

## GUARANTEED MAXIMUM PRICE AMENDMENT

**EXHIBIT “R” TO CONSTRUCTION MANAGEMENT AGREEMENT DATED NOVEMBER 19, 2024 BETWEEN VILLAGE OF WELLINGTON AND WHARTON-SMITH, INC. (“CONSTRUCTION MANAGER”) FOR THE MEMBRANE PLANT 2 EXPANSION (“PROJECT”) MADE THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 2025.**

### ARTICLE 1 - GUARANTEED MAXIMUM PRICE

#### 1.1 Guaranteed Maximum Price (“GMP”)

Pursuant to Section 3.2 of the Agreement, the Owner and Construction Manager hereby amend the Agreement to establish a Guaranteed Maximum Price. As agreed by the Owner and Construction Manager, the Guaranteed Maximum Price is an amount that the Contract Sum shall not exceed. The Contract Sum consists of the Construction Manager’s Fee plus the Cost of the Work, as that term is defined in Article 8 of this Agreement, and the Owner’s Contingency. There shall be no Fee on Owner’s Contingency unless and until such time as use of the Owner’s Contingency is authorized by Owner. Notwithstanding, Manager’s insurance and bond costs shall not be subject to Construction Manager’s Fee.

1.1.1 The Contract Sum is guaranteed by the Construction Manager not to exceed Two Million Seven Hundred Seventy-Five Thousand Fifteen Dollars (\$2,775,015) subject to additions and deductions by Change Order as provided in the Contract Documents. The GMP is subject to Construction Manager’s Assumptions and Clarifications to the GMP attached as **Exhibit “R5”**.

1.1.2 Allowances included in the Guaranteed Maximum Price are attached as **Exhibit “R4”**.

1.1.3 The Guaranteed Maximum Price includes a fixed amount for General Conditions and General Requirements of Eight Hundred Thirty Two Thousand Three Hundred Ninety-Nine Dollars (\$832,399) as detailed in **Exhibit “R7”**. Construction Manager’s General Conditions and General Requirements are fixed and shall not be subject to increase or decrease unless authorized by written Change Order as set forth in the Agreement.

1.1.4 The GMP includes an Owner’s Contingency in the amount of One Hundred Fifty Thousand Dollars (\$150,000) to be utilized as set forth in 7.2.3 of the Agreement.

1.1.5 It is the intent and understanding of Construction Manager in providing a GMP for this Work, that the Drawings, Plans and Specifications listed in the attached **Exhibit “R1”** provide for the construction of completed Work by the Construction Manager, including all devices, fasteners, materials or other work not shown in the Drawings and Specifications but which are reasonably inferable therefrom and any and all incidental accessories necessary to make the Work complete and operable in all respects (even if not specified in the description of the Work, but necessary for proper installation and operation of the Work under the Drawings and Specifications), all of which shall be included as part of the Cost of the Work. The expression "reasonably inferable" and similar terms in the Contract Documents shall be interpreted to mean reasonably inferable by a construction manager and general contractor familiar with the Project, having performed extensive Preconstruction Services, and exercising the care, skill and diligence of the Construction Manager by the Contract Documents. Notwithstanding, the foregoing shall not be construed to impose any design responsibility or liability on Construction Manager except where such design responsibility is an existing requirement of Florida law or the Contract Documents.

1.2 **Schedule of Values.** The Schedule of Values allocating the Contract Sum to the various portions of the Work is attached as **Exhibit “R2”**. The Construction Manager shall not imbalance its Schedule of Values nor artificially inflate any element thereof. Any violation of this provision by the Construction Manager shall constitute a material breach of this Construction Management Agreement. The Schedule of Values shall allocate the entire Guaranteed Maximum Price among the various portions of the Work, except that the Construction Manager’s Fee shall be shown as a single separate item.

## ARTICLE 2 – CONTRACT TIME

2.1 Date of Commencement. The Work to be performed under this Construction Management Agreement shall be commenced upon the issuance of a Notice to Proceed from Owner (“Date of Commencement”).

2.2 Contract Time. Construction Manager shall meet all Milestones outlined in **Exhibit “R3”** and the entire Project shall reach Substantial Completion no later than 527 calendar days from the Date of Commencement. Construction Manager shall reach Final Completion no later than 30 days from the delivery of the Punch List as outlined in Paragraph 14.04(G) of the General Conditions, subject to any authorized extensions of time as set forth in the Contract Documents. All Work shall be performed in an expeditious manner.

2.2.1 Liquidated Damages. The parties to this Agreement agree that time is of the essence in the performance of this Agreement. Substantial Completion of the Work under this Agreement, as defined in Article 1 of the General Conditions shall be no later than the Substantial Completion date set forth in Section 2.2 of this GMP Amendment, subject to authorized extensions of time as set forth in the Article 12 of the General Conditions. In the event the Work is not substantially completed by the completion date stated above, and has not been extended by Change Order, the Owner shall be entitled to collect liquidated damages. Construction Manager and Owner agree that, because of the nature of the Work, the inability of the parties to precisely calculate actual damages for delay and the difficulty of determining these damages, the Construction Manager shall pay the Owner the sum of **Five Hundred dollars (\$500)** for each calendar day of unexcused delay for failure to achieve Substantial Completion of the Work. Further, Construction Manager and Owner agree that, because of the nature of the Work, the inability of the parties to precisely calculate actual damages for delay and the difficulty of determining these damages, the Construction Manager shall pay the Owner the sum of **Two Hundred Fifty dollars (\$250)** as liquidated damages for each and every calendar day of unexcused delay for failure to achieve Final Completion. It is hereby agreed that the amount of the per diem assessment for liquidated damages for the Construction Manager’s failure to achieve Substantial Completion of the Work or Final Completion of the Work within the time specified in this Agreement is not a penalty and not excessive in light of the circumstances known to the parties at the time this Agreement is executed. The Owner’s exercise of its right to terminate this Agreement shall not release the Construction Manager from its obligation to pay liquidated damages in the amount set forth herein. Such assessments shall be immediately due and payable to the Owner or, at the Owner’s option, may be deducted from future payments that may be due and owing to Construction Manager. Any sums due and payable hereunder by the Construction Manager shall be payable, not as a penalty, but as liquidated damages representing an estimate of delay damages likely to be sustained by the Owner, estimated at or before the time of executing this Agreement. Construction Manager’s liability for liquidated damages shall survive completion and termination of the Agreement and are in addition to Owner’s other remedies available under the Contract Documents and by law.

## ARTICLE 3 - MISCELLANEOUS

3.1 In addition to Construction Manager’s and Subcontractor’s warranty set forth in 6.19 of the General Conditions, Construction Manager shall be responsible for providing the Extended Warranties as set forth in **Exhibit “R6”**.

3.2 The GMP Amendment incorporates the following exhibits:

1. Drawings, plans and specifications listed in the attached List of Drawings attached hereto as **Exhibit “R1”**;
2. Construction Manager’s Schedule of Values to be attached as **Exhibit “R2”**;
3. Construction Schedule to be attached as **Exhibit “R3”**;
4. Construction Manager’s Allowances to be attached as **Exhibit “R4”**;
5. Construction Manager’s Assumptions and Clarifications to the GMP, if any, to be attached as **Exhibit “R5”**;

6. List of extended warranties to be attached as **Exhibit “R6”**;
7. Construction Manager’s Stipulated General Conditions and General Requirements to be attached as **Exhibit “R7”**.
8. Submittal Schedule to be attached as **Exhibit “R8”**.

This GMP Amendment and all Exhibits are hereby incorporated as part of the Contract Documents as defined in the Agreement.

3.3 Construction Manager shall deliver Public Construction Bond in accordance with Fla. Stat. §255.05 and the forms set forth as **Exhibit “E”** from a surety registered in Florida and acceptable to Owner for the full value of the Guaranteed Maximum Price, plus all change orders.

3.4 Other than as modified herein, the terms and conditions set forth in the Agreement, General Conditions and other Contract Documents remain in full force and effect.

IN WITNESS WHEREOF, Owner and Construction Manager have signed this GMP Amendment. One counterpart each has been delivered to Owner, Construction Manager, and the Engineer. All portions of the Contract Documents have been signed or identified by Owner and Construction Manager or by the Engineer on their behalf.

[SIGNATURES ON FOLLOWING PAGE]

**OWNER:**

VILLAGE OF WELLINGTON

By \_\_\_\_\_

Michael Napoleone, Mayor

Attest: \_\_\_\_\_

Chevelle Hall, Wellington's Clerk

(SEAL)

Address for giving notices

**12300 Forest Hill Boulevard**

**Wellington, Florida 33414**

APPROVED AS TO FORM AND  
LEGAL SUFFICIENCY

\_\_\_\_\_

Laurie Cohen, Attorney for Wellington

**CONSTRUCTION MANAGER:**

WHARTON-SMITH, INC.

By \_\_\_\_\_

Printed Name/Title \_\_\_\_\_

Attest: \_\_\_\_\_

Printed Name

(CORPORATE SEAL)

Address for giving notices

**5210 Hood Road**

**Palm Beach Gardens, FL 33418**

License No. CGC1511243

Agent for service of process:

\_\_\_\_\_

(If Construction Manager is a corporation, attach evidence  
of authority to sign.)

**CORPORATE RESOLUTION**

I, the undersigned Secretary of Wharton Smith, Inc., a corporation organized and existing under the laws of the State of Florida, do hereby certify that a meeting of the Board of Directors of said corporation, duly held on February 13, 2023, a quorum being present, the following resolution was adopted and entered upon the regular minute book of said corporation, is in accordance with the by-laws and is now in full force and effect to-wit:

**The current list of qualifiers** to act for the business organization in all matters connected with its contracting business has now been amended to read:

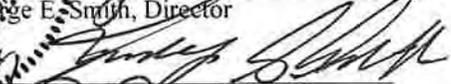
- Ronald F. Davoli
- George E. Smith
- Timothy S. Smith
- Stephanie L. Pompeo
- Patrick J. Hewitt
- Kenneth E. Marcell III
- Darin A. Crafton
- Todd H. O'Donnell
- Gregory L. Williams
- Thomas D. Iarossi
- Andre P. Boagni

I HEREBY certify that the foregoing is a true and exact copy of the resolution adopted by the Board of Directors of this Corporation and that such resolution has not been amended, modified, or revoked and is still in force and effect.

Signed and sealed this 13th day of February 2023.  
(Seal of Corporation)



  
George E. Smith, Director

  
Timothy S. Smith, Director

  
Ronald F. Davoli, Director

  
Stephanie L. Pompeo, Secretary



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## Detail by Entity Name

Florida Profit Corporation  
WHARTON-SMITH, INC.

### Filing Information

|                             |            |
|-----------------------------|------------|
| <b>Document Number</b>      | G94383     |
| <b>FEI/EIN Number</b>       | 59-2392802 |
| <b>Date Filed</b>           | 04/03/1984 |
| <b>Effective Date</b>       | 04/02/1984 |
| <b>State</b>                | FL         |
| <b>Status</b>               | ACTIVE     |
| <b>Last Event</b>           | AMENDMENT  |
| <b>Event Date Filed</b>     | 03/21/2024 |
| <b>Event Effective Date</b> | NONE       |

### Principal Address

750 MONROE RD  
SANFORD, FL 32771

Changed: 04/25/2006

### Mailing Address

750 Monroe Road  
Sanford, FL 32771

Changed: 01/02/2020

### Registered Agent Name & Address

CORPORATION SERVICE COMPANY  
1201 HAYS STREET  
TALLAHASSEE, FL 32301-2525

Name Changed: 10/07/2019

Address Changed: 10/07/2019

### Officer/Director Detail

#### **Name & Address**

Title President, CEO, Treasurer

SMITH, TIMOTHY S  
750 MONROE RD  
SANFORD, FL 32771

Title Chairman, Asst. Secretary

DAVOLI, RONALD F  
750 MONROE RD  
SANFORD, FL 32771

Title Director

Marcell , Kenneth E, III  
750 MONROE RD  
SANFORD, FL 32771

Title COO

HEWITT, PATRICK J  
750 MONROE RD  
SANFORD, FL 32771

Title COO

CRAFTON, DARIN A  
750 MONROE ROAD  
Sanford, FL 32771

Title Director

O'Donnell, Todd H  
750 MONROE RD  
SANFORD, FL 32771

Title Director

Williams, Gregory L  
750 MONROE RD  
SANFORD, FL 32771

Title CFO, Secretary

POMPEO, STEPHANIE  
750 MONROE RD  
SANFORD, FL 32771

Title Director

BOAGNI, ANDRE  
750 MONROE RD  
SANFORD, FL 32771

**Annual Reports**

| Report Year | Filed Date |
|-------------|------------|
| 2023        | 01/03/2023 |
| 2024        | 01/03/2024 |
| 2025        | 01/08/2025 |

**Document Images**

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Florida Department of State, Division of Corporations

# WTP Membrane Plant #2 Expansion Village of Wellington



## GMP Proposal

February 26, 2025

Presented by Wharton-Smith (CMAR)



Wharton-Smith Contact:  
Josh Burns – Project Executive  
[jburns@whartonsmith.com](mailto:jburns@whartonsmith.com)

Engineer: Kimley-Horn

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## SECTION 1 – EXECUTIVE SUMMARY

February 26, 2025

Ms. Anjali Panse, PE  
Utility Director  
Village of Wellington  
1100 Wellington Trace  
Wellington, FL 33414

Re: WTP Membrane Plant 2 Expansion  
GMP Proposal

Dear Ms. Panse:

Wharton-Smith is pleased to submit the Guaranteed Maximum Price (GMP) proposal for the WTP Membrane Plant 2 Expansion project. A comprehensive breakdown of material, equipment, subcontractor, and labor is provided in the supporting documentation following this letter. The GMP is valued at **\$2,775,015.00**.

Please note the following clarifications regarding this proposal:

1. Per discussions with the Village of Wellington, the following items are provided in accordance with the CMAR GMP Amendment Guide:
  - a. The Daily Liquidated Damages are as follows:
    - i. \$500 per calendar day for Substantial Completion
    - ii. \$250 per calendar day for Final Completion.
  - b. The GMP includes an Owner Controlled Contingency of \$150,000.00.
  - c. Project shall reach Substantial Completion no later than 527 calendar days from the Date of Commencement.
  - d. The following is a list of the competitively bid work packages and the recommended low responsive bidder for each. Please refer to Section 3 for the detailed bid evaluations.
    - i. Membrane System OEM – Aerex
    - ii. Master Plant Contractor – Wharton-Smith
  - e. There are no proposed Owner Direct Purchases for this project.
  - f. The proposed GMP is valued at \$2,775,015.00. Refer to Exhibit R2 for the Cost of Work organized by the scope of work bid packages, allowances, Owner's Contingency, and the Construction Manager's Fee.
2. The work is in accordance with Kimley-Horn's "WTP Membrane Plant #2 (M2) Expansion" drawings dated November 2024. Please refer to Section 2 for the Drawings and Specifications.
3. The GMP includes work for the Membrane Plant 2 expansion along with the associated piping and structural modifications. Pricing for the bid proposals received will remain valid for a period of one hundred and eighty (180) days after the bid date.
4. We have included an Owner Controlled Contingency of \$150,000.00. Please note that this contingency is currently shown below the line without fee, fee to be included on contingency usage once brought into the project as approved by the Village of Wellington.
5. We have included the following allowances for work items with undefined scopes at this time. Please note that the allowances are currently shown below the line without fee, fee to be included on allowance usage once brought into the project as approved by the Village of Wellington.

- a. Building Permits - \$10,000
  - b. Independent Testing - \$7,500
  - c. Painting - \$30,000
  - d. Material Escalations - \$100,000
6. Storm water pollution prevention (SWPPP) costs are not included.
  7. We have included a performance and payment bond and insurances.
  8. ERP, FDEP, FDOT, & ROW permit costs are by others.
  9. Costs associated with Davis-Bacon Wages & AIS requirements have not been included at this time.
  10. It is assumed that the Village of Wellington will provide power and water for use during construction and startup at no cost.
  11. We have not included installation and removal costs for the construction trailers, temporary water system, and internet.
  12. Price includes 12 months of General Conditions and General Requirements. However, as requested by the Village of Wellington, construction trailers and internet were carried for 3 additional months to cover the downtime between the end date of the last CMAR project at the Water Treatment Plant and the start date/mobilization of M2 Expansion. Any additional costs to maintain the construction trailers and internet onsite due to delays with M2 Expansion start date will be submitted to the Owner and billed against the Owner's Contingency.
  13. We have not included any costs for electrical or instrumentation/control scope of work as there is currently none defined for this project scope.
  14. We have not included any costs for Lead/Asbestos Survey nor abatement of any kind.
  15. Cost Estimate and schedule reflect installing Protec pressure vessels on Trains 6 and 7 and keeping Codeline on Train 8.
  16. Pricing includes no knowledge of buried or concealed conditions beyond what is indicated or shown on documents received to date. Unforeseen conflicts and utilities will be submitted as additional costs.
  17. All Pricing (Labor, Material, Equipment, Subcontract) is based on current market value with no escalation or inflation adjustment. Duration of Material lead times are based on current market conditions.
  18. Please refer to Section 4 for the proposed GMP schedule. Please note that the P6 schedule is referenced in "work days" as the program automatically accounts for weekends and holidays. The contract time is expressed in "calendar days". 558 calendar days from Notice of Commencement to Final Completion indicated equates to the 388 work days shown in the P6 schedule. Our current estimated duration of on-site construction is 12 months. We have included project management staff that is appropriate for this project.

As always, I am available to discuss at your earliest convenience.

Very respectfully,

Josh Burns  
Project Executive  
Wharton-Smith, Inc.

## SECTION 2 – EXHIBIT R1 DRAWINGS, PLANS AND SPECIFICATIONS

# WTP MEMBRANE PLANT #2 (M2) EXPANSION

PREPARED FOR  
**VILLAGE OF WELLINGTON**  
**NOVEMBER 2024**



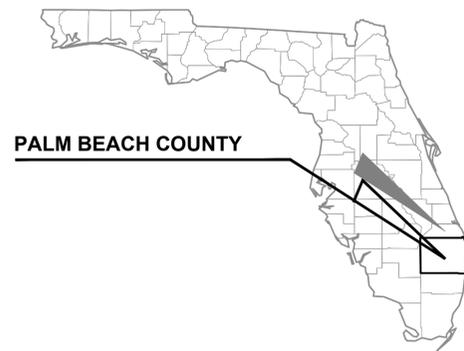
## VILLAGE COUNCIL

MAYOR  
 VICE MAYOR  
 COUNCILWOMAN  
 COUNCILWOMAN  
 COUNCILWOMAN

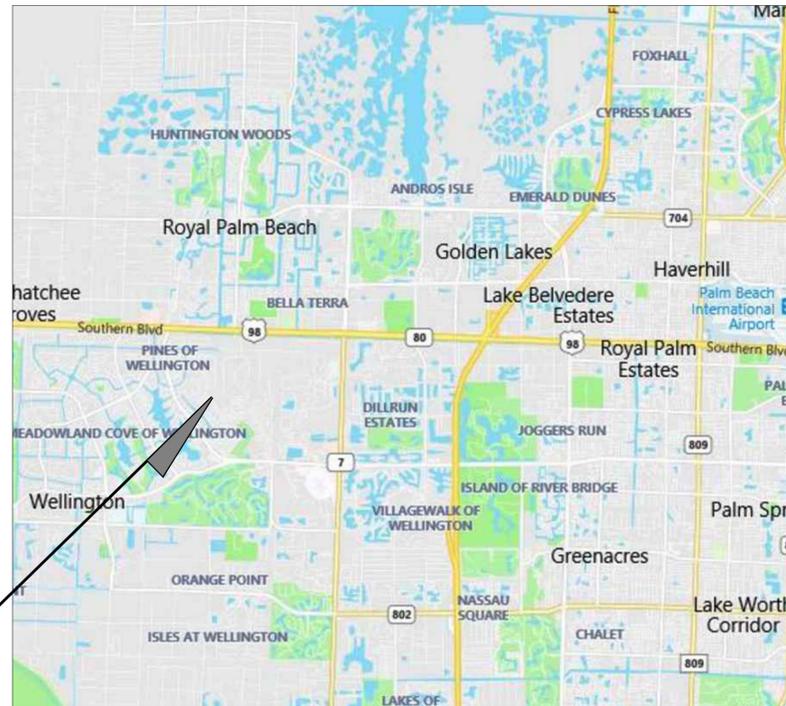
MICHAEL J. NAPOLEONE  
 JOHN T. McGOVERN  
 TANYA SISKIND  
 MARIA S. ANTUÑA  
 AMANDA SILVESTRI

VILLAGE MANAGER  
 ASSISTANT VILLAGE MANAGER  
 DEPUTY VILLAGE MANAGER  
 UTILITY DIRECTOR

JIM BARNES  
 ED DE LA VEGA  
 TANYA W. QUICKEL  
 ANJULI PANSE, P.E.



VICINITY MAP  
 N.T.S. or AS NOTED



PROJECT LOCATION  
 VOW WTP  
 1100 WELLINGTON TRACE  
 WELLINGTON, FL 33414

LOCATION MAP  
 N.T.S.

| SHEET LIST   |  |
|--------------|--|
| Sheet Number | Sheet Title                              |
| M-1          | COVER SHEET                              |
| M-2          | SITE KEY MAP AND GENERAL NOTES           |
| M-3          | M2 PROCESS FLOW DIAGRAM                  |
| M-4          | TRAIN 6 & 7 EXPANSION NFF & NFC SECTIONS |
| M-5          | TRAIN 6 EXPANSION NFI SECTIONS           |
| M-6          | TRAIN 6 EXPANSION NFP SECTIONS           |
| M-7          | TRAIN 6 NFP DETAILS                      |
| M-8          | TRAIN 7 EXPANSION NFI SECTIONS           |
| M-9          | TRAIN 7 EXPANSION NFP SECTIONS           |
| M-10         | TRAIN 7 NFP DETAILS                      |
| M-11         | PROCESS ROOM TRENCH PLAN AND DETAILS     |
| M-12         | TRAINS 6 & 7 FRAME DETAILS               |
| M-13         | TRAINS 6 & 7 SAMPLE PANEL DETAILS        |
| M-14         | TRAIN 8 EXPANSION SECTIONS               |
| D-1          | CONSTRUCTION DETAILS                     |

**PBCHD SUBMITTAL**

**NOT FOR CONSTRUCTION**

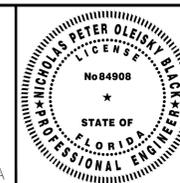
| No. | REVISIONS | DATE | BY |
|-----|-----------|------|----|
|     |           |      |    |
|     |           |      |    |
|     |           |      |    |

**Kimley»Horn**

© 2024 KIMLEY-HORN AND ASSOCIATES, INC.  
 1920 WEKIVA WAY SUITE 200, WEST PALM BEACH, FL 33411  
 PHONE: 561-845-0665 FAX: 561-863-8175  
 WWW.KIMLEY-HORN.COM REGISTRY NO. 696

KHA PROJECT  
 144957082  
 DATE  
 NOV 2024  
 SCALE AS SHOWN  
 DESIGNED BY NPOB  
 DRAWN BY AH  
 CHECKED BY JEP

**WTP MEMBRANE PLANT #2 (M2)  
 EXPANSION**  
 PREPARED FOR  
**VILLAGE OF WELLINGTON**  
 PALM BEACH COUNTY FLORIDA

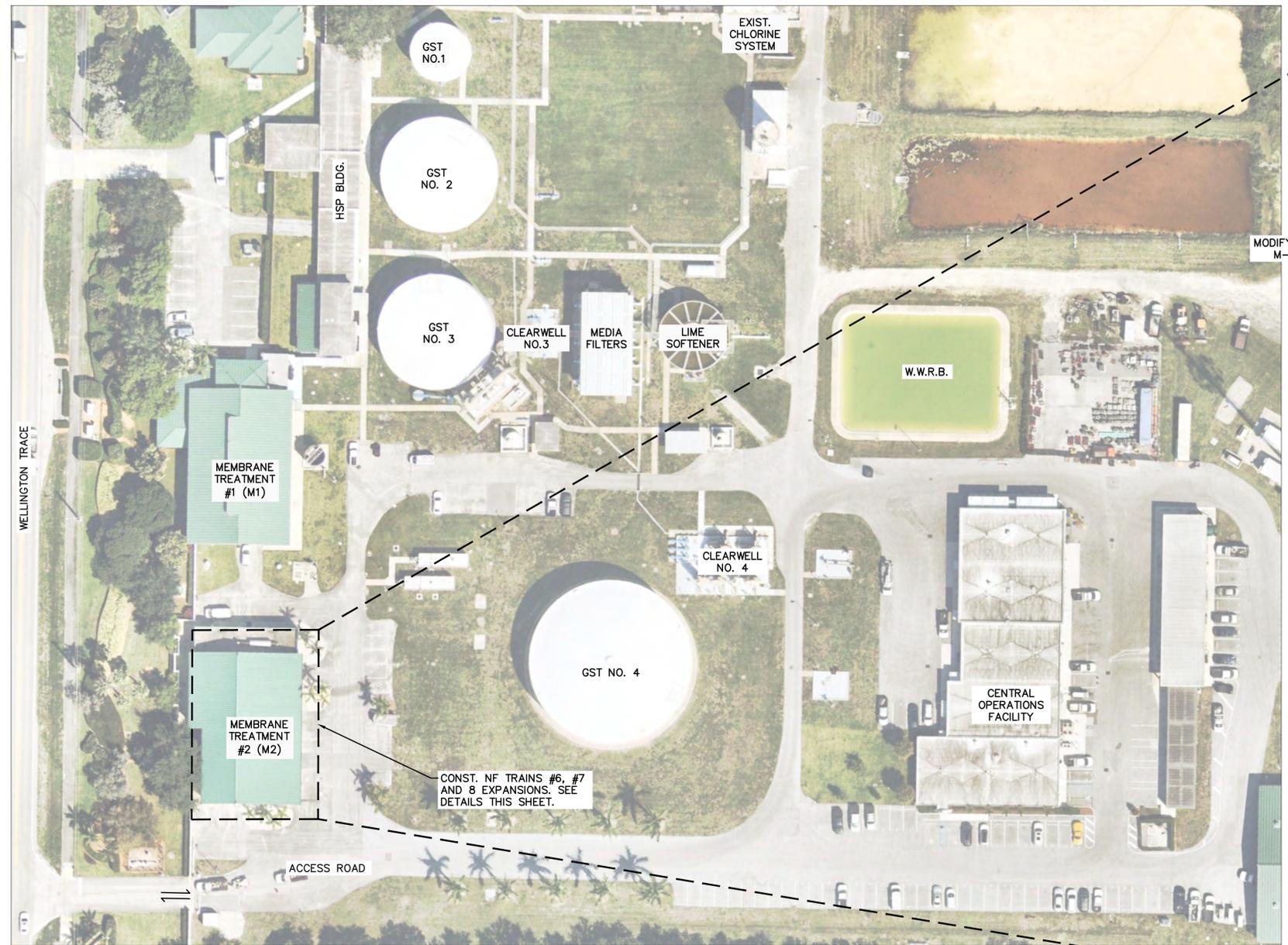


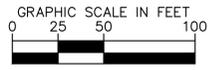
THIS ITEM HAS BEEN DIGITALLY SIGNED  
 AND SEALED BY  
  
**COVER SHEET**  
 ON THE DATE ADJACENT TO THE SEAL

SHEET NUMBER  
**M-1**  
 1 OF 15

Plotted By: Corniu, Daniel  
 Sheet Set: VOW M2 EXPANSION Layout: M-1 COVER SHEET November 15, 2024 11:34:11am K:\wpb\_civil\144957082 - m2\_expansion\CAD\plansheets\M-1 COVER SHEET.dwg  
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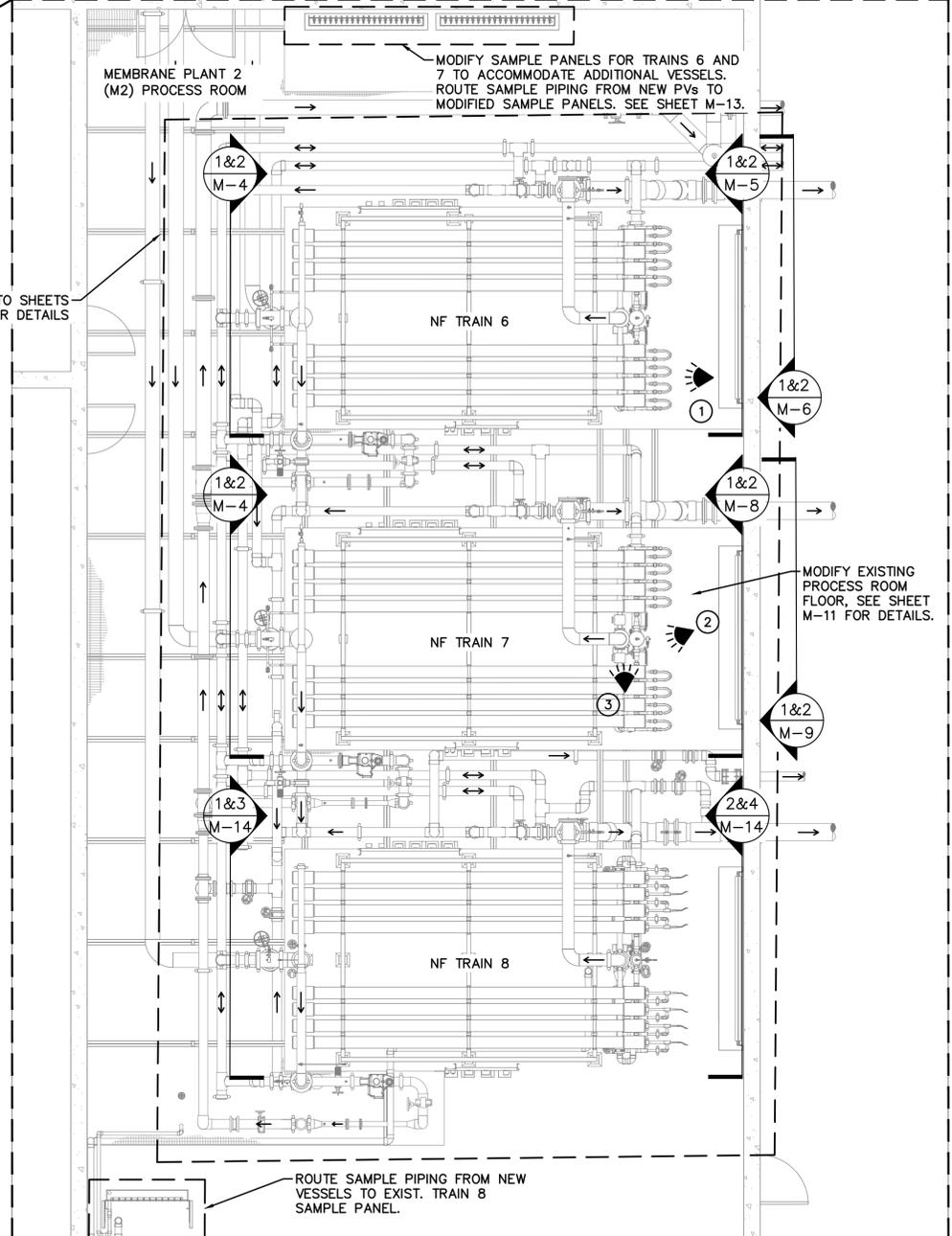
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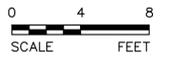



**SITE KEY MAP**  
 SCALE: 1" = 50'  


**GENERAL NOTES:**

- CONTRACTOR SHALL COORDINATE WORK WITH THE OWNER AND PROVIDE ONE WEEK NOTICE PRIOR TO DEMOLITION.
- CONTRACTOR SHALL CONFIRM SIZE, MATERIAL, AND LOCATION OF ALL MECHANICAL EQUIPMENT AND FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS TO ACCOMMODATE PROPOSED EQUIPMENT AS REQUIRED.
- THE TYPE, SIZE, AND MATERIAL OF M2 PROCESS PIPING AND FITTINGS IS INDICATED ON THE DRAWINGS. IF NOT INDICATED OR WHERE PIPING OR FITTINGS OF DIFFERING SIZE, MATERIAL, OR RATING ARE IDENTIFIED IN THE FIELD AND ARE TO BE CONNECTED (NEW OR EXISTING), THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NECESSARY FITTINGS, TRANSITIONS, AND OR ADAPTORS TO FACILITATE EXISTING AND OR PROPOSED CONNECTIONS. THE MATERIAL AND PRESSURE RATING SHALL BE CONSISTENT WITH PROCESS PIPING TO WHICH THESE ARE CONNECTED AND SUBJECT TO OWNER'S APPROVAL.
- ALL STAINLESS STEEL PIPING AND FITTINGS SHALL BE FINAL PICKLED AND PASSIVATED U.O.N, WELDED 316/316L SCHEDULE 10S MINIMUM.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS AND CONSTRUCTION.
- CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE EXISTING FACILITIES, EQUIPMENT OR PIPING. CONTRACTOR WILL BE REQUIRED TO REPAIR/REPLACE ANY DAMAGES TO OWNER'S SATISFACTION.
- ALL AREAS IMPACTED BY CONSTRUCTION SHALL BE RESTORED PER SPECIFICATIONS.
- ELEVATION SHOWN HEREIN REFERENCE TO NGVD'29. CONVERSION FROM NGVD 1929 TO NAVD 1988 IS AS FOLLOWS: (NGVD 1929) - 1.471 = (NAVD 1988)
- ONLY ONE NF TRAIN MAY BE TAKEN OFF-LINE AT ANY GIVEN TIME. WORK MUST BE COMPLETED AND ACCEPTED BY OWNER PRIOR TO COMMENCING WORK ON SUBSEQUENT NF TRAIN.




