

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 MAXIMIM 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

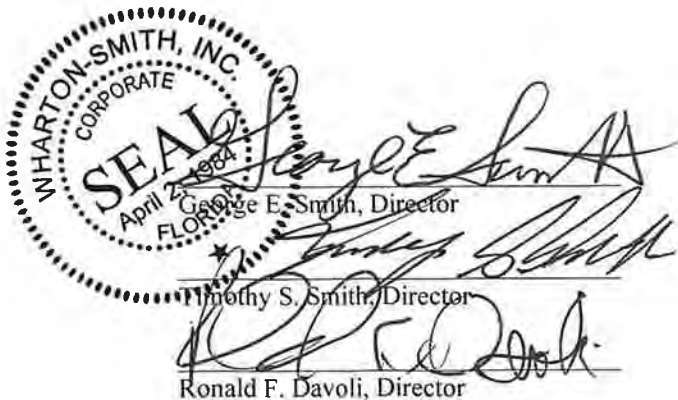
I, the undersigned Secretary of Wharton Smith, Inc., a corporation organized and existing under the laws of the State of Florida, do hereby certify that a meeting of the Board of Directors of said corporation, duly held on February 13, 2023, a quorum being present, the following resolution was adopted 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)




Stephanie L. Pompeo, Secretary



[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

Detail by Entity Name

Florida Profit Corporation
WHARTON-SMITH, INC.

Filing Information

Document Number	G94383
FEI/EIN Number	59-2392802
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Effective Date	04/02/1984
State	FL
Status	ACTIVE
Last Event	AMENDMENT
Event Date Filed	03/21/2024
Event Effective Date	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

01/08/2025 -- ANNUAL REPORT	View image in PDF format
03/21/2024 -- Amendment	View image in PDF format
01/03/2024 -- ANNUAL REPORT	View image in PDF format
04/21/2023 -- Amendment	View image in PDF format
02/17/2023 -- Amendment	View image in PDF format
01/03/2023 -- ANNUAL REPORT	View image in PDF format
04/12/2022 -- Amendment	View image in PDF format
01/04/2022 -- ANNUAL REPORT	View image in PDF format
07/06/2021 -- AMENDED ANNUAL REPORT	View image in PDF format
01/06/2021 -- ANNUAL REPORT	View image in PDF format
07/06/2020 -- Amendment	View image in PDF format
01/31/2020 -- Amendment	View image in PDF format
01/21/2020 -- AMENDED ANNUAL REPORT	View image in PDF format
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01/02/2019 -- ANNUAL REPORT	View image in PDF format
01/02/2018 -- ANNUAL REPORT	View image in PDF format
03/30/2017 -- AMENDED ANNUAL REPORT	View image in PDF format
01/03/2017 -- ANNUAL REPORT	View image in PDF format
09/12/2016 -- AMENDED ANNUAL REPORT	View image in PDF format
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06/18/2015 -- AMENDED ANNUAL REPORT	View image in PDF format
05/18/2015 -- Amendment	View image in PDF format
04/07/2015 -- AMENDED ANNUAL REPORT	View image in PDF format
02/04/2015 -- AMENDED ANNUAL REPORT	View image in PDF format
01/05/2015 -- ANNUAL REPORT	View image in PDF format
12/01/2014 -- AMENDED ANNUAL REPORT	View image in PDF format
06/23/2014 -- AMENDED ANNUAL REPORT	View image in PDF format
01/10/2014 -- ANNUAL REPORT	View image in PDF format
04/12/2013 -- AMENDED ANNUAL REPORT	View image in PDF format
01/16/2013 -- ANNUAL REPORT	View image in PDF format
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04/18/2011 -- ANNUAL REPORT	View image in PDF format
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01/23/2008 -- ANNUAL REPORT	View image in PDF format
03/01/2007 -- ANNUAL REPORT	View image in PDF format

04/25/2006 -- ANNUAL REPORT	View image in PDF format
02/17/2006 -- Amendment	View image in PDF format
01/04/2005 -- ANNUAL REPORT	View image in PDF format
04/02/2004 -- ANNUAL REPORT	View image in PDF format
02/17/2003 -- ANNUAL REPORT	View image in PDF format
02/18/2002 -- ANNUAL REPORT	View image in PDF format
10/03/2001 -- Amendment	View image in PDF format
04/19/2001 -- ANNUAL REPORT	View image in PDF format
04/21/2000 -- ANNUAL REPORT	View image in PDF format
04/22/1999 -- ANNUAL REPORT	View image in PDF format
05/13/1998 -- ANNUAL REPORT	View image in PDF format
05/16/1997 -- ANNUAL REPORT	View image in PDF format
05/01/1996 -- ANNUAL REPORT	View image in PDF format
04/07/1995 -- ANNUAL REPORT	View image in PDF format

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

Engineer: Kimley-Horn

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SECTION 1 – EXECUTIVE SUMMARY

February 26, 2025

Ms. Anjuli 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

Plotted By: Corriu, Daniel Sheet Set: VOW M2 EXPANSION Layout: M-1 COVER SHEET November 15, 2024 11:34:11am K:\web_civil\144957082 - m2_expansion\CAD\plansheets\M-1 COVER SHEET.dwg
This document, together with the concepts and designs presented herein, is an instrument of service, intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

