes	
4	LARBOARD LANE	1" IP		Yes	
7	LARBOARD LANE	1" CTS			Off 1-1/4 or 1-1/2" IP Main in Easement
8	LARBOARD LANE	1" IP		Yes	
9	LARBOARD LANE	1" IP		Yes	
10	LARBOARD LANE	1" IP		Yes	
6	LEWIS ROAD	1" CTS			
7	LEWIS ROAD	1" IP		Yes	Off 2" IP Main
9	LEWIS ROAD	1" IP		Yes	Off 2" IP Main
10	LEWIS ROAD	1" IP		Yes	Off 2" IP Main
12	LEWIS ROAD	1" CTS Poly		Yes	Off 2" Main

	Address	Service	Date Replaced	To Be Replaced Under This Project	Notes
14	LEWIS ROAD	2" CTS			2" First 130'
6	LEWIS ROAD REAR	1" CTS			
5	LINDEN LANE	1" CTS			
6	LINDEN LANE	1" CTS			
7	LINDEN LANE	1" CTS			
8	LINDEN LANE	1-1/2" CTS			
9	LINDEN LANE	2" CTS			
29	LOOMIS LANE	1" CTS			
31	LOOMIS LANE	1" CTS			
40	LOOMIS LANE	1" CTS			
42	LOOMIS LANE	2" CTS			
44	LOOMIS LANE	1-1/2 CTS			
46	LOOMIS LANE	1-1/2" CTS			
47	LOOMIS LANE	1-1/2" CTS			
4	LUCY'S LANE	1" CTS		Yes	
7	LUCY'S LANE	1" CTS		Yes	
14	LUCY'S LANE	1" IP		Yes	
15	LUCY'S LANE	1" IP		Yes	
16	LUCY'S LANE	1" CTS		Yes	
17	LUCY'S LANE	1" IP		Yes	
147	MAIN STREET	1" CTS			
157	MAIN STREET	1" IP		Yes	
163	MAIN STREET	1" IP		Yes	
165	MAIN STREET	1" IP		Yes	
168	MAIN STREET	1" CTS	12/9/2005		
169	MAIN STREET	1" CTS to CV			
170	MAIN STREET	1" IP		Yes	
172	MAIN STREET	1" IP		Yes	
174	MAIN STREET	1" IP		Yes	
175	MAIN STREET	1" IP		Yes	
178	MAIN STREET	1" IP		Yes	
180	MAIN STREET	1" IP		Yes	
181	MAIN STREET	1" IP		Yes	
184	MAIN STREET	1" IP		Yes	
185	MAIN STREET	1" CTS to CV	9/25/2015		
187	MAIN STREET	1" IP		Yes	
189	MAIN STREET	2" CTS			
191	MAIN STREET	2" CTS			
193	MAIN STREET	1-1/2" CTS			
194	MAIN STREET	1" IP		Yes	

	Address	Service	Date Replaced	To Be Replaced Under This Project	Notes
197	MAIN STREET	1" IP		Yes	
197A	MAIN STREET	1" IP		Yes	Off 2" IP Main
198	MAIN STREET	2" CTS	7/19/2016		
199	MAIN STREET	1" IP		Yes	
200	MAIN STREET	2" CTS			
202	MAIN STREET	1" IP		Yes	
204	MAIN STREET	2" CTS	8/22/2008		
207	MAIN STREET	1" CTS			
210	MAIN STREET	1" IP		Yes	
210	MAIN STREET	1-1/4" IP		Yes	
210	MAIN STREET	1-1/4" IP		Yes	
210	MAIN STREET	1" IP		Yes	
210	MAIN STREET	3-2" CTS			4" Fire Line
212	MAIN STREET	1" IP		Yes	
216	MAIN STREET	1" IP		Yes	No Info in OWD File
218	MAIN STREET	1-1/4" IP		Yes	Replace with 1-1/2"
219	MAIN STREET	1-1/4" IP		Yes	
219	MAIN STREET	2" CTS			
220	MAIN STREET	1" CTS	12/15/2015		
221	MAIN STREET	1" CTS			Service Relocated off High Tide Lane
222	MAIN STREET	1" CTS to CV			
223	MAIN STREET	1" IP		Yes	CV Replaced 1/9/1995
224	MAIN STREET	1" IP		Yes	
235	MAIN STREET	CTS	Jan-20		
195	MAIN STREET 1	1-1/4" IP		Yes	Replace with 1-1/2"
207	MAIN STREET 1	1" CTS			
195	MAIN STREET 2	1-1/4" IP		Yes	
207	MAIN STREET 2	1" CTS			
195	MAIN STREET 3				
195	MAIN STREET 4				
195	MAIN STREET 5				
195	MAIN STREET 6				
210	MAIN STREET 6-PO	1-1/4" IP		Yes	
170	MAIN STREET A	1" CTS Poly		Yes	
213	MAIN STREET A	1-1/2 CTS			
209	MAIN STREET APT	1" CTS			
211	MAIN STREET APT				
197	MAIN STREET B	1" IP		Yes	Off 2" IP Main
213	MAIN STREET B				

	Address	Service	Date Replaced	To Be Replaced Under This Project	Notes
213	MAIN STREET C				
211	MAIN STREET DELI	1" CTS	1/15/2015		
195	MAIN STREET EAST	1-1/2" CTS			
189	MAIN STREET REAR	2" CTS			
209	MAIN STREET SHOP	1" IP		Yes	
217	MAIN STREET STORE	1" IP		Yes	
195	MAIN STREET WEST				
7	MANITO WAY	6" Fire & 2" CTS			
11	MANITO WAY	1" IP		Yes	
15	MANITO WAY	1" CTS			
17	MANITO WAY	1" CTS			
21	MANITO WAY	1" IP		Yes	Off 2" IP Main
22	MANITO WAY	1" IP		Yes	Off 2" IP Main
3	MILL LANE	1" IP		Yes	
4	MILL LANE A	2" CTS			
4	MILL LANE B				
4	MILL LANE C				
4	MILL LANE D				
4	MILL LANE E	2" CTS			
4	MILL LANE F				
4	MILL LANE G				
4	MILL LANE H				
3	MINISTERS PRIM	1" IP			Off 2" IP Main
14	MINISTERS PRIM	1" IP			
15	MONUMENT ROAD	1" CTS			
19	MONUMENT ROAD	1" IP to CV		Yes	
25	MONUMENT ROAD	1-1/2" CTS			
27	MONUMENT ROAD	1" CTS	6/2/2011		
30	MONUMENT ROAD	1" IP		Yes	
32	MONUMENT ROAD	1" IP		Yes	
33	MONUMENT ROAD	1" IP		Yes	
38	MONUMENT ROAD	1" CTS	12/16/2020		
40	MONUMENT ROAD	1" IP		Yes	
41	MONUMENT ROAD	1" IP		Yes	
44	MONUMENT ROAD	1-1/2" CTS			
45	MONUMENT ROAD	1" CTS	12/20/2018		
46	MONUMENT ROAD	1" IP		Yes	
47	MONUMENT ROAD	1" CTS			
49	MONUMENT ROAD	1" CTS	1990		
40-A	MONUMENT ROAD			Yes	

	Address	Service	Date Replaced	To Be Replaced Under This Project	Notes
49	MONUMENT ROAD COTTAGE COT	1" CTS Poly		Yes	
3	NATURAL DRIVE	1" CTS	12/12/2018		
4	NATURAL DRIVE	1" IP		Yes	
6	NATURAL DRIVE	1" CTS			
7	NATURAL DRIVE	1" CTS			
10	NATURAL DRIVE	1" IP		Yes	
11	NATURAL DRIVE	1" CTS	1/20/1992		
16	NATURAL DRIVE	1" IP		Yes	
1	NAUSET FARMS LANE	1-1/2" IP		Yes	
3	NAUSET FARMS LANE	1" CTS Poly		Yes	
5	NAUSET FARMS LANE	1" CTS Poly		Yes	
7	NAUSET FARMS LANE	1" CTS Poly		Yes	
9	NAUSET FARMS LANE	1" CTS Poly		Yes	
11	NAUSET FARMS LANE	1" CTS Poly		Yes	
4	NAUSET FARMS WAY	1" IP		Yes	
8	NAUSET FARMS WAY	1" CTS			
9	NAUSET FARMS WAY	1" CTS			
12	NAUSET FARMS WAY	1" CTS	3/31/2016		
19	NAUSET FARMS WAY	1" CTS			
20	NAUSET FARMS WAY	1" IP		Yes	
21	NAUSET FARMS WAY	1" IP		Yes	
22	NAUSET FARMS WAY	1" IP		Yes	
23	NAUSET FARMS WAY	1" IP		Yes	
4	OAK LANE	1" IP		Yes	
2	PACKET LANDING	1" CTS			
3	PACKET LANDING	1" IP			
6	PACKET LANDING	1" CTS			
7	PACKET LANDING	1" CTS			
9	PACKET LANDING	1" CTS			
10	PACKET LANDING	1" CTS		Yes	
13	PACKET LANDING	1" CTS			
14	PACKET LANDING	2" CTS			
15	PACKET LANDING	2" CTS			
16	PACKET LANDING	1" CTS			
2	PINE RIDGE LANE	1" IP		Yes	
5	PINE RIDGE LANE	1" IP		Yes	
6	PINE RIDGE LANE	1" IP		Yes	
8	PINE RIDGE LANE	1" IP		Yes	
2	POCHET ROAD	1" IP		Yes	

	Address	Service	Date Replaced	To Be Replaced Under This Project	Notes
12	POCHET ROAD	1" CTS	1/10/2021		
15	POCHET ROAD	1" CTS			
17	POCHET ROAD	1" CTS			
23	POCHET ROAD	1" CTS			
31	POCHET ROAD	1-1/2" CTS			May be 1" CTS
41	POCHET ROAD	1" IP		Yes	
43	POCHET ROAD	1-1/2 IP		Yes (W/1-1/2")	
46	POCHET ROAD	1" IP		Yes	
9	POND ROAD	1" IP		Yes	
10	POND ROAD	1" IP		Yes	
12	POND ROAD	1-1/2" CTS			
14	POND ROAD	1" IP		Yes	
20	POND ROAD	1" IP		Yes	
22	POND ROAD	1" IP		Yes	
23	POND ROAD	1" CTS			
24	POND ROAD	1" IP		Yes	
25	POND ROAD	1-1/2" CTS			
26	POND ROAD	1" IP		Yes	
27	POND ROAD	2" CTS	5/3/2020		
29	POND ROAD	1" IP		Yes	
31	POND ROAD	1" CTS			
32	POND ROAD	1" CTS			
33	POND ROAD	1-1/4 CIP		Yes	Replace with 1-1/2"
35	POND ROAD	1-1/4" IP		Yes	Common Service 2 Houses
40	POND ROAD	1" CTS			
41	POND ROAD	1" CTS	10/22/2010		
43	POND ROAD	1" CTS	Aug-04		
44	POND ROAD	1" CTS			
49	POND ROAD	1" IP		Yes	
50	POND ROAD	2" CTS			
54	POND ROAD	1" IP		Yes	
55	POND ROAD	1" IP		Yes	
7	POND ROAD 1	1-1/2" CTS			
7	POND ROAD 2				
5	POND ROAD MAIN	1-1/2" CTS	11/4/2003		
8	POND VIEW ROAD	1" CTS to CV	7/22/1980		
9	POND VIEW ROAD	1" IP		Yes	
14	POND VIEW ROAD	1-1/2" CTS	7/11/2014		

	Address	Service	Date Replaced	To Be Replaced Under This Project	Notes
24	R GREAT OAK ROAD BOG	2" IP		Yes	
5	REV. TREAT ROAD	2" CTS			
6	REV. TREAT ROAD	2" CTS			
3	RIVER ROAD	1" CTS	12/9/2008		
3	RIVER ROAD				
14	RIVER ROAD	1" CTS			
15	RIVER ROAD	1"	2009	Yes	May have been replaced
16	RIVER ROAD	1" CTS	4/6/2005		
29	RIVER ROAD	1" CTS	4/5/1996		
32	RIVER ROAD	1-1/2" CTS	7/3/1991		
36	RIVER ROAD	2" CTS			
37	RIVER ROAD	1" CTS			
38	RIVER ROAD				
39	RIVER ROAD	1" CTS	7/26/2010		
40	RIVER ROAD	1" IP		Yes	
43	RIVER ROAD	1" CTS	8/16/2005		
45	RIVER ROAD	1" CTS			
47	RIVER ROAD	1" CTS			
59	RIVER ROAD	1" CTS to CV			
67	RIVER ROAD	1" CTS	8/20/2013	Yes	
113	ROUTE 28	1-1/2 CTS			
5	SCHOOL ROAD	1" CTS			
8	SCHOOL ROAD	1-1/2" CTS			
9	SCHOOL ROAD	1" IP		Yes	
19	SCHOOL ROAD	6" Fire & 2" CTS			Old Service cut & capped
19	SCHOOL ROAD	2" CTS	5/17/2007		To Pit
23	SCHOOL ROAD	1" IP		Yes	At Older House (Multiple CV)
9	UNCLE VICK'S WAY	1" IP		Yes	
14	UNCLE VICK'S WAY	1" IP		Yes	
15	UNCLE VICK'S WAY	1" CTS			
18	UNCLE VICK'S WAY	1" CTS	6/6/2007		
22	UNCLE VICK'S WAY	1" IP		Yes	
24	UNCLE VICK'S WAY	1" IP		Yes	
27	UNCLE VICK'S WAY	1" IP		Yes	
30	UNCLE VICK'S WAY	1" CTS			
31	UNCLE VICK'S WAY	1" CTS			
3	WINDY HILL LANE	1" CTS			
5	WINDY HILL LANE	1-1/4" IP		Yes	

	Address	Service	Date Replaced	To Be Replaced Under This Project	Notes
8	WINDY HILL LANE	1" CTS			
11	WINDY HILL LANE	1" CTS	12/6/2011		
2	WOODLAND PARK LANE	1" IP		Yes	
0	BARLEY NECK ROAD				
3	BARLEY NECK ROAD				
7	BARLEY NECK ROAD				
11	BARLEY NECK ROAD				
19	BARLEY NECK ROAD				
49	BARLEY NECK ROAD				
69	BARLEY NECK ROAD				
20	CHENEY ROAD				
15	COLE PLACE				
6	GESNER ROAD				
0	GREAT OAK ROAD				
25	GREAT OAK ROAD				
12	HARVEYS LANE				
34	HIGH TIDE LANE				
36	HIGH TIDE LANE				
37	HIGH TIDE LANE				
39	HIGH TIDE LANE				
30	KAREN WAY				
37	LOOMIS LANE				
214	MAIN STREET				
11	MINISTERS PRIM				
0	MONUMENT ROAD				
23	MONUMENT ROAD				
31	MONUMENT ROAD				
42	MONUMENT ROAD				
17	NATURAL DRIVE				
18	NATURAL DRIVE				
15	NAUSET FARMS WAY				
0	POND ROAD				
11	POND ROAD				
34	POND ROAD				
36	POND ROAD				
19	RIVER ROAD	1" CTS			
34	RIVER ROAD				
38	RIVER ROAD				

	Address	Service	Date Replaced	To Be Replaced Under This Project	Notes
124	SOUTH ORLEANS ROAD				
10	UNCLE VICKS WAY				
29	UNCLE VICKS WAY				
4	WINDY HILL LANE				
10	WINDY HILL LANE				

2. SECTION 11600 – SEQUENCING BATCH REACTORS

A. Page 11600-9, ARTICLE 3.04 – WARRANTY, Add Paragraph D.

D. The Warranty shall be for a period of one (1) year from Substantial Completion of the construction contract. The CONTRACTOR and MANUFACTURER shall be involved with and contractually tied to performance/process testing during this warranty period and shall address any warranty items during these warranty period should the need arise.