**PROCESS AREA PLAN**  
 SCALE: 3/16" = 1'-0"  


**ABBREVIATIONS:**

- |        |                          |      |                            |
|--------|--------------------------|------|----------------------------|
| BF     | BLIND FLANGE             | MIN. | MINIMUM                    |
| BFV    | BUTTERFLY VALVE          | M2   | MEMBRANE PLANT 2           |
| CL, C  | CENTERLINE               | NFC  | NANOFILTRATION CONCENTRATE |
| CONST. | CONSTRUCT                | NFF  | NANOFILTRATION FEEDWATER   |
| CFV    | CARTRIDGE FILTER VESSEL  | NFI  | NANOFILTRATION INTERSTAGE  |
| CSR    | CLEANING SYSTEM RETURN   | NFP  | NANOFILTRATION PERMEATE    |
| CSS    | CLEANING SYSTEM SUPPLY   | O.C. | ON CENTER                  |
| CSW    | CLEANING SYSTEM WASTE    | PE   | PLAIN END                  |
| FL     | FLANGED                  | PV   | PRESSURE VESSEL            |
| FRP    | FIBER REINFORCED PLASTIC | SL   | SAMPLE LINE                |
| GE     | GROOVED END              | SST  | STAINLESS STEEL            |
| LS     | LUG STYLE                | T.O. | TOP OF                     |
| LR     | LONG RADIUS              | VSF  | VANSTONE FLANGE            |

**LEGEND:**

- PHOTO DETAIL #1 SHEET M-6
- PHOTO DETAIL #2 SHEET M-9
- PHOTO DETAIL #3 SHEET M-9

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**KHA PROJECT**  
 144957082  
**DATE**  
 NOV 2024  
**SCALE** AS SHOWN  
**DESIGNED BY** NPOB  
**DRAWN BY** AH  
**CHECKED BY** JEP

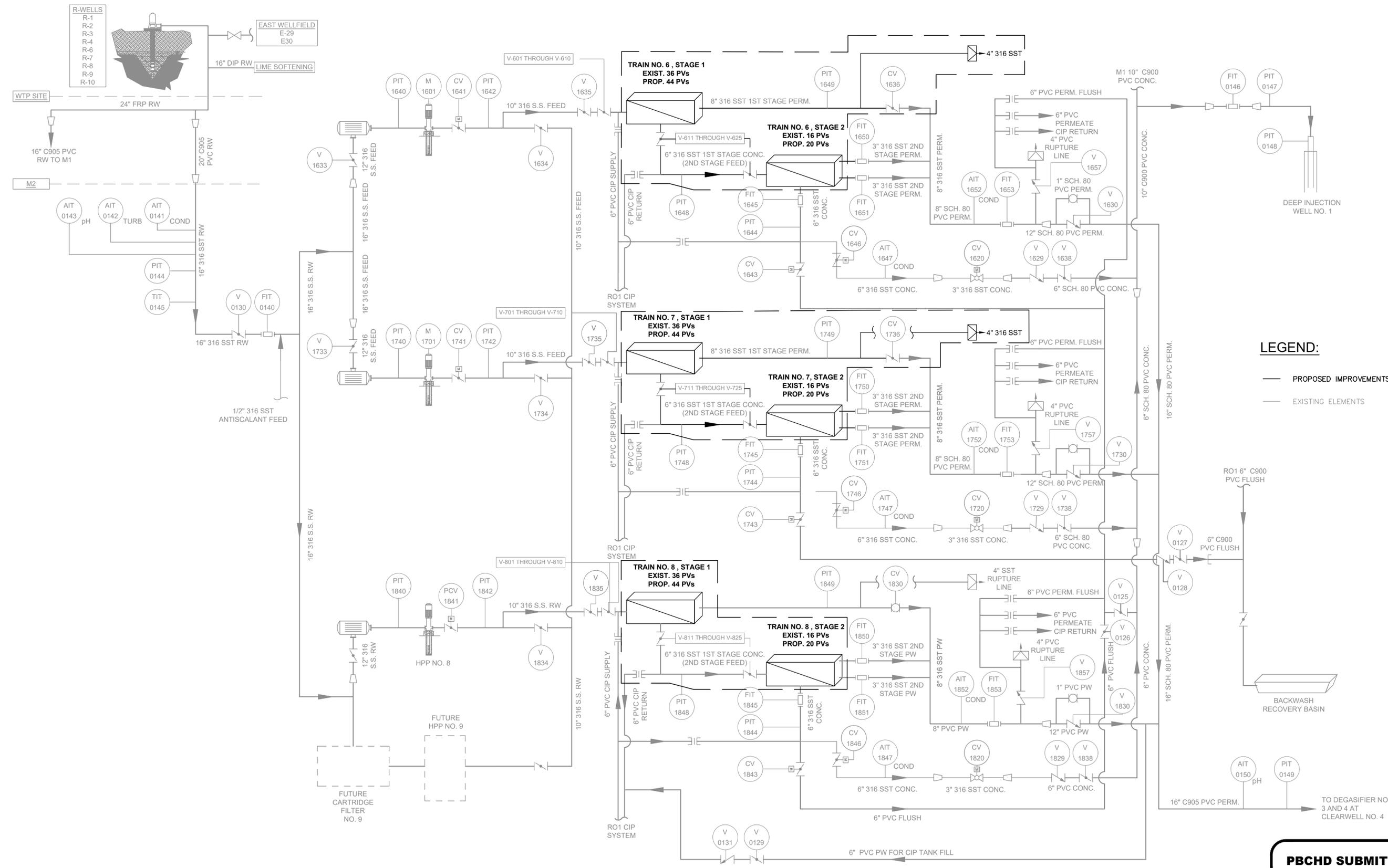
**WTP MEMBRANE PLANT #2 (M2) EXPANSION**  
 PREPARED FOR  
**VILLAGE OF WELLINGTON**  
 PALM BEACH COUNTY FLORIDA



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**SITE KEY MAP AND GENERAL NOTES**  
 ON THE DATE ADJACENT TO THE SEAL

SHEET NUMBER  
**M-2**  
 2 OF 15

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**LEGEND:**

- PROPOSED IMPROVEMENTS
- EXISTING ELEMENTS

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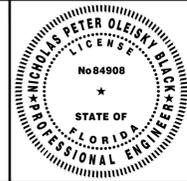
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EXPANSION**

PREPARED FOR  
**VILLAGE OF WELLINGTON**

PALM BEACH COUNTY FLORIDA



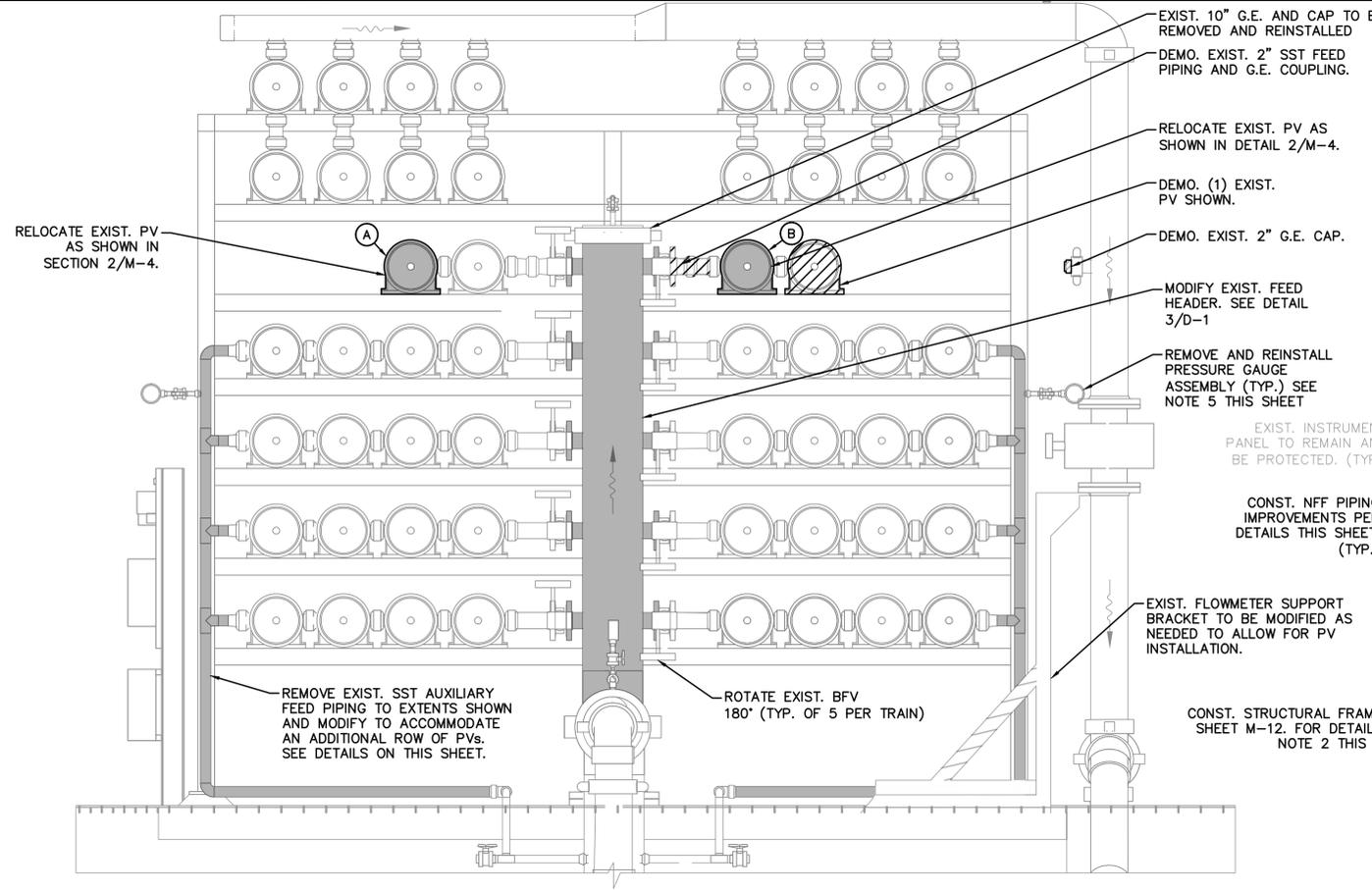
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**M2 PROCESS FLOW DIAGRAM**

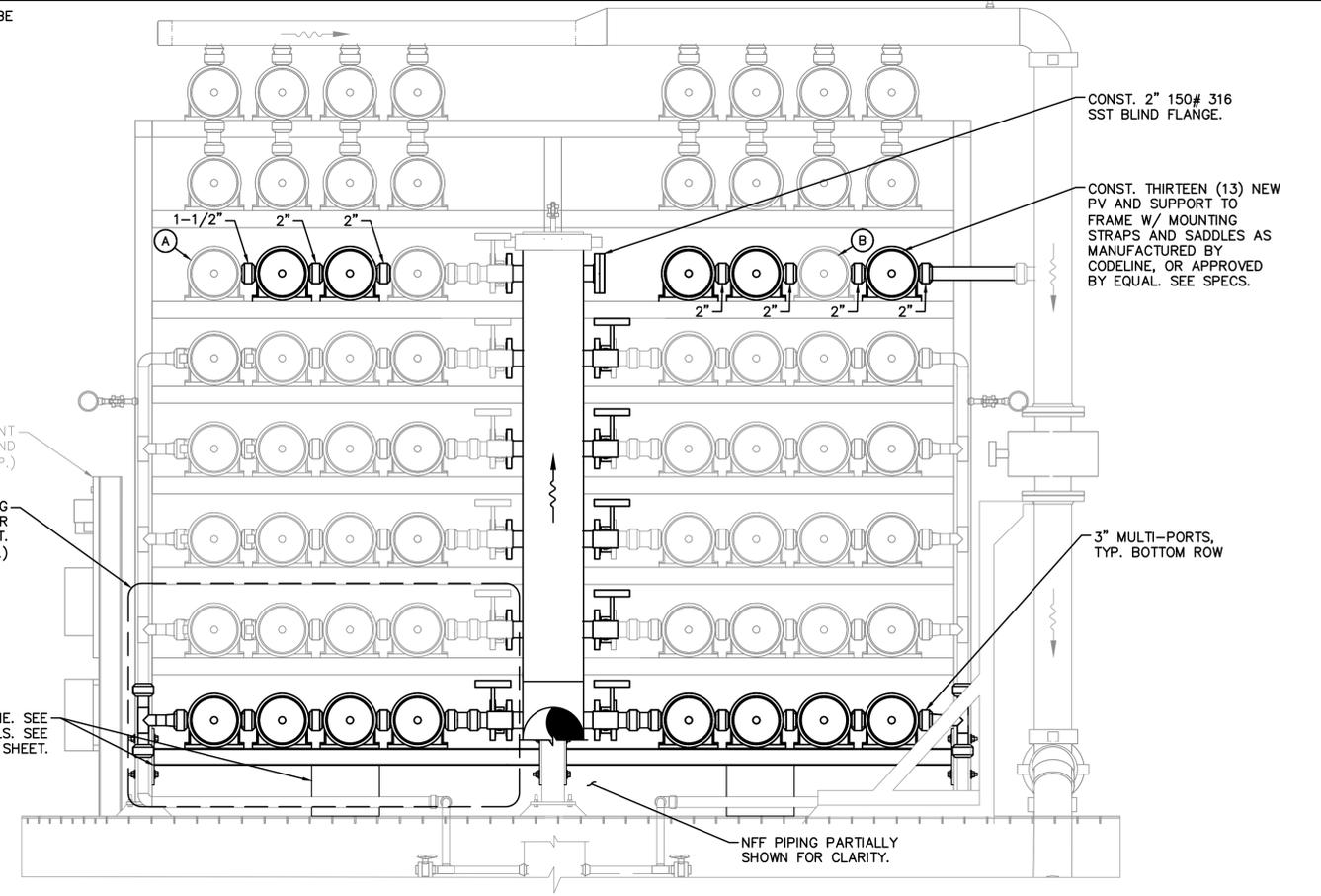
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**M-3**  
3 OF 15  
Page 17

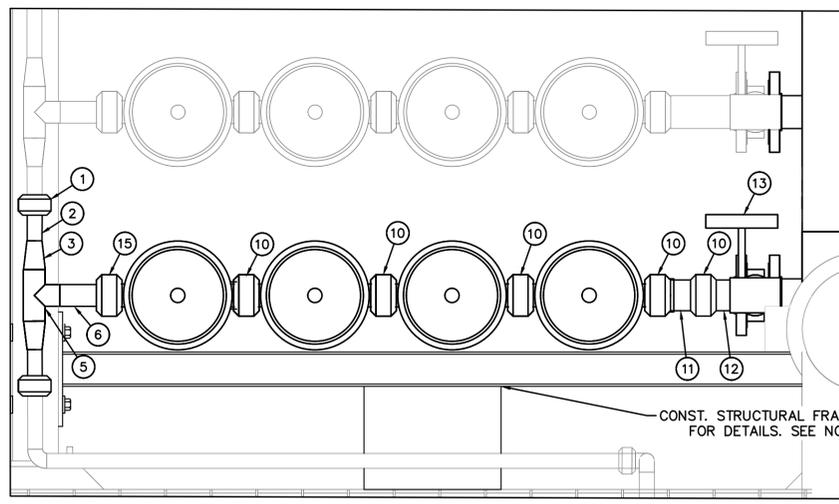
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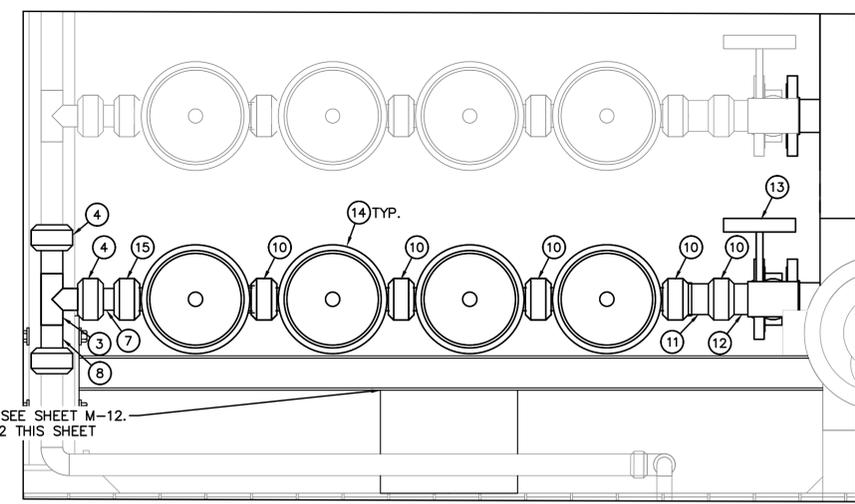
**1** EXIST. 36x16 ARRAY T6 & T7 NFF/NFC SECTION (TYP.)  
 M-4 24x36 SHEET SIZE: 3/4" = 1'-0" 0 1 2  
 11x17 SHEET SIZE: 3/8" = 1'-0" SCALE FEET



**2** PROP. 44x20 ARRAY T6 & T7 NFF/NFC SECTION (TYP.)  
 M-4 24x36 SHEET SIZE: 3/4" = 1'-0" 0 1 2  
 11x17 SHEET SIZE: 3/8" = 1'-0" SCALE FEET



**3** PROP. TRAIN 6 NFF AND AUXILIARY FEED PIPE DETAIL  
 M-4 24x36 SHEET SIZE: 1 1/2" = 1'-0" 0 1/4 1/2 3/4 1  
 11x17 SHEET SIZE: 3/4" = 1'-0" SCALE FEET



**4** PROP. TRAIN 7 NFF AND AUXILIARY FEED PIPE DETAIL  
 M-4 24x36 SHEET SIZE: 1 1/2" = 1'-0" 0 1/4 1/2 3/4 1  
 11x17 SHEET SIZE: 3/4" = 1'-0" SCALE FEET

| SHEET KEYNOTE LEGEND |   |
|----------------------|---|
| ITEM                 | DESCRIPTION                                       |
| 1                    | 1" SCH. 10 316 SST GE COUPLING                    |
| 2                    | 1" SCH. 10 316 SST GE/PE PIPE, LENGTH TO SUIT     |
| 3                    | 1-1/2"x1" SCH. 10 316 S.S.T. REDUCER              |
| 4                    | 1-1/2" 316 S.S.T. GE COUPLING                     |
| 5                    | 1-1/2" SCH. 10 316 S.S.T. TEE                     |
| 6                    | 1-1/2" SCH. 10 316 SST PE/PE PIPE, LENGTH TO SUIT |
| 7                    | 1-1/2" SCH. 10 316 SST GE/GE PIPE, LENGTH TO SUIT |
| 8                    | 1-1/2" SCH. 10 316 SST GE/PE PIPE, LENGTH TO SUIT |
| 9                    | 2" SCH. 10 316 SST GE COUPLING                    |
| 10                   | 3" SCH. 10 316 SST GE COUPLING                    |
| 11                   | 3" SCH. 10 316 SST GE/GE PIPE, LENGTH TO SUIT     |
| 12                   | 2-1/2" SCH. 10 316 SST GE/FL PIPE, LENGTH TO SUIT |
| 13                   | 3" SCH. 10 316 SST LS BFV                         |
| 14                   | PRESSURE VESSEL, SEE SPECS.                       |
| 15                   | 3"x1-1/2" REDUCING GE COUPLING                    |

- GENERAL NOTES:**
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
  - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND STRUCTURAL CALCULATIONS TO DEMONSTRATE FRAME IS ADEQUATE FOR ADDITIONAL VESSELS. CONTRACTOR RESPONSIBLE FOR ALL FRAME IMPROVEMENTS TO FACILITATE EXPANSION, INCLUDING ANY WORK NOT SHOWN HEREIN.
  - ALL PIPING SHALL BE SCH. 10 316 SST, U.O.N. ALL GROOVES SHALL BE SCH. 40 CUT GROOVES.
  - ALL STAINLESS STEEL PIPING AND FITTINGS SHALL BE FINAL PICKLED AND PASSIVATED U.O.N, WELDED 316/316L SCHEDULE 10S MINIMUM.
  - CONTRACTOR SHALL VERIFY EXIST. LOCATION OF SAMPLE LINES AND TAPS. FOR ALL PIPING THAT IS TO BE REPLACED, CONTRACTOR SHALL INCLUDE CONNECTIONS FOR SAMPLE TUBING.

**PBCHD SUBMITTAL**  
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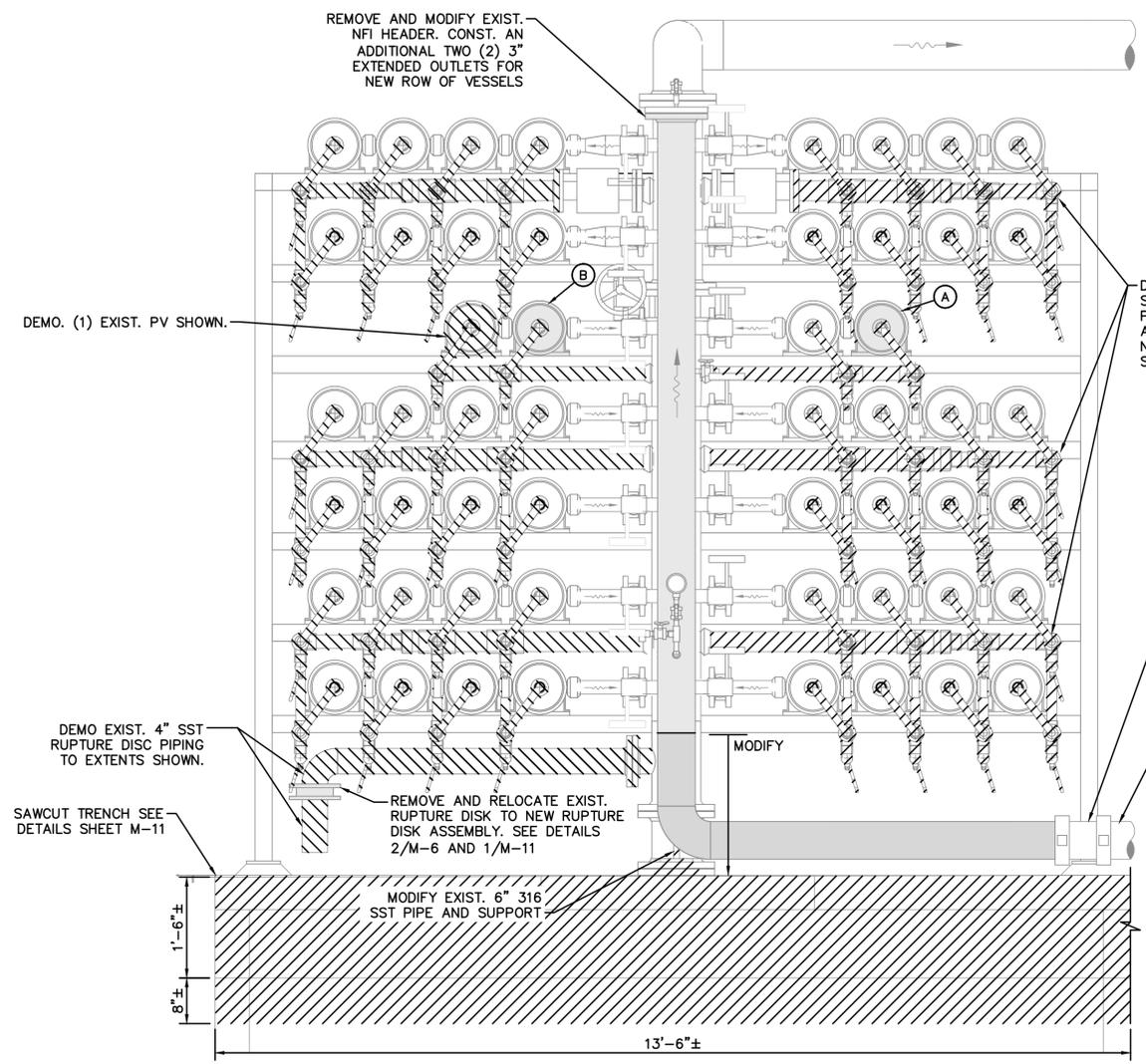
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 EXPANSION**  
 PREPARED FOR  
**VILLAGE OF WELLINGTON**  
 PALM BEACH COUNTY FLORIDA



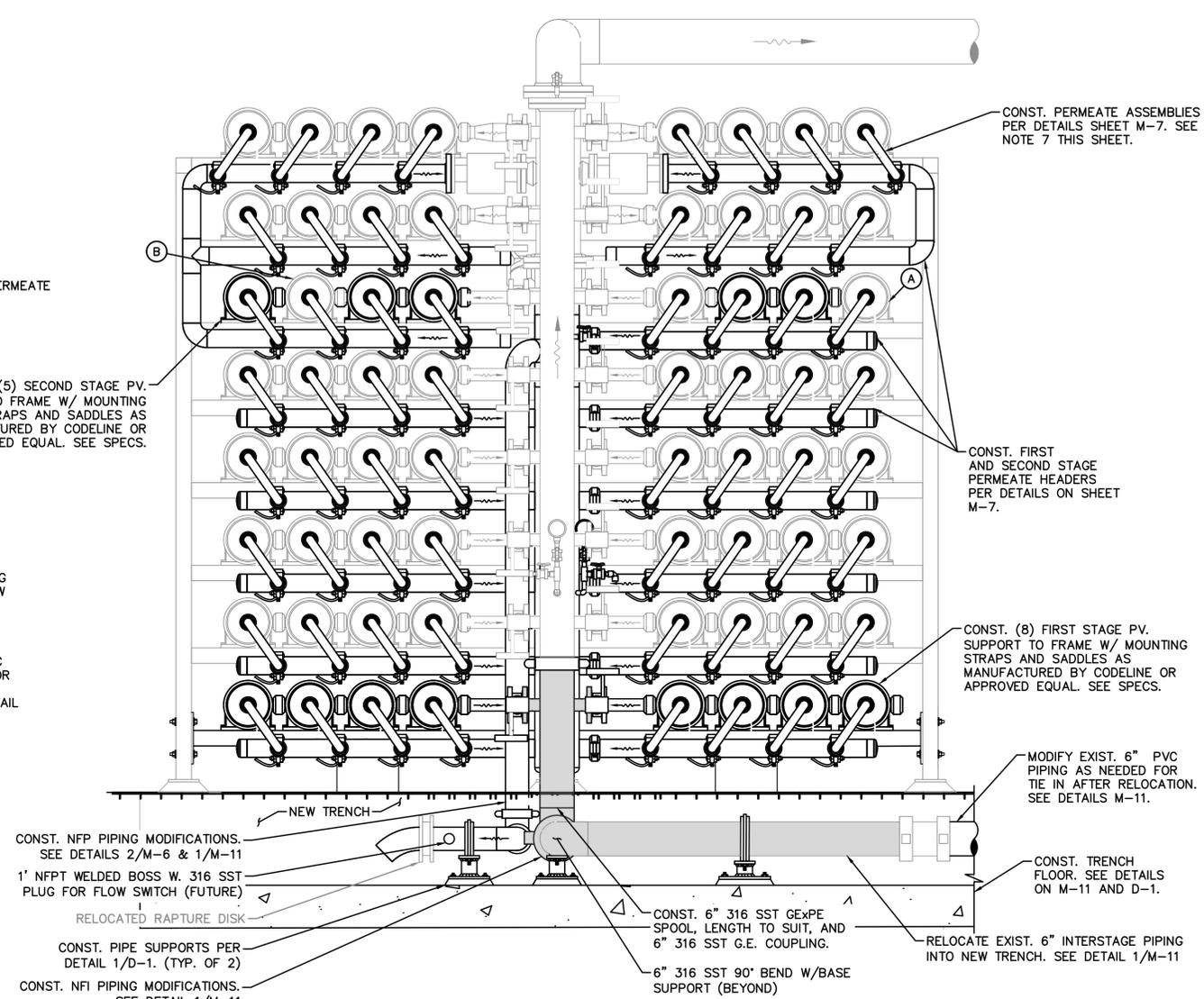
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**TRAIN 6 & 7 EXPANSION NFF & NFC SECTIONS**  
 ON THE DATE ADJACENT TO THE SEAL

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 4 OF 15

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**1** EXIST. T6 36x16 ARRAY NFI SECTION  
 M-5 24x36 SHEET SIZE:  $\frac{3}{4}$ " = 1'-0"  
 11x17 SHEET SIZE:  $\frac{3}{8}$ " = 1'-0"  
 SCALE 0 1 2 FEET



**2** PROP. T6 44x20 ARRAY NFI SECTION  
 M-5 24x36 SHEET SIZE:  $\frac{3}{4}$ " = 1'-0"  
 11x17 SHEET SIZE:  $\frac{3}{8}$ " = 1'-0"  
 SCALE 0 1 2 FEET

**GENERAL NOTES:**

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- PERMEATE HEADERS SHALL BE SUPPORTED BY EXIST. AND PROPOSED TRAIN FRAME STRUCTURAL MEMBERS. SUBMIT SHOP DRAWING.
- PERMEATE COLLECTION HEADER G.E. CONNECTION TO VESSEL J-BEND SHALL BE COORDINATED W/ RESPECTIVE TRAIN PERMEATE HEADER DIMENSIONS. CONTRACTOR IS HEREIN NOTIFIED THAT DIMENSIONS ON ALL TRAINS ARE NOT THE SAME.