WTP MEMBRANE PLANT #2 (M2) EXPANSION

PREPARED FOR

VILLAGE OF WELLINGTON

NOVEMBER 2024



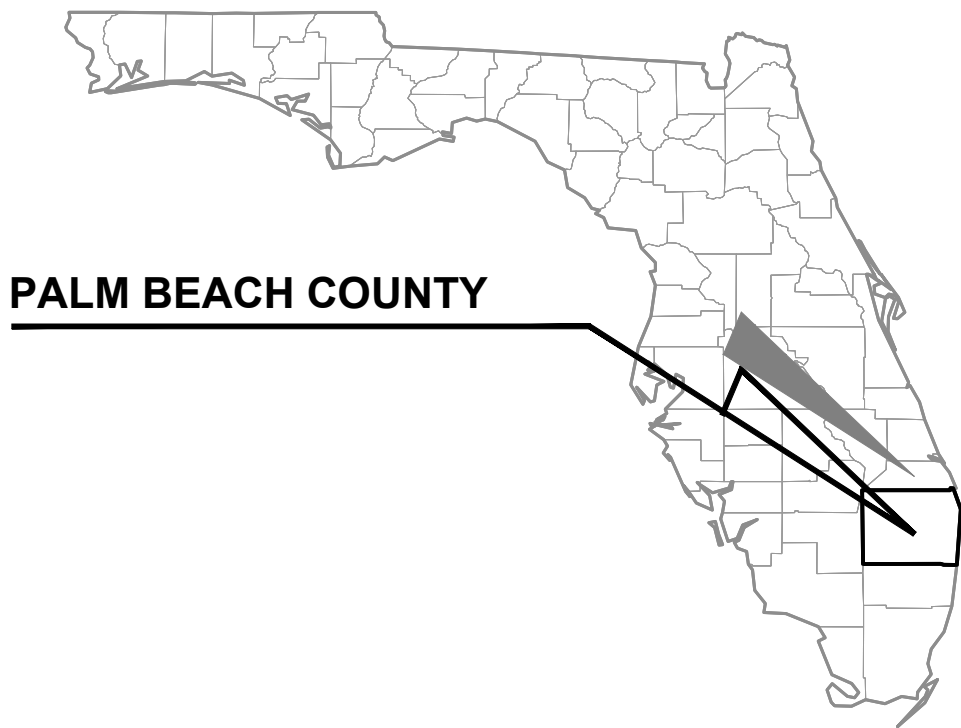
VILLAGE COUNCIL

MAYOR
VICE MAYOR
COUNCILWOMAN
COUNCILWOMAN
COUNCILWOMAN

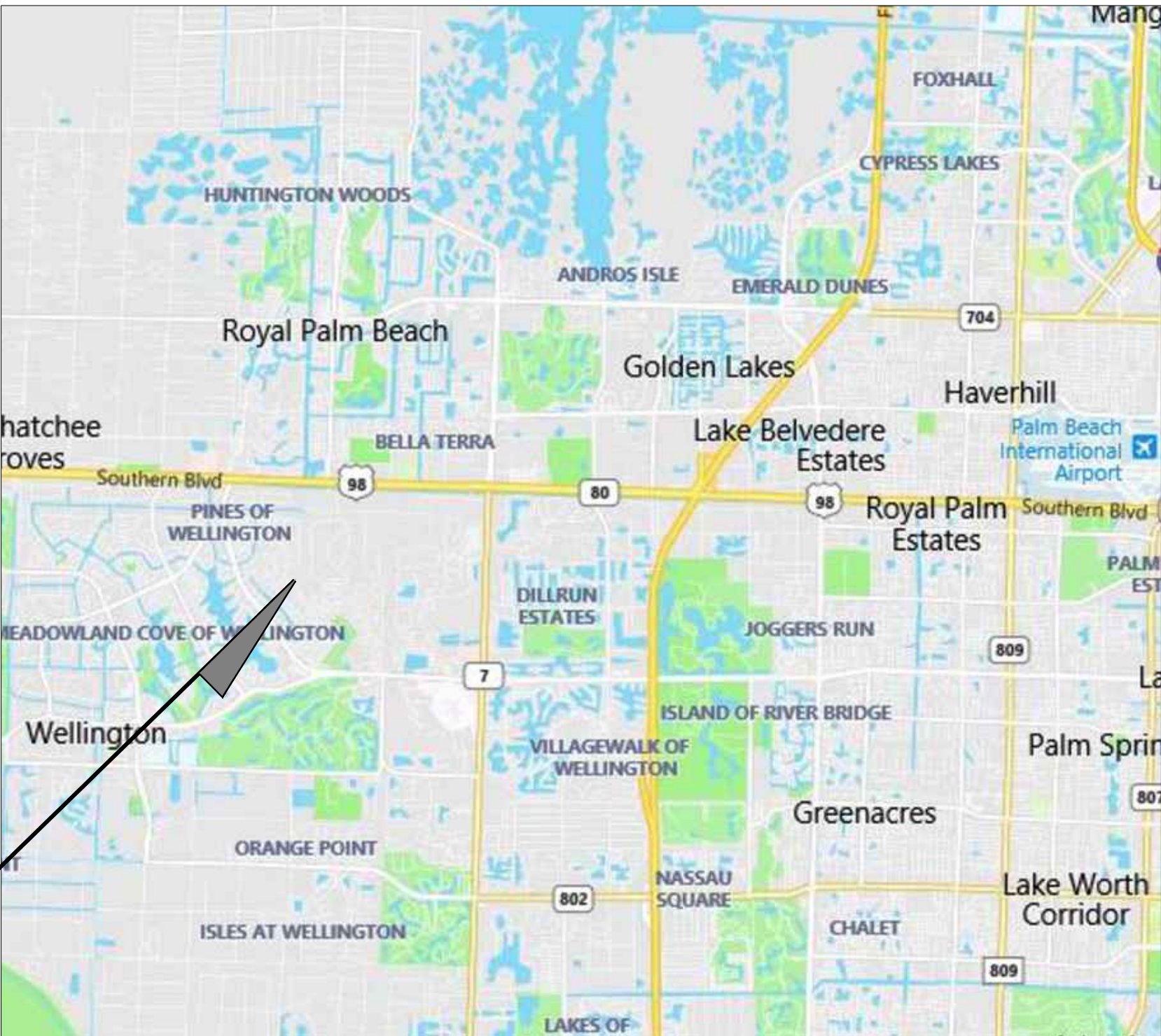
VILLAGE MANAGER
ASSISTANT VILLAGE MANAGER
DEPUTY VILLAGE MANAGER
UTILITY DIRECTOR

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

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	TRAN 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



© 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

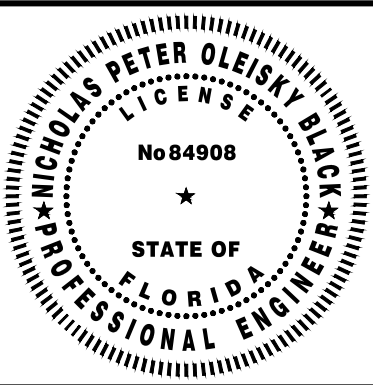
KHA PROJECT 144957082
DATE NOV 2024
SCALE AS SHOWN
DESIGNED BY NPOB
DRAWN BY AH
CHECKED BY JEP