3. SECTION 16110 – ELECTRICAL RACEWAY SYSTEMS

A. Page 16110-3, ARTICLE 1.06 – DESIGN CRITERIA, Add Paragraph J.:

J. Provide Schedule 40 polyvinylchloride (PVC) conduits for direct buried conduits.

4. SECTION 16402 – UNDERGROUND DISTRIBUTION SYSTEM

A. Page 16402-3, ARTICLE 1.09 – DESCRIPTION, Add Paragraph D.:

D. Provide Schedule 40 polyvinylchloride (PVC) conduits for direct buried conduits.

5. SECTION 16402 – UNDERGROUND DISTRIBUTION SYSTEM

A. Page 16402-3, ARTICLE 3.02 – INSTALLATION OF CONDUITS, Replace article in its entirety with the following new article:

3.02 - INSTALLATION OF CONDUITS

- A. Lay conduits, indicated to be direct buried in the ground, in trench on 3-inch bed of sand and cover with an equivalent 3-inch bed of sand. Ensure that no rocks come in contact with conduit during backfilling. Dig trenches to depth and location indicated.
- B. Provide separation of power and control conduits of 3 inches both vertically and horizontally.
- C. Build ductbank layer by layer. Coordinate with General Contractor to backfill and compact each layer to provide support for next layer.
- D. Separate AC power and control ducts from instrument telephone, fire alarm and signal ducts by 12 inches.
- E. Provide yellow ductbank marker tapes, reading "Caution - Electrical Lines Below", over entire length of ductline. Locate tapes 12 inches below grade. Provide a tape for every 12 inches of width of ductline.
- F. Install conduit, with spacers as specified. Rigid galvanized steel conduits to be painted with bituminous paint by others under SECTION 09940, FIELD PAINTING.
- G. Install conduit runs following routing on drawing and running in straight lines. Provide end bells where ducts enter handholes of the same material as the duct system. Terminate steel conduit entering hand holes in grounding bushing. Where deviation from a straight line becomes necessary, install bends of radius which allow for rodding and installation of cable.

- H. Accomplish changes in direction of runs exceeding total of 10 degrees, either vertical or horizontal, by long sweep bends having radius of curvature of 25 ft. Manufactured bends can be used at ends of short runs of 100-ft. or less, and then only at or close to the end of run. Provide long sweep bends made up of one or more curved or straight sections and/or combinations thereof. Install manufactured bends with radius of 36-in. where larger radius cannot be used.
- I. Lay ductlines to slope of 4 inches per 100-ft. and slope to handholes from a high point between the handholes. Ductlines are to slope away from buildings.
- J. Install spacers at intervals of 4 ft. and stagger between tiers of ducts to provide 12-in. of longitudinal separation. Install base spacers to provide 3-in. between bottom of trench and underside of bottom conduits. Coordinate with General Contractor to fill space with concrete under SECTION 03300, CAST-IN-PLACE CONCRETE. Firmly wire conduits and spacers together before concrete is placed.
- K. Prior to placing of concrete under SECTION 03300, CAST-IN-PLACE CONCRETE, General Contractor to remove all dirt, sand, and any other debris from between conduits and from trench bottoms under SECTION 02210, EARTH EXCAVATION, BACKFILL, FILL AND GRADING. Hold conduits in place to prevent floating or accidental movement.
- L. Stagger joints in conduits 6-in. Do not allow couplings to rest on bottom of trench. Install couplings for plastic conduit in accordance with manufacturer's recommendations.
- M. General Contractor to install concrete encasements under SECTION 03300, CAST-IN-PLACE CONCRETE so clearance of 12-in. from concrete to parallel pipes, lines, and structures, is maintained. Where ducts cross, clearance of 6 inches is required.
- N. At a point close to the handhole wall, drive a ground rod into earth. Extend ground rod 6-in. above finished handhole floor. After completion of handhole by General Contractor under SECTION 03300, CAST-IN-PLACE CONCRETE connect 6 foot length of No. 4 bar copper ground wire to ground rod. Connect grounding bushings, cable racks, covers, other metallic parts, splices, and ground wire installed with each feeder to ground loop.
- O. Keep conduits clean of concrete, dirt, and other substances during the course of construction. After the ductlines have been completed, pull a standard flexible mandrel not less than 12-in. long, having a diameter 1/4-in. less than the inside diameter of the conduit, through each conduit, after which pull a brush with stiff bristles through each conduit to make certain that no particles of earth, sand, or gravel have been left in the line. Replace conduit runs that do not allow the passage of the mandrel at no additional cost to the Authority. Pneumatic rodding may be used to draw in the lead wire. Install in spare conduits a pull wire or rope, and plug and seal spare conduits after cleaning.

CHANGES TO BE MADE TO THE CONTRACT DRAWINGS

1. DRAWING 00 G-002
 - A. Delete the drawing in its entirety and replace with the new DRAWING 00 G-002 attached.
2. CIVIL DRAWINGS, Add or Remove Water Service Replacements on the corresponding drawing sheets:

DRAWING NUMBER	DIRECTION CHANGE	APPROXIMATE STATION LOCATION (TO BE FIELD VERIFIED)	ADDRESS
04 C-105	Add Water Service Replacement	12+70	29 Pond Road
04 C-105	Remove Water Service Replacement	10+40	32 Pond Road
04 C-112	Add Water Service Replacement	12+20	165 Main Street
04 C-112	Add Water Service Replacement	15+00	170 Main Street
04 C-112	Add Water Service Replacement	15+00	170 Main Street A

04 C-115	Add Water Service Replacement	42+80	15 Barley Neck Road
04 C-116	Add Water Service Replacement	0+70	2 Pochet Road
04 C-125	Remove Water Service Replacement	12+50	35 Beach Road
04 C-138	Remove Water Service Replacement	3+40	10 Deerwood Lane
04 C-149	Add Water Service Replacement	6+00	15 High Tide Lane
04 C-128	Add Water Service Replacement	4+90	65 Barley Neck Road
04 C-131	Add Water Service Replacement	3+95	15 River Road

3. CIVIL DRAWINGS, Replace stationing for manholes listed on the corresponding drawing sheets:

DRAWING NUMBER	MANHOLE NUMBER	NEW STATION
04 C-100	G-05-14	0+07
04 C-100	G-05-06	5+46
04 C-100	G-05-05	6+75
04 C-100	G-05-04	8+92
04 C-100	G-05-03	9+47
04 C-101	G-05-17	0+09
04 C-101	G-05-16	2+43
04 C-101	G-05-15	4+34
04 C-101	G-05-14	4+62
04 C-101	G-05-18	7+53
04 C-101	G-05-19	8+63
04 C-101	G-05-20	10+15
04 C-102	G-05-16	2+27
04 C-103	G-05-20	10+15
04 C-104	G-05-20	0+00
04 C-104	G-05-21	2+89
04 C-105	G-05-24	11+48
04 C-105	H-05-02	13+97
04 C-105	H-05-03	16+56
04 C-106	H-05-05	20+19
04 C-110	H-05-03	0+01
04 C-111	G-05-06	0+19
04 C-111	G-05-09	5+69
04 C-111	F-05-01	7+59
04 C-111	F-06-35	9+60
04 C-112	F-06-34	11+91
04 C-112	F-06-32	13+33
04 C-112	F-06-31	15+04
04 C-112	F-06-30	17+93
04 C-113	F-06-29	20+82
04 C-113	F-06-28	22+12
04 C-113	F-06-27	24+40
04 C-113	F-06-26	27+21
04 C-113	F-06-25	27+69
04 C-114	F-06-13	29+99

04 C-114	F-06-11	31+74
04 C-114	F-06-10	33+49
04 C-114	F-06-08	34+61
04 C-114	F-06-07	35+70
04 C-114	F-06-06	37+27
04 C-115	F-07-17	39+47
04 C-115	F-07-14	43+73
04 C-115	F-07-13	45+02
04 C-116	F-07-03	6+34
04 C-116	G-07-02	8+34
04 C-117	G-07-02	8+34
04 C-117	G-07-01	11+34
04 C-118	G-07-01	11+34
04 C-120	F-06-25	0+00
04 C-123	F-06-19	0+03
04 C-123	F-06-15	0+05
04 C-124	F-06-06	0+00
04 C-124	F-06-05	0+66
04 C-124	F-07-25	3+03
04 C-124	F-07-24	4+30
04 C-124	F-07-23	5+59
04 C-124	F-07-22	7+37
04 C-124	F-07-21	9+06
04 C-125	F-07-20	10+78
04 C-125	F-07-19	13+44
04 C-125	F-07-18	15+03
04 C-126	F-07-25	0+00
04 C-126	F-07-26	1+12
04 C-126	F-06-04	2+12
04 C-126	F-06-03	3+21
04 C-126	F-06-02	4+71
04 C-126	F-06-11	6+36
04 C-127	F-07-10	0+00
04 C-127	F-07-09	0+72
04 C-127	F-07-08	1+37
04 C-127	F-07-07	2+70
04 C-127	G-07-07	4+12
04 C-127	G-07-06	4+86
04 C-127	G-07-05	5+89
04 C-127	G-07-04	7+04
04 C-127	G-07-03	9+34
04 C-135	F-06-31	0+00
04 C-136	F-06-29	0+02
04 C-138	F-06-29	0+00
04 C-139	F-06-28	0+00
04 C-141	F-06-26	0+03
04 C-142	F-06-13	0+01
04 C-143	F-06-10	0+01
04 C-144	F-07-14	0+00
04 C-145	F-07-13	0+00
04 C-145	F-07-12	0+40
04 C-145	F-07-11	1+50
04 C-146	F-07-05	0+00

04 C-149	G-07-03	0+02
04 C-150	G-07-03	0+01
40 C-152	F-07-20	0+07
04 C-153	G-05-02	0+00
04 C-153	G-05-01	2+49
04 C-153	G-06-01	4+99
04 C-154	F-06-34	0+02

4. DRAWING 04 C-118
 - A. Plan, Add a Low-Pressure Sewer Service at 28 Pochet Road.
 - B. Plan, Add a Low-Pressure Sewer Service at 32 Pochet Road.
 - C. Plan, Add a Low-Pressure Sewer Service at 40 Pochet Road.
5. DRAWING 04 E-002
 - A. Delete the drawing in its entirety and replace with the new DRAWING 04 E-002 attached.
6. DRAWING 10 E-002
 - A. Add to the Drawing "Note 1. The existing switchboard SWBD.10-1 is ABB Spectra Series."
7. DRAWING 99 E-501
 - A. Delete the drawing in its entirety and replace with the new DRAWING 99 E-501 attached.

CHANGES TO BE MADE TO THE CONTRACT ATTACHMENTS

None

END OF ADDENDUM NO. 3

This Page Intentionally Left Blank.

INDEX OF DRAWINGS

SHEET NO. TITLE

GENERAL

- 00 G-001 COVER SHEET AND LOCATION PLAN
- 00 G-002 INDEX OF DRAWINGS
- 00 G-003 KEY PLAN SHEET 1 OF 2
- 00 G-004 KEY PLAN SHEET 2 OF 2

CIVIL

- 00 C-001 LEGEND, ABBREVIATIONS AND GENERAL NOTES
- 04 C-100 PLAN AND PROFILE SEWER SCHOOL ROAD
- 04 C-101 PLAN AND PROFILE SEWER MONUMENT ROAD
- 04 C-102 PLAN AND PROFILE SEWER UNCLE VICKS WAY
- 04 C-103 PLAN AND PROFILE SEWER MONUMENT ROAD
- 04 C-104 PLAN AND PROFILE SEWER POND ROAD
- 04 C-105 PLAN AND PROFILE SEWER POND ROAD
- 04 C-106 PLAN AND PROFILE SEWER FINLAY ROAD
- 04 C-107 PLAN AND PROFILE SEWER FINLAY ROAD
- 04 C-108 PLAN AND PROFILE SEWER FINLAY ROAD
- 04 C-109 PLAN AND PROFILE SEWER FINLAY ROAD
- 04 C-110 PLAN AND PROFILE SEWER LAKE FARM LANE
- 04 C-111 PLAN AND PROFILE SEWER MAIN STREET
- 04 C-112 PLAN AND PROFILE SEWER MAIN STREET
- 04 C-113 PLAN AND PROFILE SEWER MAIN STREET
- 04 C-114 PLAN AND PROFILE SEWER MAIN STREET
- 04 C-115 PLAN AND PROFILE SEWER BARLEY NECK ROAD
- 04 C-116 PLAN AND PROFILE SEWER POCHEM ROAD
- 04 C-117 PLAN AND PROFILE SEWER POCHEM ROAD
- 04 C-118 PLAN AND PROFILE SEWER POCHEM ROAD
- 04 C-119 PLAN AND PROFILE SEWER POCHEM ROAD
- 04 C-120 PLAN AND PROFILE SEWER GREAT OAK ROAD
- 04 C-121 PLAN AND PROFILE SEWER GREAT OAK ROAD
- 04 C-122 PLAN AND PROFILE SEWER GREAT OAK ROAD
- 04 C-123 PLAN AND PROFILE SEWER PINE RIDGE LANE & OAK LANE
- 04 C-124 PLAN AND PROFILE SEWER BEACH ROAD
- 04 C-125 PLAN AND PROFILE SEWER BEACH ROAD
- 04 C-126 PLAN AND PROFILE SEWER COLE PLACE
- 04 C-127 PLAN AND PROFILE SEWER BARLEY NECK ROAD
- 04 C-128 PLAN AND PROFILE SEWER BARLEY NECK ROAD
- 04 C-129 PLAN AND PROFILE SEWER BARLEY NECK ROAD
- 04 C-130 PLAN AND PROFILE SEWER HARVEYS LANE
- 04 C-131 PLAN AND PROFILE SEWER RIVER ROAD
- 04 C-132 PLAN AND PROFILE SEWER RIVER ROAD
- 04 C-133 PLAN AND PROFILE SEWER LUCY'S LANE
- 04 C-134 PLAN AND PROFILE SEWER LINDEN LANE
- 04 C-135 PLAN AND PROFILE SEWER MINISTERS PRIM ROAD
- 04 C-136 PLAN AND PROFILE SEWER KAREN WAY
- 04 C-137 PLAN AND PROFILE SEWER KAREN WAY
- 04 C-138 PLAN AND PROFILE SEWER DEERWOOD LANE
- 04 C-139 PLAN AND PROFILE SEWER LOOMIS LANE
- 04 C-140 PLAN AND PROFILE SEWER LOOMIS LANE
- 04 C-141 PLAN AND PROFILE SEWER MANITO ROAD
- 04 C-142 PLAN AND PROFILE SEWER CHENEY ROAD
- 04 C-143 PLAN AND PROFILE SEWER LEWIS ROAD
- 04 C-144 PLAN AND PROFILE SEWER GRIST ROAD
- 04 C-145 PLAN AND PROFILE SEWER MILL LANE
- 04 C-146 PLAN AND PROFILE SEWER NATURAL DRIVE
- 04 C-147 PLAN AND PROFILE SEWER LARBOARD LANE
- 04 C-148 PLAN AND PROFILE SEWER CEDAR WAY
- 04 C-149 PLAN AND PROFILE SEWER HIGH TIDE LANE
- 04 C-150 PLAN AND PROFILE SEWER POND VIEW ROAD
- 04 C-151 PLAN AND PROFILE SEWER WINDY HILL LANE
- 04 C-152 PLAN AND PROFILE SEWER NAUSET FARMS WAY
- 04 C-153 PLAN AND PROFILE SEWER GESNER ROAD
- 04 C-154 PLAN AND PROFILE SEWER MEETINGHOUSE ROAD
- 04 C-155 PLAN AND PROFILE SEWER OFF MAIN STREET (191 MAIN STREET)
- 04 C-156 PLAN AND PROFILE SEWER BAXTER LANE 1 OF 2
- 04 C-157 PLAN AND PROFILE SEWER BAXTER LANE 2 OF 2
- 04 C-158 PLAN AND PROFILE SEWER REVEREND TREAT ROAD AND BAYBERRY WAY
- 04 C-159 PLAN AND PROFILE SEWER PACKET LANDING
- 04 C-401 EXISTING CONDITIONS, DEMOLITION AND EROSION CONTROL - PUMPING STATION NO. 4
- 04 C-402 SITE PLAN - PUMPING STATION NO. 4
- 04 C-403 ENLARGED PLAN - PUMPING STATION NO. 4
- 99 C-501 DETAILS I
- 99 C-502 DETAILS II
- 99 C-503 DETAILS III
- 99 C-504 DETAILS IV
- 99 C-505 DETAILS V
- 99 C-506 DETAILS VI
- 99 C-507 DETAILS VII
- 99 C-508 DETAILS VIII
- 99 C-509 DETAILS IX
- 99 C-601 TRAFFIC MANAGEMENT TYPICAL APPLICATIONS I
- 99 C-602 TRAFFIC MANAGEMENT TYPICAL APPLICATIONS II
- 99 C-603 TRAFFIC MANAGEMENT DETAILS & TEMPORARY SIGN SUMMARY