**PBCHD SUBMITTAL**

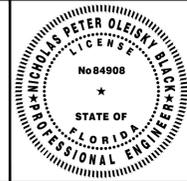
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| SCALE       | AS SHOWN  |
| DESIGNED BY | NPOB      |
| DRAWN BY    | AH        |
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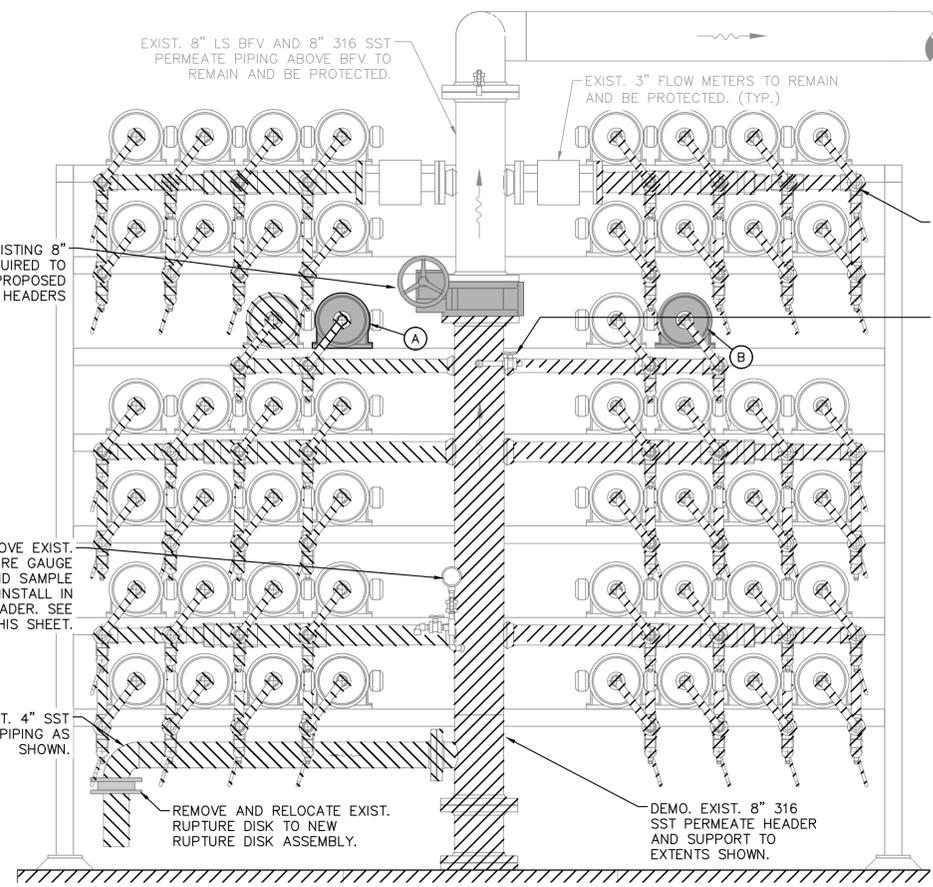
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**EXPANSION**  
 PREPARED FOR  
**VILLAGE OF WELLINGTON**  
 PALM BEACH COUNTY FLORIDA



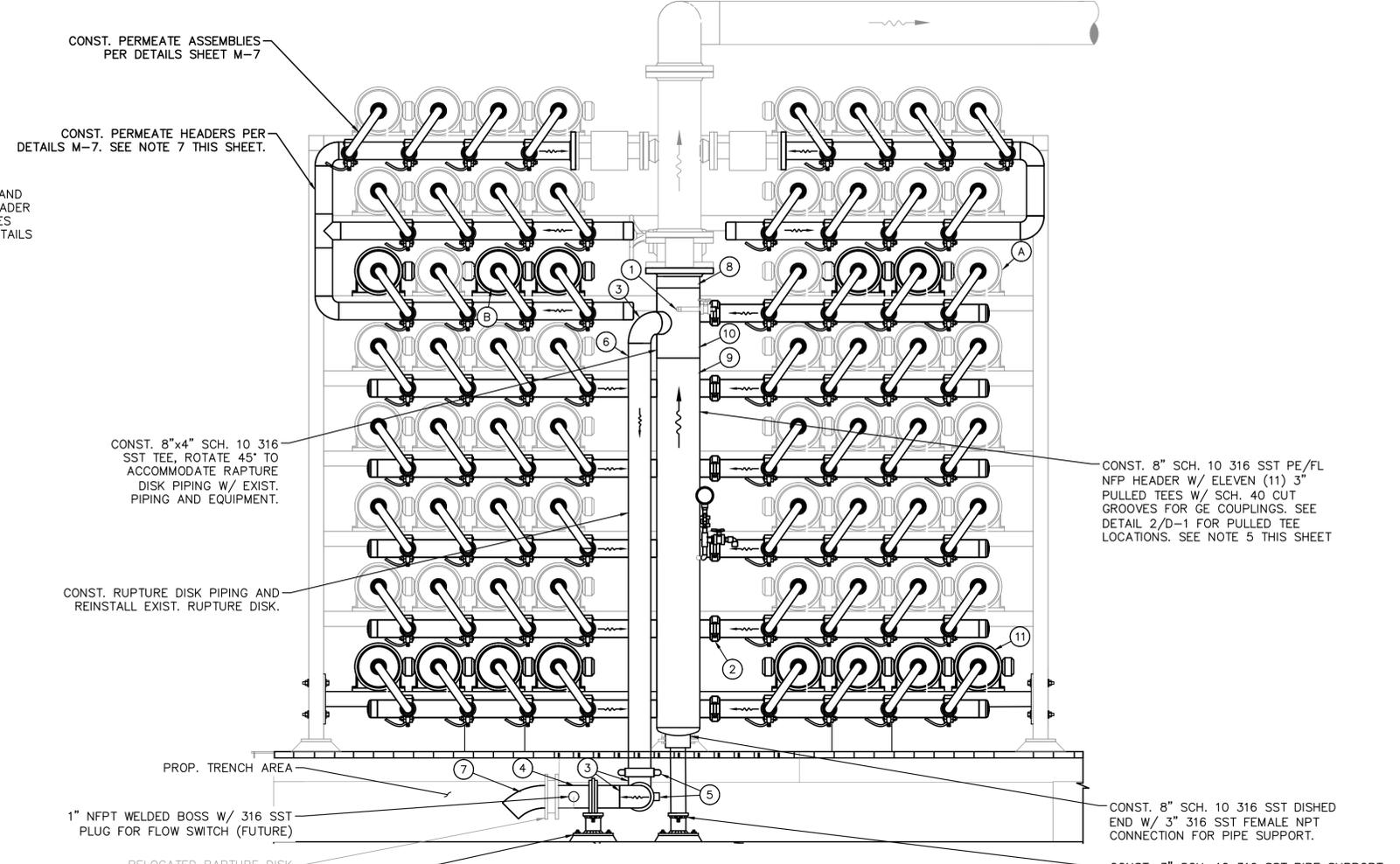
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**M-5**  
 5 OF 15

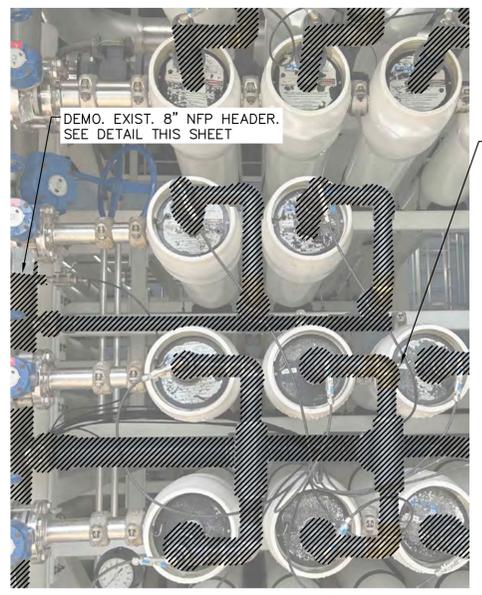
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**1** **EXIST. T6 36x16 ARRAY NFP SECTION**  
 24x36 SHEET SIZE:  $\frac{3}{8}'' = 1'-0''$   
 11x17 SHEET SIZE:  $\frac{3}{8}'' = 1'-0''$   
 SCALE FEET



**2** **PROP. T6 44x20 ARRAY NFP SECTION**  
 24x36 SHEET SIZE:  $\frac{3}{8}'' = 1'-0''$   
 11x17 SHEET SIZE:  $\frac{3}{8}'' = 1'-0''$   
 SCALE FEET



**3** **PHOTO DETAIL #1 - T6 NFP HEADER**  
 Scale: N.T.S.

DEMO. EXIST. T6 NFP  
 HEADER ASSEMBLIES.  
 REMOVE EXIST. SAMPLE  
 TUBING ASSEMBLY AND  
 REINSTALL IN NEW  
 ASSEMBLIES (TYP.)  
 SEE SHEET M-7

| SHEET KEYNOTE LEGEND |   |
|----------------------|---|
| KEYNOTE              | DESCRIPTION   |
| 1                    | 1/2" 300# HALF COUPLING W/ 1/2" 316 S.S.T. BALL VALVE AND 1/4" POLYETHYLENE TUBING CONNECTION TO SAMPLE PANEL. SEE NOTE 5 |
| 2                    | 3" 316 S.S.T. GE COUPLING   |
| 3                    | 4" SCH. 10 316 S.S.T. 90° BEND  |
| 4                    | 4" SCH. 10 316 S.S.T. PIPE, PE/PE, LENGTH TO SUIT   |
| 5                    | 4" 316 SST GE COUPLING  |
| 6                    | 4" 316 S.S.T. PIPE, PE/GE LENGTH TO SUIT  |
| 7                    | 4" SCH. 10 316 S.S.T. 45° BEND  |
| 8                    | 8" SCH. 10 316 SST PIPE, PE/FL, LENGTH TO SUIT  |
| 9                    | 8" SCH. 10 316 S.S.T. PIPE, PE/PE, LENGTH TO SUIT   |
| 10                   | 8"x4" SCH. 10 316 S.S.T. REDUCING TEE   |
| 11                   | PRESSURE VESSEL. SEE SPECS.   |

**GENERAL NOTES:**

- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND STRUCTURAL CALCULATIONS TO DEMONSTRATE FRAME IS ADEQUATE FOR ADDITIONAL VESSELS. CONTRACTOR RESPONSIBLE FOR ALL FRAME IMPROVEMENTS TO FACILITATE EXPANSION, INCLUDING ANY WORK NOT SHOWN HEREIN.
- ALL PIPING SHALL BE SCH. 10 316 SST, U.O.N. ALL GROOVES SHALL BE SCH. 40 CUT GROOVES.
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- CONTRACTOR SHALL VERIFY EXIST. LOCATION OF SAMPLE LINES AND TAPS. FOR ALL PIPING THAT IS TO BE REPLACED, CONTRACTOR SHALL INCLUDE CONNECTIONS FOR SAMPLE TUBING.
- PERMEATE HEADERS SHALL BE SUPPORTED BY EXIST. AND PROPOSED TRAIN FRAME STRUCTURAL MEMBERS. SUBMIT SHOP DRAWING.
- PERMEATE COLLECTION HEADER G.E. CONNECTION TO VESSEL J-BEND SHALL BE COORDINATED W/ RESPECTIVE TRAIN PERMEATE HEADER DIMENSIONS. CONTRACTOR IS HERIN NOTIFIED THAT DIMENSIONS ON ALL TRAINS ARE NOT THE SAME.

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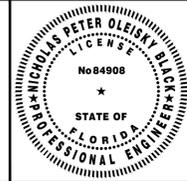
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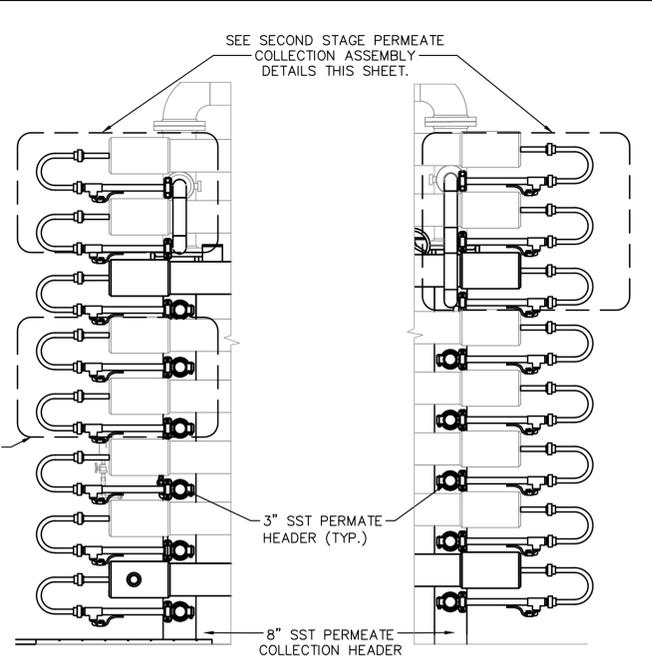
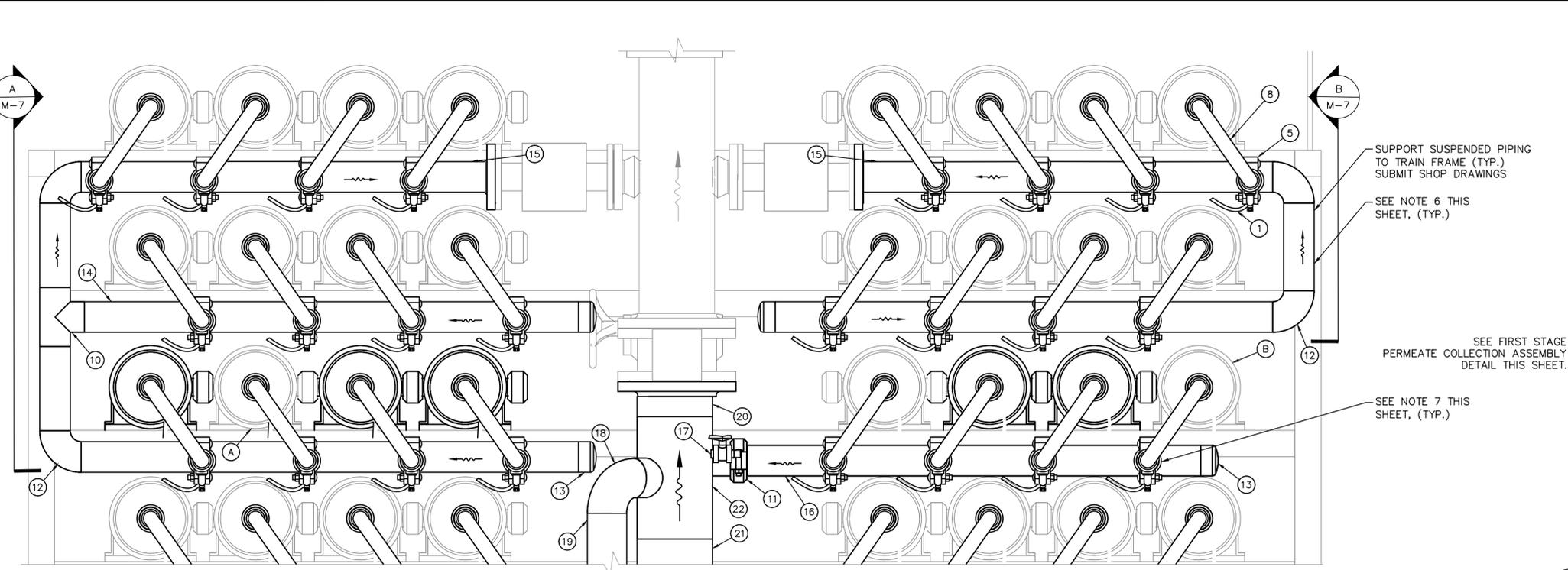
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 EXPANSION**  
 PREPARED FOR  
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 PALM BEACH COUNTY FLORIDA



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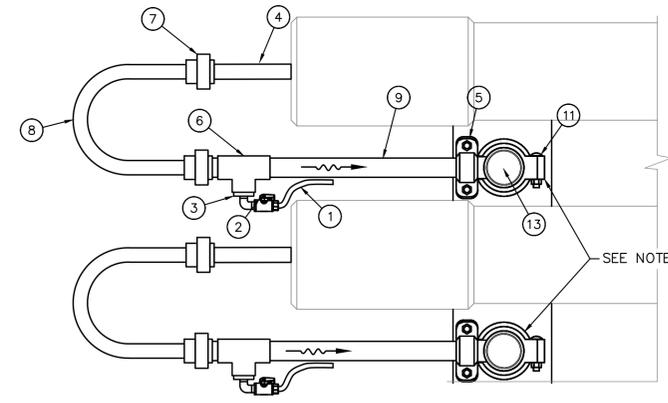
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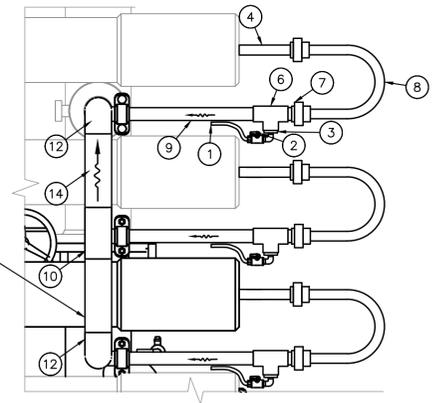


**1 TRAIN 6 AND 7 TYP. PERMEATE HEADER DETAIL**  
 24x36 SHEET SIZE: 1 1/2" = 1'-0"  
 11x17 SHEET SIZE: 3/4" = 1'-0"  
 SCALE FEET

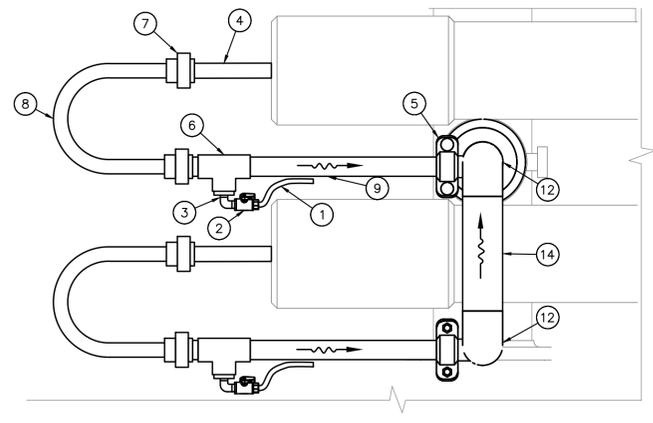
**2 TYPICAL PERMEATE COLLECTION SIDE DETAIL**  
 24x36 SHEET SIZE: 3/4" = 1'-0"  
 11x17 SHEET SIZE: 5/8" = 1'-0"  
 SCALE FEET



**3 PERMEATE COLLECTION DETAIL - 1ST STAGE**  
 24x36 SHEET SIZE: 1 1/2" = 1'-0"  
 11x17 SHEET SIZE: 3/4" = 1'-0"  
 SCALE FEET



**A TYPICAL PERMEATE COLLECTION 2ND STAGE SECTION DETAIL**  
 24x36 SHEET SIZE: 1" = 1'-0"  
 11x17 SHEET SIZE: 1/2" = 1'-0"  
 SCALE FEET



**B PERMEATE COLLECTION DETAIL - 2ND STAGE**  
 24x36 SHEET SIZE: 1 1/2" = 1'-0"  
 11x17 SHEET SIZE: 3/4" = 1'-0"  
 SCALE FEET

| SHEET KEYNOTE LEGEND |   |
|----------------------|---|
| KEYNOTE              | DESCRIPTION   |
| 1                    | 1/4" POLYETHYLENE TUBING TO SAMPLE PANEL  |
| 2                    | 1/4" SCH. 80 PVC BALL VALVE   |
| 3                    | 1-1/4" x 1/2" SCH. 80 PVC REDUCING BUSHING  |
| 4                    | 1-1/4" SCH. 80 PVC SOCKET X FIPT FEMALE ADAPTER   |
| 5                    | 1-1/4" 316 SST GE COUPLING  |
| 6                    | 1-1/4" 316 SCH. 80 PVC TEE  |
| 7                    | 1-1/4" SCH. 80 PVC UNION  |
| 8                    | 1-1/4" SCH. 80 PVC J-BEND   |
| 9                    | 1-1/4" SCH. 80 PVC PE/GE PIPE   |
| 10                   | 3" SCH. 10 316 SST TEE  |
| 11                   | 3" SCH. 10 316 SST GE COUPLING  |
| 12                   | 3" SCH. 10 316 SST 90 BEND  |
| 13                   | 3" SCH. 10 316 SST WELDED CAP   |
| 14                   | 3" SCH. 10 316 SST PIPE, PE/PE, LENGTH TO SUIT  |
| 15                   | 3" SCH. 10 316 SST PIPE, PE/FL, LENGTH TO SUIT  |
| 16                   | 3" SCH. 10 316 SST PIPE, GE/PE, LENGTH TO SUIT  |
| 17                   | 1/2" 300# HALF COUPLING W/ 1/2" 316 S.S.T. BALL VALVE AND 1/4" POLYETHYLENE TUBING CONNECTION TO SAMPLE PANEL. SEE NOTE 5 ON THIS SHEET |
| 18                   | 4" SCH. 10 316 SST 90° BEND   |
| 19                   | 4" SCH. 10 316 SST PIPE, PE/PE, LENGTH TO SUIT  |
| 20                   | 8" SCH. 10 316 SST PIPE, PE/FL, LENGTH TO SUIT  |
| 21                   | 8" SCH. 10 316 SST PIPE, PE/PE, LENGTH TO SUIT  |
| 22                   | 8"x4" SCH. 10 316 SST REDUCING TEE  |

**GENERAL NOTES:**

- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND STRUCTURAL CALCULATIONS TO DEMONSTRATE FRAME IS ADEQUATE FOR ADDITIONAL VESSELS. CONTRACTOR RESPONSIBLE FOR ALL FRAME IMPROVEMENTS TO FACILITATE EXPANSION, INCLUDING ANY WORK NOT SHOWN HEREIN.
- ALL PIPING SHALL BE SCH. 10 316 SST, U.O.N. ALL GROOVES SHALL BE SCH. 40 CUT GROOVES.
- ALL STAINLESS STEEL PIPING AND FITTINGS SHALL BE FINAL PICKLED AND PASSIVATED U.O.N, WELDED 316/316L SCHEDULE 10S MINIMUM.
- CONTRACTOR SHALL VERIFY EXIST. LOCATION OF SAMPLE LINES AND TAPS. FOR ALL PIPING THAT IS TO BE REPLACED, CONTRACTOR SHALL INCLUDE CONNECTIONS FOR SAMPLE TUBING.
- PERMEATE HEADERS SHALL BE SUPPORTED BY EXIST. AND PROPOSED TRAIN FRAME STRUCTURAL MEMBERS. SUBMIT SHOP DRAWING.
- PERMEATE COLLECTION HEADER G.E. CONNECTION TO VESSEL J-BEND SHALL BE COORDINATED W/ RESPECTIVE TRAIN PERMEATE HEADER DIMENSIONS. CONTRACTOR IS HEREIN NOTIFIED THAT DIMENSIONS ON ALL TRAINS ARE NOT THE SAME.

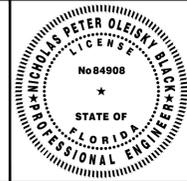
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**NOT FOR CONSTRUCTION**

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 WWW.KIMLEY-HORN.COM REGISTRY NO. 696

|             |           |
|-------------|-----------|
| KHA PROJECT | 144957082 |
| DATE        | NOV 2024  |
| SCALE       | AS SHOWN  |
| DESIGNED BY | NPOB      |
| DRAWN BY    | AH        |
| CHECKED BY  | JEP       |

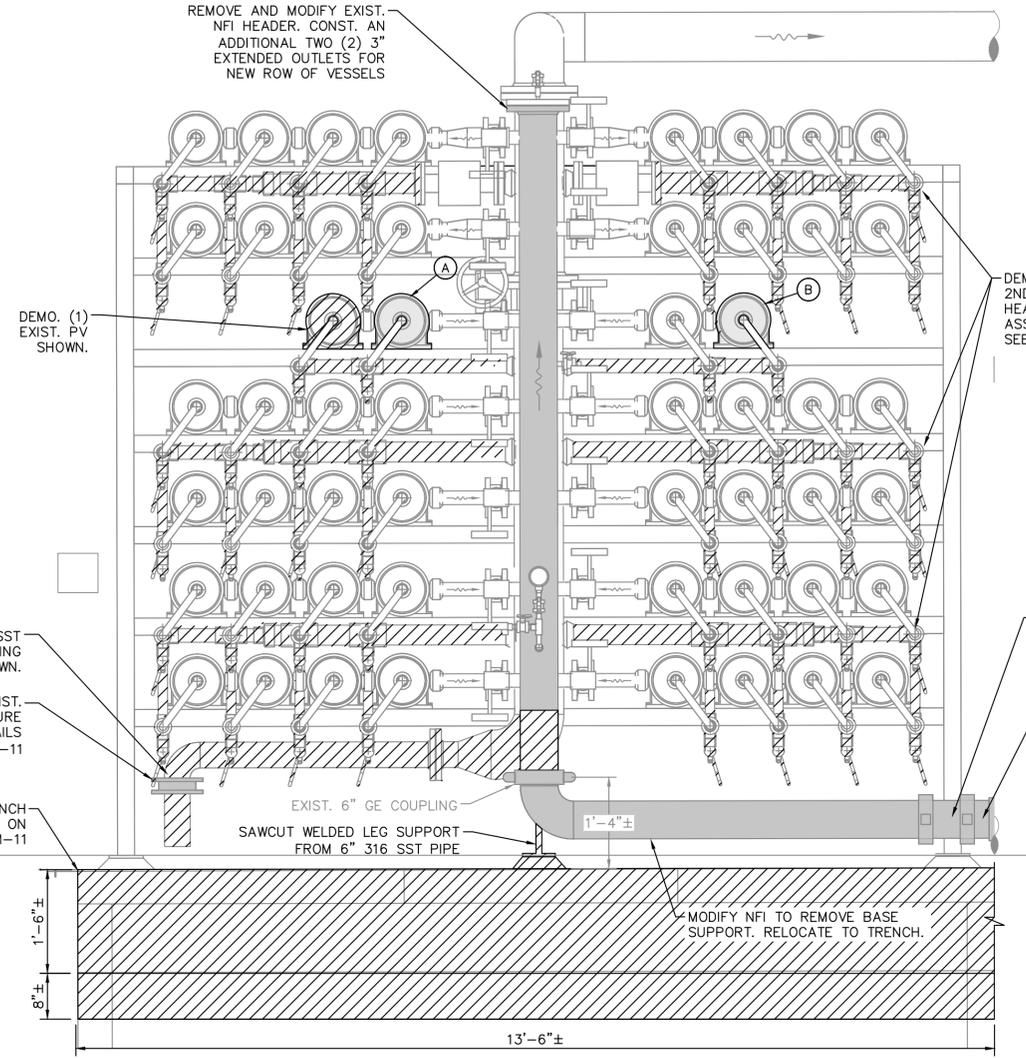
**WTP MEMBRANE PLANT #2 (M2) EXPANSION**  
 PREPARED FOR  
**VILLAGE OF WELLINGTON**  
 PALM BEACH COUNTY FLORIDA