WTP MEMBRANE PLANT #2 (M2) EXPANSION

PREPARED FOR

VILLAGE OF WELLINGTON

PALM BEACH COUNTY FLORIDA

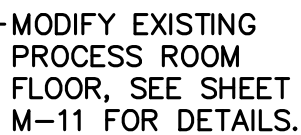
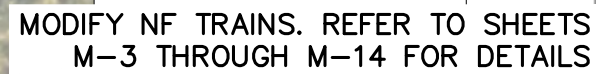


THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

COVER SHEET

SHEET NUMBER
M-1
1 OF 15



SCALE: 3/16" = 1'-0"



SCALE: 1" = 50'



1. CONTRACTOR SHALL COORDINATE WORK WITH THE OWNER AND PROVIDE ONE WEEK NOTICE PRIOR TO DEMOLITION.
2. CONTRACTOR SHALL CONFIRM SIZE, MATERIAL, AND LOCATION OF ALL MECHANICAL EQUIPMENT AND FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS TO ACCOMMODATE PROPOSED EQUIPMENT AS REQUIRED.
3. 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.
4. ALL STAINLESS STEEL PIPING AND FITTINGS SHALL BE FINAL PICKLED AND PASSIVATED U.O.N, WELDED 316/316L SCHEDULE 10S MINIMUM.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS AND CONSTRUCTION.
6. 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.
7. ALL AREAS IMPACTED BY CONSTRUCTION SHALL BE RESTORED PER SPECIFICATIONS.
8. ELEVATION SHOWN HEREIN REFERENCE TO NGVD'29. CONVERSION FROM NGVD 1929 TO NAVD 1988 IS AS FOLLOWS: (NGVD 1929) - 1.471 = (NAVD 1988)
9. 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.

ABBREVIATIONS:

BF	BLIND FLANGE	
BFV	BUTTERFLY VALVE	
CL, C	CENTERLINE	
CONST.	CONTRACT	
CFV	CARTRIDGE FILTER	VESSEL
CSR	CLEANING SYSTEM	RETURN
CSS	CLEANING SYSTEM	SUPPLY
CSW	CLEANING SYSTEM	WASTE
FL	FLANGED	
FRP	FIBER REINFORCED PLASTIC	
GE	GROOVED END	
LS	LUG STYLE	
LR	LONG RADIUS	

MIN.
M2
NFC
NFF
NFI
NFP
O.C.
PE
PV
SL
SST
T.O.
VSF

MINIMUM
MEMBRANE PLANT 2
NANOFILTRATION CONCENTRATE
NANOFILTRATION FEEDWATER
NANOFILTRATION INTERSTAGE
NANOFILTRATION PERMEATE
ON CENTER
PLAIN END
PRESSURE VESSEL
SAMPLE LINE
STAINLESS STEEL
TOP OF
VANSTONE FLANGE

LEGEND:

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

PBCHD SUBMITTAL

NOT FOR CONSTRUCTION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524				
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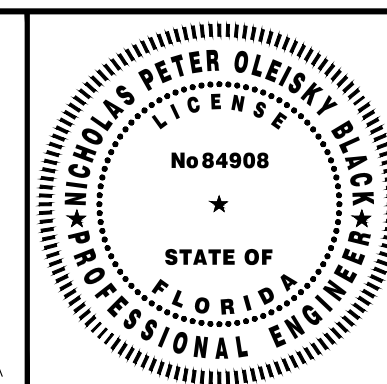
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PHONE: 561-845-0665 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 696

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



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SITE KEY MAP AND GENERAL NOTES

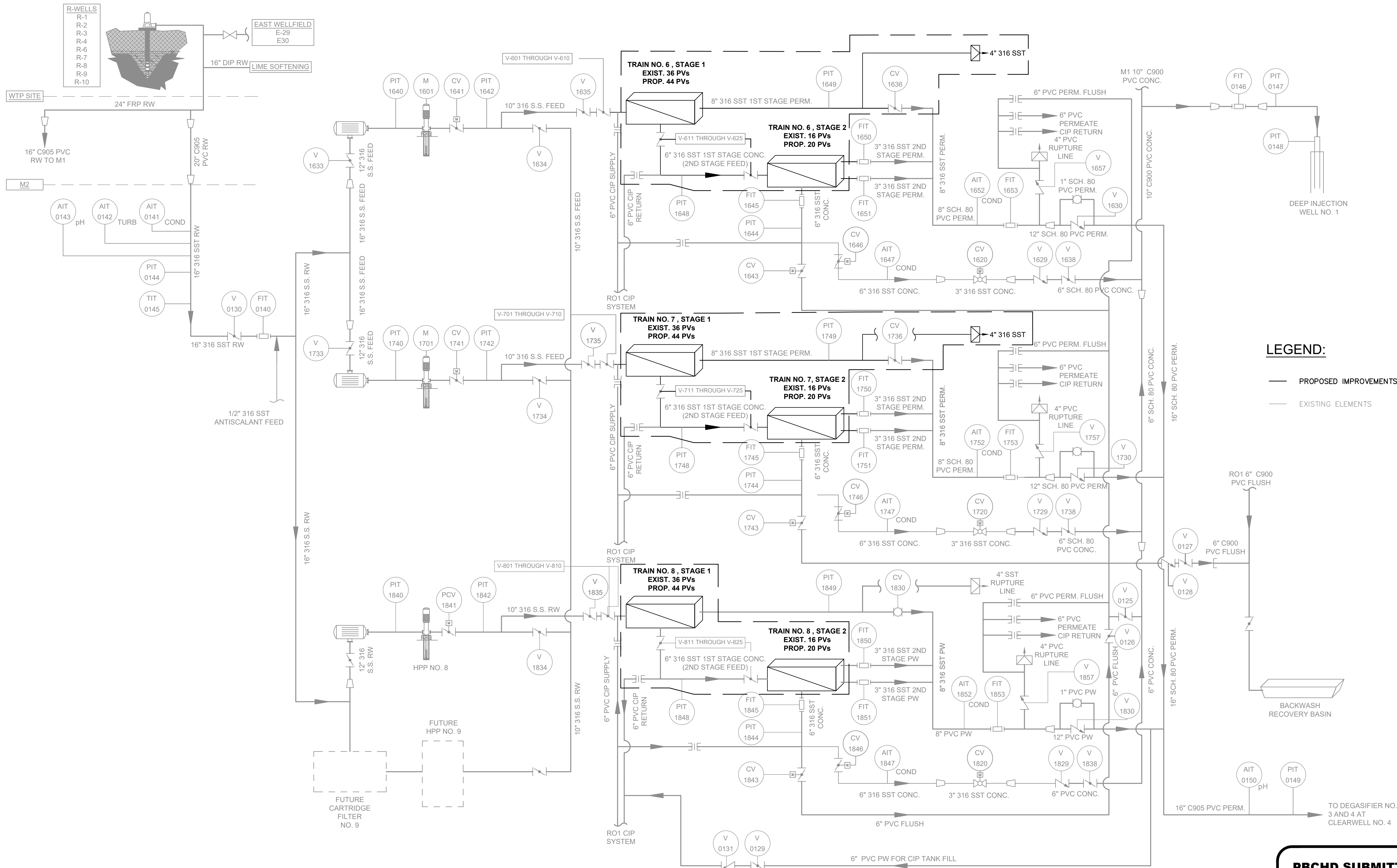
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M-2