SHEET NO. TITLE

STRUCTURAL

- 00 S-001 STRUCTURAL NOTES AND ABBREVIATIONS
- 99 S-501 STRUCTURAL STANDARD DETAILS

MECHANICAL PROCESS

- 00 D-001 PROCESS LEGEND
- 00 D-002 GENERAL NOTES AND ABBREVIATIONS
- 00 D-003 SCHEDULES
- 00 D-004 PROCESS FLOW DIAGRAM I
- 00 D-005 PROCESS FLOW DIAGRAM II
- 04 D-101 PUMPING STATION NO. 4 PLAN AND SECTION
- 10 D-101 WWTF LOWER PART PLAN
- 10 D-301 WWTF SECTIONS
- 15 D-101 SBR LOWER PLAN I
- 15 D-102 SBR LOWER PLAN II
- 15 D-103 SBR UPPER PLAN I
- 15 D-104 SBR UPPER PLAN II
- 15 D-301 SBR SECTIONS
- 99 D-501 DETAILS

ELECTRICAL

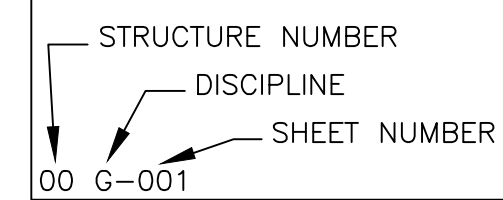
- 00 E-001 ELECTRICAL LEGEND, SYMBOLS AND ABBREVIATIONS
- 00 E-601 ELECTRICAL SCHEDULES I
- 00 E-602 ELECTRICAL SCHEDULES II
- 04 E-001 PUMP STATION NO. 4 - ELECTRICAL SINGLE LINE DIAGRAM
- 04 E-002 PUMP STATION NO. 4 - ELECTRICAL SITE PLAN
- 04 E-101 PUMP STATION NO. 4 - ELECTRICAL POWER PLAN
- 04 E-601 PUMP STATION NO. 4 - RISER DIAGRAMS
- 04 E-602 PUMP STATION NO. 4 - ELECTRICAL WIRING SCHEMATICS
- 04 E-603 PUMP STATION NO. 4 - EE-04 ELEVATION
- 10 E-001 WWTF - ELECTRICAL SINGLE LINE DIAGRAM - MODIFICATIONS
- 10 E-002 WWTF - ELECTRICAL SINGLE LINE DIAGRAM II - MODIFICATIONS
- 10 E-101 WWTF - LOWER LEVEL - ELECTRICAL POWER PLAN I
- 10 E-201 WWTF - GRADE LEVEL - ELECTRICAL POWER PLAN I
- 10 E-601 WWTF - ELECTRICAL RISER DIAGRAMS
- 99 E-501 ELECTRICAL DETAILS I
- 99 E-502 ELECTRICAL DETAILS II
- 99 E-503 ELECTRICAL DETAILS III

INSTRUMENTATION

- 00 DI-001 INSTRUMENTATION LEGEND, ABBREVIATIONS AND GENERAL NOTES
- 00 DI-601 SYSTEM ARCHITECTURE
- 04 DI-601 PUMP STATION 4 P&ID
- 04 DI-602 PUMP STATION 4 ODOR CONTROL P&ID
- 04 DI-603 PUMP STATION 4 MISCELLANEOUS SIGNALS
- 10 DI-603 SBR TRANSFER PUMPS P&ID
- 10 DI-610 SBR BLOWERS P&ID
- 15 DI-601 SBRs P&ID

SHEET DESIGNATION LEGEND

(TYP. OF ALL SHEETS)



STRUCTURE NUMBER:

- 04 PUMPING STATION NO. 4
- 10 WASTEWATER TREATMENT FACILITY
- 15 SBR No. 1 & SBR No. 2



PROJECT

MEETINGHOUSE POND
AREA COLLECTION
SYSTEM AND PUMPING
STATION
CONTRACT No. 2022-01
SRF No. 7150

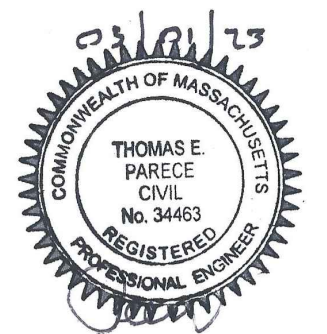
OWNER

TOWN OF ORLEANS, MA
19 SCHOOL ROAD
ORLEANS, MA 02653
(508) 240-3700

ENGINEER

AECOM TECHNICAL SERVICES, INC.
9 JONATHAN BOURNE DRIVE
POCASSET, MA 02559
PHONE: (978) 905-2100
www.aecom.com

REGISTRATION



ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	4-10-2023	ADDENDUM NO. 3
1	3-01-2023	ISSUE FOR BID

PROJECT NUMBER

60652634

Designed By:	M. DONOGHUE
Drawn By:	S. NAPOLITANO
Dept Check:	C. BENZIGER
Proj Check:	T. PARECE
Date:	MARCH 2023
Scale:	NO SCALE

DISCIPLINE

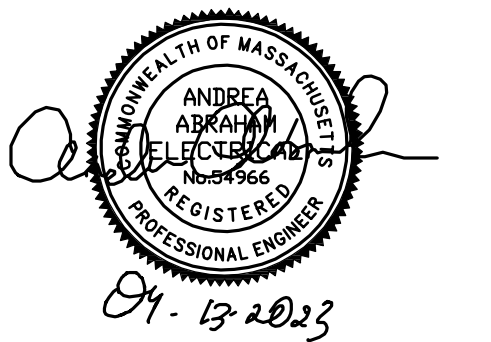
GENERAL

SHEET TITLE

INDEX OF DRAWINGS

SHEET NUMBER

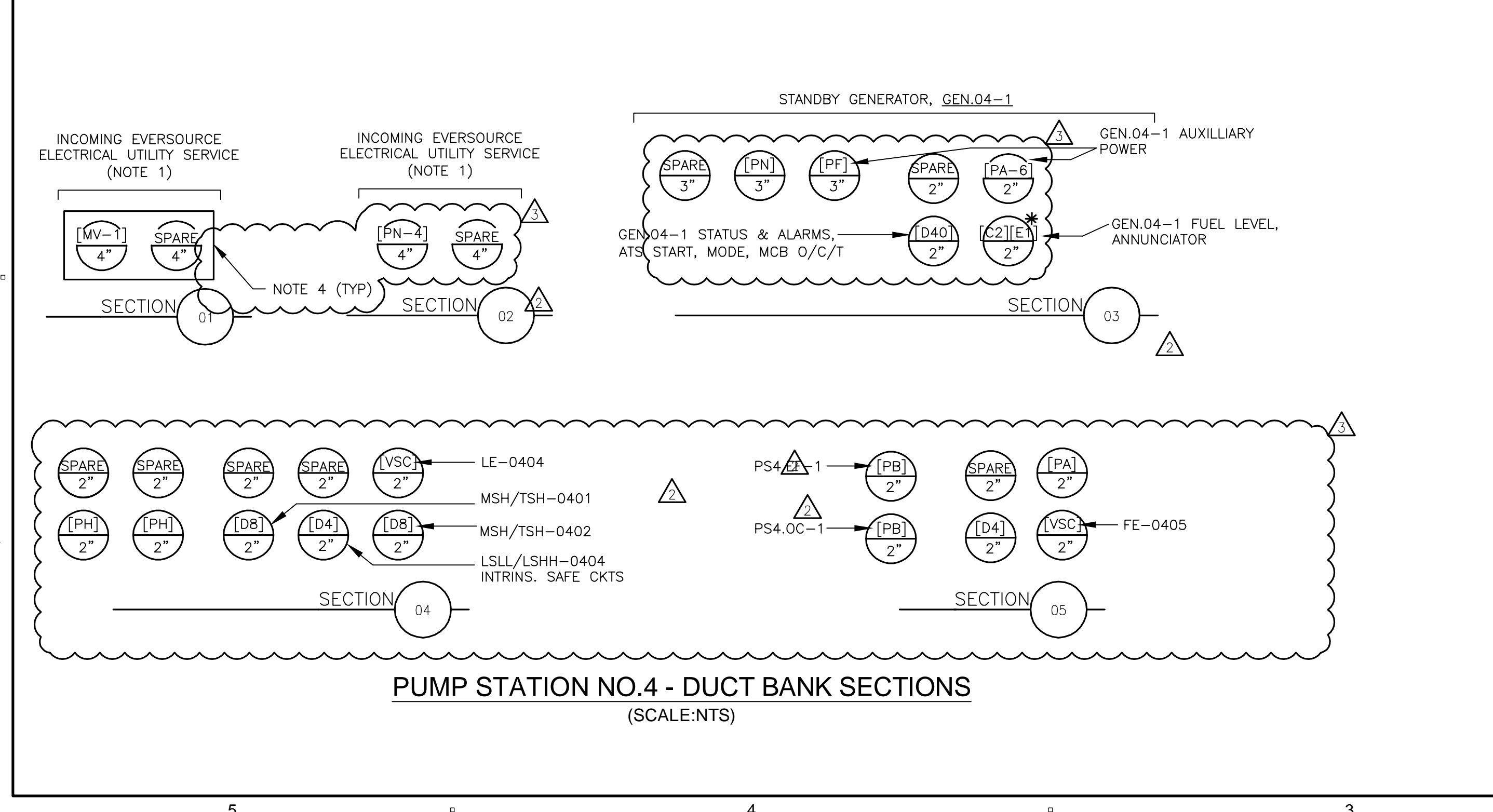
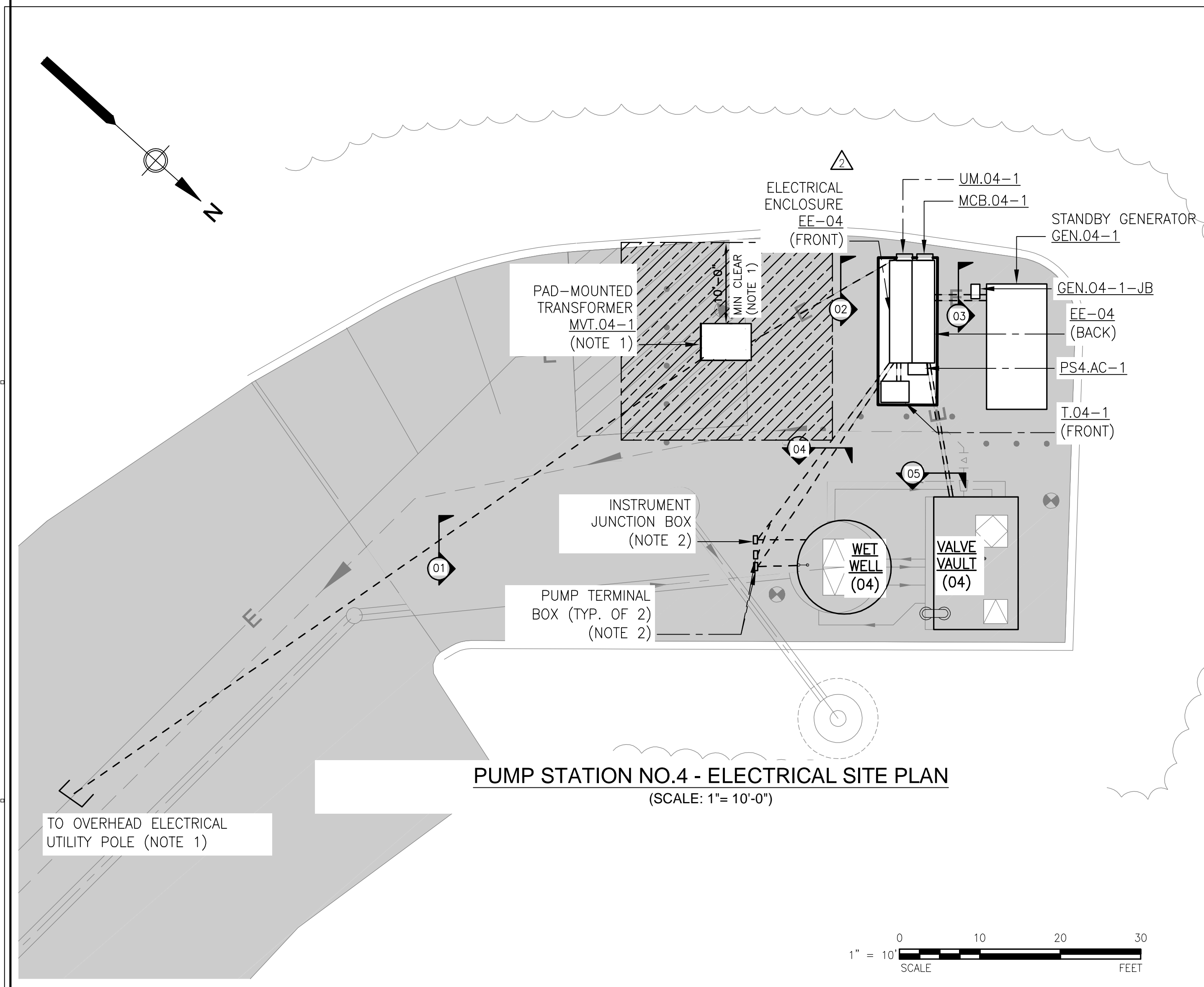
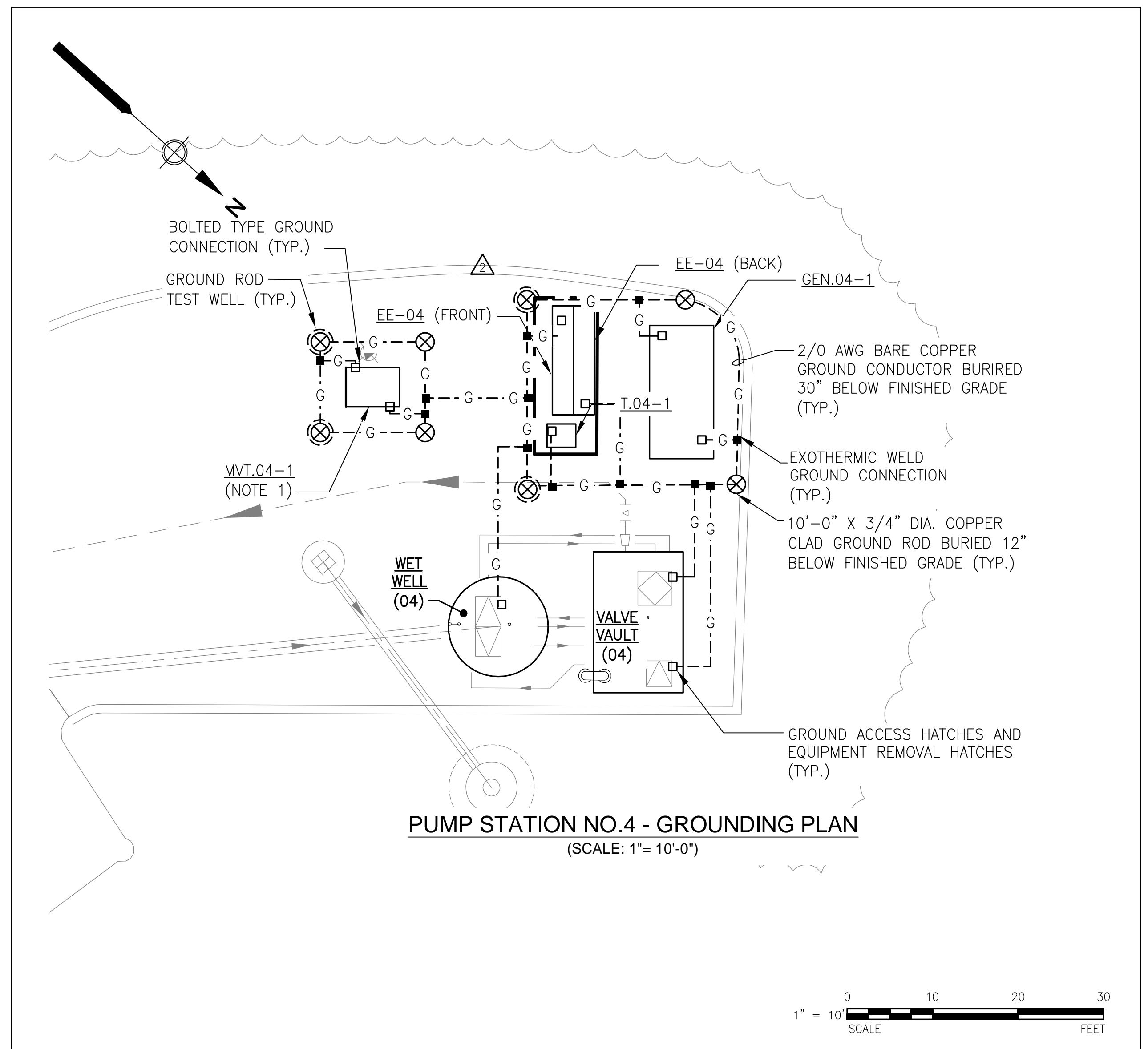
00 G-002