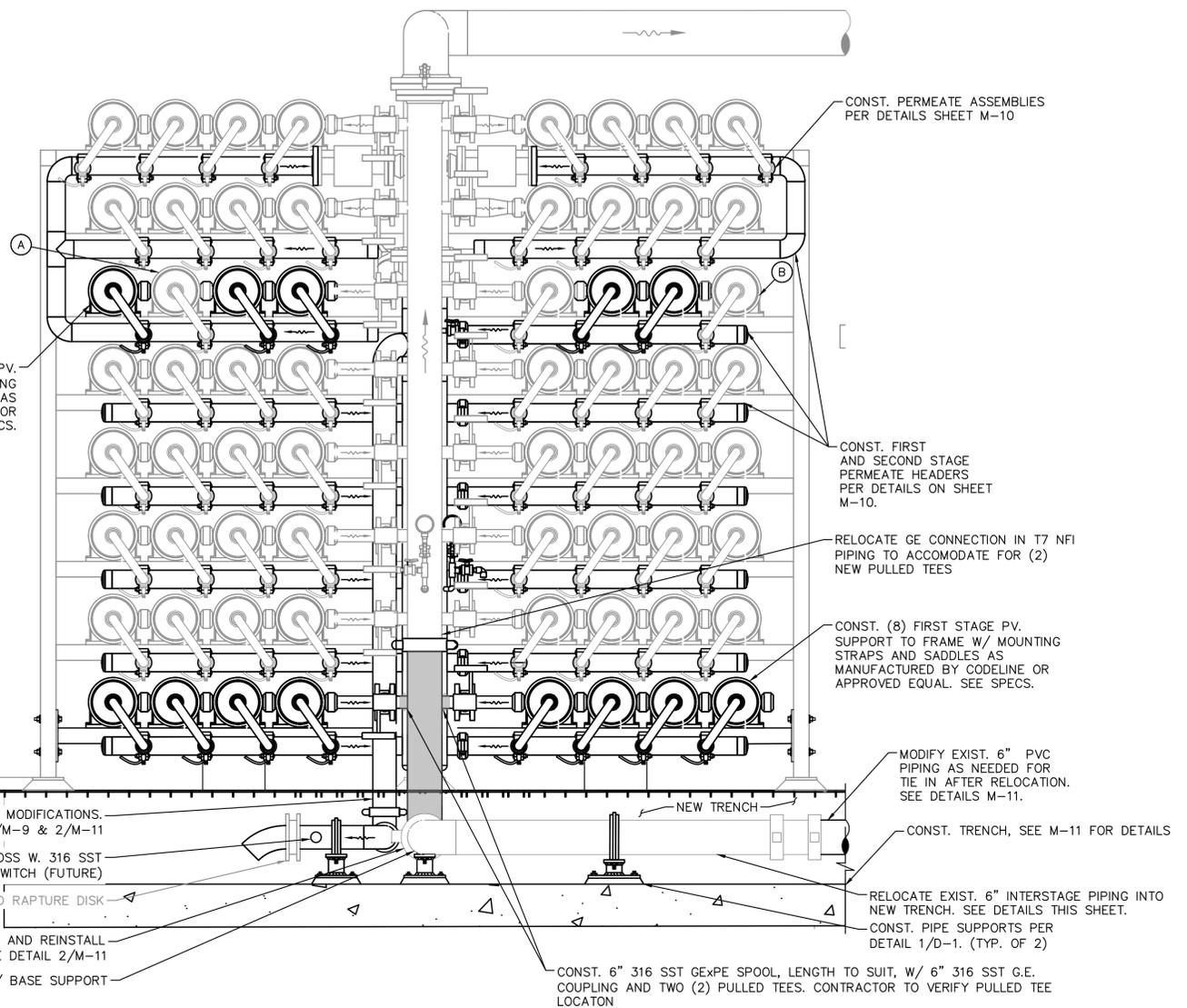
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY  
**TRAIN 6 NFP DETAILS**  
 ON THE DATE ADJACENT TO THE SEAL

SHEET NUMBER  
**M-7**  
 7 OF 15

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**1** EXIST. 36x16 ARRAY NFI SECTION (TYP.) 24x36 SHEET SIZE: 3/4" = 1'-0" 0 1 2  
 11x17 SHEET SIZE: 5/8" = 1'-0" SCALE FEET



**2** PROP. 44x20 ARRAY NFI SECTION (TYP.) 24x36 SHEET SIZE: 3/4" = 1'-0" 0 1 2  
 11x17 SHEET SIZE: 5/8" = 1'-0" SCALE FEET

**GENERAL NOTES:**

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- ALL PIPING SHALL BE SCH. 10 316 SST, U.O.N. ALL GROOVES SHALL BE SCH. 40 CUT GROOVES.
- ALL STAINLESS STEEL PIPING AND FITTINGS SHALL BE FINAL PICKLED AND PASSIVATED U.O.N, WELDED 316/316L SCHEDULE 10S MINIMUM.
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**PBCHD SUBMITTAL**

**NOT FOR CONSTRUCTION**

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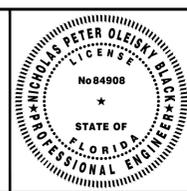
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| KHA PROJECT | 144957082 |
| DATE        | NOV 2024  |
| SCALE       | AS SHOWN  |
| DESIGNED BY | NPOB      |
| DRAWN BY    | AH        |
| CHECKED BY  | JEP       |

WTP MEMBRANE PLANT #2 (M2)  
EXPANSION

PREPARED FOR  
**VILLAGE OF WELLINGTON**  
 PALM BEACH COUNTY FLORIDA



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

TRAN 7 EXPANSION NFI  
SECTIONS

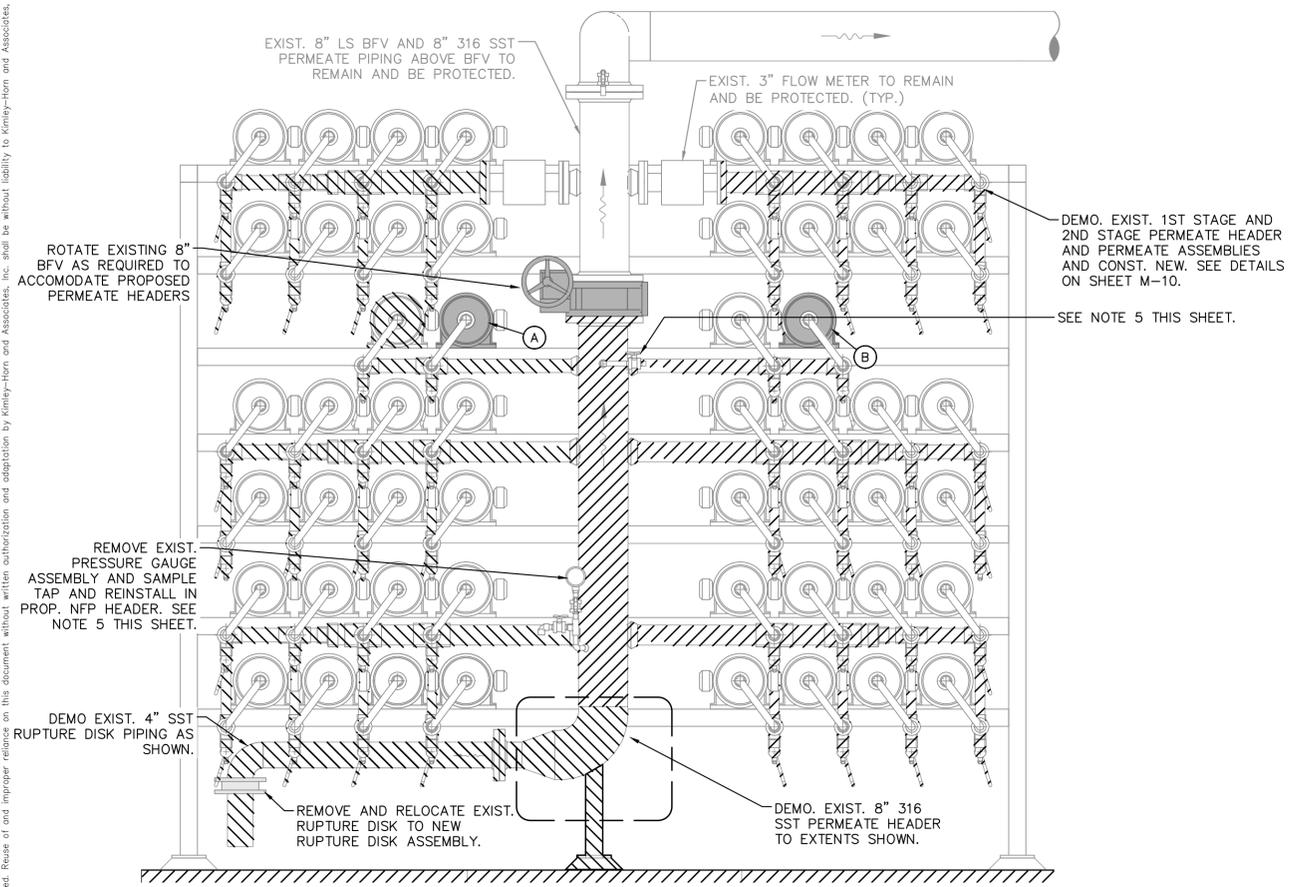
ON THE DATE ADJACENT TO THE SEAL

SHEET NUMBER

M-8

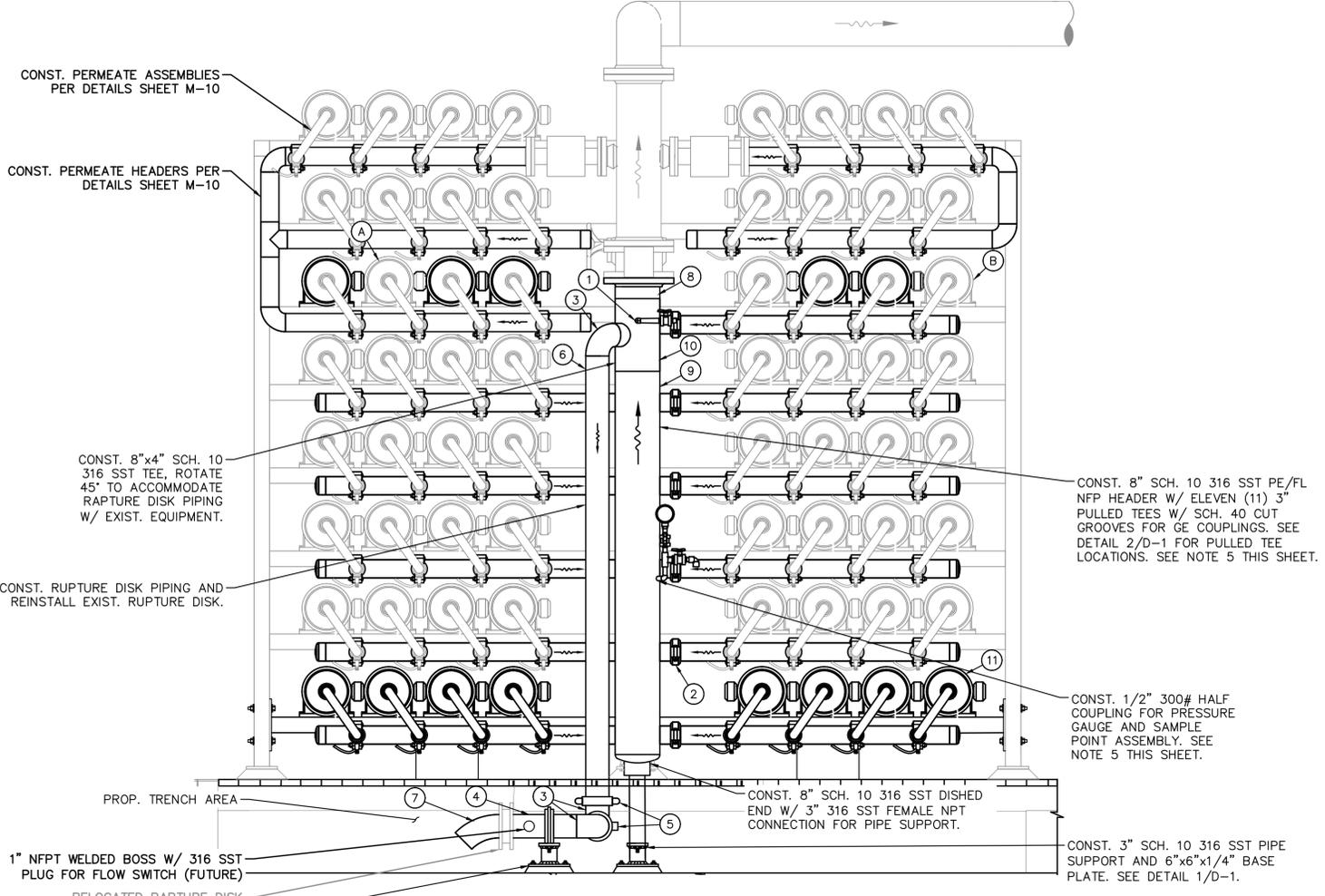
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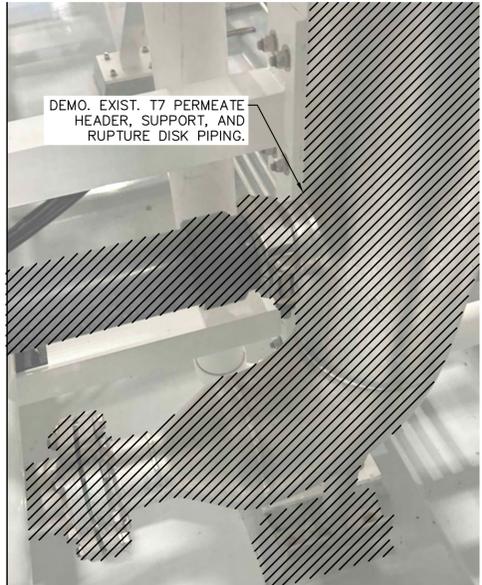
**1** EXIST. 36x16 ARRAY NFP SECTION (TYP.)

M-9  
24x36 SHEET SIZE: 3/4" = 1'-0"  
11x17 SHEET SIZE: 3/8" = 1'-0"  
SCALE FEET



**2** PROP. 44x20 ARRAY NFP SECTION (TYP.)

M-9  
24x36 SHEET SIZE: 3/4" = 1'-0"  
11x17 SHEET SIZE: 3/8" = 1'-0"  
SCALE FEET



**3** PHOTO DETAIL #2 - T7 NFP SUPPORT

M-9  
Scale: N.T.S.



**4** PHOTO DETAIL #3 - T7 NFP SUPPORT

M-9  
Scale: N.T.S.

| SHEET KEYNOTE LEGEND |   |
|----------------------|---|
| KEYNOTE              | DESCRIPTION   |
| 1                    | 1/2" 300# HALF COUPLING W/ 1/2" 316 S.S.T. BALL VALVE AND 1/4" POLYETHYLENE TUBING CONNECTION TO SAMPLE PANEL. SEE NOTE 5 |
| 2                    | 3" 316 S.S.T. GE COUPLING   |
| 3                    | 4" SCH. 10 316 S.S.T. 90° BEND  |
| 4                    | 4" SCH. 10 316 S.S.T. PIPE, PE/PE, LENGTH TO SUIT   |
| 5                    | 4" 314 SST GE COUPLING  |
| 6                    | 4" 316 S.S.T. PIPE, PE/GE LENGTH TO SUIT  |
| 7                    | 4" SCH. 10 316 S.S.T. 45° BEND  |
| 8                    | 8" SCH. 10 316 SST PIPE, PE/FL, LENGTH TO SUIT  |
| 9                    | 8" SCH. 10 316 S.S.T. PIPE, PE/PE, LENGTH TO SUIT   |
| 10                   | 8"x4" SCH. 10 316 S.S.T. REDUCING TEE   |
| 11                   | PRESSURE VESSEL. SEE SPECS.   |

**GENERAL NOTES:**

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- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND STRUCTURAL CALCULATIONS TO DEMONSTRATE FRAME IS ADEQUATE FOR ADDITIONAL VESSELS. CONTRACTOR RESPONSIBLE FOR ALL FRAME IMPROVEMENTS TO FACILITATE EXPANSION, INCLUDING ANY WORK NOT SHOWN HEREIN.
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**PBCHD SUBMITTAL**

**NOT FOR CONSTRUCTION**

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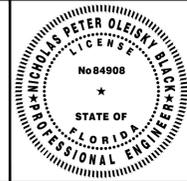
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| KHA PROJECT | 144957082 |
| DATE        | NOV 2024  |
| SCALE       | AS SHOWN  |
| DESIGNED BY | NPOB      |
| DRAWN BY    | AH        |
| CHECKED BY  | JEP       |

**WTP MEMBRANE PLANT #2 (M2) EXPANSION**

PREPARED FOR  
**VILLAGE OF WELLINGTON**

PALM BEACH COUNTY FLORIDA



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

**TRAIN 7 EXPANSION NFP SECTIONS**

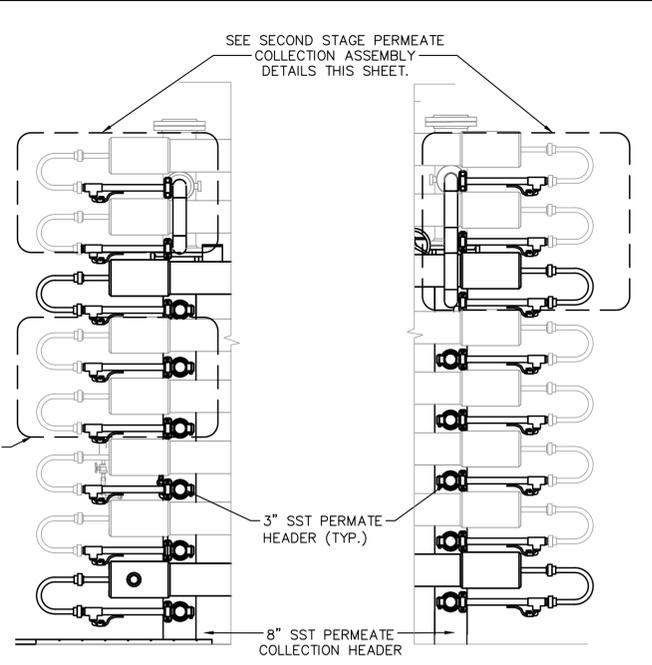
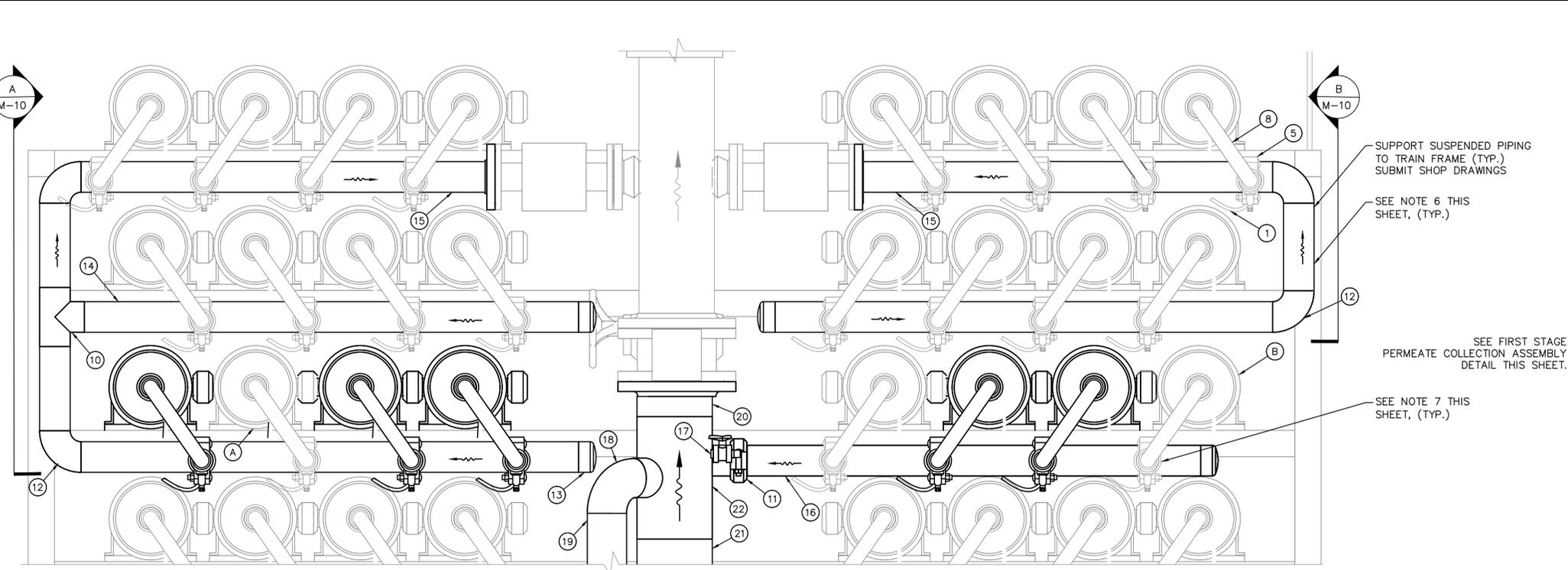
ON THE DATE ADJACENT TO THE SEAL

SHEET NUMBER

**M-9**

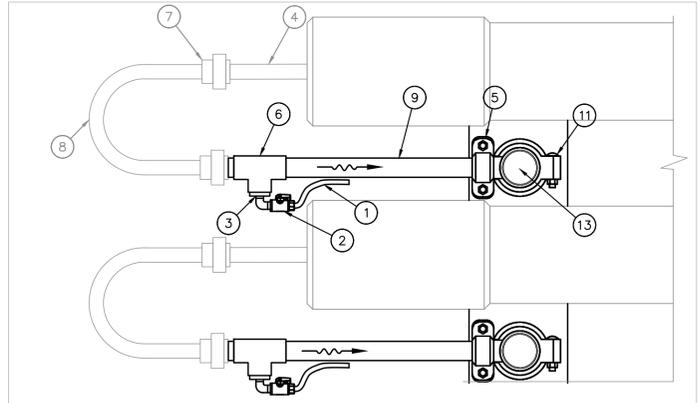
9 OF 15

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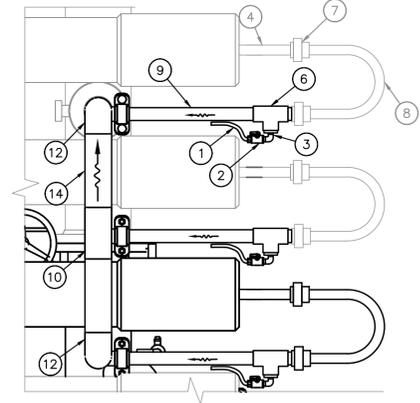


**1 TRAIN 7 PERMEATE HEADER DETAIL**  
 24x36 SHEET SIZE: 1 1/2" = 1'-0"  
 11x17 SHEET SIZE: 3/4" = 1'-0"  
 SCALE FEET

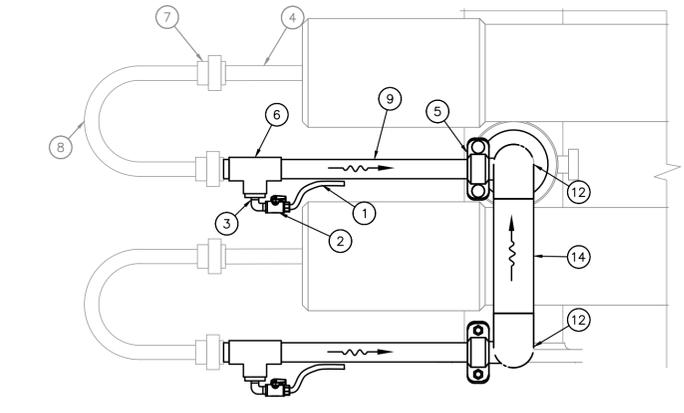
**2 T7 PERMEATE COLLECTION SIDE DETAIL**  
 24x36 SHEET SIZE: 3/4" = 1'-0"  
 11x17 SHEET SIZE: 5/8" = 1'-0"  
 SCALE FEET



**3 T7 PERMEATE COLLECTION DETAIL - 1ST STAGE**  
 24x36 SHEET SIZE: 1 1/2" = 1'-0"  
 11x17 SHEET SIZE: 3/4" = 1'-0"  
 SCALE FEET



**A T7 PERMEATE COLLECTION DETAIL 2ND STAGE**  
 24x36 SHEET SIZE: 1" = 1'-0"  
 11x17 SHEET SIZE: 3/2" = 1'-0"  
 SCALE FEET



**B T7 PERMEATE COLLECTION DETAIL - 2ND STAGE**  
 24x36 SHEET SIZE: 1 1/2" = 1'-0"  
 11x17 SHEET SIZE: 3/4" = 1'-0"  
 SCALE FEET

| SHEET KEYNOTE LEGEND |   |
|----------------------|---|
| KEYNOTE              | DESCRIPTION   |
| 1                    | 1/4" POLYETHYLENE TUBING TO SAMPLE PANEL  |
| 2                    | 1/4" SCH. 80 PVC BALL VALVE   |
| 3                    | 1-1/4" x 1/2" SCH. 80 PVC REDUCING BUSHING  |
| 4                    | EXIST. 1-1/4" SCH. 80 PVC SOCKET X FIPT FEMALE ADAPTER  |
| 5                    | 1-1/4" 316 SST GE COUPLING  |
| 6                    | 1-1/4" 316 SCH. 80 PVC TEE  |
| 7                    | EXIST. 1-1/4" SCH. 80 PVC UNION   |
| 8                    | EXIST. 1-1/4" SCH. 80 PVC J-BEND  |
| 9                    | 1-1/4" SCH. 80 PVC PE/GE PIPE   |
| 10                   | 3" SCH. 10 316 SST TEE  |
| 11                   | 3" SCH. 10 316 SST GE COUPLING  |
| 12                   | 3" SCH. 10 316 SST 90 BEND  |
| 13                   | 3" SCH. 10 316 SST WELDED CAP   |
| 14                   | 3" SCH. 10 316 SST PIPE, PE/PE, LENGTH TO SUIT  |
| 15                   | 3" SCH. 10 316 SST PIPE, PE/FL, LENGTH TO SUIT  |
| 16                   | 3" SCH. 10 316 SST PIPE, GE/PE, LENGTH TO SUIT  |
| 17                   | 1/2" 300# HALF COUPLING W/ 1/2" 316 S.S.T. BALL VALVE AND 1/4" POLYETHYLENE TUBING CONNECTION TO SAMPLE PANEL. SEE NOTE 5 ON THIS SHEET |
| 18                   | 4" SCH. 10 316 SST 90° BEND   |
| 19                   | 4" SCH. 10 316 SST PIPE, PE/PE, LENGTH TO SUIT  |
| 20                   | 8" SCH. 10 316 SST PIPE, PE/FL, LENGTH TO SUIT  |
| 21                   | 8" SCH. 10 316 SST PIPE, PE/PE, LENGTH TO SUIT  |
| 22                   | 8"x4" SCH. 10 316 SST REDUCING TEE  |

**GENERAL NOTES:**

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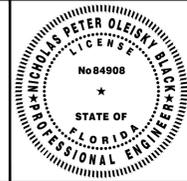
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| KHA PROJECT | 144957082 |
| DATE        | NOV 2024  |
| SCALE       | AS SHOWN  |
| DESIGNED BY | NPOB      |
| DRAWN BY    | AH        |
| CHECKED BY  | JEP       |

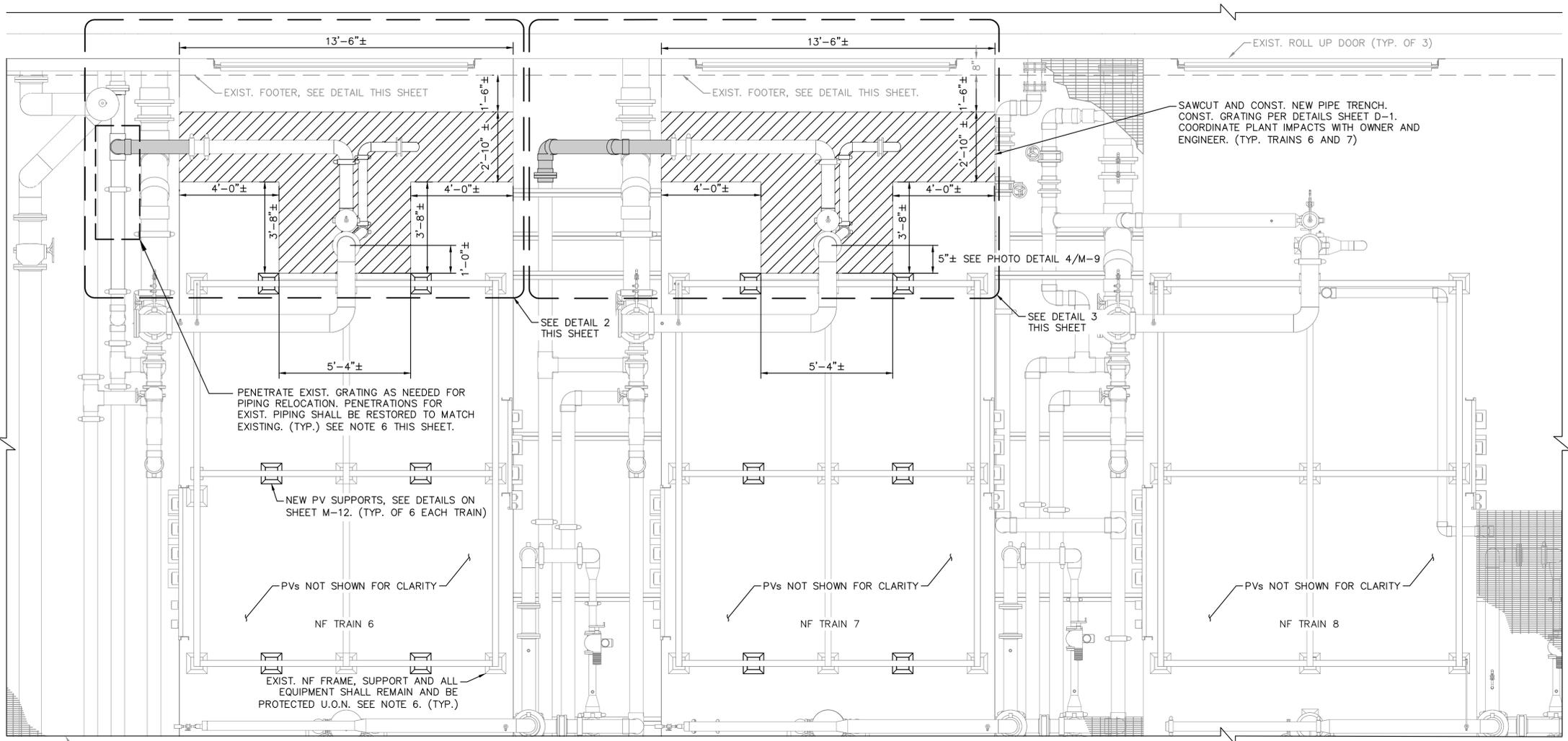
**WTP MEMBRANE PLANT #2 (M2)**  
**EXPANSION**  
 PREPARED FOR  
**VILLAGE OF WELLINGTON**  
 PALM BEACH COUNTY FLORIDA



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY  
**TRAIN 7 NFP DETAILS**  
 ON THE DATE ADJACENT TO THE SEAL

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| SHEET NUMBER | M-10    |
| 10 OF 15     | Page 24 |

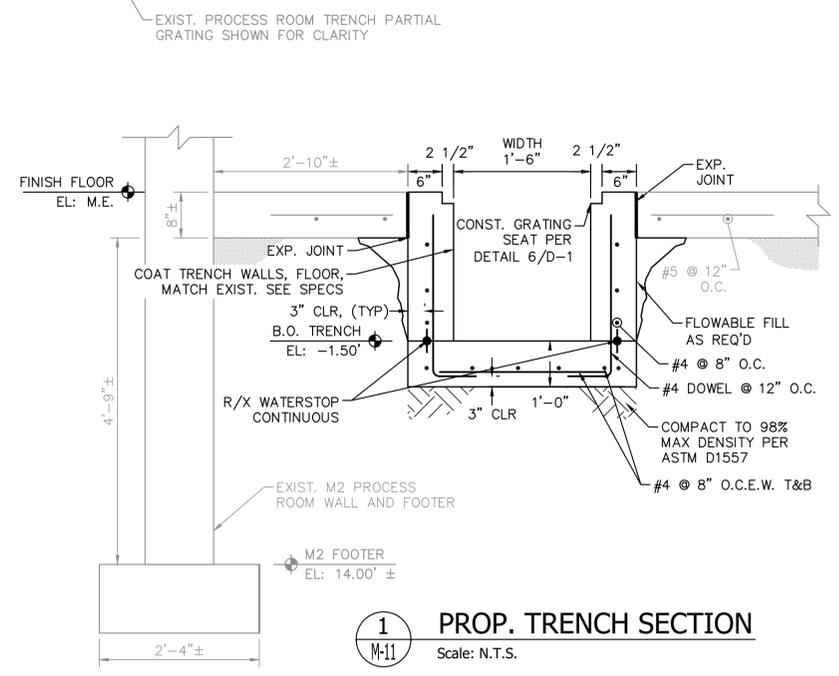
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 Sheet Set: W04 M2 EXPANSION Layout: M-11 PROCESS ROOM TRENCH PLAN AND DETAILS  
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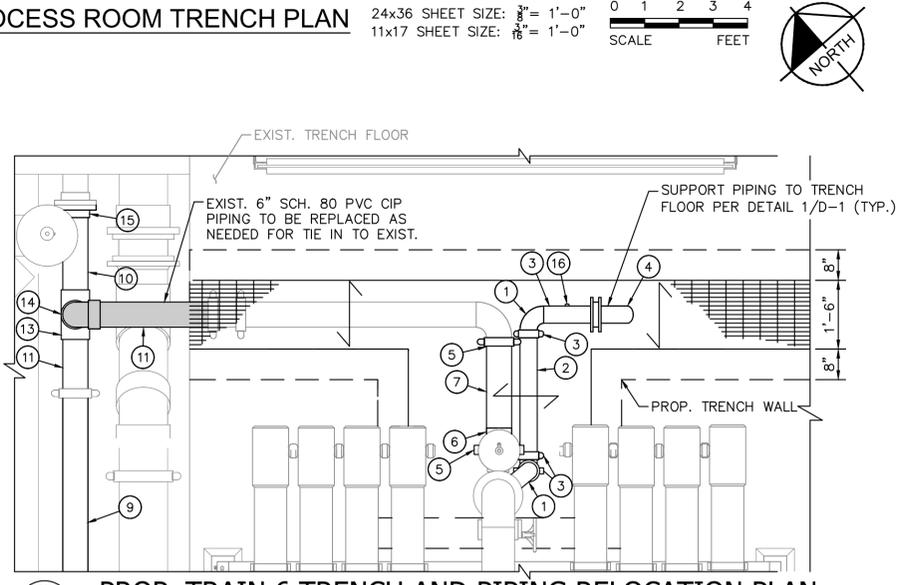
**PROCESS ROOM TRENCH PLAN** 24x36 SHEET SIZE:  $\frac{3}{8}'' = 1'-0''$   
 11x17 SHEET SIZE:  $\frac{1}{8}'' = 1'-0''$  SCALE FEET

- GENERAL NOTES:**
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  - ALL STAINLESS STEEL PIPING AND FITTINGS SHALL BE FINAL PICKLED AND PASSIVATED U.O.N, WELDED 316/316L SCHEDULE 10S MINIMUM.
  - CONTRACTOR SHALL VERIFY EXIST. LOCATION OF SAMPLE LINES AND TAPS. FOR ALL PIPING THAT IS TO BE REPLACED, CONTRACTOR SHALL INCLUDE CONNECTIONS FOR SAMPLE TUBING.
  - ALUMINUM BAR GRATING SHALL BE FULLY BANDED AT PERIMETER & PENETRATIONS.