2 OF 15

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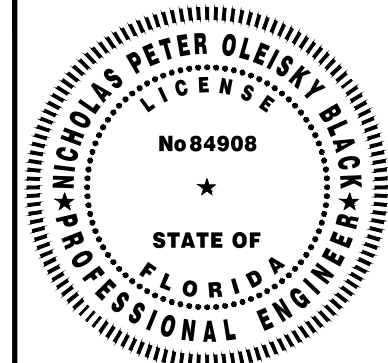
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PALM BEACH COUNTY

FLORIDA



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M2 PROCESS FLOW DIAGRAM

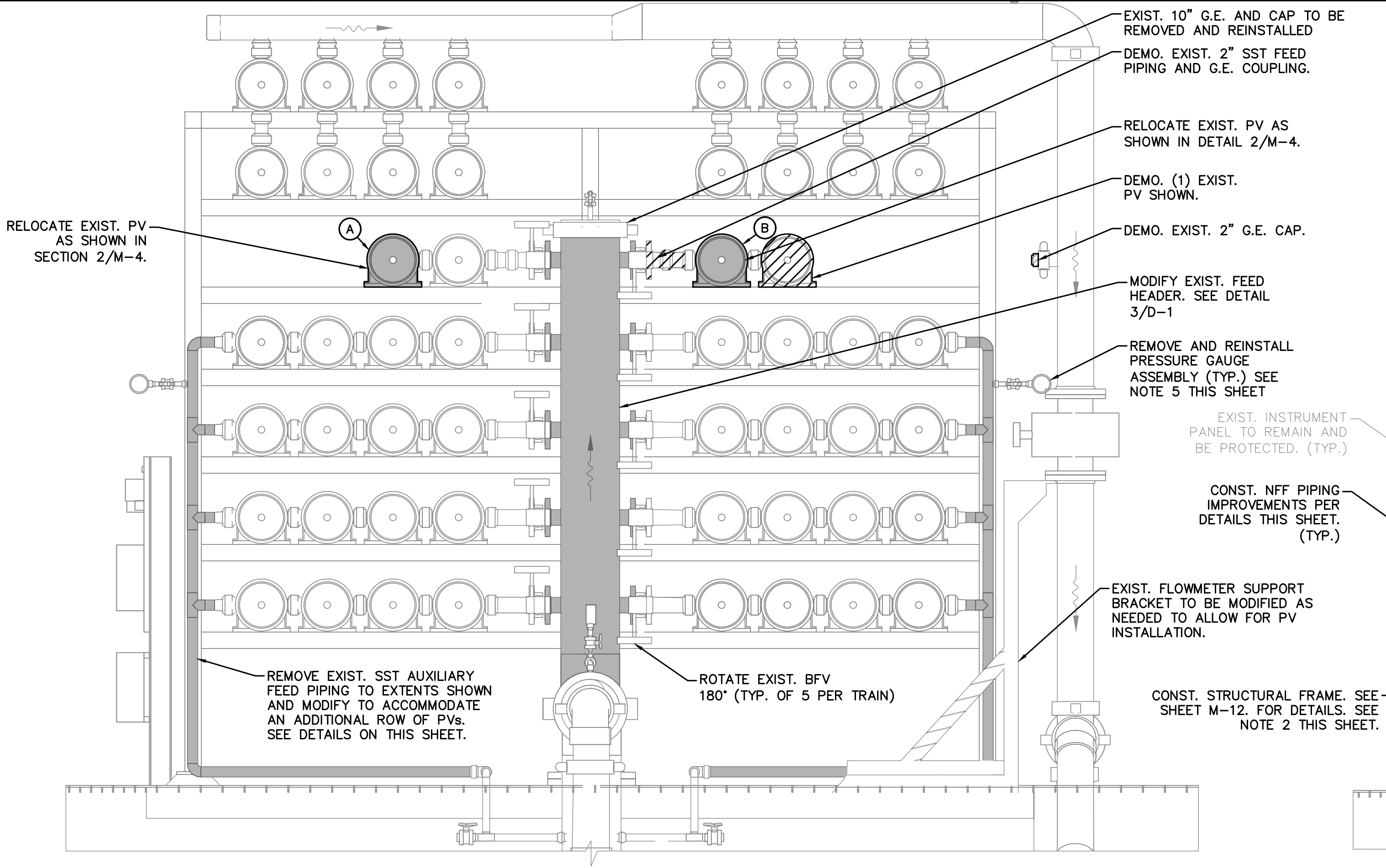
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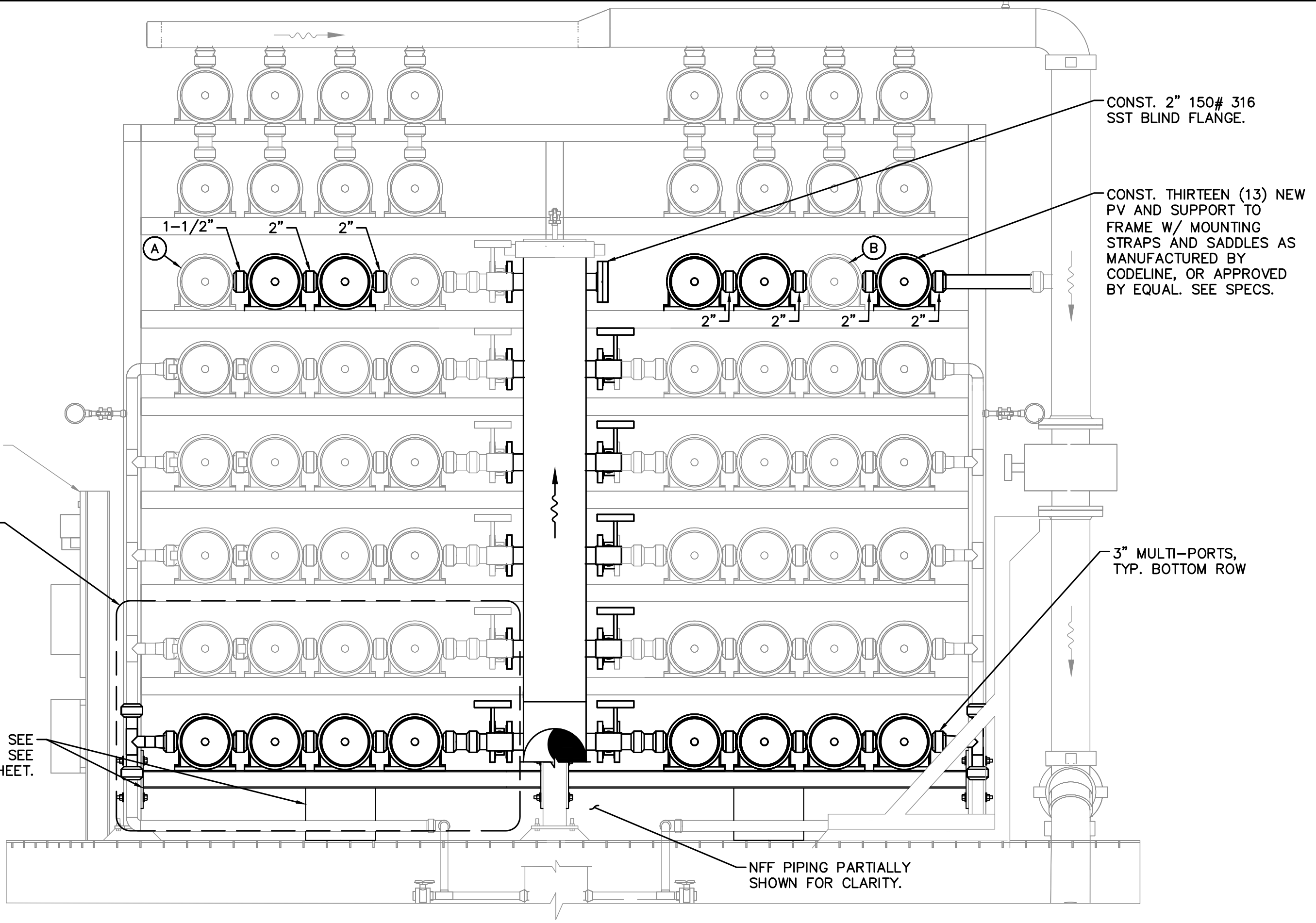
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3 OF 15