I/R	DATE	DESCRIPTION
3	4-13-2023	ADDENDUM NO.3
2	4-03-2023	ADDENDUM NO.2
1	3-01-2023	ISSUE FOR BID

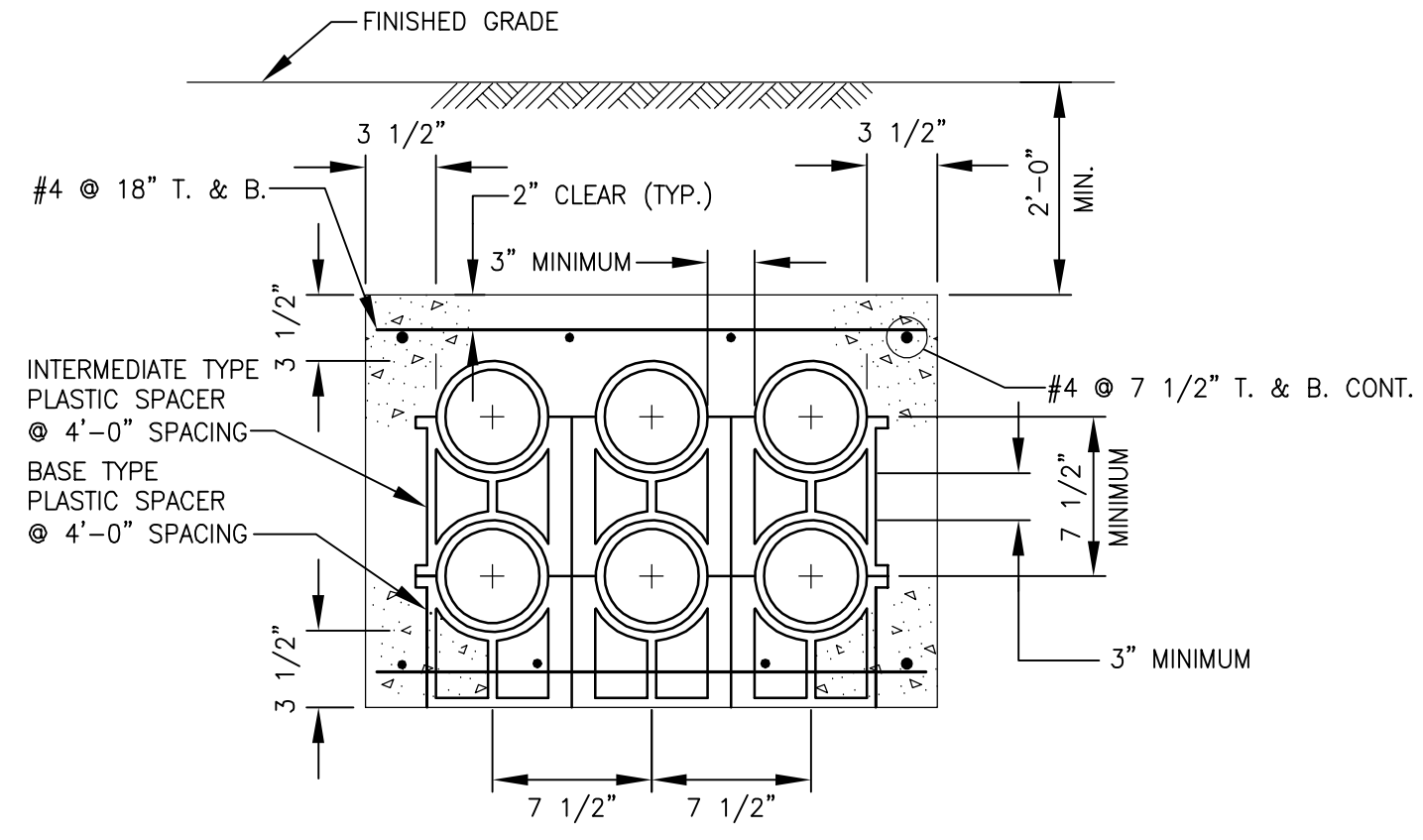
60652634

Designed By:	A. ABRAHAM
Drawn By:	A. ABRAHAM
Dept Check:	Y. RIZK
Proj Check:	T. PARECE
Date:	MARCH 2023
Scale:	-

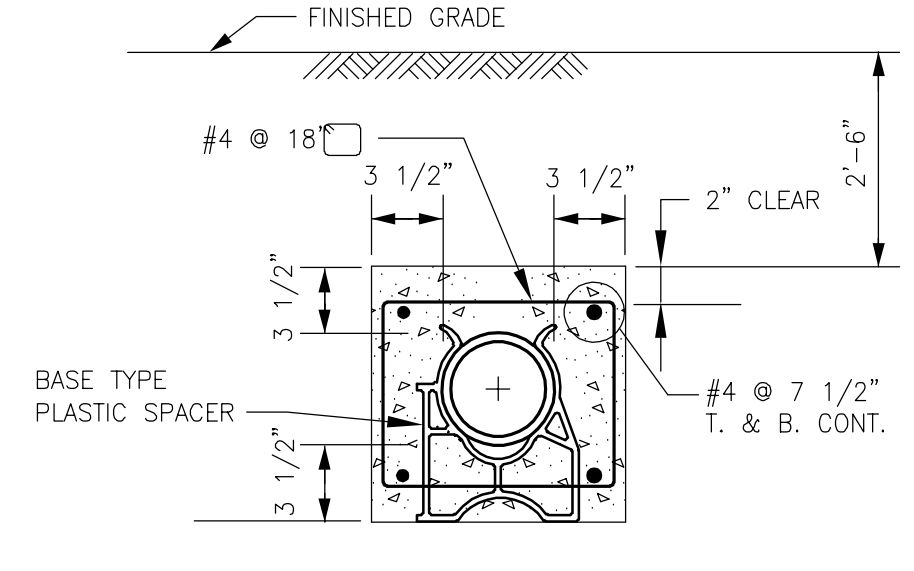


- NOTES:**
- PROVIDE UTILITY ELECTRICAL SERVICE IN ACCORDANCE WITH EVERSOURCE REQUIREMENTS. COORDINATE LOCATION OF UTILITY POLE FOR NEW SERVICE WITH EVERSOURCE.
 - LOCATE EQUIPMENT OUTSIDE OF XP CLASSIFIED BOUNDARY IN ACCORDANCE WITH NFPA 820 AND AREA CLASSIFICATION SCHEDULE SHEET 00 E-601.
 - SEE EQUIPMENT GROUNDING SCHEDULE SHEET 00 E-602.
 - PROVIDE DUCT BANK SECTION NO.1 AS CONCRETE ENCASED. DUCT BANK SECTIONS NO.2, 3, 4, 5, SHALL BE DIRECT BURIAL CONDUITS. PROVIDE IN ACCORDANCE WITH 99 E-501 AND SPECIFICATION 16402.

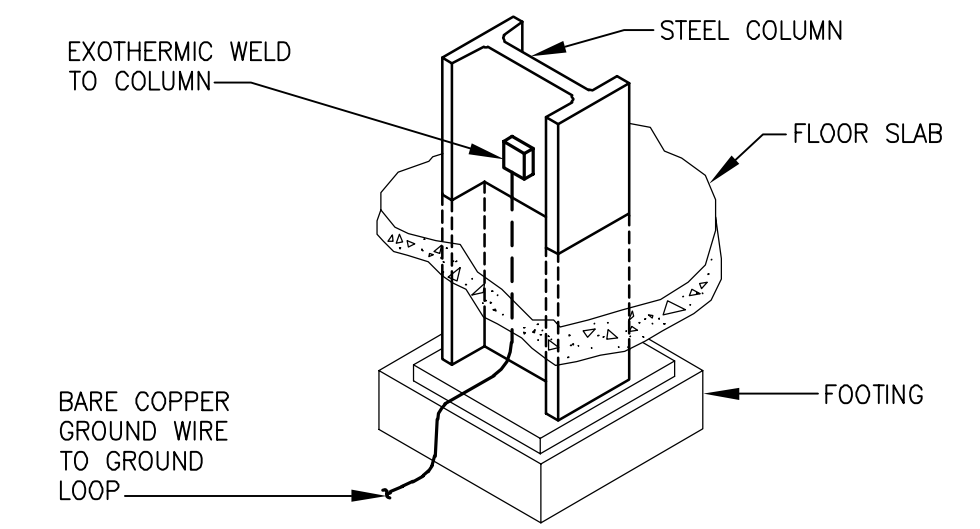
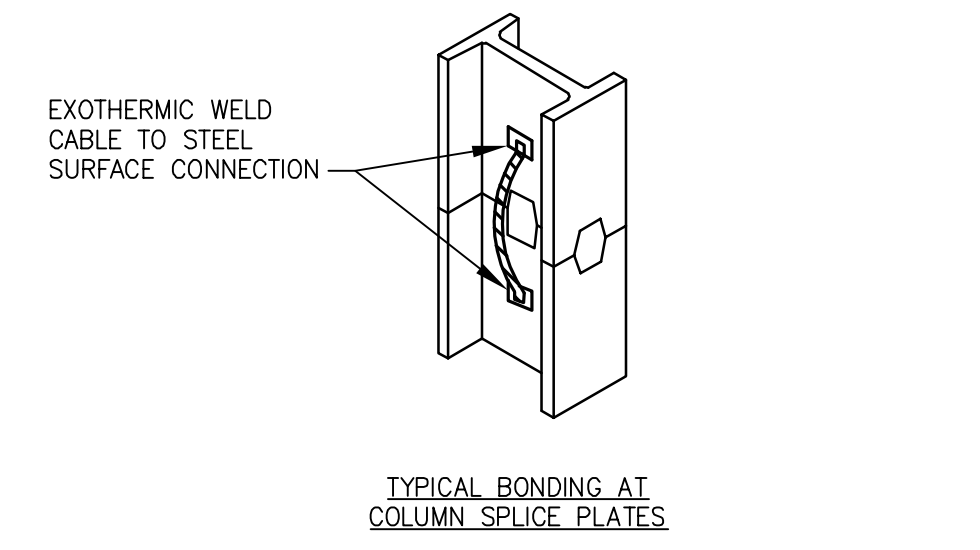
PATH: \\AECOM\NET\COMMON\PROJECTS\MASS\MEETINGHOUSE\04_E-002.DWG
 LAST UPDATE: Thursday, April 13, 2023 3:05:56 PM
 PLOT DATE: Thursday, April 13, 2023 3:06:46 PM