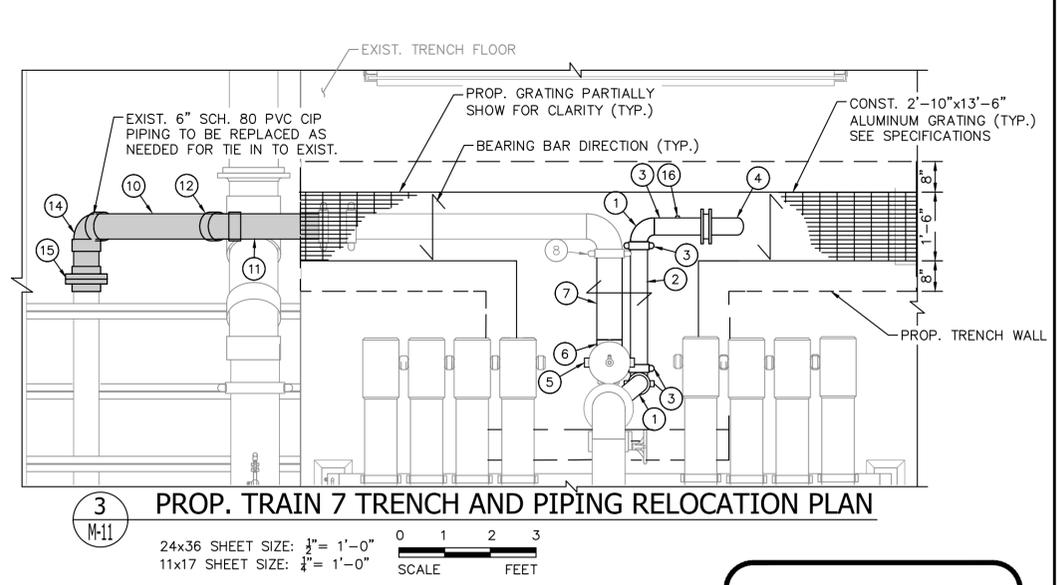
| SHEET KEYNOTE LEGEND |  |
|----------------------|--|
| ITEM                 | DESCRIPTION  |
| 1                    | 4" SCH. 10 316 S.S.T. 90° BEND                               |
| 2                    | 4" SCH. 10 316 S.S.T. PIPE, PE/GE, LENGTH TO SUIT            |
| 3                    | 4" 316 S.S.T. GE COUPLING                                    |
| 4                    | 4" SCH. 10 316 SST 45° BEND                                  |
| 5                    | 6" 316 S.S.T. GE COUPLING                                    |
| 6                    | 6" SCH. 10 316 S.S.T. 90° BEND                               |
| 7                    | 6" SCH. 10 316 S.S.T. PIPE, PE/GE, LENGTH TO SUIT            |
| 8                    | EXIST. 6" 316 S.S.T. GE COUPLING (TRAIN 7 ONLY)              |
| 9                    | 6" SCH. 80 PVC GE/GE   |
| 10                   | 6" SCH. 80 PVC PE/PE   |
| 11                   | 6" SCH. 80 PVC PE/GE   |
| 12                   | 6" SCH. 80 PVC 45° BEND                                      |
| 13                   | 6" SCH. 80 PVC TEE   |
| 14                   | 6" SCH. 80 PVC 90° BEND                                      |
| 15                   | 6" SCH. 80 PVC VAN STONE FLANGE                              |
| 16                   | 1" NFPT WELDED BOSS W/ 316 SST PLUG FOR FLOW SWITCH (FUTURE) |



**1 PROP. TRENCH SECTION**  
 Scale: N.T.S.



**2 PROP. TRAIN 6 TRENCH AND PIPING RELOCATION PLAN**  
 24x36 SHEET SIZE:  $\frac{3}{8}'' = 1'-0''$   
 11x17 SHEET SIZE:  $\frac{1}{8}'' = 1'-0''$  SCALE FEET



**3 PROP. TRAIN 7 TRENCH AND PIPING RELOCATION PLAN**  
 24x36 SHEET SIZE:  $\frac{3}{8}'' = 1'-0''$   
 11x17 SHEET SIZE:  $\frac{1}{8}'' = 1'-0''$  SCALE FEET

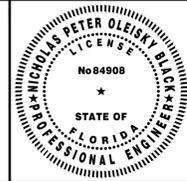
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**Kimley»Horn**

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KHA PROJECT  
 144957082  
 DATE  
 APR 2024  
 SCALE AS SHOWN  
 DESIGNED BY NPOB  
 DRAWN BY AH  
 CHECKED BY JEP

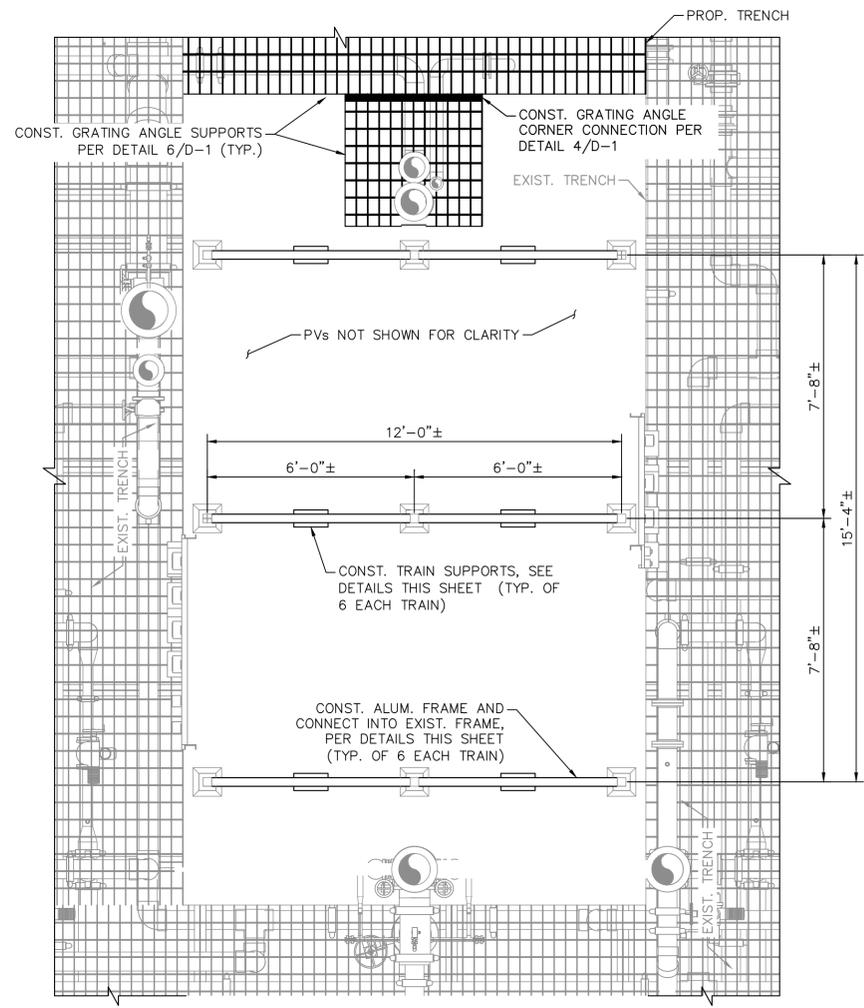
**WTP MEMBRANE PLANT #2 (M2)  
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 PREPARED FOR  
**VILLAGE OF WELLINGTON**  
 PALM BEACH COUNTY  
 FLORIDA



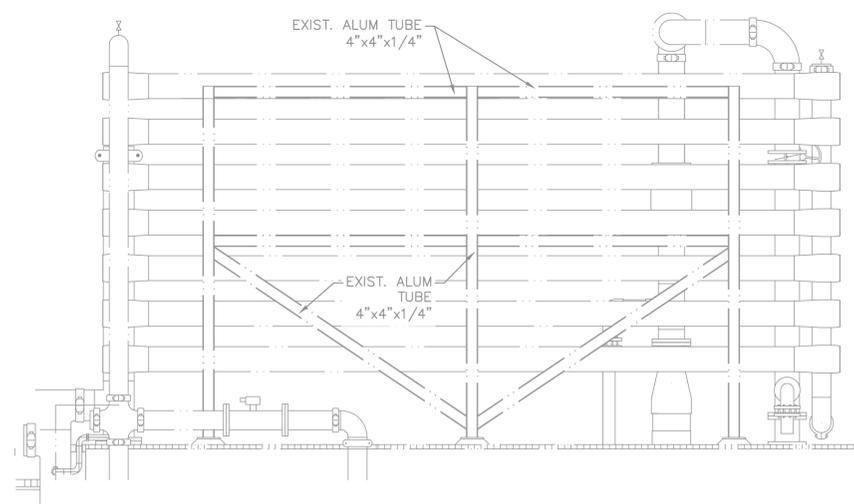
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY  
**PROCESS ROOM TRENCH PLAN AND DETAILS**  
 ON THE DATE ADJACENT TO THE SEAL

SHEET NUMBER  
**M-11**  
 11 OF 15

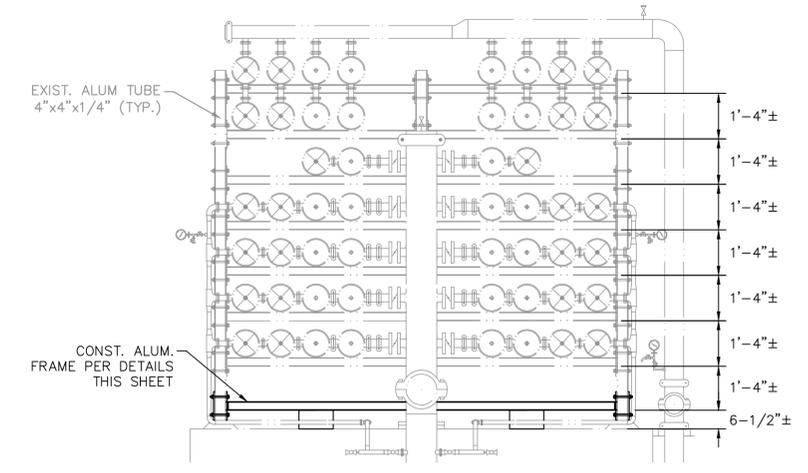
Plotted By: Cornu, Daniel Sheet Set: W04 M2 EXPANSION Layout: M-12 TRAINS 6 & 7 FRAME DETAILS November 15, 2024 11:47:40am K:\web\_civil\144957082 - m2 expansion\CAD\plansheets\M-12 TRAINS 6 & 7 FRAME DETAILS.dwg  
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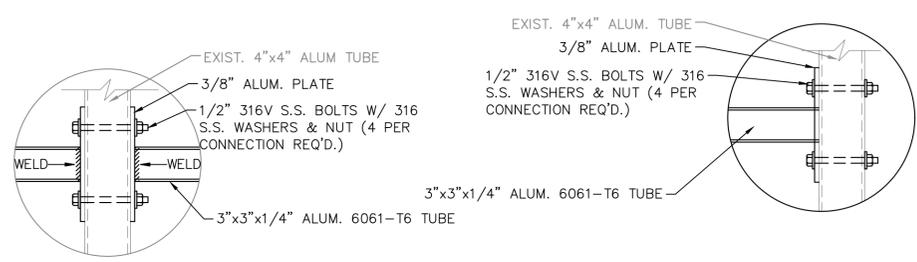
**1 NF TRAIN 6 AND 7 FRAME SECTION TOP VIEW**  
 24x36 SHEET SIZE:  $\frac{3}{8}'' = 1'-0''$   
 11x17 SHEET SIZE:  $\frac{3}{16}'' = 1'-0''$   
 SCALE FEET



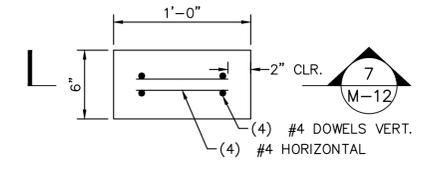
**2 EXIST. NF TRAIN 6 AND 7 FRAME SECTION SIDE VIEW**  
 24x36 SHEET SIZE:  $\frac{3}{8}'' = 1'-0''$   
 11x17 SHEET SIZE:  $\frac{3}{16}'' = 1'-0''$   
 SCALE FEET



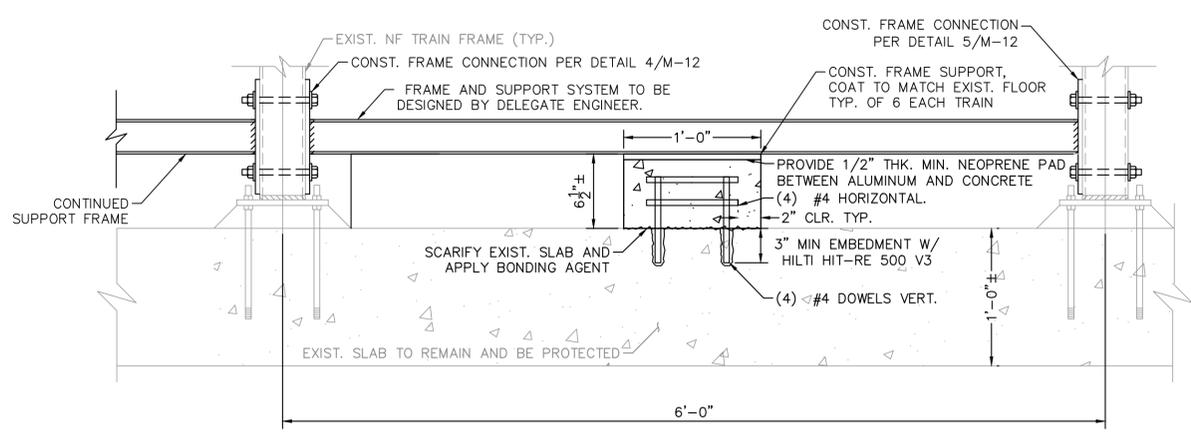
**3 NF TRAIN 6 AND 7 FRAME SECTION FRONT VIEW**  
 Scale: N.T.S.



**5 NF TRAIN 6 AND 7 FRAME DETAIL**  
 24x36 SHEET SIZE:  $1\frac{1}{2}'' = 1'-0''$   
 11x17 SHEET SIZE:  $\frac{3}{8}'' = 1'-0''$   
 SCALE FEET



**6 NF TRAIN 6 AND 7 FRAME SUPPORT PLAN**  
 24x36 SHEET SIZE:  $1\frac{1}{2}'' = 1'-0''$   
 11x17 SHEET SIZE:  $\frac{3}{8}'' = 1'-0''$   
 SCALE FEET



**7 NF TRAIN 6 AND 7 FRAME AND SUPPORT SECTION**  
 24x36 SHEET SIZE:  $1\frac{1}{2}'' = 1'-0''$   
 11x17 SHEET SIZE:  $\frac{3}{8}'' = 1'-0''$   
 SCALE FEET

**GENERAL NOTES:**

- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND STRUCTURAL CALCULATIONS TO DEMONSTRATE FRAME IS ADEQUATE FOR ADDITIONAL VESSELS. CONTRACTOR RESPONSIBLE FOR ALL FRAME IMPROVEMENTS TO FACILITATE EXPANSION, INCLUDING ANY WORK NOT SHOWN HEREIN.
- SUPPORT FRAME SUPPLIER SHALL PROVIDE DRAWINGS AND CALCULATIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA THAT MEETS THE REQUIREMENTS OF FLORIDA BUILDING CODE, LATEST EDITION.
- CONTRACTOR SHALL SUBMIT DESIGN INFORMATION, SIGNED AND SEALED DELEGATE ENGINEER CALCULATIONS IN SHOP DRAWINGS TO THE ENGINEER FOR REVIEW.
- ALL PIPING SHALL BE SCH. 10 316 SST, U.O.N. ALL GROOVES SHALL BE SCH. 40 CUT GROOVES.
- ALL STAINLESS STEEL PIPING AND FITTINGS SHALL BE FINAL PICKLED AND PASSIVATED U.O.N, WELDED 316/316L SCHEDULE 10S MINIMUM.
- CONTRACTOR SHALL VERIFY EXIST. LOCATION OF SAMPLE LINES AND TAPS. FOR ALL PIPING THAT IS TO BE REPLACED, CONTRACTOR SHALL INCLUDE CONNECTIONS FOR SAMPLE TUBING.
- ALUMINUM BAR GRATING SHALL BE FULLY BANDED @ PERIMETER & PENETRATIONS.

**PBCHD SUBMITTAL**  
**NOT FOR CONSTRUCTION**

| No. | REVISIONS | DATE | BY |
|-----|-----------|------|----|
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 1920 WEKIVA WAY SUITE 200, WEST PALM BEACH, FL 33411  
 PHONE: 561-845-0665 FAX: 561-863-8175  
 WWW.KIMLEY-HORN.COM REGISTRY NO. 696

**WTP MEMBRANE PLANT #2 (M2)**  
**EXPANSION**  
 PREPARED FOR  
**VILLAGE OF WELLINGTON**  
 PALM BEACH COUNTY FLORIDA

**TRAINS 6 & 7 FRAME DETAILS**

|              |         |
|--------------|---------|
| SHEET NUMBER | M-12    |
| 12 OF 15     | Page 26 |

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REMOVE EXIST. SAMPLE PORTS AND DEMO. EXIST. 61.5"x60" PANEL. CONST. NEW PANEL AND ADD PENETRATIONS AS NEEDED TO ACCOMMODATE 75 SAMPLE PORTS.

REINSTALL SIXTY (60) EXIST. SAMPLE PORT ASSEMBLIES AND CONST. FIFTEEN (15) NEW PER DETAIL THIS SHEET.

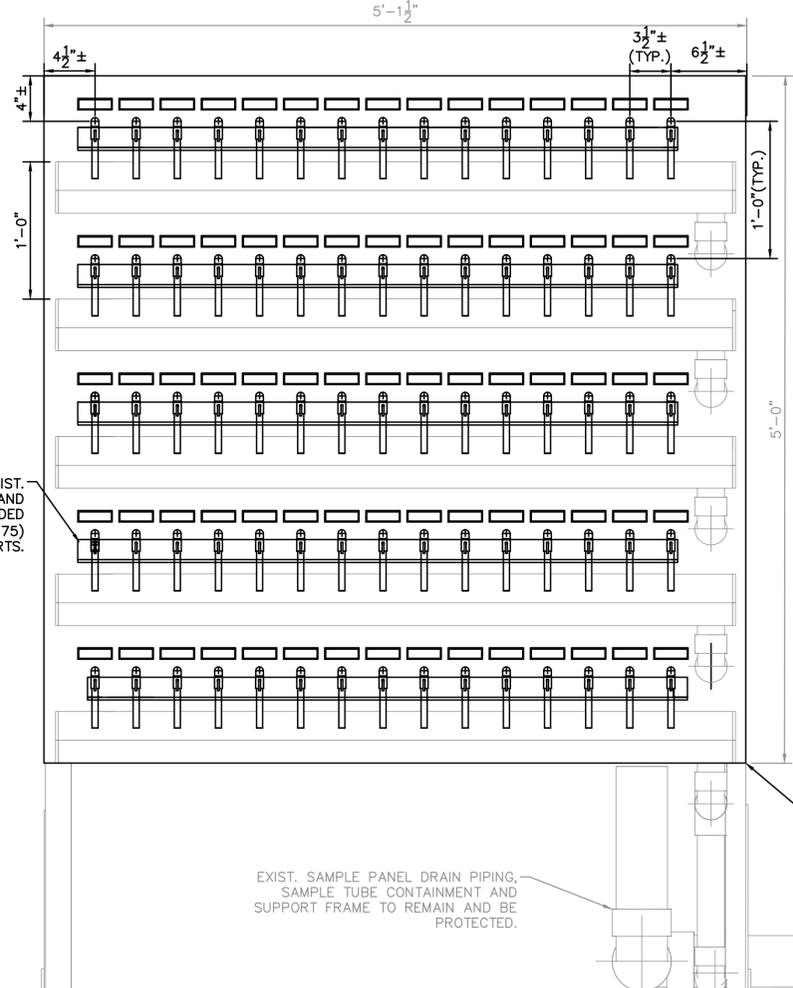
EXIST. DRAIN CHANNELS AND PIPING TO BE REMOVED AND REINSTALLED ON NEW PANEL.

REPLACE SAMPLE PORT LABELS WITH NEW PER DETAIL 3 THIS SHEET.

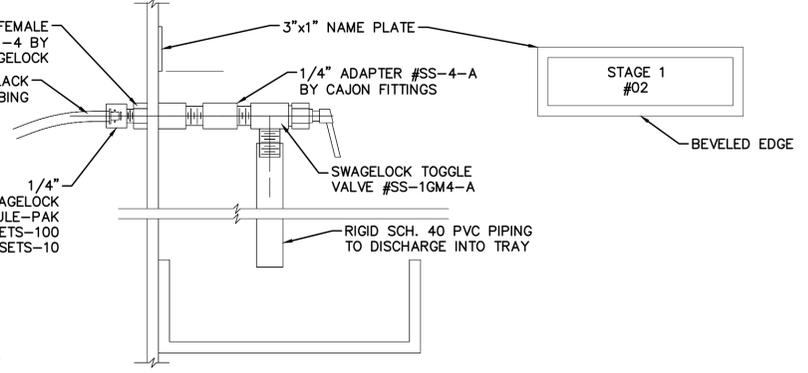
SAMPLE TUBING FOR NEW PVs TO BE ROUTED THROUGH EXIST. CONTAINMENT PIPING.

EXIST. SAMPLE PANEL DRAIN, PIPING, SAMPLE TUBE CONTAINMENT AND SUPPORT FRAME TO REMAIN.

**1** NF TRAIN 6 AND 7 SAMPLE PANEL (TYP.) PHOTO DETAIL  
 Scale: NTS



**2** PROP. TRAIN 6 AND 7 (TYP.) SAMPLE PANEL LAYOUT  
 Scale: 1-1/2" = 1'-0"



**3** SAMPLE PORT AND NAME PLATE DETAIL  
 Scale: NTS

- NOTES:
- NAMEPLATES TO BE ENGRAVED 5/32" HIGH LETTERS ON A BACKGROUND MATCHING EXIST. OF 1/16" THICK LAMINATED PLASTIC.
  - ALL NOMENCLATURE TO BE STRAIGHT UP AND DOWN. LETTERING TO BE CENTERED ON NAME PLATES.
  - NOMENCLATURE OF LABELS SHALL BE SUBJECT TO OWNER'S APPROVAL.

- NOTES:
- PROVIDE TUBING AND SAMPLING ABILITY AS REQUIRED TO SECURE A PRODUCT SAMPLE FROM EACH VESSEL, FEED HEADER, CONCENTRATE HEADER, INTERSTAGE HEADER, AND OTHER SOURCES AS INDICATED BY THE EXISTING SAMPLE PANEL.
  - ROUTING OF ALL SAMPLE TUBING SHALL BE SIMILAR TO EXISTING TRAIN. PROVIDE 316 S.S. ISOLATION VALVES AT CONNECTIONS POINTS FOR ALL SAMPLE TUBING EXCEPT EACH INDIVIDUAL PRODUCT SAMPLE WHERE PVC VALVES MAY BE USED.
  - PROVIDE SAMPLE PANEL CONNECTION FOR EACH PRODUCT TUBE AT THE FOLLOWING ADDITIONAL POINTS FOR TRAINS 6 AND 7: COMMON FIRST STAGE PRODUCT, COMMON SECOND STAGE PRODUCT, COMMON TOTAL PRODUCT, COMMON REJECT, COMMON FIRST STAGE FEES, AND INTERSTAGE FEED.
  - RUN LABELED SAMPLE TUBING TO TRAINS 7 AND 8 AND SAND CONNECT TUBING TO TRAIN 7 AND 8 POINTS. PROVIDE SAMPLE PANEL WITH VALVING AS REQUIRED FRO VESSELS ON TRAIN 8.
  - PANEL TO PROVIDE 75 SAMPLE LOCATIONS TOTAL.