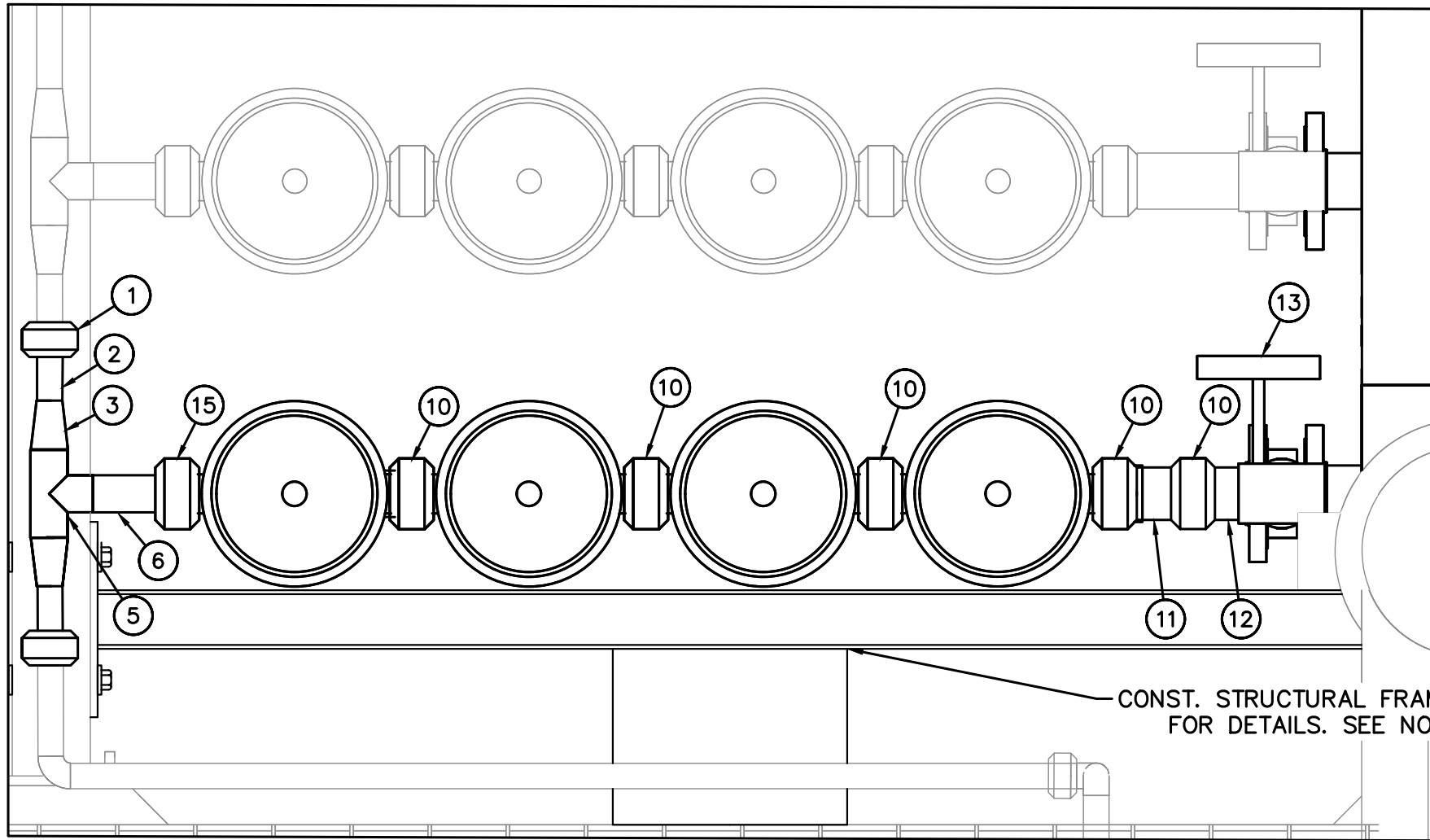
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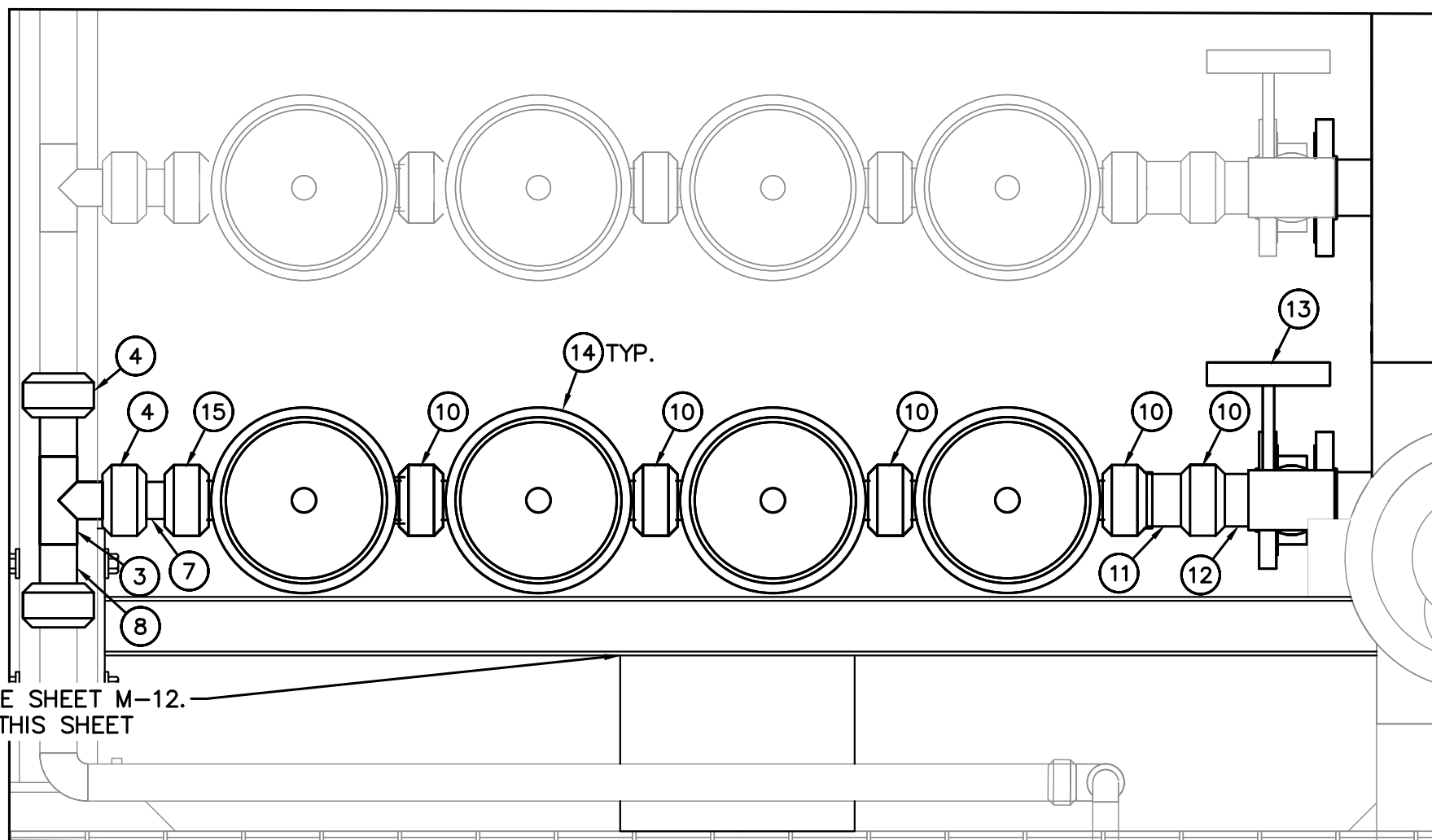
1
M-4
24x36 SHEET SIZE: $\frac{3}{4}" = 1'-0"$
11x17 SHEET SIZE: $\frac{3}{8}" = 1'-0"$
SCALE 0 1 2 FEET