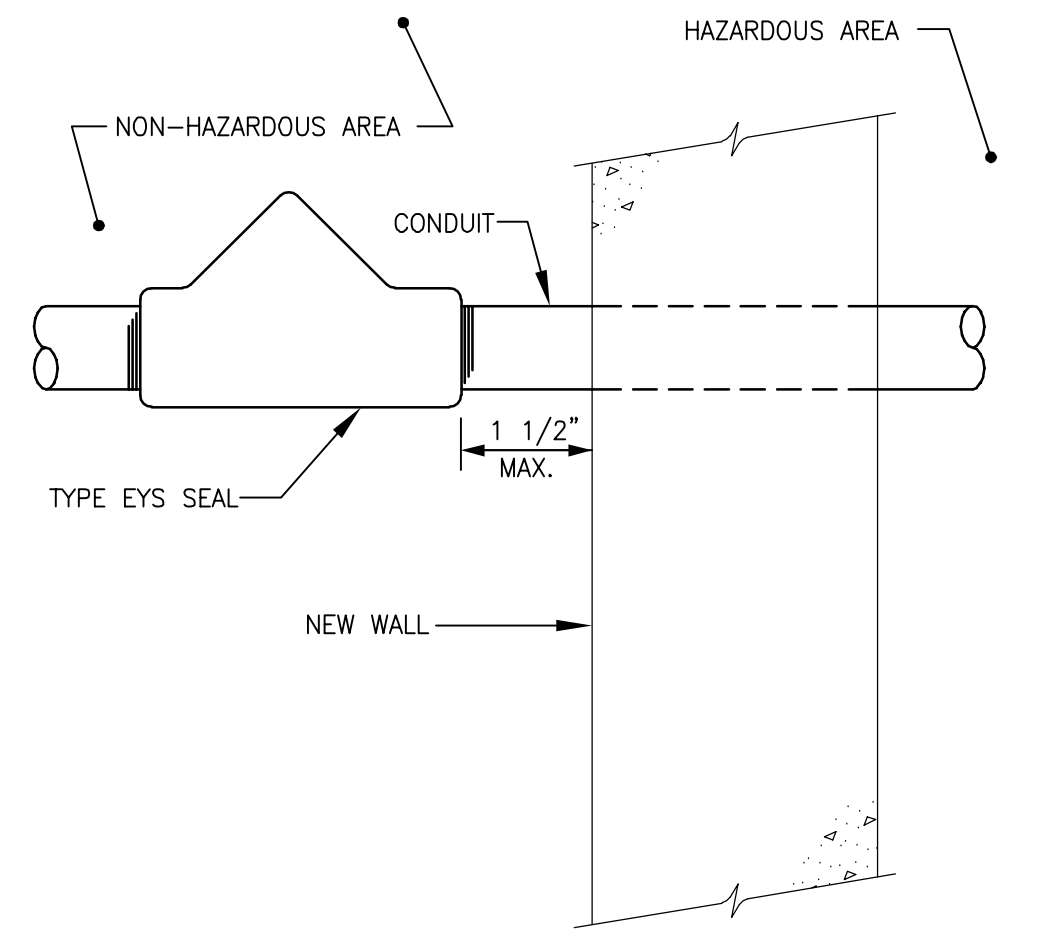
DUCTBANK SECTION
NTS



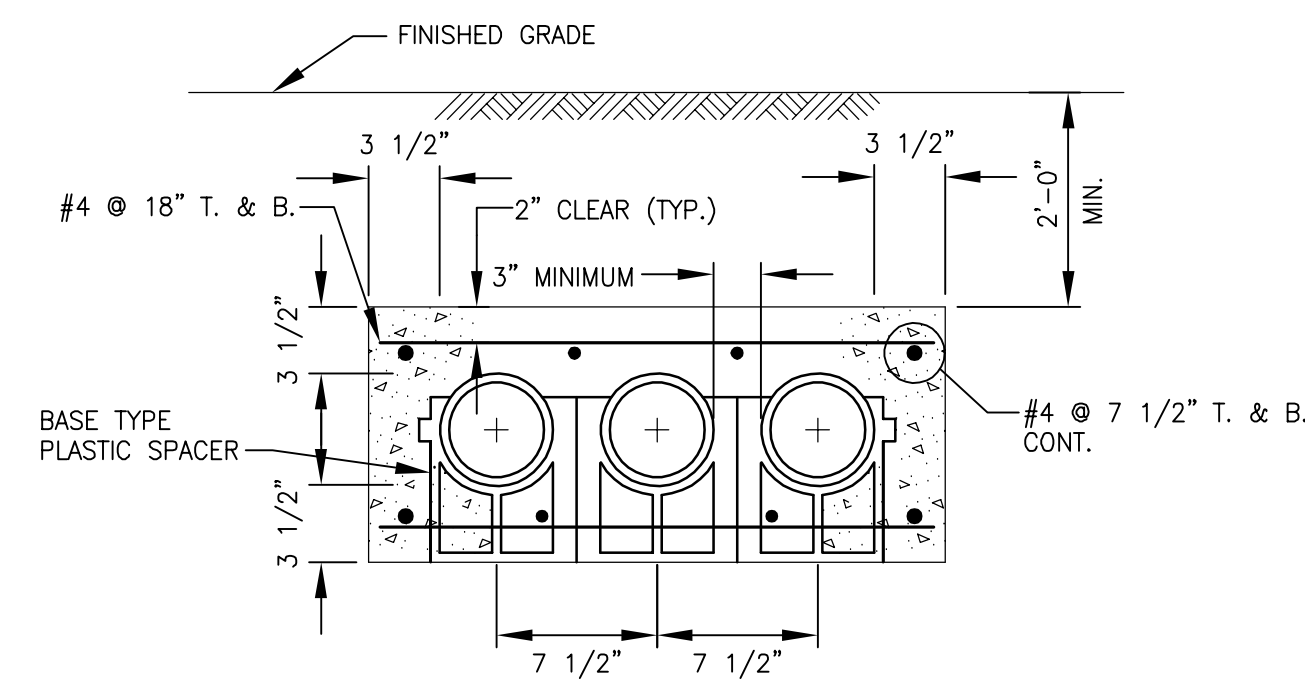
SINGLE CONDUIT DUCTBANK SECTION
NTS



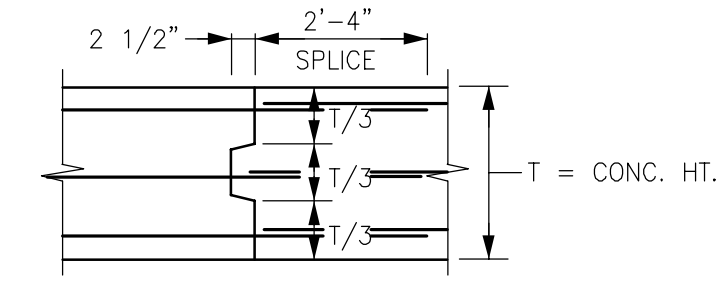
GROUNDING FOR STEEL COLUMN
NTS



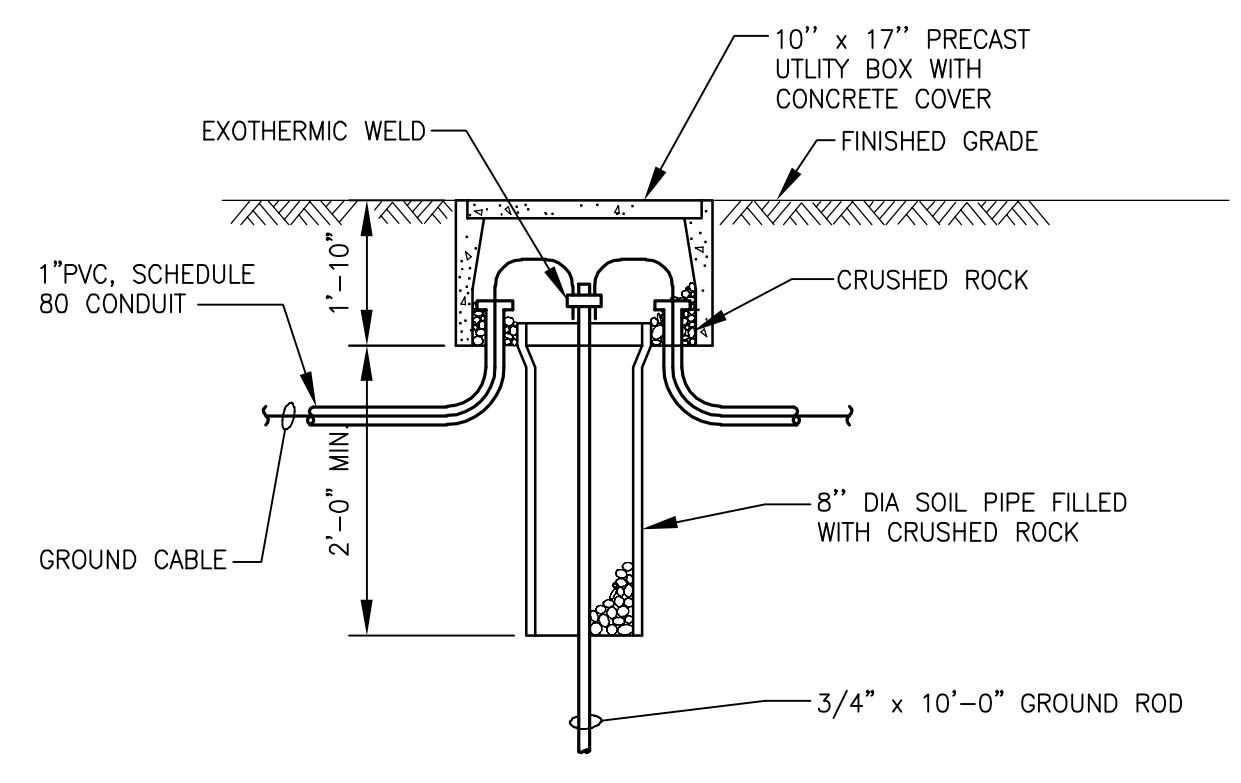
HAZARDOUS AREA ENTRANCE SEAL
NTS



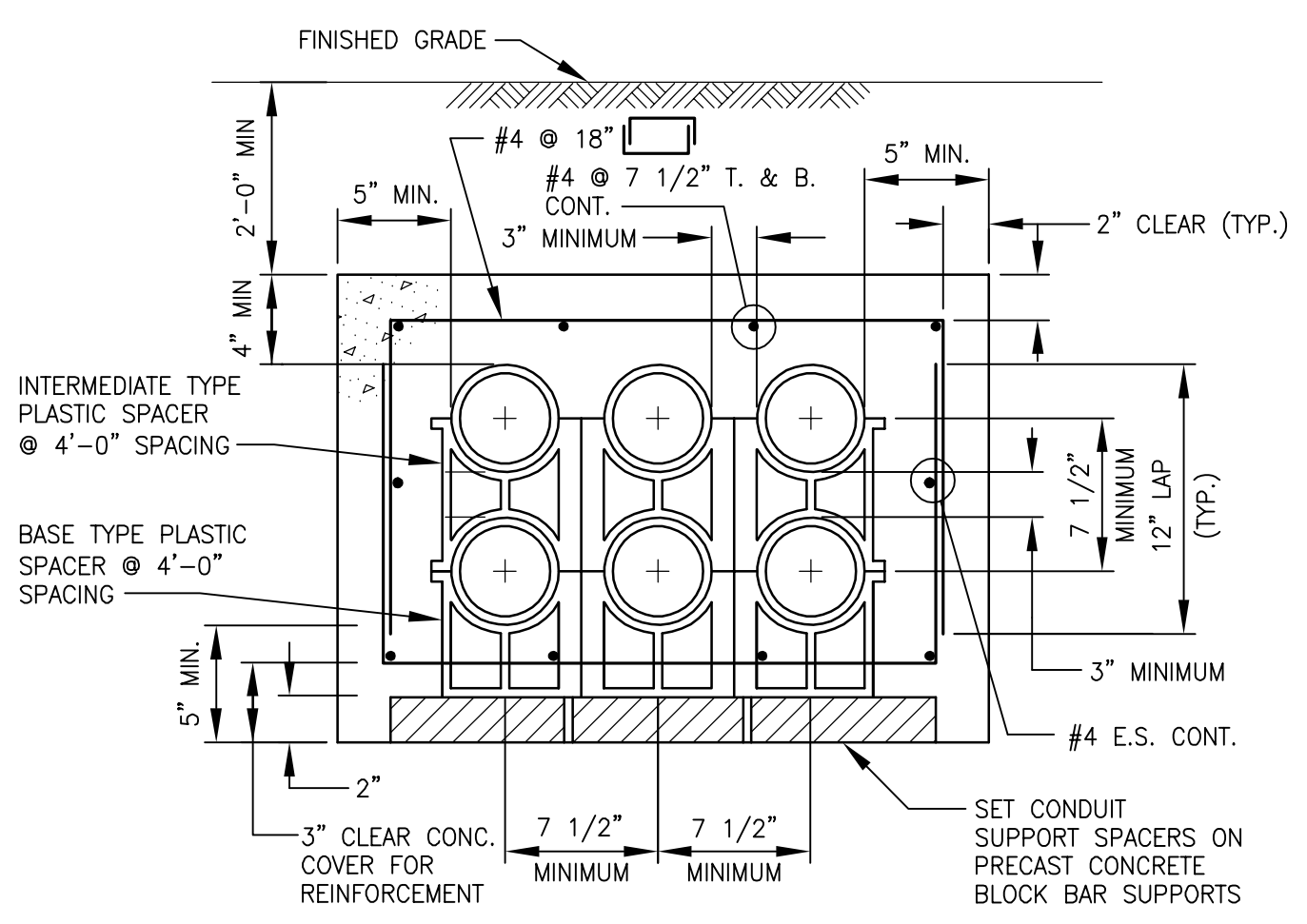
SINGLE LAYER DUCT BANK SECTION
NTS



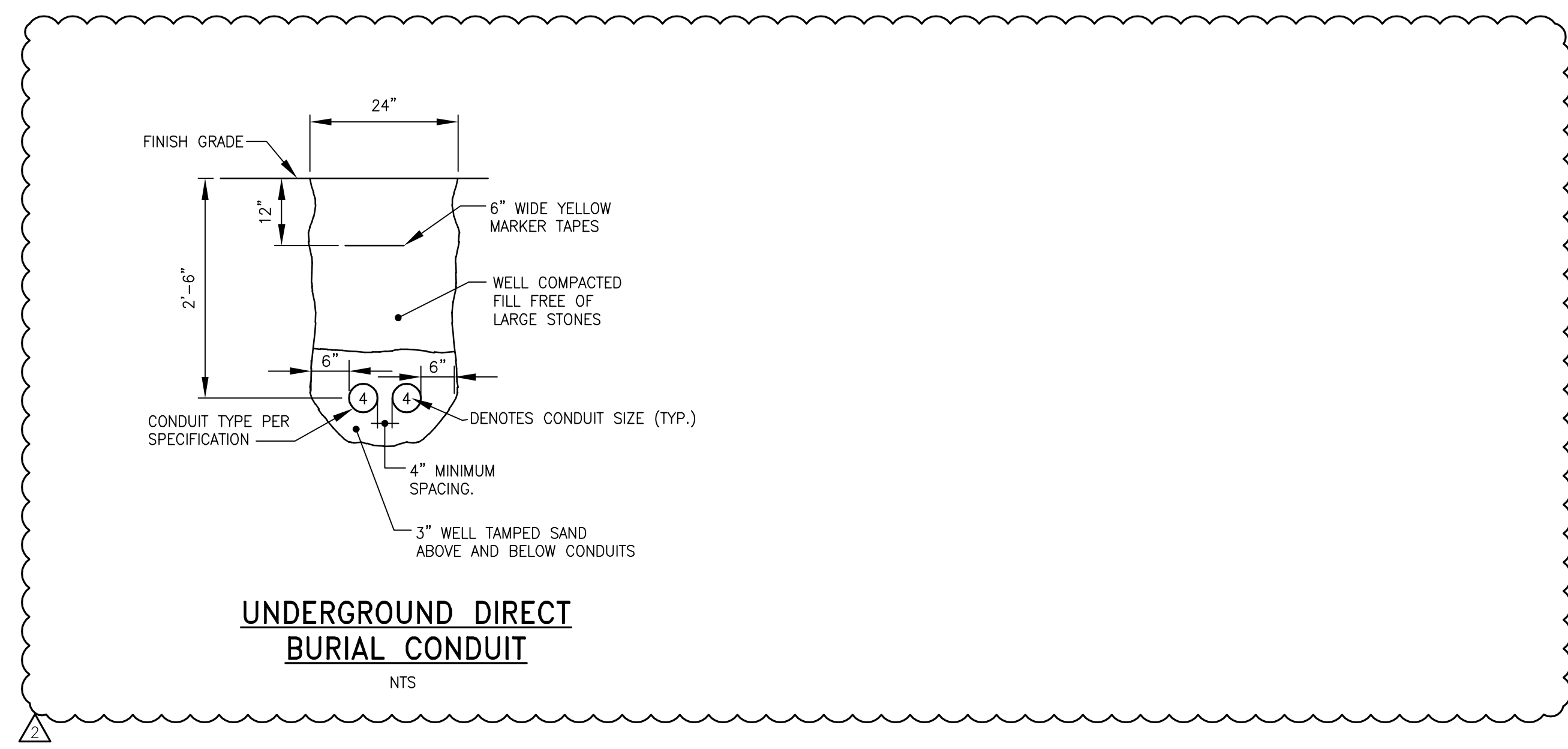
DUCTBANK CONSTRUCTION JOINT
NTS



GROUND ROD AND TEST WELL
N.T.S.



DUCT BANK SECTION UNDER ROADWAY AND PAVED AREA
NTS



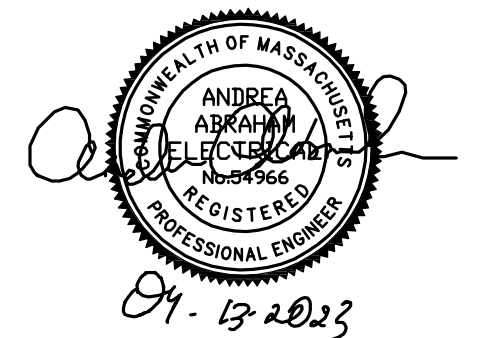
UNDERGROUND DIRECT BURIAL CONDUIT
NTS

PROJECT
MEETINGHOUSE POND
AREA COLLECTION
SYSTEM AND PUMPING
STATION
CONTRACT No. 2022-01
SRF No. 7150

OWNER
TOWN OF ORLEANS, MA
19 SCHOOL ROAD
ORLEANS, MA 02653
(508) 240-3700

ENGINEER
AECOM TECHNICAL SERVICES, INC.
9 JONATHAN BOURNE DRIVE
POCASSET, MA 02559
PHONE: (978) 905-2100
www.aecom.com

REGISTRATION



ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	4-13-2023	ADDENDUM NO.3
1	3-01-2023	ISSUE FOR BID

PROJECT NUMBER

60652634

Designed By:	A. ABRAHAM
Drawn By:	A. ABRAHAM
Dept Check:	Y. RIZK
Proj Check:	T. PARECE
Date:	MARCH 2023
Scale:	-

DISCIPLINE
ELECTRICAL
SHEET TITLE
ELECTRICAL DETAILS I

SHEET NUMBER

99 E-501

PATH: I:\AECOM\NET\COM\LESA\MERCH\HELMSFORD\USCHL1\DCS\PROJECTS\WTR\60652634_ORLEANSMEETINGHOUSE\SRF900_CAD_GIS\910_CAD\20-SHEETS\99 E-501.DWG
 LAST UPDATE: Thursday, April 13, 2023 2:45:50 PM
 PLOT DATE: Thursday, April 13, 2023 3:05:52 PM

April 18, 2023

ADDENDUM NO. 4
TO
DOCUMENTS AND SPECIFICATIONS
FOR
Meetinghouse Pond Area Collection System and Pumping Station
Contract No. 2022-01 and SRF No. 7150
Town of Orleans, MA



Department of Public Works & Natural Resources

This Addendum No. 4 forms a part of the Contract Documents and modifies the Bidding Documents dated March 2023 as noted below. Acknowledge receipt of this Addendum in the space provided in SECTION 00410, FORM OF GENERAL BID. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 8 pages and 13 pages of attachments for a total of 21 pages.

ATTACHMENTS

1. Orleans_MA-2022-01-Bid
Form_2023_0418_Contractor_v3

RESPONSE TO PLAN HOLDER QUESTIONS

None

CHANGES TO BE MADE TO THE CONTRACT SPECIFICATIONS

1. GENERAL
 - A. General Bid Opening – April 26, 2023 at 10:00 a.m.
2. SECTION 00100 – ADVERTISEMENT FOR BIDS
 - A. Page 00100-1, Paragraph 3, first subparagraph, delete the words, "...April 19, 2023..." and replace with the words, "...April 26, 2023..."
3. SECTION 00200 – INSTRUCTIONS TO BIDDERS
 - A. Page 00200-2, ARTICLE 1.01 RECEIPT AND OPENING OF BIDS, Paragraph B, delete the words, "...April 19, 2023..." and replace with the words, "...April 26, 2023..."

4. SECTION 00410 – FORM OF GENERAL BID

- A. PROPOSAL FORM ATTACHMENT, Delete “Orleans_MA-2022-01-Bid Form_2023_0308_Contractor_v2” in its entirety and replace with the attached new “Orleans_MA-2022-01-Bid Form_2023_0418_Contractor_v3” in both hard copy and Microsoft Excel format.