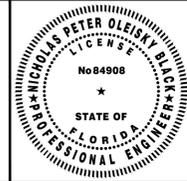
**PBCHD SUBMITTAL**  
**NOT FOR CONSTRUCTION**

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KHA PROJECT 144957082  
 DATE NOV 2024  
 SCALE AS SHOWN  
 DESIGNED BY NPOB  
 DRAWN BY AH  
 CHECKED BY JEP

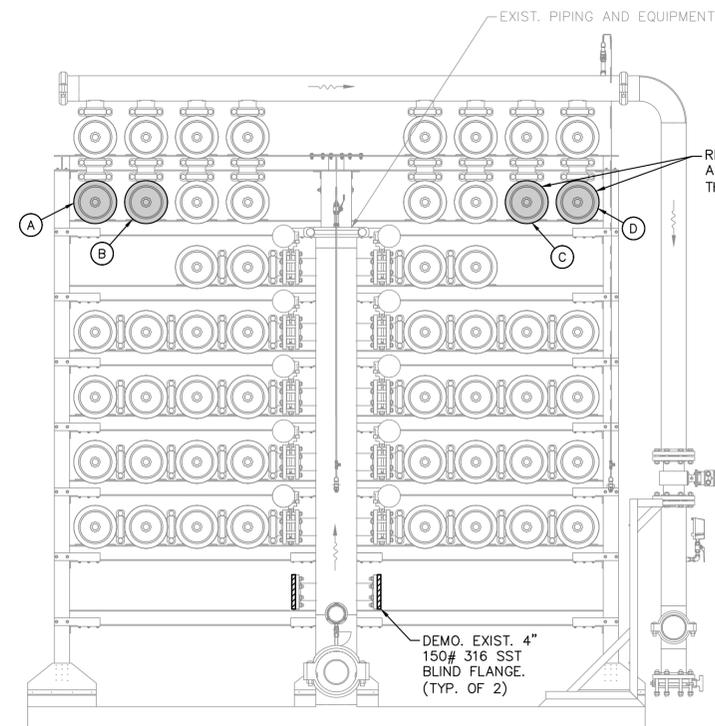
**WTP MEMBRANE PLANT #2 (M2) EXPANSION**  
 PREPARED FOR VILLAGE OF WELLINGTON  
 PALM BEACH COUNTY FLORIDA



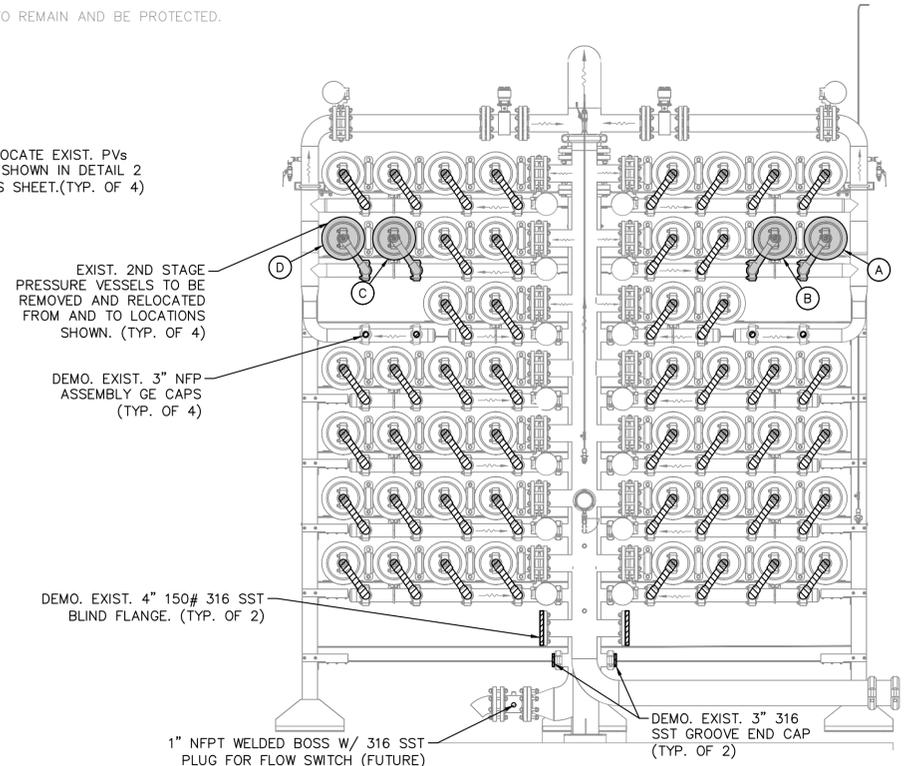
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY  
**TRAINS 6 & 7 SAMPLE PANEL DETAILS**  
 ON THE DATE ADJACENT TO THE SEAL.

SHEET NUMBER  
**M-13**  
 13 OF 15

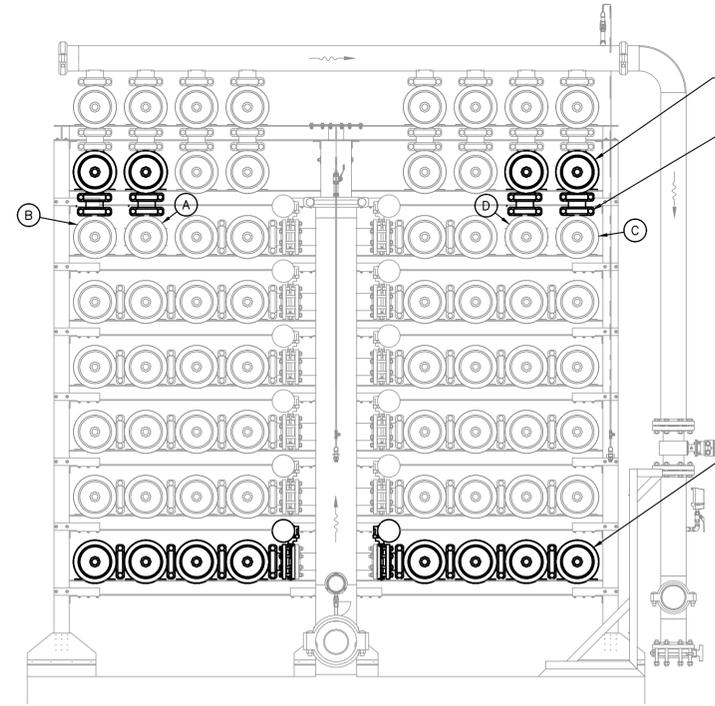
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 Sheet Set: W04 M2 EXPANSION Layout: M-14 TRAIN 8 EXPANSION SECTIONS - November 15, 2024 11:49:36am  
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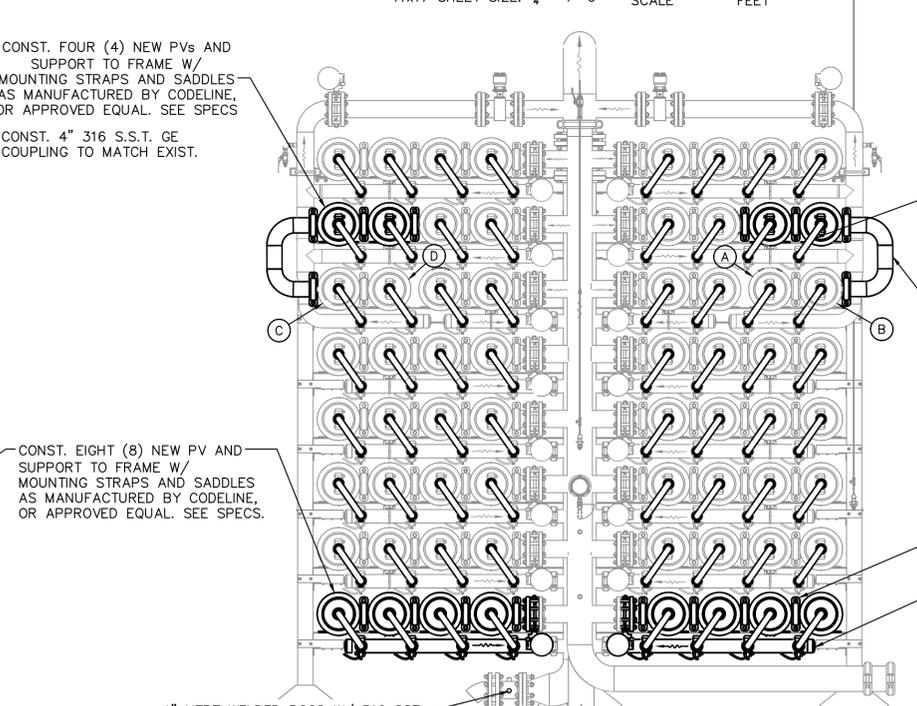
**1** EXIST 36x16 NFF/NFC SECTION  
 M-14  
 24x36 SHEET SIZE: 1 1/2" = 1'-0"  
 11x17 SHEET SIZE: 3/4" = 1'-0"  
 SCALE FEET



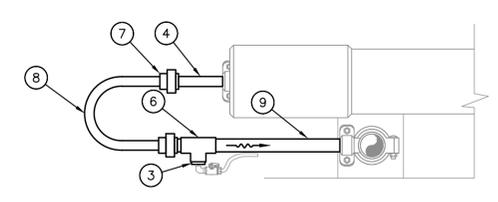
**2** EXIST. 36x16 NFI/NFP SECTION  
 M-14  
 24x36 SHEET SIZE: 1 1/2" = 1'-0"  
 11x17 SHEET SIZE: 3/4" = 1'-0"  
 SCALE FEET



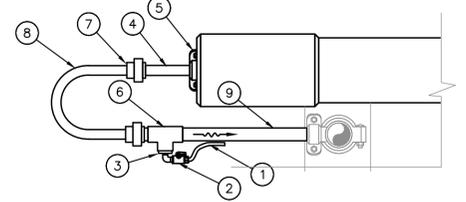
**3** PROP. 36x16 NFF/NFC SECTION  
 M-14  
 24x36 SHEET SIZE: 1 1/2" = 1'-0"  
 11x17 SHEET SIZE: 3/4" = 1'-0"  
 SCALE FEET



**4** PROP. 36x16 NFI/NFP SECTION  
 M-14  
 24x36 SHEET SIZE: 1 1/2" = 1'-0"  
 11x17 SHEET SIZE: 3/4" = 1'-0"  
 SCALE FEET



EXIST. VESSELS (TYP.)



PROP. VESSELS (TYP.)

**3** T8 NFP COLLECTION DETAILS  
 M-14  
 24x36 SHEET SIZE: 1 1/2" = 1'-0"  
 11x17 SHEET SIZE: 3/4" = 1'-0"  
 SCALE FEET

| SHEET KEYNOTE LEGEND |   |
|----------------------|---|
| KEYNOTE              | DESCRIPTION                                     |
| 1                    | 1/4" POLYETHYLENE TUBING TO SAMPLE PANEL        |
| 2                    | 1/4" SCH. 80 PVC BALL VALVE                     |
| 3                    | 1-1/4" x 1/2" SCH. 80 PVC REDUCING BUSHING      |
| 4                    | 1-1/4" SCH. 80 PVC SOCKET X FIPT FEMALE ADAPTER |
| 5                    | 1-1/4" 316 SST GE COUPLING                      |
| 6                    | 1-1/4" 316 SCH. 80 PVC TEE                      |
| 7                    | 1-1/4" SCH. 80 PVC UNION                        |
| 8                    | 1-1/4" SCH. 80 PVC J-BEND                       |
| 9                    | 1-1/4" SCH. 80 PVC PIPING GE/PE                 |

**GENERAL NOTES:**

- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND STRUCTURAL CALCULATIONS TO DEMONSTRATE FRAME IS ADEQUATE FOR ADDITIONAL VESSELS. CONTRACTOR RESPONSIBLE FOR ALL FRAME IMPROVEMENTS TO FACILITATE EXPANSION, INCLUDING ANY WORK NOT SHOWN HEREIN.
- ALL PIPING SHALL BE SCH. 10 316 SST, U.O.N. ALL GROOVES SHALL BE SCH. 40 CUT GROOVES.
- ALL STAINLESS STEEL PIPING AND FITTINGS SHALL BE FINAL PICKLED AND PASSIVATED U.O.N, WELDED 316/316L SCHEDULE 10S MINIMUM.
- CONTRACTOR SHALL VERIFY EXIST. LOCATION OF SAMPLE LINES AND TAPS. FOR ALL PIPING THAT IS TO BE REPLACED, CONTRACTOR SHALL INCLUDE CONNECTIONS FOR SAMPLE TUBING.
- PERMEATE HEADERS SHALL BE SUPPORTED BY EXIST. AND PROPOSED TRAIN FRAME STRUCTURAL MEMBERS. SUBMIT SHOP DRAWING.
- PERMEATE COLLECTION HEADER G.E. CONNECTION TO VESSEL J-BEND SHALL BE COORDINATED W/ RESPECTIVE TRAIN PERMEATE HEADER DIMENSIONS. CONTRACTOR IS HEREIN NOTIFIED THAT DIMENSIONS ON ALL TRAINS ARE NOT THE SAME.

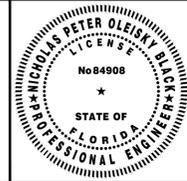
**PBCHD SUBMITTAL**

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 WWW.KIMLEY-HORN.COM REGISTRY NO. 696

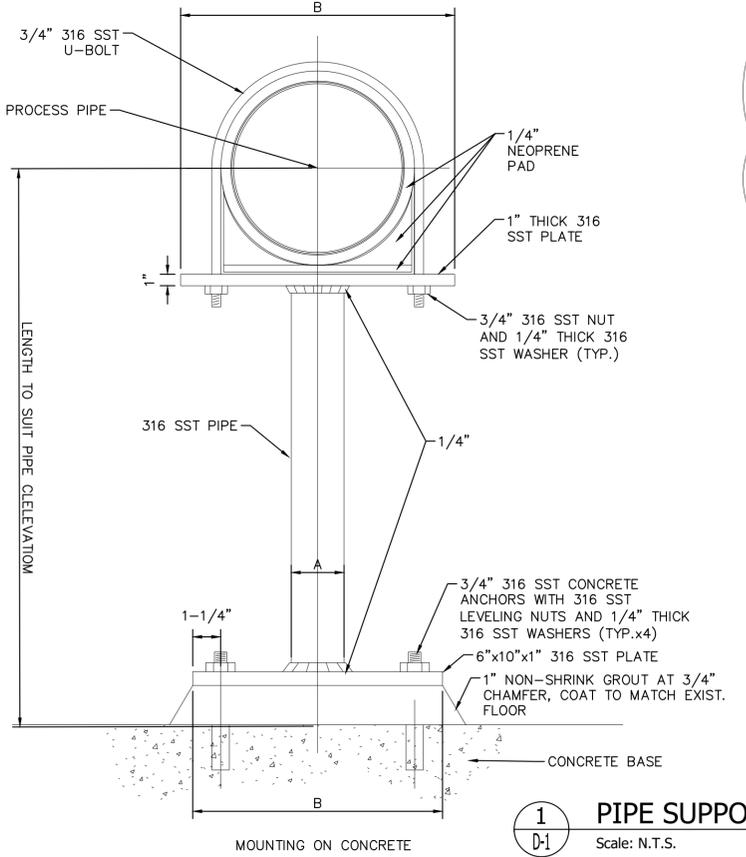
KHA PROJECT  
 DATE APR 2024  
 SCALE AS SHOWN  
 DESIGNED BY NPOB  
 DRAWN BY AH  
 CHECKED BY JEP  
**WTP MEMBRANE PLANT #2 (M2) EXPANSION**  
 PREPARED FOR VILLAGE OF WELLINGTON  
 PALM BEACH COUNTY FLORIDA



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY  
**TRAIN 8 EXPANSION SECTIONS**  
 ON THE DATE ADJACENT TO THE SEAL

SHEET NUMBER  
**M-14**  
 14 OF 15

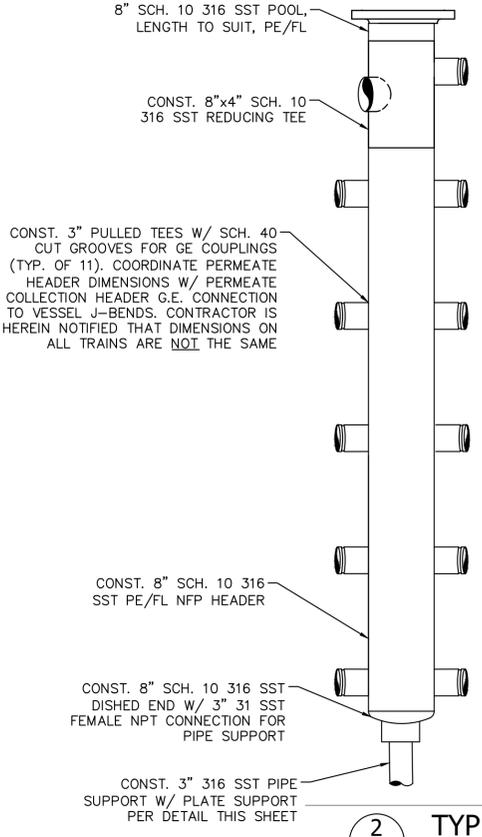
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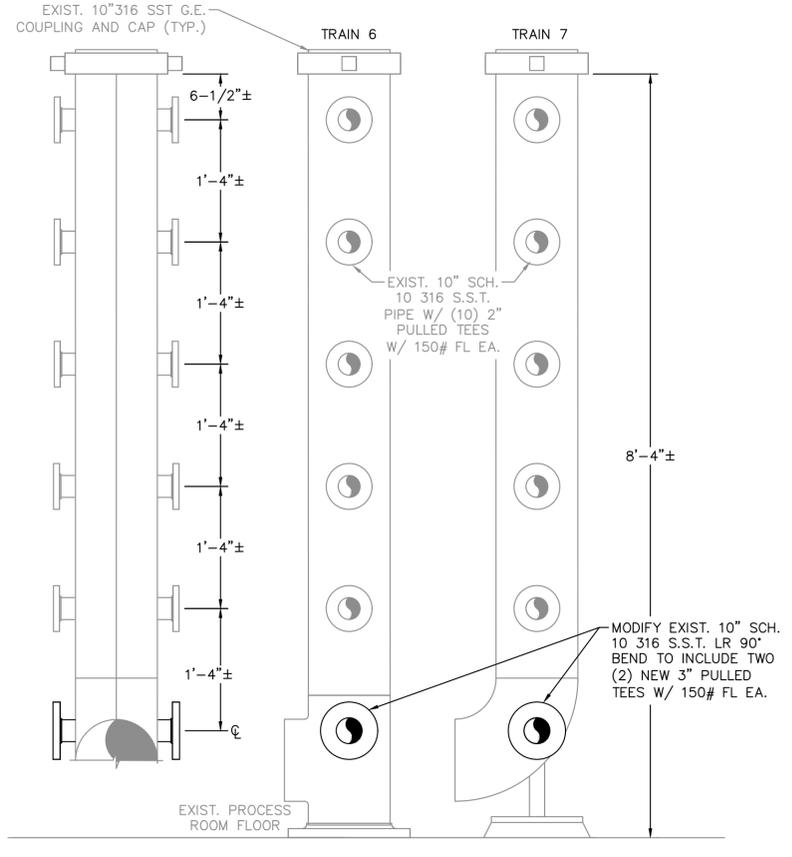
**1**  
D-1  
**PIPE SUPPORT**  
Scale: N.T.S.

| PIPE SIZE | A (NOM) | B  | C |
|-----------|---------|----|---|
| 4         | 3       | 8  | 4 |
| 5         | 3       | 10 | 4 |
| 6         | 3       | 10 | 4 |
| 8         | 3       | 12 | 4 |
| 10        | 3       | 14 | 4 |
| 12        | 3       | 16 | 6 |

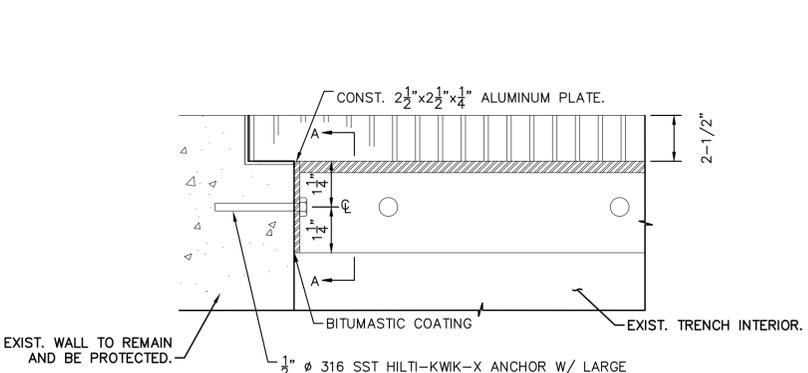
\*ALL DIMENSIONS IN INCHES



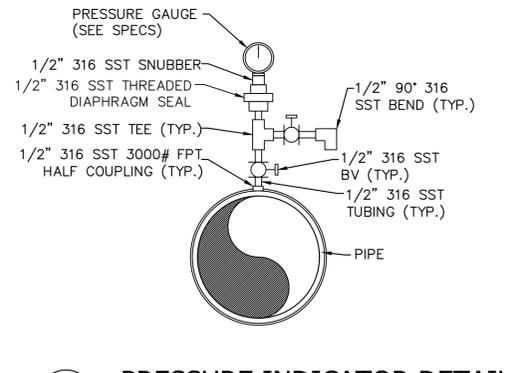
**2**  
D-1  
**TYP NFP HEADER DETAIL**  
Scale: N.T.S.



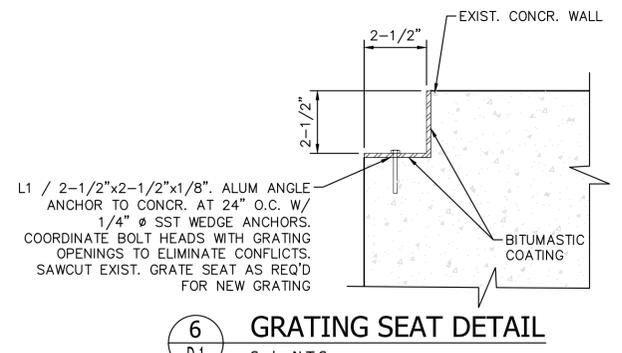
**3**  
D-1  
**TYP NFF HEADER DETAIL**  
Scale: N.T.S.



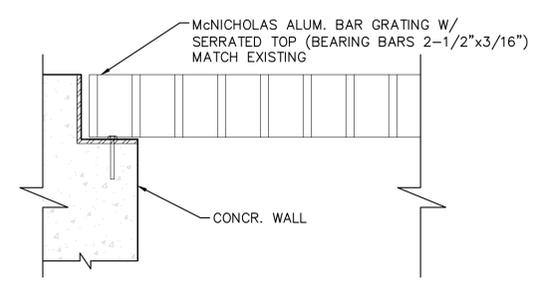
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D-1  
**GRATING ANGLE CORNER CONNECTION DETAIL**  
Scale: N.T.S.



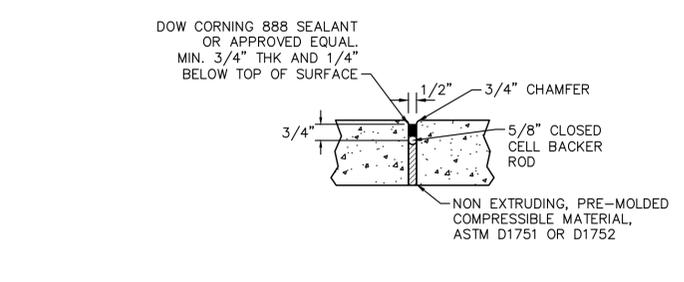
**5**  
D-1  
**PRESSURE INDICATOR DETAIL**  
Scale: N.T.S.



**6**  
D-1  
**GRATING SEAT DETAIL**  
Scale: N.T.S.



**7**  
D-1  
**GRATING-END SUPPORT DETAIL**  
Scale: N.T.S.



**8**  
D-1  
**EXPANSION JOINT DETAIL**  
Scale: N.T.S.

- ALUMINUM COMPONENTS NOTES**
- DESIGN, FABRICATE AND ERECT ALUMINUM COMPONENTS IN CONFORMANCE WITH THE ALUMINUM ASSOCIATION, INC. "ALUMINUM DESIGN MANUAL - 2020."
  - VERIFY ALL DIMENSIONS AS REQUIRED PRIOR TO FABRICATION OF ANY ALUMINUM COMPONENTS.
  - ALUMINUM COMPONENTS SHALL BE FABRICATED USING 6061-T6 MATERIAL.
  - ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.2.
  - USE ALUMINUM MATERIAL THAT IS FULLY WELDABLE WITHIN GRADES AND FROM ANY GRADE TO ANY OTHER GRADE. WELD ALL SHOP CONNECTIONS, U.O.N.
  - ALL WELDING SHALL BE DONE BY AN AWS CERTIFIED WELDER AND IN COMPLIANCE WITH AWS D1.2. ALL WELD SIZES SHALL BE THE MAXIMUM ALLOWED BY THE MATERIAL BEING WELDED.
  - AT THE CONTRACTOR'S OPTION, SUBSTITUTION OF SHOP WELDS FOR FIELD WELDS MAY BE REQUESTED. ALL SUCH SUBSTITUTIONS SHALL BE CLEARLY NOTED ON THE SHOP DRAWINGS AND SUBMITTED TO THE ENGINEER FOR REVIEW.
  - AT THE CONTRACTOR'S OPTION, FIELD SPLICES MAY BE REQUESTED FOR ERECTION PURPOSES. ALL SUCH SPLICES SHALL BE CLEARLY NOTED ON THE SHOP DRAWINGS AND SUBMITTED TO THE ENGINEER FOR REVIEW. FOR EACH PROPOSED SPLICE LOCATION, SUBMIT STRUCTURAL DESIGN CALCULATIONS AND DETAILS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA.
  - CONNECTIONS NOT DETAILED IN THE STRUCTURAL DRAWINGS AT THE TIME DRAWINGS ARE ISSUED FOR CONSTRUCTION SHALL BE DESIGNED AND DETAILED BY FABRICATOR ACCORDING TO AISC SPECIFICATIONS.
  - ALL ALUMINUM COMPONENTS SHALL BE FABRICATED TO FIT AT BOLTED CONNECTIONS WITHIN 1/16 INCH TOLERANCE. MISSING OR MISALIGNED BOLT HOLES SHALL BE CORRECTED BY DRILLING OR PUNCHING. FLAME CUTTING OF BOLT HOLES WILL NOT BE PERMITTED.
  - ALUMINUM SURFACES IN CONTACT WITH CONCRETE OR MASONRY SHALL HAVE CONTACT AREA COATED WITH BITUMASTIC.
  - SUBMIT SHOP DRAWINGS FOR ALUMINUM COMPONENTS TO ENGINEER FOR REVIEW PRIOR TO FABRICATION. DO NOT REPRODUCE THE STRUCTURAL DRAWINGS FOR USE AS SHOP DRAWINGS.
  - ALL BOLT, NUTS, AND WASHERS SHALL BE STAINLESS STEEL 316 SERIES UNLESS OTHERWISE NOTED.
  - SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER/ENGINEER FOR ALL PREFABRICATED COMPONENTS.
  - ALUMINUM GRATING TO BE SUPPLIED IN APPROXIMATELY 80 LB SECTIONS. EACH SECTION TO BE FULLY Banded AROUND PERIMETER AND ALL PENETRATIONS.

**PBCHD SUBMITTAL**  
**NOT FOR CONSTRUCTION**

| No. | REVISIONS | DATE | BY |
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**WTP MEMBRANE PLANT #2 (M2) EXPANSION**  
PREPARED FOR  
**VILLAGE OF WELLINGTON**  
PALM BEACH COUNTY FLORIDA

KHA PROJECT 144957082  
DATE NOV 2023  
SCALE AS SHOWN  
DESIGNED BY NPOB  
DRAWN BY AH  
CHECKED BY JEP



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

**CONSTRUCTION DETAILS**

ON THE DATE ADJACENT TO THE SEAL

SHEET NUMBER  
**D-1**  
17 OF 15

# **Water Treatment Plant (WTP) Membrane Plant #2 (M2) Expansion**

*Prepared For:*  
Village of Wellington

*Prepared By:*  
Kimley-Horn and Associates, Inc.  
1920 Wekiva Way, Suite 200  
West Palm Beach FL 33411  
Ca 00000696

November 2024  
PROJECT NO. 144957082

**SECTION 01000**

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|                        | 01410                 | Testing Laboratory Services                       |
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|                        | 09900                 | Painting  |
| <b>10</b>              |                       | <b>SPECIALTIES</b>                                |
|                        | 10400                 | Identifying Devices                               |
| <b>11</b>              |                       | <b>EQUIPMENT</b>                                  |
|                        | 11209                 | Membrane Softening System                         |
| <b>12</b>              |                       | <b>FURNISHINGS – NOT USED</b>                     |
| <b>13</b>              |                       | <b>SPECIAL CONSTRUCTION – NOT USED</b>            |
| <b>14</b>              |                       | <b>CONVEYING SYSTEMS – NOT USED</b>               |
| <b>15</b>              |                       | <b>MECHANICAL</b>                                 |
|                        | 15100                 | Piping and Valves                                 |
| <b>16</b>              |                       | <b>ELECTRICAL – NOT USED</b>                      |
| <b>17</b>              |                       | <b>INSTRUMENTATION – NOT USED</b>                 |

## SECTION 3 – EXHIBIT R2 SCHEDULE OF VALUES



**VILLAGE OF WELLINGTON - WTP MEMBRANE PLANT 2 EXPANSION**  
**GMP Proposal**  
**3/18/2025**

**COST SUMMARY**

| Direct Costs                           | LABOR            | EQUIPMENT  | MATERIALS        | SUBS               | TOTALS             |
|--|------------------|------------|------------------|--------------------|--------------------|
| Total Direct Costs                     |                  |            | \$ -             | \$ 1,388,986       | \$ 1,388,986       |
| Total GC's                             | \$ 621,523       | \$ -       | \$ -             | \$ 6,600           | \$ 628,123         |
| Total GR's                             | \$ 21,974        | \$ -       | \$ 175,052       | \$ 7,250           | \$ 204,276         |
| Fee                                    |                  |            |                  | \$ 199,925         | \$ 199,925         |
| Total for Direct Costs                 | \$643,497        | \$0        | \$175,052        | \$1,602,761        | \$2,421,310        |
|  |                  |            |                  |                    |                    |
| Contingencies and Allowances           | LABOR            | EQUIPMENT  | MATERIALS        | SUBS               | TOTALS             |
| Owner Controlled Contingency           |                  |            |                  | \$ 150,000         | \$ 150,000         |
| Dedicated Allowances (see next sheet)  |                  |            |                  | \$ 147,500         | \$ 147,500         |
| Total for Contingencies and Allowances | \$0              | \$0        | \$0              | \$297,500          | \$297,500          |
|  |                  |            |                  |                    |                    |
| Bond and Insurance                     | LABOR            | EQUIPMENT  | MATERIALS        | SUBS               | TOTALS             |
| Bond                                   |                  |            |                  | \$ 19,529          | \$ 19,529          |
| Insurance                              |                  |            |                  | \$ 36,676          | \$ 36,676          |
| Total for Direct Costs                 | \$0              | \$0        | \$0              | \$56,205           | \$56,205           |
|  |                  |            |                  |                    |                    |
| <b>TOTAL</b>                           | <b>\$643,497</b> | <b>\$0</b> | <b>\$175,052</b> | <b>\$1,956,466</b> | <b>\$2,775,015</b> |



|                                    |     |     | COST OF WORK |           |           |              |              |
|------------------------------------|-----|-----|--------------|-----------|-----------|--------------|--------------|
| DESCRIPTION                        | QTY | UOM | LABOR        | EQUIPMENT | MATERIALS | SUBS         | \$ TOTALS    |
|                                    |     |     | \$ AMOUNT    | \$ AMOUNT | \$ AMOUNT | \$ AMOUNT    |              |
| <b>BID PACKAGE</b>                 |     |     |              |           |           |              | \$ 1,388,986 |
| MEMBRANE OEM EQUIPMENT             | 1   | LS  | \$ -         | \$ -      | \$ -      | \$ 864,460   | \$ 864,460   |
| MASTER PLANT CONTRACTOR PACKAGE    | 1   | LS  | \$ -         | \$ -      | \$ -      | \$ 524,526   | \$ 524,526   |
| <b>ALLOWANCES</b>                  |     |     |              |           |           |              | \$ 147,500   |
| ALLOWANCE FOR BUILDING PERMITS     | 1   | LS  | \$ -         | \$ -      | \$ -      | \$ 10,000    | \$ 10,000    |
| ALLOWANCE FOR INDEPENDENT TESTING  | 1   | LS  | \$ -         | \$ -      | \$ -      | \$ 7,500     | \$ 7,500     |
| ALLOWANCE FOR PAINTING             | 1   | LS  | \$ -         | \$ -      | \$ -      | \$ 30,000    | \$ 30,000    |
| ALLOWANCE FOR MATERIAL ESCALATIONS | 1   | LS  | \$ -         | \$ -      | \$ -      | \$ 100,000   | \$ 100,000   |
| <b>TOTAL DIRECT COST</b>           |     |     | \$ -         | \$ -      | \$ -      | \$ 1,406,486 | \$ 1,406,486 |