2
M-4
24x36 SHEET SIZE: $\frac{3}{4}" = 1'-0"$
11x17 SHEET SIZE: $\frac{3}{8}" = 1'-0"$
SCALE 0 1 2 FEET



3
M-4
24x36 SHEET SIZE: $1\frac{1}{2}" = 1'-0"$
11x17 SHEET SIZE: $\frac{3}{4}" = 1'-0"$
SCALE 0 1/4 1/2 3/4 1 FEET



4
M-4
24x36 SHEET SIZE: $1\frac{1}{2}" = 1'-0"$
11x17 SHEET SIZE: $\frac{3}{4}" = 1'-0"$
SCALE 0 1/4 1/2 3/4 1 FEET

SHEET KEYNOTE LEGEND	
ITEM	DESCRIPTION
1	1" SCH. 10 316 SST GE COUPLING
2	1" SCH. 10 316 SST GEXPE 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:

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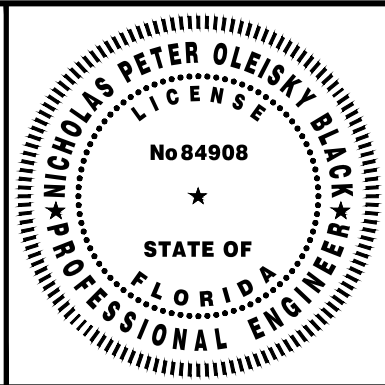
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KHA PROJECT
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**WTP MEMBRANE PLANT #2 (M2)
EXPANSION**
PREPARED FOR
VILLAGE OF WELLINGTON
PALM BEACH COUNTY FLORIDA



THIS ITEM HAS BEEN DIGITALLY SIGNED
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**TRAIN 6 & 7 EXPANSION NFF &
NFC SECTIONS**