5. SECTION 01020 – ALLOWANCES

- A. Page 01020-2, ARTICLE 1.05 ALLOWANCES FOR PRODUCTS, Paragraph C in its entirety and replace with the following new paragraph:

- C. The scheduled allowances are as follows:

SCHEDULED ALLOWANCES

Item Number	Description	Amount	Bid Item
General			
1	Miscellaneous Restoration of Municipal Roadways	\$100,000	15J.
2	Dense Graded Gravel Roadways	\$50,000	15L.
3	Traffic Markings	\$100,000	15N.
4	Removal and Relaying and/or Replacement of Existing Gas Mains and Services	\$100,000	16C.
5	Removal and Relaying and/or Replacement of Existing Miscellaneous Utilities	\$100,000	16D.
Wastewater Treatment Facility			
6	SCADA System Integrator	\$20,000	22D.
7	SBR Transfer Pump	\$60,000	22E.
8	SBR Blower	\$90,000	22F.
9	SBR Aeration Grids	\$110,000	22G.
10	Variable Frequency Drives	\$150,000	22H.
Pumping Station No. 04			
11	Submersible Pumps	\$135,000	23B.
12	Variable Frequency Drives	\$150,000	23C.
13	Odor Control System	\$40,000	23D.
14	Standby Diesel Engine Drive Generator	\$150,000	23E.
15	Davit Crane	\$10,000	23F.
16	Electric Company Connection/Service Fee	\$50,000	23G.
17	Telephone Company Connection/Service Fee	\$10,000	23H.
18	Planting Operations	\$20,000	23I.

6. SECTION 01025 – MEASUREMENT AND PAYMENT

- A. Page 01025-1, Article 1.04 – BASIS OF MEASUREMENT AND PAYMENT – SRF ELIGIBLE ITEMS , delete “ITEM 22 – PROPRIETARY EQUIPMENT ALLOWANCES” and replace with “ITEM 22 – WASTEWATER TREATMENT FACILITY’.
- B. Page 01025-3, Article 1.03 – PAYMENT ITEMS, Paragraph A, delete “22 – Proprietary Equipment Allowances” in its entirety and replace with the following: “22 – Wastewater Treatment Facility”.
- C. Page 01025-16, Article 1.04 – BASIS OF MEASUREMENT AND PAYMENT – SRF ELIGIBLE ITEMS, delete ITEM 22 - PROPRIETARY EQUIPMENT ALLOWANCES in its entirety and replace with the following new Item:

ITEM 22 – WASTEWATER TREATMENT FACILITY

- A. General. The prices bid under each division of the Bid Item shall be considered as fair compensation for all labor, equipment, tools, and materials necessary to complete the Work, as specified, for the installations of equipment at the Wastewater Treatment Facility as shown on the Contract Drawings. This shall include all Work performed by the Contractor, Subcontractor(s) or Contractor’s Consultant(s) for the work performed by the SCADA Integrator and installation of SBR Transfer Pump; SBR Blower; SBR Aeration Grids; and Variable Frequency Drives; coordination with existing Wastewater Treatment Facility operations; start-up and testing; and all other incidental Work relative thereto.
- B. Measurement
 - 1. Measurement shall be made based on a percentage of the total lump sum amount bid under each subdivision of this Bid Item, as approved by the Engineer.
 - 2. Measurement for SCADA Integrator; SBR Transfers Pump; SBR Blower; SBR Aeration Grids; and Variable Frequency Drives shall be included in the applicable subdivision of this Bid Item:
 - a. SBR Integrator. Refer to SECTION 01020, ALLOWANCES
 - b. SBR Transfer Pump. Refer to SECTION 01020, ALLOWANCES
 - c. SBR Blower. Refer to SECTION 01020, ALLOWANCES
 - d. SBR Aeration Grids. Refer to SECTION 01020, ALLOWANCES
 - e. Variable Frequency Drives. Refer to SECTION 01020, ALLOWANCES
- C. Payment.
 - 1. Payment for installation of the SBR Transfer Pump; SBR Blower; SBR Aeration Grids; and Variable Frequency Drives listed in DOCUMENT 00410, FORM FOR GENERAL BID shall be made at the lump sum price bid under each subdivision of this Bid Item. Payment for shall be made as follows: An amount of 60 percent of applicable division of this Bid Item (exclusive of normal contract retainage) shall be made when each system is completely installed. The remaining 40 percent (exclusive of normal contract retainage) shall be made following acceptance of each system by the Owner, including startup and testing, training of Owner personnel, delivery and approval of Operation and Maintenance Manual(s) and receipt by Owner of all specified spare parts.
 - 2. Payment for SCADA Integrator, SBR Transfer Pump, SBR Blower, SBR Aeration Grids, and Variable Frequency Drives shall be based upon actual costs as approved by the Owner. If the actual costs exceed the allowance, the difference will be paid by the Owner. Should the actual cost be less than the allowance, the Owner will retain the difference. Refer to SECTION 01020, ALLOWANCES.
- D. Page 01025-17, Article 1.04 – BASIS OF MEASUREMENT AND PAYMENT – SRF ELIGIBLE ITEMS, delete ITEM 23 – PUMPING STATION it its entirety and replace with the following new Item:

ITEM 23 - PUMPING STATION

- A. General. The prices bid under each division of the Bid Item shall be considered as fair compensation for all labor, equipment, tools, and materials necessary to complete the Work, as specified, located within the limit of Work shown for the construction of Pumping Station 4 shown on the Contract Drawings. This shall include all Work performed by the Contractor, Subcontractor(s) or Contractor’s Consultant(s) for the construction of a

complete pumping station including but not limited to, wetwell, valve vault, piping, valves, flow measurement device, odor control system, control pedestal, emergency generator, drainage pipes, catch basins, and leaching basins, planting operations, restoration, utility company coordination/fees, start-up and testing, and all other incidental Work relative thereto.

In addition to the above, the Work shall include the following:

1. Pumping Station No. 4
 - a. Coordination of Work to maintain continuous operation of the existing sanitary system, pumping stations and treatment facility and leaching field.
 - b. Upon completion and acceptance by the Owner of the new collection system, demolish and legally dispose of the existing on-site sewage disposal system.
 - c. Connection of existing sanitary service into the new collection system upon acceptance by the Owner of the new collection system.
- B. Measurement
 1. Measurement for the pumping station constructed shall be made based on a percentage of the total lump sum amount bid under each subdivision of this Bid Item, as approved by the Engineer.
 2. Measurement for Submersible Pumps; Variable Frequency Drives; Odor Control System, Standby Diesel Engine Drive Generator; and Davit Crane allowance(s) shall be included in the applicable subdivision of this Bid Item. Measurement for utility charge allowance(s) shall be based on the actual paid invoices by the Contractor to each utility company and/or nursery. The following utility and nursery allowance(s) shall be included in the applicable subdivision of this Bid Item:
 - a. Submersible Pumps. Refer to SECTION 01020, ALLOWANCES
 - b. Variable Frequency Drives. Refer to SECTION 01020, ALLOWANCES
 - c. Odor Control System. Refer to SECTION 01020, ALLOWANCES
 - d. Standby Diesel Engine Drive Generator. Refer to SECTION 01020, ALLOWANCES
 - e. Davit Crane. Refer to SECTION 01020, ALLOWANCES
 - f. Electric Company Connection/Service Fee. Refer to SECTION 01020, ALLOWANCES
 - g. Telephone Company Connection/Service Fee. Refer to SECTION 01020, ALLOWANCES
 - h. Planting Operations. Refer to SECTION 01020, ALLOWANCES
- C. Payment.
 1. Payment for the pumping station constructed listed in DOCUMENT 00410, FORM FOR GENERAL BID shall be made at the lump sum price bid under each subdivision of this Bid Item. Payment for the pumping station constructed shall be made as follows: An amount of 60 percent of applicable division of this Bid Item (exclusive of normal contract retainage) shall be made when the pumping station is completely constructed which includes all site and utilities Work. The remaining 40 percent (exclusive of normal contract retainage) shall be made following acceptance of the pumping station by the Owner, including startup and testing, training of Owner personnel, delivery and approval of Operation and Maintenance Manual(s) and receipt by Owner of all specified spare parts.
 2. Payment for submersible pumps, variable frequency drives, odor control system, standby diesel engine drive generator, and davit crane shall be made at the lump sum price bid under each subdivision of this Bid Item. If the actual costs exceed the allowance, the difference will be paid by the Owner. Should the actual cost be less than the allowance, the Owner will retain the difference.
 3. Payment for utility company charges shall be made based on the actual charges paid to each utility by the Contractor. An amount of 100 percent of each paid invoice (no retainage and not markup) will be made to the Contractor based on paid invoice receipts.

4. Payment for planting operations charges shall be made based on the actual charges paid to each landscaper and/or nursery by the Contractor. An amount of 100 percent of each paid invoice (no retainage and not markup) will be made to the Contractor based on paid invoice receipts.
 5. No other payment Item will be used for compensation of Work performed within the limit of work line shown on the Contract Drawings for each pump station.
- E. Page 01025-18, Article 1.04 – BASIS OF MEASUREMENT AND PAYMENT – SRF ELIGIBLE ITEMS, ITEM 25 – REPLACEMENT OF BAXTER LANE AND LUCY’S LANE WATER MAINS, Paragraph B, subparagraph 5., delete subparagraphs b. and c. in their entirety.
- F. Page 01025-18, Article 1.04 – BASIS OF MEASUREMENT AND PAYMENT – SRF ELIGIBLE ITEMS, ITEM 25 – REPLACEMENT OF BAXTER LANE AND LUCY’S LANE WATER MAINS, Paragraph C, subparagraph 5., delete subparagraphs b. and c. in their entirety.
7. SECTION 01030 – SPECIAL REQUIREMENTS
- A. Page 01030-5, ARTICLE 1.11 SCOPE OF WORK AND SEQUENCE OF CONSTRUCTION, Paragraph E.9, subparagraph e. - Roadway Reconstruction Summary, delete the table in its entirety and replace with the following new table:

Town Roadways				
Location	Temporary and Permanent Trench Pavement	Full Width Overlay Pavement	Full Width Mill and Overlay Pavement	Full Width Dense Graded Gravel
Barley Neck Road– Main Street to Pochet Road	X		X	
Barley Neck Road – Remainder	X	X		
Bayberry Way	X	X		
Baxter Lane	X	X		
Beach Road	X		X	
Cedar Way	X	X		
Cheney Road	X	X		
Cole Place				X
Deerwood Lane	X	X		
Gesner Road	X	X		
Great Oak Road	X	X		
Grist Road	X	X		
Finlay Road	X	X		
High Tide Lane	X	X		
Karen Way	X	X		
Lake Farm Lane	X	X		
Larboard Lane	X		X	
Lewis Road	X	X		

Town Roadways				
Location	Temporary and Permanent Trench Pavement	Full Width Overlay Pavement	Full Width Mill and Overlay Pavement	Full Width Dense Graded Gravel
Linden Lane	X	X		
Loomis Lane				X
Lucy Lane				X
Manito Road	X	X		
Meetinghouse Road	X	X		
Mill Lane	X	X		
Minister Prim				X
Monument Road	X		X	
Natural Drive	X	X		
Nauset Farms Way	X	X		
Oak Lane	X	X		
Off Main Street	X		X	
Packet Landing	X	X		
Pine Ridge Lane	X	X		
Pochet Road	X	X		
Pond Road	X		X	
Pond View Road	X	X		
Reverend Treat Way	X	X		
River Road	X	X		
School Road	X		X	
Uncle Harvey's Lane	X	X		
Uncle Vick's Way	X	X		
Windy Hill Lane	X	X		

CHANGES TO BE MADE TO THE CONTRACT DRAWINGS

1. DRAWING 04 C-156
 - A. Plan, Move Fire Hydrant from Station 5+25 to approximately Station 3+00
 - B. Plan, Add a Fire Hydrant at approximately Station 7+50.
2. DRAWING 04 C-157
 - A. Plan, Add 4-inch Gate Valve at approximately Station 2+35.

CHANGES TO BE MADE TO THE CONTRACT ATTACHMENTS

None

END OF ADDENDUM NO. 4

This page intentionally left blank.

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
------	-------------	-----------------	----------	----------------

SRF ELIGIBLE BID ITEMS				
-------------------------------	--	--	--	--

1	For Mobilization/Demobilization for Items 2 through 23 inclusive, as specified (maximum of five (5) percent of Items 2 through 23 inclusive bid), the sum of		1	\$ -
		l.s.		
2A.	For furnishing and installing 1-1/4-inch through 3-inch, inclusive, Polyvinyl Chloride/High Density Polyethylene Low Pressure Sewer Pipe and Associated Fittings, All Depths, as specified, the sum of		20,750	\$ -
		per l.f.		
2B.	For furnishing and installing 8-inch Polyvinyl Chloride Sewer Pipe and Associated Fittings, Less Than 10-feet in Depth, as specified, the sum of		8,370	\$ -
		per l.f.		
2C.	For furnishing and installing 8-inch Polyvinyl Chloride Sewer Pipe and Associated Fittings, Greater Than 10-feet in Depth, as specified, the sum of		3,780	\$ -
		per l.f.		
2D.	10-inch Polyvinyl Chloride Sewer Pipe and Associated Fittings - Not Used			
2E.	For furnishing and installing 12-inch Polyvinyl Chloride Sewer Pipe and Associated Fittings, All Depths, as specified, the sum of		4,680	\$ -
		per l.f.		
2F.	For furnishing and installing 18-inch Polyvinyl Chloride Sewer Pipe and Associated Fittings, All Depths, as specified, the sum of		1,920	\$ -
		per l.f.		
2G.	For furnishing and installing 8-inch PVC Force Main and Associated Fittings, All Depths, as specified, the sum of		7,460	\$ -
		per l.f.		
2H.	For furnishing and installing 1-1/4-inch Polyvinyl Chloride Low-Pressure Sewer Service Connections and Associated Fittings from main line to property line, All Depths, as specified, the sum of		4,180	\$ -
		per l.f.		

Company's Name	Date
----------------	------

Company's Address	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
-------------------	--

Item	Description	Unit of Measure	Quantity	Extended Total
2I.	For furnishing and installing 6-inch Polyvinyl Chloride Service Connections and Associated Fittings from main line to property line as specified, the sum of			
		per l.f.	4,260	\$ -
2J.	For furnishing and installing LPS Wyes, All Depths, as specified, the sum of			
		per each	200	\$ -
2K.	For furnishing and installing 8-inch Polyvinyl Chloride Sewer Wyes, All Depths, as specified, the sum of			
		per each	120	\$ -
2L.	10-inch Polyvinyl Chloride Sewer Wyes - Not Used			
2M.	For furnishing and installing 12-inch Polyvinyl Chloride Sewer Wyes, All Depths, as specified, the sum of			
		per each	50	\$ -
2N.	For furnishing and installing 18-inch Polyvinyl Chloride Sewer Wyes, All Depths, as specified, the sum of			
		per each	10	\$ -
2O.	For furnishing and installing Low Pressure Sewer Main Line Valves, All Sizes and Depths, as specified, the sum of			
		per each	50	\$ -

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
3A.	For furnishing and installing 4-foot Diameter Precast Concrete Sewer Manholes, Less Than 10 feet in Depth, the sum of		52	\$ -
		per each		
3B.	For furnishing and installing 4-foot Diameter Precast Concrete Sewer Manholes, Greater Than 10 feet in Depth, the sum of		41	\$ -
		per each		
3C.	For furnishing and installing 5-foot Diameter Precast Concrete Sewer Manholes, All Depths, as specified, the sum of		11	\$ -
		per each		
3D.	6-foot Diameter Precast Concrete Sewer Manholes - Not Used			
3E.	For furnishing and installing Low Pressure Sewer Terminal Flushing Connections, All Depths, as specified, the sum of		29	\$ -
		per each		
3F.	For furnishing and installing Low Pressure Sewer In-Line Flushing Connections, All Depths, as specified, the sum of		21	\$ -
		per each		
3G.	For furnishing and installing 5-foot Diameter Precast Concrete Air Release Stations, All Depths, as specified, the sum of		17	\$ -
		per each		
3H.	For furnishing and installing Force Main Sewer In-Line Flushing Connections, All Depths, as specified, the sum of		2	\$ -
		per each		
4A.	For furnishing and installing Manhole Frames and Covers, as specified, the sum of		88	\$ -
		per each		
4B.	For furnishing and installing Watertight Manhole Frames and Covers, as specified, the sum of		16	\$ -
		per each		
4C.	For furnishing and installing 36" Manhole Frames and Covers, as specified, the sum of		17	\$ -
		per each		