**Wharton-Smith, Inc.**  
CONSTRUCTION GROUP

JOB NAME: WTP MEMBRANE PLANT 2 EXPANSION

ESTIMATE #: 0

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| GENERAL CONDITIONS              |     |      |             |              |       |            |           |           |      |           |          |           |           |              |           |           |  |           |
|---------------------------------|-----|------|-------------|--------------|-------|------------|-----------|-----------|------|-----------|----------|-----------|-----------|--------------|-----------|-----------|--|-----------|
| DESCRIPTION                     | QTY | UNIT | MH/<br>UNIT | BASE<br>RATE | LABOR |            |           | EQUIPMENT |      |           | MATERIAL |           |           | SUBCONTRACTS |           | \$ TOTALS |  |           |
|                                 |     |      |             |              | U/P   | TOTAL MH   | \$ AMOUNT | HR/UNIT   | RATE | \$ AMOUNT | U/P      | \$ AMOUNT | \$ AMOUNT | U/P          | \$ AMOUNT |           |  |           |
| PROJECT MANAGEMENT TEAM         |     |      |             |              |       |            |           |           |      |           |          |           |           |              |           |           |  |           |
| FIELD STAFF                     |     |      |             |              |       |            |           |           |      |           |          |           |           |              |           |           |  |           |
| Superintendent                  | 52  | WK   | 40          | \$124.00     |       | \$4,960.00 | 2,083     | \$258,317 |      |           | \$0.00   |           | \$0       | \$0          |           | \$0       |  | \$258,317 |
| OFFICE STAFF                    |     |      |             |              |       |            |           |           |      |           |          |           |           |              |           |           |  |           |
| Project Manager                 | 52  | WK   | 20          | \$122.00     |       | \$2,440.00 | 1,042     | \$127,075 |      |           | \$0.00   |           | \$0       | \$0          |           | \$0       |  | \$127,075 |
| Project Engineer                | 52  | WK   | 40          | \$73.00      |       | \$2,920.00 | 2,083     | \$152,074 |      |           | \$0.00   |           | \$0       | \$0          |           | \$0       |  | \$152,074 |
| Administrative Assistant        | 52  | WK   | 8           | \$73.00      |       | \$584.00   | 417       | \$30,415  |      |           | \$0.00   |           | \$0       | \$0          |           | \$0       |  | \$30,415  |
| OTHER STAFF                     |     |      |             |              |       |            |           |           |      |           |          |           |           |              |           |           |  |           |
| Executive Management            | 52  | WK   | 2           | \$163.00     |       | \$326.00   | 104       | \$16,978  |      |           | \$0.00   |           | \$0       | \$0          |           | \$0       |  | \$16,978  |
| Project Accountant              | 52  | WK   | 2           | \$97.00      |       | \$194.00   | 104       | \$10,104  |      |           | \$0.00   |           | \$0       | \$0          |           | \$0       |  | \$10,104  |
| Quality Manager                 | 52  | WK   | 2           | \$147.00     |       | \$294.00   | 104       | \$15,312  |      |           | \$0.00   |           | \$0       | \$0          |           | \$0       |  | \$15,312  |
| Safety Manager                  | 52  | WK   | 2           | \$108.00     |       | \$216.00   | 104       | \$11,249  |      |           | \$0.00   |           | \$0       | \$0          |           | \$0       |  | \$11,249  |
| RELATED MANAGEMENT COSTS        |     |      |             |              |       |            |           |           |      |           |          |           |           |              |           |           |  |           |
| Software Costs                  | 1   | LS   |             | \$50.00      |       | \$0.00     | 0         | \$0       |      |           | \$0.00   |           | \$0       | \$0          |           | \$6,600   |  | \$6,600   |
| <b>TOTAL GENERAL CONDITIONS</b> |     |      |             |              |       |            | 6,041     | \$621,523 |      |           | \$0      |           | \$0       | \$0          |           | \$6,600   |  | \$628,123 |



# Wharton-Smith, Inc.

## CONSTRUCTION GROUP

|             |                                |  |  |  |  |
|-------------|--------------------------------|--|--|--|--|
| JOB NAME:   | WTP MEMBRANE PLANT 2 EXPANSION |  |  |  |  |
| ESTIMATE #: | 0                              |  |  |  |  |
|             |                                |  |  |  |  |
|             |                                |  |  |  |  |
|             |                                |  |  |  |  |
|             |                                |  |  |  |  |

| GENERAL REQUIREMENTS                            | DURATION = |      | 0 DIRECT MANHOURS |              |            |          |           | 0       |           | MANWEEKS   |           |           |            |              |           |           |
|---|------------|------|-------------------|--------------|------------|----------|-----------|---------|-----------|------------|-----------|-----------|------------|--------------|-----------|-----------|
|   |            | 12   | MONTHS, PLANNED   |              |            |          |           | 0       |           | MEN        |           |           |            |              |           |           |
| DESCRIPTION                                     | QTY        | UNIT | MH/<br>UNIT       | BASE<br>RATE | LABOR      |          |           | HR/UNIT | EQUIPMENT |            | MATERIAL  |           |            | SUBCONTRACTS |           | \$ TOTALS |
|   |            |      |                   |              | U/P        | TOTAL MH | \$ AMOUNT |         | RATE      | \$ AMOUNT  | U/P       | \$ AMOUNT | \$ AMOUNT  | U/P          | \$ AMOUNT |           |
| W/ 7% TAX                                       |            |      |                   |              |            |          |           |         |           |            |           |           |            |              |           |           |
| <b>TEMP.FACILITIES &amp; UTILITIES</b>          |            |      |                   |              |            |          |           |         |           |            |           |           |            |              |           |           |
| WATER, MONTHLY                                  | 12         | MO   |                   | \$50.00      | \$0.00     | 0        | \$0       |         | \$0.00    | \$250.00   | \$3,000   | \$3,210   |            | \$0          | \$3,210   |           |
| INTERNET/TELEPHONE, MONTHLY CHARGES - W-S       | 15         | MO   |                   | \$50.00      | \$0.00     | 0        | \$0       |         | \$0.00    | \$500.00   | \$7,500   | \$8,025   |            | \$0          | \$8,025   |           |
| FIELD OFFICE, WHARTON SMITH INC                 | 15         | MO   | 5                 | \$50.00      | \$250.00   | 75       | \$3,750   |         | \$0.00    | \$6,000.00 | \$90,000  | \$96,300  |            | \$0          | \$100,050 |           |
| JOB OFFICE SUPPLIES                             | 12         | MO   |                   | \$50.00      | \$0.00     | 0        | \$0       |         | \$0.00    | \$750.00   | \$9,000   | \$9,630   |            | \$0          | \$9,630   |           |
| COMPUTER EQUIPMENT FOR FIELD OFFICE - W-S       | 1          | LS   |                   | \$50.00      | \$0.00     | 0        | \$0       |         | \$0.00    | \$1,500.00 | \$1,500   | \$1,605   |            | \$0          | \$1,605   |           |
| TOOL TRAILERS - 1 REQUIRED                      | 12         | MO   |                   | \$50.00      | \$0.00     | 0        | \$0       |         | \$0.00    | \$200.00   | \$2,400   | \$2,568   |            | \$0          | \$2,568   |           |
| TEMPORARY TOILETS - 1 REQUIRED                  | 12         | MO   |                   | \$50.00      | \$0.00     | 0        | \$0       |         | \$0.00    | \$400.00   | \$4,800   | \$5,136   |            | \$0          | \$5,136   |           |
| TEMPORARY SEWAGE HOLDING TANKS - ENGINEER & W-S | 12         | MO   |                   | \$50.00      | \$0.00     | 0        | \$0       |         | \$0.00    | \$300.00   | \$3,600   | \$3,852   |            | \$0          | \$3,852   |           |
| <b>CONSTRUCTION EQUIPMENT &amp; TOOLS</b>       |            |      |                   |              |            |          |           |         |           |            |           |           |            |              |           |           |
| SMALL TOOLS AND SUPPLIES                        | 1          | LS   |                   | \$50.00      | \$0.00     | 0        | \$0       |         | \$0.00    | \$2,500    | \$2,500   | \$2,675   |            | \$0          | \$2,675   |           |
| <b>SAFETY &amp; HEALTH &amp; HOUSEKEEPING</b>   |            |      |                   |              |            |          |           |         |           |            |           |           |            |              |           |           |
| CLEAN-UP THROUGHOUT DURATION OF PROJECT         | 52         | WK   | 6                 | \$50.00      | \$300.00   | 312      | \$15,624  |         | \$0.00    |            | \$0       | \$0       |            | \$0          | \$15,624  |           |
| DUMPSTERS                                       | 12         | MO   |                   | \$50.00      | \$0.00     | 0        | \$0       |         | \$0.00    | \$3,000.00 | \$36,000  | \$38,520  |            | \$0          | \$38,520  |           |
| <b>PERMITS, FEES, INSURANCE, LEGAL, ETC.</b>    |            |      |                   |              |            |          |           |         |           |            |           |           |            |              |           |           |
| BUILDER'S RISK INSURANCE- COASTAL COUNTY        | 12         | MO   |                   | \$50.00      | \$0.00     | 0        | \$0       |         | \$0.00    |            | \$0       | \$0       | \$500.00   | \$6,000      | \$6,000   |           |
| <b>PROJECT DOCUMENTATION AND SERVICES</b>       |            |      |                   |              |            |          |           |         |           |            |           |           |            |              |           |           |
| PHOTOGRAPHS                                     | 12         | MO   |                   | \$50.00      | \$0.00     | 0        | \$0       |         | \$0.00    | \$150.00   | \$1,800   | \$1,926   |            | \$0          | \$1,926   |           |
| PRE-CONSTRUCTION AUDIO-VIDEO DOCUMENTATION      | 1          | LS   |                   | \$50.00      | \$0.00     | 0        | \$0       |         | \$0.00    |            | \$0       | \$0       | \$1,250.00 | \$1,250      | \$1,250   |           |
| DESIGN SERVICES (CADD) - AS-BUILTS              | 1          | LS   | 40                | \$65.00      | \$2,600.00 | 40       | \$2,600   |         | \$0.00    |            | \$0       | \$0       |            | \$0          | \$2,600   |           |
| PLANS & SPECIFICATIONS REPRODUCTION COSTS       | 1          | LS   |                   | \$50.00      | \$0.00     | 0        | \$0       |         | \$0.00    | \$1,500.00 | \$1,500   | \$1,605   |            | \$0          | \$1,605   |           |
| <b>TOTAL GENERAL REQUIREMENTS</b>               |            |      |                   |              |            | 427      | \$21,974  |         | \$0       |            | \$175,052 | \$175,052 |            | \$7,250      | \$204,276 |           |

Subcontractor Bid  
Evaluation and

Trade Description:  
Project Name:  
Owner:  
Bid Date:

OEM

WTP Membrane Plant 2 Expansion  
Village of Wellington  
Wednesday, February 12, 2025

| Scope Item Description   | Harn RO                                       | Aerex  | Biwater                               |
|--|---|--|---------------------------------------|
|  | Julie Nemeth-Harn / Ronald Castle             | Montroe Hopkins                                    | Amy Heung                             |
|  | Bus: 941-488-9671<br>jnemeth-harn@konline.com | 346-242-3675<br>michael.gisclair@h20innovation.com | 604-782-1639<br>amy.heung@biwater.com |
| <b>Base Bid - Before Bid Alternates</b>                                | <b>No Bid Received</b>                        | <b>\$ 864,460.00</b>                               | <b>No Bid Received</b>                |
| 1. Submittals/shop drawings, O&M manuals.                              | \$ -  | \$ 60,000.00                                       | \$ -                                  |
| 2. Pressure Vessels  | \$ -  | \$ 79,675.00                                       | \$ -                                  |
| 3. Membrane Elements   | \$ -  | \$ 135,511.00                                      | \$ -                                  |
| 4. Stainless Steel Pipe, Fittings, Valves, Tubing, and Misc. Material  | \$ -  | \$ 81,924.00                                       | \$ -                                  |
| 5. Train No. 6 Expansion   | \$ -  | \$ 159,500.00                                      | \$ -                                  |
| 6. Train No. 7 Expansion   | \$ -  | \$ 161,500.00                                      | \$ -                                  |
| 7. Train No. 8 Expansion   | \$ -  | \$ 149,500.00                                      | \$ -                                  |
| 8. Sample Panel Modifications Trains 6 & 7                             | \$ -  | \$ 17,250.00                                       | \$ -                                  |
| 9. Start-Up, Commissioning & Training                                  | \$ -  | \$ 19,500.00                                       | \$ -                                  |
| 10. Indemnification  | \$ -  | \$ 100.00  | \$ -                                  |
| <b>Bid Alternates</b>  |   |  |                                       |
| <b>Bid Document Requirements</b>                                       |   |  |                                       |
| Bid Form   | N/A   | Y  | N/A                                   |
| Acknowledged Addenda   | N/A   | Y  | N/A                                   |
| Clarifications / Exceptions  | N/A   | Y  | N/A                                   |
| Value Engineering Proposal   | N/A   | Y  | N/A                                   |
| License  | N/A   | Y  | N/A                                   |
| Bonds/Surety   | N/A   | Y  | N/A                                   |
| Membrane Warranties  | N/A   | Y  | N/A                                   |
| Certificate of Insurance   | N/A   | Y  | N/A                                   |
| <b>Scheduled Lead Times for Deliverables and Construction</b>          |   |  |                                       |
| 1. Submittal Package (From Contract Execution)                         |   | 45 days  |                                       |
| 2. Pressure Vessels  |   | Protec 60 days, Codeline 200 days                  |                                       |
| 3. Membrane Elements   |   | 120 days   |                                       |
| 4. Stainless Steel Pipe, Fittings, Valves, Tubing, and Misc. Materials |   | 90 days  |                                       |
| 5. Train No. 6 Expansion   |   | 60 days  |                                       |
| 6. Train No. 7 Expansion   |   | 60 days  |                                       |
| 7. Train No. 8 Expansion   |   | 60 days  |                                       |
| <b>Subtotal (Base Bid):</b>  | No Bid Received                               | \$ 864,460.00                                      | No Bid Received                       |
| <b>Adjustment:</b>   | \$ -  | \$ -   | \$ -                                  |
| <b>Total Adjusted Scope:</b>   | \$ -  | \$ 864,460.00                                      | \$ -                                  |

Recommend Aerex as the lowest responsive bidder.

## BID FORM

Project: WTP Membrane Plant #2 (M2) Expansion  
 Bid Package: Membrane System OEM  
 To: Josh Burns – Preconstruction Manager  
 Wharton-Smith, Inc.  
[watergmpbids@whartonsmith.com](mailto:watergmpbids@whartonsmith.com)

**Bidder Information:**

Company: Aerex Industries, Inc.  
 Contact Name: Adam W. Honour Title: Project Manager  
 Address: 113 North 2nd Street  
Fort Pierce, Florida 34950  
 Phone Number: 772-448-5824 Fax: 772-467-2608

**Bid Proposal Documentation Checklist (check all that apply):**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Bid Form<br><input type="checkbox"/> Sanctions and Litigation<br><input type="checkbox"/> Licenses | <input type="checkbox"/> Value Engineering Proposal<br><input type="checkbox"/> Certificate of Insurance<br><input type="checkbox"/> Clarifications |
|--|---|

**Bidder’s Acknowledgements:**

- The undersigned Bidder agrees if this bid is accepted, to enter into a Purchase Order or Subcontract Agreement with the Construction Manager per the Agreement terms included in the Bid Documents.
- Bidder accepts all the terms and conditions of the Bid Documents.
- Bidder has examined copies of all the Bid Documents and the following addenda:

No. OEM BM Dated Jan 15th                      No. M2TS / A Dated Nov 24'  
 No. M2 PLANS Dated NOV 24'                      No. GMP1 Ad 1 Dated Feb 5th

- Bidder has carefully examined the site and locality where the work is to be performed and the legal requirements (federal, state and local laws, ordinances, rules and regulations) and conditions affecting cost, degree of difficulty, progress or performance of the work and has made such independent investigations as Bidder deems necessary.
- Bidder has reviewed and understands the Project Schedule provided in the Bid Documents and commits to perform and complete the Scope of Work of this Bid Proposal within the durations indicated and shall meet all milestone dates detailed therein. Bidder understands that time is of the essence and any delays in completion of any portion of the Work may result in damages.

6. This Bid is genuine and (a) not made in the interest or on behalf of any undisclosed person, firm, or corporation (b) is not submitted in the conformity with any agreement or rules of any group, association, organization, or corporation (c) Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid (d) Bidder has not solicited or induced any person, firm or corporation to refrain from bidding (e) Bidder has not sought by collusion to obtain for himself any advantage over any other Bidder or over Owner.
7. This Bid Proposal will remain open for acceptance by the Construction Manager for a period of one hundred and eighty (180) days after the date submitted. The price is to be valid for the duration of the Project Schedule after execution of a Purchase Order or Subcontract Agreement.
8. The total base bid includes all labor, material, equipment, taxes, overhead, profit and all other costs required to complete the scope of this Bid Package as outlined in the Bid Documents.

**BID PRICING – MEMBRANE SYSTEM OEM PACKAGE**

| Item No.               | Brief Description of Item  | QTY | UM | Unit Price           | Total Price           |
|------------------------|--|-----|----|----------------------|-----------------------|
| 1.                     | Submittal Package  | 1   | LS | \$ <u>60,000.00</u>  | \$ <u>60,000.00</u>   |
| 2.                     | Pressure Vessels   | 1   | LS | \$ <u>79,675.00</u>  | \$ <u>79,675.00</u>   |
| 3.                     | Membrane Elements  | 1   | LS | \$ <u>135,511.00</u> | \$ <u>135,511.00</u>  |
| 4.                     | Stainless Steel Pipe, Fittings, Valves, Tubing, and Misc. Material | 1   | LS | \$ <u>81,924.00</u>  | \$ <u>81,924.00</u>   |
| 5.                     | Train No. 6 Expansion  | 1   | LS | \$ <u>159,500.00</u> | \$ <u>159,500.00</u>  |
| 6.                     | Train No. 7 Expansion  | 1   | LS | \$ <u>161,500.00</u> | \$ <u>161,500.00</u>  |
| 7.                     | Train No. 8 Expansion  | 1   | LS | \$ <u>149,500.00</u> | \$ <u>149,500.00</u>  |
| 8.                     | Sample Panel Modifications Trains No. 6 and No. 7                  | 1   | LS | \$ <u>17,250.00</u>  | \$ <u>17,250.00</u>   |
| 9.                     | Start-Up, Commissioning, & Training                                | 3   | EA | \$ <u>6,500.00</u>   | \$ <u>19,500.00</u>   |
| 10.                    | Indemnification  | 1   | LS | \$ <u>100.00</u>     | \$ <u>100.00</u>      |
| <b>Total Base Bid:</b> |  |     |    |                      | \$ <u>864,460.000</u> |

Eight hundred sixty-four thousand, four-hundred & sixty dollars.

**(TOTAL BASE BID AMOUNT WRITTEN IN WORDS)**

**SCHEDULED LEAD TIMES FOR DELIVERABLES**

| Item No. | Brief Description of Item  | Calendar Days to Complete      |
|----------|--|--------------------------------|
| 1.       | Submittal Package  | <u>45 Days</u>                 |
| 2.       | Pressure Vessels   | <u>Protec 60, Codeline 200</u> |
| 3.       | Membrane Elements  | <u>120 Days</u>                |
| 4.       | Stainless Steel Pipe, Fittings, Valves, Tubing, and Misc. Material | <u>90 Days</u>                 |

|    |                       |         |
|----|-----------------------|---------|
| 5. | Train No. 6 Expansion | 60 Days |
| 6. | Train No. 7 Expansion | 60 Days |
| 8. | Train No. 8 Expansion | 60 Days |

The undersigned hereby certifies that Bidder has carefully reviewed the Bid Documents and with full knowledge and understanding of the requirements of the Bid Documents and that this Bid Proposal meets all specifications, terms, and conditions contained in the Bid Documents, in its entirety.

*Adam W. Honour*

Adam Honour PM

2/12/2025

Signature

Print Name / Title

Date

**Bidder Exceptions, Exclusions, Clarifications**

Subcontractor Bid  
Evaluation and  
Comparison Sheet

Trade Description:  
Project Name:  
Owner:  
Bid Date:

Master Plant Contractor

WTP Membrane Plant 2 Expansion

Village of Wellington

Friday, March 7, 2025

| Scope Item Description  | Wharton-Smith, Inc.        |                   | Lawrence Lee                   |               | Florida Design Drilling LLC |               |
|---|----------------------------|-------------------|--------------------------------|---------------|-----------------------------|---------------|
|   | Sean White<br>407.321.8410 |                   | Geoff Schmidt<br>561-578-7715  |               | Jeff Holst<br>561-818-3228  |               |
|   | swhite@whartonsmith.com    |                   | gs@lawrenceleeconstruction.com |               | jeff@fldrilling.com         |               |
| <b>Base Bid - Before Bid Alternates</b>                       | \$                         | <b>524,526.00</b> |                                | <b>NO BID</b> |                             | <b>NO BID</b> |
| 1. MPC Package Lump Sum                                       | \$                         | 524,426.00        | \$                             | -             | \$                          | -             |
| 2. Payment & Performance Bonds                                | \$                         | -                 | \$                             | -             | \$                          | -             |
| 3. Indemnification  | \$                         | 100.00            | \$                             | -             | \$                          | -             |
| <b>Bid Alternates / Adjustments</b>                           |                            |                   |                                |               |                             |               |
| <b>Bid Document Requirements</b>                              |                            |                   |                                |               |                             |               |
| Bid Form  |                            | N                 |                                | N/A           |                             | N/A           |
| Acknowledged Addenda  |                            | Y                 |                                | N/A           |                             | N/A           |
| Clarifications / Exceptions                                   |                            | N                 |                                | N/A           |                             | N/A           |
| Value Engineering Proposal                                    |                            | N                 |                                | N/A           |                             | N/A           |
| <b>Scheduled Lead Times for Deliverables and Construction</b> |                            |                   |                                |               |                             |               |
| 1. Submittal Package (From Contract Execution)                |                            | 4 weeks           |                                | N/A           |                             | N/A           |
| 2. Process Pipe, Valves, and Fittings Lead Time               |                            | 6 weeks           |                                | N/A           |                             | N/A           |
| Train 6   |                            | 25 days           |                                | N/A           |                             | N/A           |
| Train 7   |                            | 25 days           |                                | N/A           |                             | N/A           |
| <b>Subtotal (Base Bid):</b>                                   | \$                         | 524,526.00        |                                | NO BID        |                             | NO BID        |
| <b>Adjustment (Alternates)</b>                                | \$                         | -                 | \$                             | -             | \$                          | -             |
| <b>Total Adjusted Scope:</b>                                  | \$                         | <b>524,526.00</b> | \$                             | -             | \$                          | -             |

## BID FORM

Project: WTP Membrane Plant #2 (M2) Expansion  
 Bid Package: Master Plant Contractor  
 To: Josh Burns – Preconstruction Manager  
 Wharton-Smith, Inc.  
[watergmpbids@whartonsmith.com](mailto:watergmpbids@whartonsmith.com)

**Bidder Information:**

Company: Wharton Smith, Inc.  
 Contact Name: Sean White Title: VP of Preconstruction Services  
 Address: 750 Monroe Road  
Sanford, FL 32771  
 Phone Number: 407-321-8410 Fax: \_\_\_\_\_

**Bid Proposal Documentation Checklist (check all that apply):**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Bid Form      | <input type="checkbox"/> Value Engineering Proposal |
| <input type="checkbox"/> Sanctions and Litigation | <input type="checkbox"/> Certificate of Insurance   |
| <input type="checkbox"/> Licenses                 | <input type="checkbox"/> Clarifications             |

**Bidder’s Acknowledgements:**

1. The undersigned Bidder agrees if this bid is accepted, to enter into a Purchase Order or Subcontract Agreement with the Construction Manager per the Agreement terms included in the Bid Documents.
2. Bidder accepts all the terms and conditions of the Bid Documents.
3. Bidder has examined copies of all the Bid Documents and the following addenda:

No. \_\_\_\_\_ Dated \_\_\_\_\_ No. \_\_\_\_\_ Dated \_\_\_\_\_

No. \_\_\_\_\_ Dated \_\_\_\_\_ No. \_\_\_\_\_ Dated \_\_\_\_\_

4. Bidder has carefully examined the site and locality where the work is to be performed and the legal requirements (federal, state and local laws, ordinances, rules and regulations) and conditions affecting cost, degree of difficulty, progress or performance of the work and has made such independent investigations as Bidder deems necessary.
5. Bidder has reviewed and understands the Project Schedule provided in the Bid Documents and commits to perform and complete the Scope of Work of this Bid Proposal within the durations indicated and shall meet all milestone dates detailed therein. Bidder understands that time is of the essence and any delays in completion of any portion of the Work may result in damages.

6. This Bid is genuine and (a) not made in the interest or on behalf of any undisclosed person, firm, or corporation (b) is not submitted in the conformity with any agreement or rules of any group, association, organization, or corporation (c) Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid (d) Bidder has not solicited or induced any person, firm or corporation to refrain from bidding (e) Bidder has not sought by collusion to obtain for himself any advantage over any other Bidder or over Owner.
7. This Bid Proposal will remain open for acceptance by the Construction Manager for a period of one hundred and eighty (180) days after the date submitted. The price is to be valid for the duration of the Project Schedule after execution of a Purchase Order or Subcontract Agreement.
8. The total base bid includes all labor, material, equipment, taxes, overhead, profit and all other costs required to complete the scope of this Bid Package as outlined in the Bid Documents.

**BID PRICING – MEMBRANE SYSTEM MPC PACKAGE**

| Item No.               | Brief Description of Item | QTY | UM | Unit Price    | Total Price          |
|------------------------|---------------------------|-----|----|---------------|----------------------|
| 1.                     | MPC Package               | 1   | LS | \$ 524,426.00 | \$ 524,426.00        |
| 2.                     | Indemnification           | 1   | LS | \$ 100.00     | \$ 100.00            |
| <b>Total Base Bid:</b> |                           |     |    |               | <b>\$ 524,526.00</b> |

**(TOTAL BASE BID AMOUNT WRITTEN IN WORDS)**

**SCHEDULED LEAD TIMES FOR DELIVERABLES**

| Item No. | Brief Description of Item | Calendar Days to Complete |
|----------|---------------------------|---------------------------|
| 1.       | Submittal Package         | 4 weeks                   |
| 2.       | Train No. 6 Expansion     | 25 days                   |
| 3.       | Train No. 7 Expansion     | 25 days                   |

The undersigned hereby certifies that Bidder has carefully reviewed the Bid Documents and with full knowledge and understanding of the requirements of the Bid Documents and that this Bid Proposal meets all specifications, terms, and conditions contained in the Bid Documents, in its entirety.

|   |                                 |        |
|---|---------------------------------|--------|
|  | Timothy S. Smith, President/CEO | 3/7/25 |
| Signature   | Print Name / Title              | Date   |
| Timothy S. Smith, President/CEO   |                                 |        |

**Bidder Exceptions, Exclusions, Clarifications**

## Eliana Corie

---

**From:** Geoffrey Schmidt <gs@lawrenceleeconstruction.com>  
**Sent:** Sunday, March 9, 2025 4:48 PM  
**To:** Eliana Corie  
**Cc:** Collaborative GMP Bids  
**Subject:** RE: Bid Invitation - VOW Membrane Plant 2 Expansion

Eliana:

We will not be bidding.

Thanks,  
Geoff Schmidt  
**Lawrence Lee Construction Services, Inc.**  
C: 561-578-7715 | E: [GS@LawrenceLeeConstruction.com](mailto:GS@LawrenceLeeConstruction.com)

---

**From:** Eliana Corie <ecorie@whartonsmith.com>  
**Sent:** Friday, March 7, 2025 3:58 PM  
**Cc:** Collaborative GMP Bids <watergmpbids@whartonsmith.com>  
**Subject:** Bid Invitation - VOW Membrane Plant 2 Expansion

Prospective Bidder,

Wharton-Smith, Inc. is the Construction Manager at Risk (CMAR) for the **Membrane Plant 2 Expansion** project to be performed for the Village of Wellington.

You are invited to submit a competitive bid for the Master Plant Contractor scope of work, which includes but is not limited to the following:

- Coordination with OEM on modifications to Trains 6, 7 and 8
- Construction of new trench for Trains 6 and 7 as shown in the bid documents
- Installation of new aluminum grating
- Modifications to existing grating as required
- All pipe installation and connections in the new trench
- All pipe supports in the new trench
- Grouting as required above trench and in the new trench

Bid Documents can be accessed through the following link:

[Bid Documents](#)

**Bids are due on 3/17/2025 at 2:00 PM** and shall be submitted electronic to [watergmpbids@whartonsmith.com](mailto:watergmpbids@whartonsmith.com).

Thank you,



**Eliana Corie | Project Manager – S. Florida Water/Wastewater**

**Wharton-Smith, Inc. | Construction Group of Choice | [www.whartonsmith.com](http://www.whartonsmith.com)**

5210 Hood Road, Palm Beach Gardens, FL 33418

Office: (561) 748-5956 x 2319 | Cell: (561) 602-2759

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## Eliana Corie

---

**From:** Jeffrey Holst <jeff@fldrilling.com>  
**Sent:** Monday, March 10, 2025 8:19 AM  
**To:** Eliana Corie  
**Cc:** Collaborative GMP Bids  
**Subject:** Re: Bid Invitation - VOW Membrane Plant 2 Expansion

Good morning, we will not be bidding this.

Thanks for reaching out!