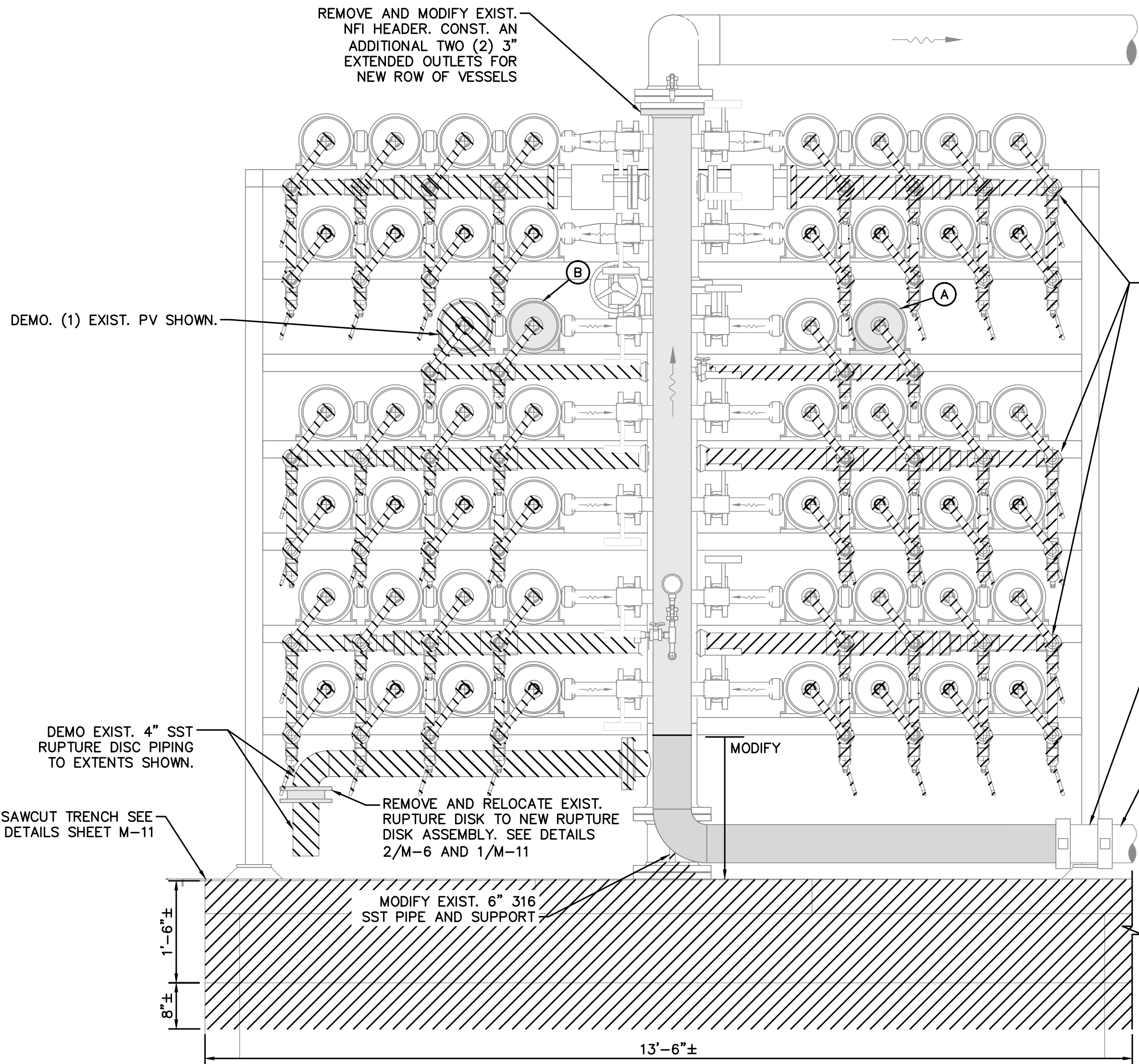
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SHEET NUMBER

M-4

4 OF 15

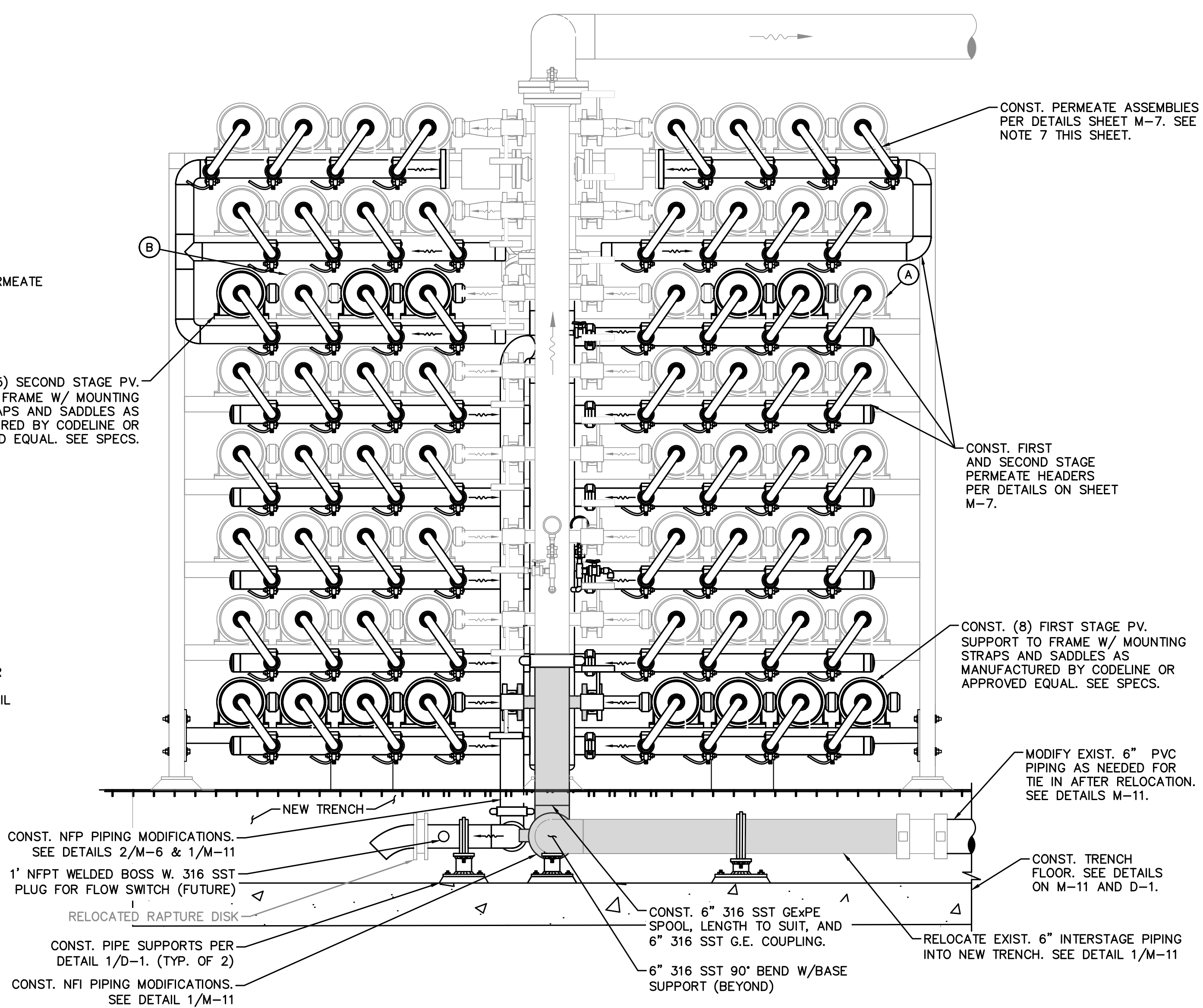
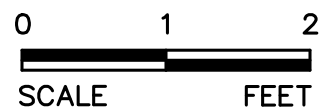
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1
M-5