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
5	For furnishing and installing Interior Manhole Drop Connections, as specified, the sum of			
		per v.f.	30	\$ -
6	For furnishing and installing chimneys, as specified, the sum of			
		per v.f.	700	\$ -
7	For furnishing and placing miscellaneous cement concrete, as specified, the sum of			
		per c.y.	560	\$ -
8	For Rock and Boulder Excavation including Replacement with Suitable Fill Material, as specified, the sum of *			
		per c.y.	830	\$ -
	* Minimum Bid = \$80/c.y.			
9A.	For Replacement of Unsuitable Material Below Trench Grade and/or Subgrade, as specified, the sum of			
		per c.y.	930	\$ -
9B.	For Replacement of Unsuitable Material Above Trench Grade, as specified, the sum of			
		per c.y.	1,850	\$ -
10	For Experimental Excavation, as specified, the sum of			
		per c.y.	560	\$ -
11	Fill for embankments – Not Used			
12	Sheeting and/or shoring ordered left in place – Not Used			
13	For performing Soil Compaction Tests, as specified, the sum of			
		per each	190	\$ -

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
14	For furnishing and placing Road Gravel Material, as specified, the sum of			
		per c.y.	12,200	\$ -
15A.	Full Depth Reconstruction - Not Used			
15B.	For furnishing and placing Temporary Bituminous Concrete Trench Pavement in State Roadways (Base Course), as specified, the sum of *			
		per l.f.	210	\$ -
	* Minimum Bid = \$80/ton			
15C.	For furnishing and placing Permanent Bituminous Concrete Trench Width Pavement in State Roadways (Base Course), as specified, the sum of *			
		per l.f.	210	\$ -
	* Minimum Bid = \$80/ton			
15D.	Placing Permanent Bituminous Concrete Full Width Pavement in State Roadways (Top Course) - Not Used			
15E.	Milling and Placing Permanent Bituminous Concrete Full Width Pavement in State Roadways (Top Course) - Not Used			
15F.	For furnishing and placing Temporary Bituminous Concrete Trench Pavement in Town Roadways (Base Course), as specified, the sum of *			
		per l.f.	57,780	\$ -
15G.	For furnishing and placing Permanent Bituminous Concrete Trench Width Pavement in Town Roadways (Base Course), as specified, the sum of *			
		per l.f.	57,780	\$ -
15H.	For furnishing and placing Permanent Bituminous Concrete Full Width Pavement in Town Roadways (Top Course), as specified, the sum of *			
		per ton	2,470	\$ -
	* Minimum Bid = \$80/ton			

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
15I.	For milling and furnishing and placing Permanent Bituminous Concrete Full Width Pavement in Town Roadways (Top Course), as specified, the sum of *			
		per ton	1,620	\$ -
	* Minimum Bid = \$80/ton			
15J.	For Miscellaneous Restoration of Municipal Roadways, as specified, the sum of *			
	<u>One Hundred Thousand Dollars and No Cents</u>		1	\$ 100,000.00
	\$ 100,000.00	Allowance		
15K.	For furnishing and placing Miscellaneous Bituminous Concrete Pavement, as specified, the sum of *			
		per ton	610	\$ -
	* Minimum Bid = \$80/ton			
15L.	For furnishing and placing Dense Graded Gravel, as specified, the sum of			
	<u>Fifty Thousand Dollars and No Cents</u>		1	\$ 50,000.00
	\$ 50,000.00	Allowance		
15M.	Vehicle Loop Detectors - Not Used			
15N.	For repainting of Traffic Markings - Lines, Symbols and Wording, as specified, the sum of			
	<u>One Hundred Thousand Dollars and No Cents</u>		1	\$ 100,000.00
	\$ 100,000.00	Allowance		
15O.	For tracer wire, as specified, the sum of			
		per l.f.	55,050	\$ -
16A.	For removal and relaying and/or replacement of Existing Water Mains and services, as specified, the sum of			
		per inch-foot	5,000	\$ -
16B.	For removal and relaying and/or replacement of Existing Storm Drains, as specified, the sum of			
		per inch-foot	40,000	\$ -

Company's Name	Date
	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
16C.	For removal and relaying and/or replacement of Existing Gas Mains and services, as specified, the sum of			
	One Hundred Thousand Dollars and No Cents		1	\$ 100,000.00
	\$ 100,000.00	Allowance		
16D.	For removal and relaying and/or replacement of Existing Miscellaneous Utilities, as specified, the sum of			
	One Hundred Thousand Dollars and No Cents		1	\$ 100,000.00
	\$ 100,000.00	Allowance		
16E.	For furnishing, installing and removal of 6-inch Water Main Line Stops, as specified, the sum of			
		per each	10	\$ -
16F.	For furnishing, installing and removal of 8-inch Water Main Line Stops, as specified, the sum of			
		per each	10	\$ -
17	Uniformed Traffic Police Officers - Paid by Owner			
18A.	For furnishing, installing, and removing Engineer's Field Office, as specified, the sum of			
		per l.s.	1	\$ -
18B.	For maintaining Engineer's Field Office, as specified, the sum of			
		per month	30	\$ -
19	For furnishing, installing, maintaining and removing Environmental Protection, as specified, the sum of			
		per l.f.	15,000	\$ -
20	For furnishing, installing, maintaining and removing Trench Dewatering Equipment, as specified, the sum of			
		per l.f.	4,550	\$ -
21	Temporary By-pass Pumping - Not Used			

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
22A.	For installing SBR Transfer Pump and Associated Variable Frequency Drive, as specified, the sum of			
		per l.s.	1	\$ -
22B.	For installing SBR Blower and Associated Variable Frequency Drive, as specified, the sum of			
		per l.s.	1	\$ -
22C.	For installing SBR Aeration Grids, as specified, the sum of			
		per l.s.	1	\$ -
22D.	For SCADA System Integrator, as specified, the sum of			
	Twenty Thousand Dollars and No Cents			
	\$ 20,000.00	Allowance	1	\$ 20,000.00
22E.	For furnishing SBR Transfer Pump, as specified, the sum of			
	Sixty Thousand Dollars and No Cents			
	\$ 60,000.00	Allowance	1	\$ 60,000.00
22F.	For furnishing SBR Blower, as specified, the sum of			
	Ninety Thousand Dollars and No Cents			
	\$ 90,000.00	Allowance	1	\$ 90,000.00
22G.	For furnishing SBR Aeration Grids, as specified, the sum of			
	One Hundred Ten Thousand Dollars and No Cents			
	\$ 110,000.00	Allowance	1	\$ 110,000.00
22.H	For furnishing Variable Frequency Drives for SBR Transfer Pump and SBR Blower, as specified, the sum of			
	One Hundred Fifty Thousand Dollars and No Cents			
	\$ 150,000.00	Allowance	1	\$ 150,000.00

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
23A.	For furnishing and installing Pumping Station No. 4, as specified, the sum of			
		per l.s.	1	\$ -
23B.	For furnishing Submersible Pumps, as specified, the sum of			
	<u>One Hundred Thirty Five Thousand Dollars and No Cents</u>		1	\$ 135,000.00
	\$ 135,000.00	Allowance		
23C.	For furnishing Variable Frequency Drives for Submersible Pumps, as specified, the sum of			
	<u>One Hundred Fifty Thousand Dollars and No Cents</u>		1	\$ 150,000.00
	\$ 150,000.00	Allowance		
23D.	For furnishing Odor Control System, as specified, the sum of			
	<u>Forty Thousand Dollars and No Cents</u>		1	\$ 40,000.00
	\$ 40,000.00	Allowance		
23E.	For furnishing Standby Diesel Engine Driven Generator Set, as specified, the sum of			
	<u>One Hundred Fifty Thousand Dollars and No Cents</u>		1	\$ 150,000.00
	\$ 150,000.00	Allowance		
23F.	For Davit Crane, as specified, the sum of			
	<u>Ten Thousand Dollars and No Cents</u>		1	\$ 10,000.00
	\$ 10,000.00	Allowance		
23G.	For Electric Company Connection/Service Fee, as specified, the sum of			
	<u>Fifty Thousand Dollars and No Cents</u>		1	\$ 50,000.00
	\$ 50,000.00	Allowance		
23H.	For Telephone Company Connection/Service Fee, as specified, the sum of			
	<u>Ten Thousand Dollars and No Cents</u>		1	\$ 10,000.00
	\$ 10,000.00	Allowance		
23I.	For Planting Operations, as specified, the sum of			
	<u>Twenty Thousand Dollars and No Cents</u>		1	\$ 20,000.00
	\$ 20,000.00	Allowance		
TOTAL AMOUNT OF BID BASED ON ENGINEER'S ESTIMATE OF QUANTITIES THE SUM OF (Bid Items 1 through 23, inclusive)				
				\$ -

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
Item 24 - Replacement of Water Services				
24A.	For Mobilization/Demobilization for Items 24B through 24E inclusive, as specified (maximum of five (5) percent of Item 24B through 24E bid), the sum of			
		l.s.	1	\$ -
24B.	For furnishing and installing Polyvinyl Chloride Water Services and Associated Fittings from water main to property line as specified, the sum of			
		per l.f.	3,750	\$ -
24C.	For furnishing and placing Road Gravel Material, as specified, the sum of			
		per c.y.	670	\$ -
24D.	For furnishing and placing Temporary Bituminous Concrete Trench Pavement, as specified, the sum of *			
		per ton	190	\$ -
	* Minimum Bid = \$80/ton			
24E.	For furnishing and placing Permanent Bituminous Concrete Trench Pavement, as specified, the sum of *			
		per ton	310	\$ -
	* Minimum Bid = \$80/ton			
Item 24 - Replacement of Water Services (Bid Items 24A. through 24E., inclusive)				\$ -

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
------	-------------	-----------------	----------	----------------

Item 25 - Replacement of Baxter Lane and Lucy's Lane Water Mains				
---	--	--	--	--

25A.	For Mobilization/Demobilization for Items 25B through 25I inclusive, as specified (maximum of five (5) percent of Item 25B through Item 25I bid), the sum of		1	\$ -
		l.s.		
25B.	For furnishing and installing 8-inch DI water main and Associated Fittings, as specified, the sum of		1,600	\$ -
		per l.f.		
25C.	For furnishing and installing 4-inch DI water main and Associated Fittings, as specified, the sum of		230	\$ -
		per l.f.		
25D.	For furnishing and installing Polyvinyl Chloride Water Services and Associated Fittings from water main to property line as specified, the sum of		400	\$ -
		per l.f.		
25E.	For furnishing and installing 4-inch Gate Valves and Boxes, as specified, the sum of		1	\$ -
		per each		
25F.	For furnishing and installing 6-inch Gate Valves and Boxes, as specified, the sum of		3	\$ -
		per each		
25G.	For furnishing and installing 8-inch Gate Valves and Boxes, as specified, the sum of		10	\$ -
		per each		
25H.	For furnishing and installing Fire Hydrants, as specified, the sum of		3	\$ -
		per each		
25I.	For furnishing and placing Road Gravel Material, as specified, the sum of		300	\$ -
		per c.y.		

Item 25 - Replacement of Baxter Lane and Lucy's Lane Water Mains (Bid Items 25A. through 25I., inclusive)	\$ -
--	-------------

Company's Name	Date
----------------	------

Company's Address	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
-------------------	--

Item	Description	Unit of Measure	Quantity	Extended Total
Item 26 - Water Quality Improvements				
26A.	For Mobilization/Demobilization for Items 26B through 26D inclusive, as specified (maximum of five (5) percent of Item 26B through Item 26D bid), the sum of		1	\$ -
		l.s.		
26B.	For Pond Road Water Quality Improvements, as specified, the sum of		1	\$ -
		per l.s.		
26C.	For Monument Road Water Quality Improvements, as specified, the sum of		1	\$ -
		per l.s.		
26D.	For Water Quality Improvements at Pond Road and Monument Road, as specified, the sum of		1	\$ -
		per l.s.		
Item 26 - Water Quality Improvements (Bid Items 26A. through 26D., inclusive)				\$ -

Company's Name	Date
----------------	------

Company's Address	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
-------------------	--

Item	Description	Unit of Measure	Quantity	Extended Total
------	-------------	-----------------	----------	----------------

BASIS OF AWARD

BASIS OF AWARD = TOTAL AMOUNT SRF ELIGIBLE BID ITEMS BASED ON ENGINEER'S ESTIMATE OF QUANTITIES (Bid Items 1 through 26, inclusive)

\$ -

April 25, 2023

ADDENDUM NO. 5
TO
DOCUMENTS AND SPECIFICATIONS
FOR
Meetinghouse Pond Area Collection System and Pumping Station
Contract No. 2022-01 and SRF No. 7150
Town of Orleans, MA



Department of Public Works & Natural Resources

This Addendum No. 5 forms a part of the Contract Documents and modifies the Bidding Documents dated March 2023 as noted below. Acknowledge receipt of this Addendum in the space provided in SECTION 00410, FORM OF GENERAL BID. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 4 pages and 13 pages of attachments for a total of 17 pages.

ATTACHMENTS

1. Orleans_MA-2022-01-Bid Form_2023_0425_Contractor_v4
(PDF and Excel)

RESPONSE TO PLAN HOLDER QUESTIONS

Responses to these questions do not modify the bidding and contract documents.

1. Suppliers have informed that brass fittings are not recommended for sewer applications. Will you provide clarification on what can be provided for HDPE Low Pressure Sewer fittings?
 - A. Requested information is included in this Addendum 5.
2. On the latest bid form, trench pavement item 15B, 15C, 15F, & 15G are measured by the linear foot. However, the bid items also have a minimum bid price of \$80 per ton. Can you please clarify if the units should be per linear foot or by the ton?
 - A. Requested information is included in this Addendum 5.
3. Will you provide an updated plan holders list?
 - A. Yes, this plan holders list is included in the table below:

Plan Holder Company
AECOM
Albanese D&S Inc.

AMP Electrical, Inc.
Ardent Group, Inc.
Atlantic Fluid Technology
BidPrime, Inc
CC Construction
Chapman Construction Group, Inc.
Construct Connect
Dig It Construction
Dodge Construction Network
E.J. Prescott, Inc.
Fall River Electrical Associates
Ferguson Waterworks
G&H Heating & Cooling
Lawrence-Lynch Corp.
MassDEP, SRF
North America Procurement Council (NAPC)
Projectdog, Inc.
Revoli Construction Co., Inc.
RJV Construction Corporation
Robert B. Our Co., Inc.
Tech Sales NE
Town of Orleans
United Concrete Products, Inc.

CHANGES TO BE MADE TO THE CONTRACT SPECIFICATIONS

1. GENERAL
 - A. General Bid Opening – April 28, 2023 at 10:00 a.m.
2. SECTION 00100 – ADVERTISEMENT FOR BIDS
 - A. Page 00100-1, Paragraph 3, first subparagraph, delete the words, “...April 26, 2023...” and replace with the words, “...April 28, 2023...”.
3. SECTION 00200 – INSTRUCTIONS TO BIDDERS
 - A. Page 00200-2, ARTICLE 1.01 RECEIPT AND OPENING OF BIDS, Paragraph B, delete the words, “...April 26, 2023...” and replace with the words, “...April 28, 2023...”
4. SECTION 00410 – FORM OF GENERAL BID
 - A. PROPOSAL FORM ATTACHMENT, Delete “Orleans_MA-2022-01-Bid Form_2023_0418_Contractor_v3” in its entirety and replace with the attached new “Orleans_MA-2022-01-Bid Form_2023_0425_Contractor_v4” in both hard copy and Microsoft Excel format.
5. SECTION 02629 – POLYVINYL CHLORIDE LOW-PRESSURE SEWER PIPE
 - A. Page 02629-3, 2.01 MATERIALS, Paragraph D., Delete the last sentence, “Compression fitting shall be brass and manufactured by Ford, or equal.” And replace with, “Compression fittings shall be type 316 stainless steel.”

CHANGES TO BE MADE TO THE CONTRACT DRAWINGS

None

CHANGES TO BE MADE TO THE CONTRACT ATTACHMENTS

None

END OF ADDENDUM NO. 5

This Page Intentionally Left Blank

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
------	-------------	-----------------	----------	----------------

SRF ELIGIBLE BID ITEMS				
-------------------------------	--	--	--	--

1	For Mobilization/Demobilization for Items 2 through 23 inclusive, as specified (maximum of five (5) percent of Items 2 through 23 inclusive bid), the sum of		1	\$ -
		l.s.		
2A.	For furnishing and installing 1-1/4-inch through 3-inch, inclusive, Polyvinyl Chloride/High Density Polyethylene Low Pressure Sewer Pipe and Associated Fittings, All Depths, as specified, the sum of		20,750	\$ -
		per l.f.		
2B.	For furnishing and installing 8-inch Polyvinyl Chloride Sewer Pipe and Associated Fittings, Less Than 10-feet in Depth, as specified, the sum of		8,370	\$ -
		per l.f.		
2C.	For furnishing and installing 8-inch Polyvinyl Chloride Sewer Pipe and Associated Fittings, Greater Than 10-feet in Depth, as specified, the sum of		3,780	\$ -
		per l.f.		
2D.	10-inch Polyvinyl Chloride Sewer Pipe and Associated Fittings - Not Used			
2E.	For furnishing and installing 12-inch Polyvinyl Chloride Sewer Pipe and Associated Fittings, All Depths, as specified, the sum of		4,680	\$ -
		per l.f.		
2F.	For furnishing and installing 18-inch Polyvinyl Chloride Sewer Pipe and Associated Fittings, All Depths, as specified, the sum of		1,920	\$ -
		per l.f.		
2G.	For furnishing and installing 8-inch PVC Force Main and Associated Fittings, All Depths, as specified, the sum of		7,460	\$ -
		per l.f.		
2H.	For furnishing and installing 1-1/4-inch Polyvinyl Chloride Low-Pressure Sewer Service Connections and Associated Fittings from main line to property line, All Depths, as specified, the sum of		4,180	\$ -
		per l.f.		