**JEFFREY HOLST**  
*Senior Vice President*



Florida Design Drilling LLC  
7733 Hooper Road  
West Palm Beach, FL 33411

Mobile: 561-818-3228  
[Jeff@FLDrilling.com](mailto:Jeff@FLDrilling.com)  
[www.FLDrilling.com](http://www.FLDrilling.com)

On Fri, Mar 7, 2025 at 3:58 PM Eliana Corie <[ecorie@whartonsmith.com](mailto:ecorie@whartonsmith.com)> wrote:

Prospective Bidder,

Wharton-Smith, Inc. is the Construction Manager at Risk (CMAR) for the **Membrane Plant 2 Expansion** project to be performed for the Village of Wellington.

You are invited to submit a competitive bid for the Master Plant Contractor scope of work, which includes but is not limited to the following:

- Coordination with OEM on modifications to Trains 6, 7 and 8
- Construction of new trench for Trains 6 and 7 as shown in the bid documents
- Installation of new aluminum grating

- Modifications to existing grating as required
- All pipe installation and connections in the new trench
- All pipe supports in the new trench
- Grouting as required above trench and in the new trench

Bid Documents can be accessed through the following link:

Bid Documents

**Bids are due on 3/17/2025 at 2:00 PM** and shall be submitted electronic to [watergmpbids@whartonsmith.com](mailto:watergmpbids@whartonsmith.com).

Thank you,



**Eliana Corie | Project Manager – S. Florida Water/Wastewater**

**Wharton-Smith, Inc. | Construction Group of Choice**  
| [www.whartonsmith.com](http://www.whartonsmith.com)

5210 Hood Road, Palm Beach Gardens, FL 33418

Office: (561) 748-5956 x 2319 | Cell: (561) 602-2759

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## SECTION 4 – EXHIBIT R3 CONSTRUCTION SCHEDULE

| WTP M2 Expansion                |   | Village of Wellington |                 |                    |                     |           |           |             | 18-Mar-25 14:43                                   |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
|---------------------------------|---|-----------------------|-----------------|--------------------|---------------------|-----------|-----------|-------------|---|---|---|-----|---|---|-----|---|---|-----|---|---|-----|---|---|-----|---|---|-----|---|---|-----|---|---|-----|---|
| Activity ID                     | Activity Name                                   | Original Duration     | Actual Duration | Remaining Duration | Duration % Complete | Start     | Finish    | Total Float | 2025 2026 2027                                    |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
|                                 |   |                       |                 |                    |                     |           |           |             | Apr   | M | J | Jul | A | S | Oct | N | D | Jan | F | M | Apr | M | J | Jul | A | S | Oct | N | D | Jan | F | M | Apr | M |
| <b>WTP M2 Expansion</b>         |   | 388                   | 0               | 388                | 0%                  | 28-Apr-25 | 06-Nov-26 | 0           | 06-Nov-26, WTP M2 Expansion                       |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| <b>General Conditions</b>       |   | 558                   | 0               | 558                | 0%                  | 28-Apr-25 | 06-Nov-26 | 0           | 06-Nov-26, General Conditions                     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| <b>Administration</b>           |   | 0                     | 0               | 0                  | 0%                  | 28-Apr-25 | 28-Apr-25 | 0           | 28-Apr-25, Administration                         |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1000                           | Notice to Proceed                               | 0                     | 0               | 0                  | 0%                  | 28-Apr-25 |           | 0           | ◆ Notice to Proceed                               |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| <b>Wharton-Smith</b>            |   | 30                    | 0               | 30                 | 0%                  | 07-Oct-26 | 06-Nov-26 | 0           | 06-Nov-26, Wharton-Smith                          |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1010                           | Substantial Completion                          | 0                     | 0               | 0                  | 0%                  |           | 07-Oct-26 | 0           | ◆ Substantial Completion                          |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1020                           | Punchlist                                       | 30                    | 0               | 30                 | 0%                  | 08-Oct-26 | 06-Nov-26 | 0           | ■ Punchlist                                       |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1030                           | Final Completion                                | 0                     | 0               | 0                  | 0%                  |           | 06-Nov-26 | 0           | ◆ Final Completion                                |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| <b>Procurement</b>              |   | 274                   | 0               | 274                | 0%                  | 28-Apr-25 | 26-Jan-26 | 151         | 26-Jan-26, Procurement                            |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| <b>Submittals</b>               |   | 60                    | 0               | 60                 | 0%                  | 28-Apr-25 | 26-Jun-25 | 151         | 26-Jun-25, Submittals                             |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1040                           | Codeline Pressure Vessels                       | 60                    | 0               | 60                 | 0%                  | 28-Apr-25 | 26-Jun-25 | 151         | ■ Codeline Pressure Vessels                       |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1050                           | Membranes                                       | 60                    | 0               | 60                 | 0%                  | 28-Apr-25 | 26-Jun-25 | 91          | ■ Membranes                                       |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1060                           | SS Pipe   | 60                    | 0               | 60                 | 0%                  | 28-Apr-25 | 26-Jun-25 | 0           | ■ SS Pipe   |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1410                           | Protec Pressure Vessels                         | 60                    | 0               | 60                 | 0%                  | 28-Apr-25 | 26-Jun-25 | 16          | ■ Protec Pressure Vessels                         |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| <b>Review and Approve</b>       |   | 14                    | 0               | 14                 | 0%                  | 27-Jun-25 | 10-Jul-25 | 151         | 10-Jul-25, Review and Approve                     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1070                           | Codeline Pressure Vessels                       | 14                    | 0               | 14                 | 0%                  | 27-Jun-25 | 10-Jul-25 | 151         | ■ Codeline Pressure Vessels                       |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1080                           | Membranes                                       | 14                    | 0               | 14                 | 0%                  | 27-Jun-25 | 10-Jul-25 | 91          | ■ Membranes                                       |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1090                           | SS Pipe   | 14                    | 0               | 14                 | 0%                  | 27-Jun-25 | 10-Jul-25 | 0           | ■ SS Pipe   |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1420                           | Protec Pressure Vessels                         | 14                    | 0               | 14                 | 0%                  | 27-Jun-25 | 10-Jul-25 | 16          | ■ Protec Pressure Vessels                         |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| <b>Fabrication and Delivery</b> |   | 200                   | 0               | 200                | 0%                  | 11-Jul-25 | 26-Jan-26 | 151         | 26-Jan-26, Fabrication and Delivery               |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1100                           | Codeline Pressure Vessels                       | 200                   | 0               | 200                | 0%                  | 11-Jul-25 | 26-Jan-26 | 151         | ■ Codeline Pressure Vessels                       |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1110                           | Membranes                                       | 120                   | 0               | 120                | 0%                  | 11-Jul-25 | 07-Nov-25 | 91          | ■ Membranes                                       |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1120                           | SS Pipe   | 90                    | 0               | 90                 | 0%                  | 11-Jul-25 | 08-Oct-25 | 0           | ■ SS Pipe   |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1430                           | Protec Pressure Vessels                         | 60                    | 0               | 60                 | 0%                  | 11-Jul-25 | 08-Sep-25 | 16          | ■ Protec Pressure Vessels                         |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| <b>Site</b>                     |   | 5                     | 0               | 5                  | 0%                  | 08-Sep-25 | 15-Sep-25 | 12          | 15-Sep-25, Site                                   |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1130                           | Mobilization                                    | 5                     | 0               | 5                  | 0%                  | 08-Sep-25 | 15-Sep-25 | 12          | ■ Mobilization                                    |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| <b>Train 6 Modifications</b>    |   | 105                   | 0               | 105                | 0%                  | 15-Sep-25 | 17-Feb-26 | 0           | 17-Feb-26, Train 6 Modifications                  |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1140                           | Shutdown  | 0                     | 0               | 0                  | 0%                  | 15-Sep-25 |           | 12          | ◆ Shutdown  |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1180                           | Frame Modifications                             | 5                     | 0               | 5                  | 0%                  | 15-Sep-25 | 22-Sep-25 | 12          | ■ Frame Modifications                             |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1150                           | Feed, Concentrate, Permeate and Interstage Mods | 60                    | 0               | 60                 | 0%                  | 08-Oct-25 | 08-Jan-26 | 0           | ■ Feed, Concentrate, Permeate and Interstage Mods |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1160                           | Build Trench                                    | 10                    | 0               | 10                 | 0%                  | 08-Jan-26 | 22-Jan-26 | 0           | ■ Build Trench                                    |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1170                           | Install Trench Pipe                             | 5                     | 0               | 5                  | 0%                  | 22-Jan-26 | 29-Jan-26 | 0           | ■ Install Trench Pipe                             |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1190                           | Pressure Testing                                | 1                     | 0               | 1                  | 0%                  | 29-Jan-26 | 30-Jan-26 | 0           | ■ Pressure Testing                                |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1200                           | Disinfection & Flushing                         | 5                     | 0               | 5                  | 0%                  | 30-Jan-26 | 06-Feb-26 | 0           | ■ Disinfection & Flushing                         |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1220                           | Load Membranes                                  | 2                     | 0               | 2                  | 0%                  | 06-Feb-26 | 10-Feb-26 | 0           | ■ Load Membranes                                  |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1210                           | Bacteriological Testing                         | 2                     | 0               | 2                  | 0%                  | 10-Feb-26 | 12-Feb-26 | 0           | ■ Bacteriological Testing                         |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1230                           | Acceptance Test                                 | 3                     | 0               | 3                  | 0%                  | 12-Feb-26 | 17-Feb-26 | 0           | ■ Acceptance Test                                 |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| <b>Train 7 Modifications</b>    |   | 93                    | 0               | 93                 | 0%                  | 17-Feb-26 | 26-Jun-26 | 0           | 26-Jun-26, Train 7 Modifications                  |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1240                           | Shutdown  | 0                     | 0               | 0                  | 0%                  | 17-Feb-26 |           | 0           | ◆ Shutdown  |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1270                           | Frame Modifications                             | 5                     | 0               | 5                  | 0%                  | 17-Feb-26 | 24-Feb-26 | 0           | ■ Frame Modifications                             |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1250                           | Feed, Concentrate, Permeate and Interstage Mods | 60                    | 0               | 60                 | 0%                  | 24-Feb-26 | 19-May-26 | 0           | ■ Feed, Concentrate, Permeate and Interstage Mods |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1260                           | Build Trench                                    | 10                    | 0               | 10                 | 0%                  | 19-May-26 | 02-Jun-26 | 0           | ■ Build Trench                                    |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1280                           | Install Trench Pipe                             | 5                     | 0               | 5                  | 0%                  | 02-Jun-26 | 09-Jun-26 | 0           | ■ Install Trench Pipe                             |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1290                           | Pressure Testing                                | 1                     | 0               | 1                  | 0%                  | 09-Jun-26 | 10-Jun-26 | 0           | ■ Pressure Testing                                |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1300                           | Disinfection & Flushing                         | 5                     | 0               | 5                  | 0%                  | 10-Jun-26 | 17-Jun-26 | 0           | ■ Disinfection & Flushing                         |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |
| A1310                           | Load Membranes                                  | 2                     | 0               | 2                  | 0%                  | 17-Jun-26 | 19-Jun-26 | 0           | ■ Load Membranes                                  |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |

■ Actual Work      ◆ Milestone  
■ Remaining Work      ▼ Summary  
■ Critical Remaining Work

Wellington WTP M2 Expansion  
 Owner: Village of Wellington  
 Engineer: Kimley Horn  
 Contractor: Wharton-Smith Construction Group

Data Date: 28-Apr-25  
 Finish Date: 06-Nov-26  
 Page 1 of 2



| WTP M2 Expansion             |  | Village of Wellington |                 |                    |                     |                  |                  |             | 18-Mar-25 14:43   |   |   |     |   |      |     |   |   |     |      |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |
|------------------------------|--|-----------------------|-----------------|--------------------|---------------------|------------------|------------------|-------------|---|---|---|-----|---|------|-----|---|---|-----|------|---|-----|---|---|-----|---|---|-----|---|---|-----|---|---|-----|---|---|
| Activity ID                  | Activity Name                                    | Original Duration     | Actual Duration | Remaining Duration | Duration % Complete | Start            | Finish           | Total Float | Gantt Chart   |   |   |     |   |      |     |   |   |     |      |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |
|                              |  |                       |                 |                    |                     |                  |                  |             | 2025  |   |   |     |   | 2026 |     |   |   |     | 2027 |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |
|                              |  |                       |                 |                    |                     |                  |                  |             | Apr   | M | J | Jul | A | S    | Oct | N | D | Jan | F    | M | Apr | M | J | Jul | A | S | Oct | N | D | Jan | F | M | Apr | M | J |
| A1320                        | Bacteriological Testing                          | 2                     | 0               | 2                  | 0%                  | 19-Jun-26        | 23-Jun-26        | 0           | ■ Bacteriological Testing   |   |   |     |   |      |     |   |   |     |      |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |
| A1330                        | Acceptance Test                                  | 3                     | 0               | 3                  | 0%                  | 23-Jun-26        | 26-Jun-26        | 0           | ■ Acceptance Test   |   |   |     |   |      |     |   |   |     |      |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |
| <b>Train 8 Modifications</b> |  | <b>73</b>             | <b>0</b>        | <b>73</b>          | <b>0%</b>           | <b>26-Jun-26</b> | <b>07-Oct-26</b> | <b>0</b>    | <span style="color: black;">▶</span> 07-Oct-26, Train 8 Modifications<br>◆ Shutdown |   |   |     |   |      |     |   |   |     |      |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |
| A1340                        | Shutdown   | 0                     | 0               | 0                  | 0%                  | 26-Jun-26        |                  | 0           | ◆ Shutdown  |   |   |     |   |      |     |   |   |     |      |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |
| A1350                        | Feed, Concentrate, Permeate and Insterstage Mods | 60                    | 0               | 60                 | 0%                  | 26-Jun-26        | 18-Sep-26        | 0           | ■ Feed, Concentrate, Permeate and Insterstage Mods                                  |   |   |     |   |      |     |   |   |     |      |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |
| A1360                        | Pressure Testing                                 | 1                     | 0               | 1                  | 0%                  | 18-Sep-26        | 21-Sep-26        | 0           | ■ Pressure Testing  |   |   |     |   |      |     |   |   |     |      |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |
| A1370                        | Disinfection & Flushing                          | 5                     | 0               | 5                  | 0%                  | 21-Sep-26        | 28-Sep-26        | 0           | ■ Disinfection & Flushing   |   |   |     |   |      |     |   |   |     |      |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |
| A1380                        | Load Membranes                                   | 2                     | 0               | 2                  | 0%                  | 28-Sep-26        | 30-Sep-26        | 0           | ■ Load Membranes  |   |   |     |   |      |     |   |   |     |      |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |
| A1390                        | Bacteriological Testing                          | 2                     | 0               | 2                  | 0%                  | 30-Sep-26        | 02-Oct-26        | 0           | ■ Bacteriological Testing   |   |   |     |   |      |     |   |   |     |      |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |
| A1400                        | Acceptance Test                                  | 3                     | 0               | 3                  | 0%                  | 02-Oct-26        | 07-Oct-26        | 0           | ■ Acceptance Test   |   |   |     |   |      |     |   |   |     |      |   |     |   |   |     |   |   |     |   |   |     |   |   |     |   |   |

■ Actual Work      ◆ Milestone  
■ Remaining Work      ▶ Summary  
■ Critical Remaining Work

Wellington WTP M2 Expansion  
 Owner: Village of Wellington  
 Engineer: Kimley Horn  
 Contractor: Wharton-Smith Construction Group

Data Date: 28-Apr-25  
 Finish Date: 06-Nov-26  
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## SECTION 5 – EXHIBIT R4 CONSTRUCTION MANAGER’S ALLOWANCES

The GMP includes the following Allowances for work items with undefined scopes at this time. Please note that the allowances are currently shown below the line without fee, fee to be included on allowance usage once brought into the project as approved by the Village of Wellington.

1. Building Permits - \$10,000
2. Independent Testing - \$7,500
3. Painting - \$30,000
4. Material Escalations - \$100,000

## SECTION 6 – EXHIBIT R5 ASSUMPTIONS AND CLARIFICATIONS

Please note the following assumptions and clarifications regarding this proposal:

1. The work is in accordance with Kimley-Horn’s “WTP Membrane Plant #2 (M2) Expansion” drawings dated November 2024. Please refer to Section 2 for the Drawings and Specifications.
2. The GMP includes work for the Membrane Plant 2 expansion along with the associated piping and structural modifications. Pricing for the bid proposals received will remain valid for a period of one hundred and eighty (180) days after the bid date.
3. We have included an Owner Controlled Contingency of \$150,000.00. Please note that this contingency is currently shown below the line without fee, fee to be included on contingency usage once brought into the project as approved by the Village of Wellington.
4. We have included the following allowances for work items with undefined scopes at this time. Please note that the allowances are currently shown below the line without fee, fee to be included on allowance usage once brought into the project as approved by the Village of Wellington.
  - a. Building Permits - \$10,000
  - b. Independent Testing - \$7,500
  - c. Painting - \$30,000
  - d. Material Escalations - \$100,000
5. Storm water pollution prevention (SWPPP) costs are not included.
6. We have included a performance and payment bond and insurances.
7. ERP, FDEP, FDOT, & ROW permit costs are by others.
8. Costs associated with Davis-Bacon Wages & AIS requirements have not been included at this time.
9. It is assumed that the Village of Wellington will provide power and water for use during construction and startup at no cost.
10. We have not included installation and removal costs for the construction trailers, temporary water system, and internet.
11. Price includes 12 months of General Conditions and General Requirements. However, as requested by the Village of Wellington, construction trailers and internet were carried for 3 additional months to cover the downtime between the end date of the last CMAR project at the Water Treatment Plant and the start date/mobilization of M2 Expansion. Any additional costs to maintain the construction trailers and internet onsite due to delays with M2 Expansion start date will be submitted to the Owner and billed against the Owner’s Contingency.
12. We have not included any costs for electrical or instrumentation/control scope of work as there is currently none defined for this project scope.
13. We have not included any costs for Lead/Asbestos Survey nor abatement of any kind.
14. Cost Estimate and schedule reflect installing Protec pressure vessels on Trains 6 and 7 and keeping Codeline on Train 8.
15. Pricing includes no knowledge of buried or concealed conditions beyond what is indicated or shown on documents received to date. Unforeseen conflicts and utilities will be submitted as additional costs.
16. All Pricing (Labor, Material, Equipment, Subcontract) is based on current market value with no escalation or inflation adjustment. Duration of Material lead times are based on current market conditions.

17. Please refer to Section 4 for the proposed GMP schedule. Please note that the P6 schedule is referenced in “work days” as the program automatically accounts for weekends and holidays. The contract time is expressed in “calendar days”. 558 calendar days from Notice of Commencement to Final Completion indicated equates to the 388 work days shown in the P6 schedule. Our current estimated duration of on-site construction is 12 months. We have included project management staff that is appropriate for this project.

## **SECTION 7 – EXHIBIT R6 LIST OF EXTENDED WARRANTIES**

The Construction Manager's warranty and the warranty of all subcontractors and suppliers will be in accordance with the Construction Manager at Risk Agreement and the Contract Documents. All work shall be warranted for a period of one (1) year from date of final acceptance by the owner or the manufacturer's standard warranty period, whichever is greater.

Extended warranties as required by the contract specifications will be furnished to the owner during the closeout phase and prior to receipt of final payment.

## **SECTION 8 – EXHIBIT R7 GENERAL CONDITIONS AND GENERAL REQUIREMENTS**



**Wharton-Smith, Inc.**  
CONSTRUCTION GROUP

JOB NAME: WTP MEMBRANE PLANT 2 EXPANSION

ESTIMATE #: 0

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
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| GENERAL CONDITIONS              |     |      |             |              |       |            |           |           |      |           |          |           |           |              |           |           |           |
|---------------------------------|-----|------|-------------|--------------|-------|------------|-----------|-----------|------|-----------|----------|-----------|-----------|--------------|-----------|-----------|-----------|
| DESCRIPTION                     | QTY | UNIT | MH/<br>UNIT | BASE<br>RATE | LABOR |            |           | EQUIPMENT |      |           | MATERIAL |           |           | SUBCONTRACTS |           | \$ TOTALS |           |
|                                 |     |      |             |              | U/P   | TOTAL MH   | \$ AMOUNT | HR/UNIT   | RATE | \$ AMOUNT | U/P      | \$ AMOUNT | \$ AMOUNT | U/P          | \$ AMOUNT |           |           |
| PROJECT MANAGEMENT TEAM         |     |      |             |              |       |            |           |           |      |           |          |           |           |              |           |           |           |
| FIELD STAFF                     |     |      |             |              |       |            |           |           |      |           |          |           |           |              |           |           |           |
| Superintendent                  | 52  | WK   | 40          | \$124.00     |       | \$4,960.00 | 2,083     | \$258,317 |      |           | \$0.00   |           | \$0       | \$0          |           | \$0       | \$258,317 |
| OFFICE STAFF                    |     |      |             |              |       |            |           |           |      |           |          |           |           |              |           |           |           |
| Project Manager                 | 52  | WK   | 20          | \$122.00     |       | \$2,440.00 | 1,042     | \$127,075 |      |           | \$0.00   |           | \$0       | \$0          |           | \$0       | \$127,075 |
| Project Engineer                | 52  | WK   | 40          | \$73.00      |       | \$2,920.00 | 2,083     | \$152,074 |      |           | \$0.00   |           | \$0       | \$0          |           | \$0       | \$152,074 |
| Administrative Assistant        | 52  | WK   | 8           | \$73.00      |       | \$584.00   | 417       | \$30,415  |      |           | \$0.00   |           | \$0       | \$0          |           | \$0       | \$30,415  |
| OTHER STAFF                     |     |      |             |              |       |            |           |           |      |           |          |           |           |              |           |           |           |
| Executive Management            | 52  | WK   | 2           | \$163.00     |       | \$326.00   | 104       | \$16,978  |      |           | \$0.00   |           | \$0       | \$0          |           | \$0       | \$16,978  |
| Project Accountant              | 52  | WK   | 2           | \$97.00      |       | \$194.00   | 104       | \$10,104  |      |           | \$0.00   |           | \$0       | \$0          |           | \$0       | \$10,104  |
| Quality Manager                 | 52  | WK   | 2           | \$147.00     |       | \$294.00   | 104       | \$15,312  |      |           | \$0.00   |           | \$0       | \$0          |           | \$0       | \$15,312  |
| Safety Manager                  | 52  | WK   | 2           | \$108.00     |       | \$216.00   | 104       | \$11,249  |      |           | \$0.00   |           | \$0       | \$0          |           | \$0       | \$11,249  |
| RELATED MANAGEMENT COSTS        |     |      |             |              |       |            |           |           |      |           |          |           |           |              |           |           |           |
| Software Costs                  | 1   | LS   |             | \$50.00      |       | \$0.00     | 0         | \$0       |      |           | \$0.00   |           | \$0       | \$0          | \$6,600   | \$6,600   | \$6,600   |
| <b>TOTAL GENERAL CONDITIONS</b> |     |      |             |              |       |            | 6,041     | \$621,523 |      |           | \$0      |           | \$0       | \$0          | \$6,600   | \$6,600   | \$628,123 |



**Wharton-Smith, Inc.**  
CONSTRUCTION GROUP

|             |                                |  |  |  |  |
|-------------|--------------------------------|--|--|--|--|
| JOB NAME:   | WTP MEMBRANE PLANT 2 EXPANSION |  |  |  |  |
| ESTIMATE #: | 0                              |  |  |  |  |
|             |                                |  |  |  |  |
|             |                                |  |  |  |  |
|             |                                |  |  |  |  |
|             |                                |  |  |  |  |

| GENERAL REQUIREMENTS                            | DURATION = |                 | 0 DIRECT MANHOURS |           | 0          |          | MANWEEKS  |           |      |           |            |           |              |            |           |           |
|---|------------|-----------------|-------------------|-----------|------------|----------|-----------|-----------|------|-----------|------------|-----------|--------------|------------|-----------|-----------|
|   | 12         | MONTHS, PLANNED | 0                 | 0         | MEN        |          |           |           |      |           |            |           |              |            |           |           |
| DESCRIPTION                                     | QTY        | UNIT            | MH/UNIT           | BASE RATE | LABOR      |          |           | EQUIPMENT |      | MATERIAL  |            |           | SUBCONTRACTS |            | \$ TOTALS |           |
|   |            |                 |                   |           | U/P        | TOTAL MH | \$ AMOUNT | HR/UNIT   | RATE | \$ AMOUNT | U/P        | \$ AMOUNT | \$ AMOUNT    | U/P        |           | \$ AMOUNT |
| W/ 7% TAX                                       |            |                 |                   |           |            |          |           |           |      |           |            |           |              |            |           |           |
| <b>TEMP.FACILITIES &amp; UTILITIES</b>          |            |                 |                   |           |            |          |           |           |      |           |            |           |              |            |           |           |
| WATER, MONTHLY                                  | 12         | MO              |                   | \$50.00   | \$0.00     | 0        | \$0       |           |      | \$0.00    | \$250.00   | \$3,000   | \$3,210      |            | \$0       | \$3,210   |
| INTERNET/TELEPHONE, MONTHLY CHARGES - W-S       | 15         | MO              |                   | \$50.00   | \$0.00     | 0        | \$0       |           |      | \$0.00    | \$500.00   | \$7,500   | \$8,025      |            | \$0       | \$8,025   |
| FIELD OFFICE, WHARTON SMITH INC                 | 15         | MO              | 5                 | \$50.00   | \$250.00   | 75       | \$3,750   |           |      | \$0.00    | \$6,000.00 | \$90,000  | \$96,300     |            | \$0       | \$100,050 |
| JOB OFFICE SUPPLIES                             | 12         | MO              |                   | \$50.00   | \$0.00     | 0        | \$0       |           |      | \$0.00    | \$750.00   | \$9,000   | \$9,630      |            | \$0       | \$9,630   |
| COMPUTER EQUIPMENT FOR FIELD OFFICE - W-S       | 1          | LS              |                   | \$50.00   | \$0.00     | 0        | \$0       |           |      | \$0.00    | \$1,500.00 | \$1,500   | \$1,605      |            | \$0       | \$1,605   |
| TOOL TRAILERS - 1 REQUIRED                      | 12         | MO              |                   | \$50.00   | \$0.00     | 0        | \$0       |           |      | \$0.00    | \$200.00   | \$2,400   | \$2,568      |            | \$0       | \$2,568   |
| TEMPORARY TOILETS - 1 REQUIRED                  | 12         | MO              |                   | \$50.00   | \$0.00     | 0        | \$0       |           |      | \$0.00    | \$400.00   | \$4,800   | \$5,136      |            | \$0       | \$5,136   |
| TEMPORARY SEWAGE HOLDING TANKS - ENGINEER & W-S | 12         | MO              |                   | \$50.00   | \$0.00     | 0        | \$0       |           |      | \$0.00    | \$300.00   | \$3,600   | \$3,852      |            | \$0       | \$3,852   |
| <b>CONSTRUCTION EQUIPMENT &amp; TOOLS</b>       |            |                 |                   |           |            |          |           |           |      |           |            |           |              |            |           |           |
| SMALL TOOLS AND SUPPLIES                        | 1          | LS              |                   | \$50.00   | \$0.00     | 0        | \$0       |           |      | \$0.00    | \$2,500    | \$2,500   | \$2,675      |            | \$0       | \$2,675   |
| <b>SAFETY &amp; HEALTH &amp; HOUSEKEEPING</b>   |            |                 |                   |           |            |          |           |           |      |           |            |           |              |            |           |           |
| CLEAN-UP THROUGHOUT DURATION OF PROJECT         | 52         | WK              | 6                 | \$50.00   | \$300.00   | 312      | \$15,624  |           |      | \$0.00    |            | \$0       | \$0          |            | \$0       | \$15,624  |
| DUMPSTERS                                       | 12         | MO              |                   | \$50.00   | \$0.00     | 0        | \$0       |           |      | \$0.00    | \$3,000.00 | \$36,000  | \$38,520     |            | \$0       | \$38,520  |
| <b>PERMITS, FEES, INSURANCE, LEGAL, ETC.</b>    |            |                 |                   |           |            |          |           |           |      |           |            |           |              |            |           |           |
| BUILDER'S RISK INSURANCE- COASTAL COUNTY        | 12         | MO              |                   | \$50.00   | \$0.00     | 0        | \$0       |           |      | \$0.00    |            | \$0       | \$0          | \$500.00   | \$6,000   | \$6,000   |
| <b>PROJECT DOCUMENTATION AND SERVICES</b>       |            |                 |                   |           |            |          |           |           |      |           |            |           |              |            |           |           |
| PHOTOGRAPHS                                     | 12         | MO              |                   | \$50.00   | \$0.00     | 0        | \$0       |           |      | \$0.00    | \$150.00   | \$1,800   | \$1,926      |            | \$0       | \$1,926   |
| PRE-CONSTRUCTION AUDIO-VIDEO DOCUMENTATION      | 1          | LS              |                   | \$50.00   | \$0.00     | 0        | \$0       |           |      | \$0.00    |            | \$0       | \$0          | \$1,250.00 | \$1,250   | \$1,250   |
| DESIGN SERVICES (CADD) - AS-BUILTS              | 1          | LS              | 40                | \$65.00   | \$2,600.00 | 40       | \$2,600   |           |      | \$0.00    |            | \$0       | \$0          |            | \$0       | \$2,600   |
| PLANS & SPECIFICATIONS REPRODUCTION COSTS       | 1          | LS              |                   | \$50.00   | \$0.00     | 0        | \$0       |           |      | \$0.00    | \$1,500.00 | \$1,500   | \$1,605      |            | \$0       | \$1,605   |
| <b>TOTAL GENERAL REQUIREMENTS</b>               |            |                 |                   |           |            | 427      | \$21,974  |           |      | \$0       |            |           | \$175,052    |            | \$7,250   | \$204,276 |

## SECTION 9 – EXHIBIT R8 SUBMITTAL SCHEDULE



| Submittal Log: Wellington WTP Membrane Plant 2 Expansion |           |      |                           |        |          |
|--|-----------|------|---------------------------|--------|----------|
| Package  | Submittal | Rev. | Title                     | Status | Comments |
| Div. 01  |           |      | Schedule of Values        | UNS    |          |
|  |           |      | Preconstruction Video     | UNS    |          |
|  |           |      | Construction Schedule     | UNS    |          |
|  |           |      | Notice of Plant Impact    | UNS    |          |
| Div.03   |           |      | Concrete                  | UNS    |          |
| Div. 05  |           |      | Miscellaneous Metals      | UNS    |          |
| Div. 09  |           |      | Painting                  | UNS    |          |
| Div. 11  |           |      | Membrane Softening System | UNS    |          |
| Div. 15  |           |      | Piping and Valves         | UNS    |          |