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
2I.	For furnishing and installing 6-inch Polyvinyl Chloride Service Connections and Associated Fittings from main line to property line as specified, the sum of			
		per l.f.	4,260	\$ -
2J.	For furnishing and installing LPS Wyes, All Depths, as specified, the sum of			
		per each	200	\$ -
2K.	For furnishing and installing 8-inch Polyvinyl Chloride Sewer Wyes, All Depths, as specified, the sum of			
		per each	120	\$ -
2L.	10-inch Polyvinyl Chloride Sewer Wyes - Not Used			
2M.	For furnishing and installing 12-inch Polyvinyl Chloride Sewer Wyes, All Depths, as specified, the sum of			
		per each	50	\$ -
2N.	For furnishing and installing 18-inch Polyvinyl Chloride Sewer Wyes, All Depths, as specified, the sum of			
		per each	10	\$ -
2O.	For furnishing and installing Low Pressure Sewer Main Line Valves, All Sizes and Depths, as specified, the sum of			
		per each	50	\$ -

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
3A.	For furnishing and installing 4-foot Diameter Precast Concrete Sewer Manholes, Less Than 10 feet in Depth, the sum of			
		per each	52	\$ -
3B.	For furnishing and installing 4-foot Diameter Precast Concrete Sewer Manholes, Greater Than 10 feet in Depth, the sum of			
		per each	41	\$ -
3C.	For furnishing and installing 5-foot Diameter Precast Concrete Sewer Manholes, All Depths, as specified, the sum of			
		per each	11	\$ -
3D.	6-foot Diameter Precast Concrete Sewer Manholes - Not Used			
3E.	For furnishing and installing Low Pressure Sewer Terminal Flushing Connections, All Depths, as specified, the sum of			
		per each	29	\$ -
3F.	For furnishing and installing Low Pressure Sewer In-Line Flushing Connections, All Depths, as specified, the sum of			
		per each	21	\$ -
3G.	For furnishing and installing 5-foot Diameter Precast Concrete Air Release Stations, All Depths, as specified, the sum of			
		per each	17	\$ -
3H.	For furnishing and installing Force Main Sewer In-Line Flushing Connections, All Depths, as specified, the sum of			
		per each	2	\$ -
4A.	For furnishing and installing Manhole Frames and Covers, as specified, the sum of			
		per each	88	\$ -
4B.	For furnishing and installing Watertight Manhole Frames and Covers, as specified, the sum of			
		per each	16	\$ -
4C.	For furnishing and installing 36" Manhole Frames and Covers, as specified, the sum of			
		per each	17	\$ -

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
5	For furnishing and installing Interior Manhole Drop Connections, as specified, the sum of			
		per v.f.	30	\$ -
6	For furnishing and installing chimneys, as specified, the sum of			
		per v.f.	700	\$ -
7	For furnishing and placing miscellaneous cement concrete, as specified, the sum of			
		per c.y.	560	\$ -
8	For Rock and Boulder Excavation including Replacement with Suitable Fill Material, as specified, the sum of *			
		per c.y.	830	\$ -
	* Minimum Bid = \$80/c.y.			
9A.	For Replacement of Unsuitable Material Below Trench Grade and/or Subgrade, as specified, the sum of			
		per c.y.	930	\$ -
9B.	For Replacement of Unsuitable Material Above Trench Grade, as specified, the sum of			
		per c.y.	1,850	\$ -
10	For Experimental Excavation, as specified, the sum of			
		per c.y.	560	\$ -
11	Fill for embankments – Not Used			
12	Sheeting and/or shoring ordered left in place – Not Used			
13	For performing Soil Compaction Tests, as specified, the sum of			
		per each	190	\$ -

Company's Name	Date
----------------	------

Company's Address	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
-------------------	---

Item	Description	Unit of Measure	Quantity	Extended Total
14	For furnishing and placing Road Gravel Material, as specified, the sum of			
		per c.y.	12,200	\$ -
15A.	Full Depth Reconstruction - Not Used			
15B.	For furnishing and placing Temporary Bituminous Concrete Trench Pavement in State Roadways (Base Course), as specified, the sum of *			
		per l.f.	210	\$ -
	* Item value shall reflect bituminous concrete pavement at \$80/ton minimum			
15C.	For furnishing and placing Permanent Bituminous Concrete Trench Width Pavement in State Roadways (Base Course), as specified, the sum of *			
		per l.f.	210	\$ -
	* Item value shall reflect bituminous concrete pavement at \$80/ton minimum			
15D.	Placing Permanent Bituminous Concrete Full Width Pavement in State Roadways (Top Course) - Not Used			
15E.	Milling and Placing Permanent Bituminous Concrete Full Width Pavement in State Roadways (Top Course) - Not Used			
15F.	For furnishing and placing Temporary Bituminous Concrete Trench Pavement in Town Roadways (Base Course), as specified, the sum of *			
		per l.f.	57,780	\$ -
	* Item value shall reflect bituminous concrete pavement at \$80/ton minimum			
15G.	For furnishing and placing Permanent Bituminous Concrete Trench Width Pavement in Town Roadways (Base Course), as specified, the sum of *			
		per l.f.	57,780	\$ -
	* Item value shall reflect bituminous concrete pavement at \$80/ton minimum			
15H.	For furnishing and placing Permanent Bituminous Concrete Full Width Pavement in Town Roadways (Top Course), as specified, the sum of *			
		per ton	2,470	\$ -
	* Minimum Bid = \$80/ton			

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
15I.	For milling and furnishing and placing Permanent Bituminous Concrete Full Width Pavement in Town Roadways (Top Course), as specified, the sum of *			
		per ton	1,620	\$ -
	* Minimum Bid = \$80/ton			
15J.	For Miscellaneous Restoration of Municipal Roadways, as specified, the sum of *			
	One Hundred Thousand Dollars and No Cents		1	\$ 100,000.00
	\$ 100,000.00	Allowance		
15K.	For furnishing and placing Miscellaneous Bituminous Concrete Pavement, as specified, the sum of *			
		per ton	610	\$ -
	* Minimum Bid = \$80/ton			
15L.	For furnishing and placing Dense Graded Gravel, as specified, the sum of			
	Fifty Thousand Dollars and No Cents		1	\$ 50,000.00
	\$ 50,000.00	Allowance		
15M.	Vehicle Loop Detectors - Not Used			
15N.	For repainting of Traffic Markings - Lines, Symbols and Wording, as specified, the sum of			
	One Hundred Thousand Dollars and No Cents		1	\$ 100,000.00
	\$ 100,000.00	Allowance		
15O.	For tracer wire, as specified, the sum of			
		per l.f.	55,050	\$ -
16A.	For removal and relaying and/or replacement of Existing Water Mains and services, as specified, the sum of			
		per inch-foot	5,000	\$ -
16B.	For removal and relaying and/or replacement of Existing Storm Drains, as specified, the sum of			
		per inch-foot	40,000	\$ -

Company's Name	Date
	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
16C.	For removal and relaying and/or replacement of Existing Gas Mains and services, as specified, the sum of			
	One Hundred Thousand Dollars and No Cents		1	\$ 100,000.00
	\$	100,000.00	Allowance	
16D.	For removal and relaying and/or replacement of Existing Miscellaneous Utilities, as specified, the sum of			
	One Hundred Thousand Dollars and No Cents		1	\$ 100,000.00
	\$	100,000.00	Allowance	
16E.	For furnishing, installing and removal of 6-inch Water Main Line Stops, as specified, the sum of			
		per each	10	\$ -
16F.	For furnishing, installing and removal of 8-inch Water Main Line Stops, as specified, the sum of			
		per each	10	\$ -
17	Uniformed Traffic Police Officers - Paid by Owner			
18A.	For furnishing, installing, and removing Engineer's Field Office, as specified, the sum of			
		per l.s.	1	\$ -
18B.	For maintaining Engineer's Field Office, as specified, the sum of			
		per month	30	\$ -
19	For furnishing, installing, maintaining and removing Environmental Protection, as specified, the sum of			
		per l.f.	15,000	\$ -
20	For furnishing, installing, maintaining and removing Trench Dewatering Equipment, as specified, the sum of			
		per l.f.	4,550	\$ -
21	Temporary By-pass Pumping - Not Used			

Company's Name	Date

	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
Company's Address	

Item	Description	Unit of Measure	Quantity	Extended Total
22A.	For installing SBR Transfer Pump and Associated Variable Frequency Drive, as specified, the sum of			
		per l.s.	1	\$ -
22B.	For installing SBR Blower and Associated Variable Frequency Drive, as specified, the sum of			
		per l.s.	1	\$ -
22C.	For installing SBR Aeration Grids, as specified, the sum of			
		per l.s.	1	\$ -
22D.	For SCADA System Integrator, as specified, the sum of			
	Twenty Thousand Dollars and No Cents			
	\$ 20,000.00	Allowance	1	\$ 20,000.00
22E.	For furnishing SBR Transfer Pump, as specified, the sum of			
	Sixty Thousand Dollars and No Cents			
	\$ 60,000.00	Allowance	1	\$ 60,000.00
22F.	For furnishing SBR Blower, as specified, the sum of			
	Ninety Thousand Dollars and No Cents			
	\$ 90,000.00	Allowance	1	\$ 90,000.00
22G.	For furnishing SBR Aeration Grids, as specified, the sum of			
	One Hundred Ten Thousand Dollars and No Cents			
	\$ 110,000.00	Allowance	1	\$ 110,000.00
22.H	For furnishing Variable Frequency Drives for SBR Transfer Pump and SBR Blower, as specified, the sum of			
	One Hundred Fifty Thousand Dollars and No Cents			
	\$ 150,000.00	Allowance	1	\$ 150,000.00

Company's Name	Date
----------------	------

Company's Address	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
-------------------	---

Item	Description	Unit of Measure	Quantity	Extended Total
23A.	For furnishing and installing Pumping Station No. 4, as specified, the sum of			
		per l.s.	1	\$ -
23B.	For furnishing Submersible Pumps, as specified, the sum of			
	One Hundred Thirty Five Thousand Dollars and No Cents		1	\$ 135,000.00
	\$ 135,000.00	Allowance		
23C.	For furnishing Variable Frequency Drives for Submersible Pumps, as specified, the sum of			
	One Hundred Fifty Thousand Dollars and No Cents		1	\$ 150,000.00
	\$ 150,000.00	Allowance		
23D.	For furnishing Odor Control System, as specified, the sum of			
	Forty Thousand Dollars and No Cents		1	\$ 40,000.00
	\$ 40,000.00	Allowance		
23E.	For furnishing Standby Diesel Engine Driven Generator Set, as specified, the sum of			
	One Hundred Fifty Thousand Dollars and No Cents		1	\$ 150,000.00
	\$ 150,000.00	Allowance		
23F.	For Davit Crane, as specified, the sum of			
	Ten Thousand Dollars and No Cents		1	\$ 10,000.00
	\$ 10,000.00	Allowance		
23G.	For Electric Company Connection/Service Fee, as specified, the sum of			
	Fifty Thousand Dollars and No Cents		1	\$ 50,000.00
	\$ 50,000.00	Allowance		
23H.	For Telephone Company Connection/Service Fee, as specified, the sum of			
	Ten Thousand Dollars and No Cents		1	\$ 10,000.00
	\$ 10,000.00	Allowance		
23I.	For Planting Operations, as specified, the sum of			
	Twenty Thousand Dollars and No Cents		1	\$ 20,000.00
	\$ 20,000.00	Allowance		
TOTAL AMOUNT OF BID BASED ON ENGINEER'S ESTIMATE OF QUANTITIES THE SUM OF (Bid Items 1 through 23, inclusive)				
				\$ -

Company's Name	Date
----------------	------

Company's Address	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
-------------------	---

Item	Description	Unit of Measure	Quantity	Extended Total
Item 24 - Replacement of Water Services				
24A.	For Mobilization/Demobilization for Items 24B through 24E inclusive, as specified (maximum of five (5) percent of Item 24B through 24E bid), the sum of			
		l.s.	1	\$ -
24B.	For furnishing and installing Polyvinyl Chloride Water Services and Associated Fittings from water main to property line as specified, the sum of			
		per l.f.	3,750	\$ -
24C.	For furnishing and placing Road Gravel Material, as specified, the sum of			
		per c.y.	670	\$ -
24D.	For furnishing and placing Temporary Bituminous Concrete Trench Pavement, as specified, the sum of *			
		per ton	190	\$ -
	* Minimum Bid = \$80/ton			
24E.	For furnishing and placing Permanent Bituminous Concrete Trench Pavement, as specified, the sum of *			
		per ton	310	\$ -
	* Minimum Bid = \$80/ton			
Item 24 - Replacement of Water Services (Bid Items 24A. through 24E., inclusive)				\$ -

Company's Name	Date
----------------	------

Company's Address	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
-------------------	---

Item	Description	Unit of Measure	Quantity	Extended Total
Item 25 - Replacement of Baxter Lane and Lucy's Lane Water Mains				
25A.	For Mobilization/Demobilization for Items 25B through 25I inclusive, as specified (maximum of five (5) percent of Item 25B through Item 25I bid), the sum of			
		l.s.	1	\$ -
25B.	For furnishing and installing 8-inch DI water main and Associated Fittings, as specified, the sum of			
		per l.f.	1,600	\$ -
25C.	For furnishing and installing 4-inch DI water main and Associated Fittings, as specified, the sum of			
		per l.f.	230	\$ -
25D.	For furnishing and installing Polyvinyl Chloride Water Services and Associated Fittings from water main to property line as specified, the sum of			
		per l.f.	400	\$ -
25E.	For furnishing and installing 4-inch Gate Valves and Boxes, as specified, the sum of			
		per each	1	\$ -
25F.	For furnishing and installing 6-inch Gate Valves and Boxes, as specified, the sum of			
		per each	3	\$ -
25G.	For furnishing and installing 8-inch Gate Valves and Boxes, as specified, the sum of			
		per each	10	\$ -
25H.	For furnishing and installing Fire Hydrants, as specified, the sum of			
		per each	3	\$ -
25I.	For furnishing and placing Road Gravel Material, as specified, the sum of			
		per c.y.	300	\$ -
Item 25 - Replacement of Baxter Lane and Lucy's Lane Water Mains (Bid Items 25A. through 25I., inclusive)				\$ -

Company's Name	Date
----------------	------

Company's Address	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
-------------------	--

Item	Description	Unit of Measure	Quantity	Extended Total
Item 26 - Water Quality Improvements				
26A.	For Mobilization/Demobilization for Items 26B through 26D inclusive, as specified (maximum of five (5) percent of Item 26B through Item 26D bid), the sum of		1	\$ -
		l.s.		
26B.	For Pond Road Water Quality Improvements, as specified, the sum of		1	\$ -
		per l.s.		
26C.	For Monument Road Water Quality Improvements, as specified, the sum of		1	\$ -
		per l.s.		
26D.	For Water Quality Improvements at Pond Road and Monument Road, as specified, the sum of		1	\$ -
		per l.s.		
Item 26 - Water Quality Improvements (Bid Items 26A. through 26D., inclusive)				\$ -

Company's Name	Date
----------------	------

Company's Address	Refer to the Instructions in SECTION 00410, Page 2 - Bid Proposal in filling out this Proposal Form.
-------------------	---

Item	Description	Unit of Measure	Quantity	Extended Total
------	-------------	-----------------	----------	----------------

BASIS OF AWARD

BASIS OF AWARD = TOTAL AMOUNT SRF ELIGIBLE BID ITEMS BASED ON ENGINEER'S ESTIMATE OF QUANTITIES (Bid Items 1 through 26, inclusive)

\$ -