EXIST. T6 36x16 ARRAY NFI SECTION

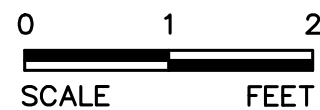
24x36 SHEET SIZE: $\frac{3}{4}$ " = 1'-0"
11x17 SHEET SIZE: $\frac{1}{8}$ " = 1'-0"



2
M-5

PROP. T6 44x20 ARRAY NFI SECTION

24x36 SHEET SIZE: $\frac{3}{4}$ " = 1'-0"
11x17 SHEET SIZE: $\frac{1}{8}$ " = 1'-0"



GENERAL NOTES:

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- 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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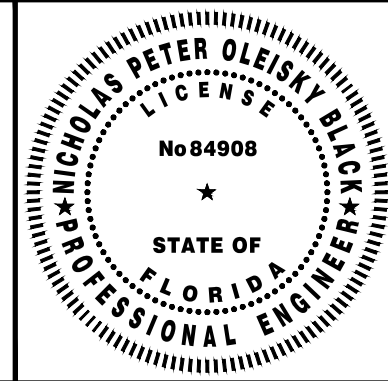
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CHECKED BY JEP

**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 EXPANSION NFI
SECTIONS**

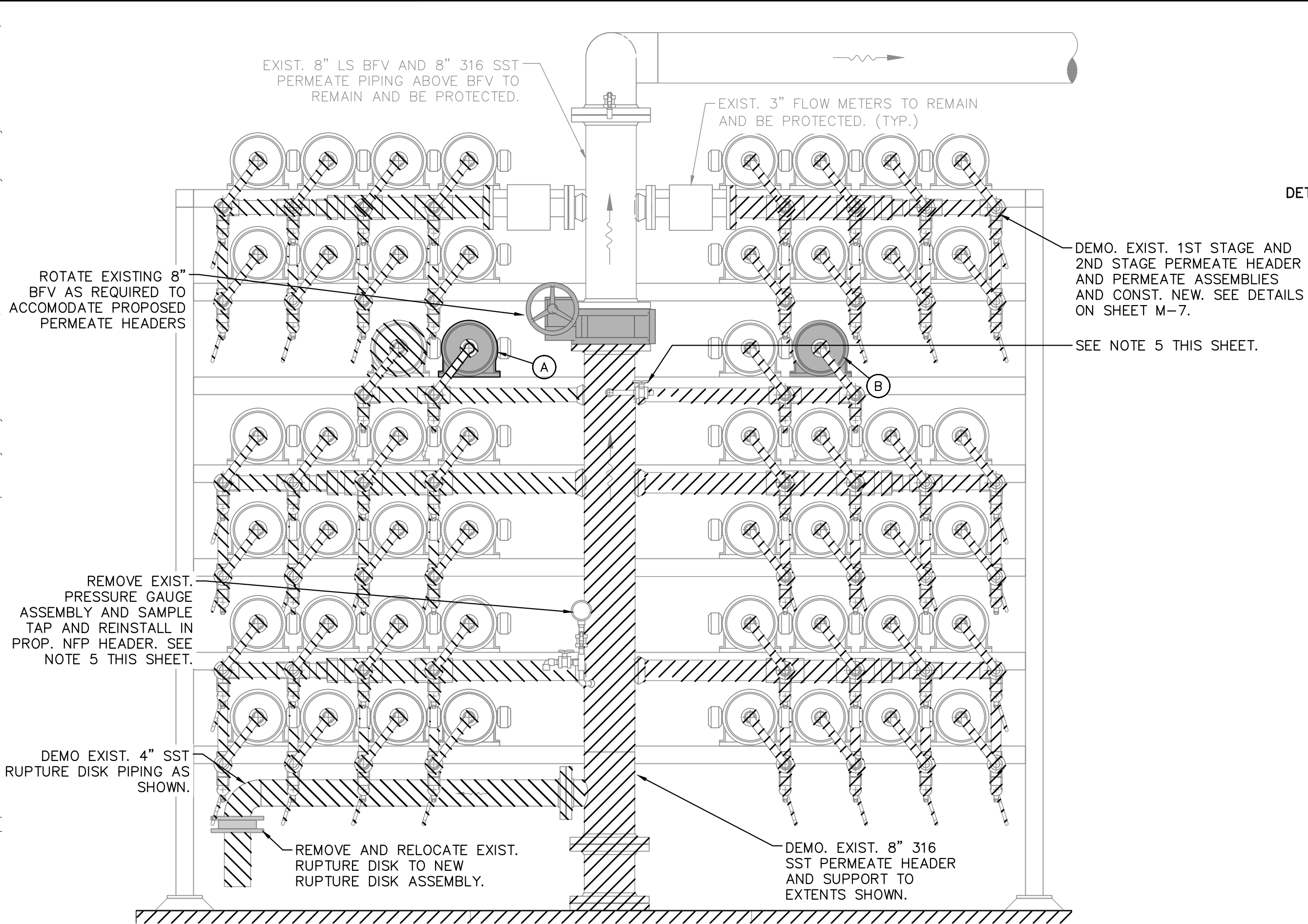
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SHEET NUMBER

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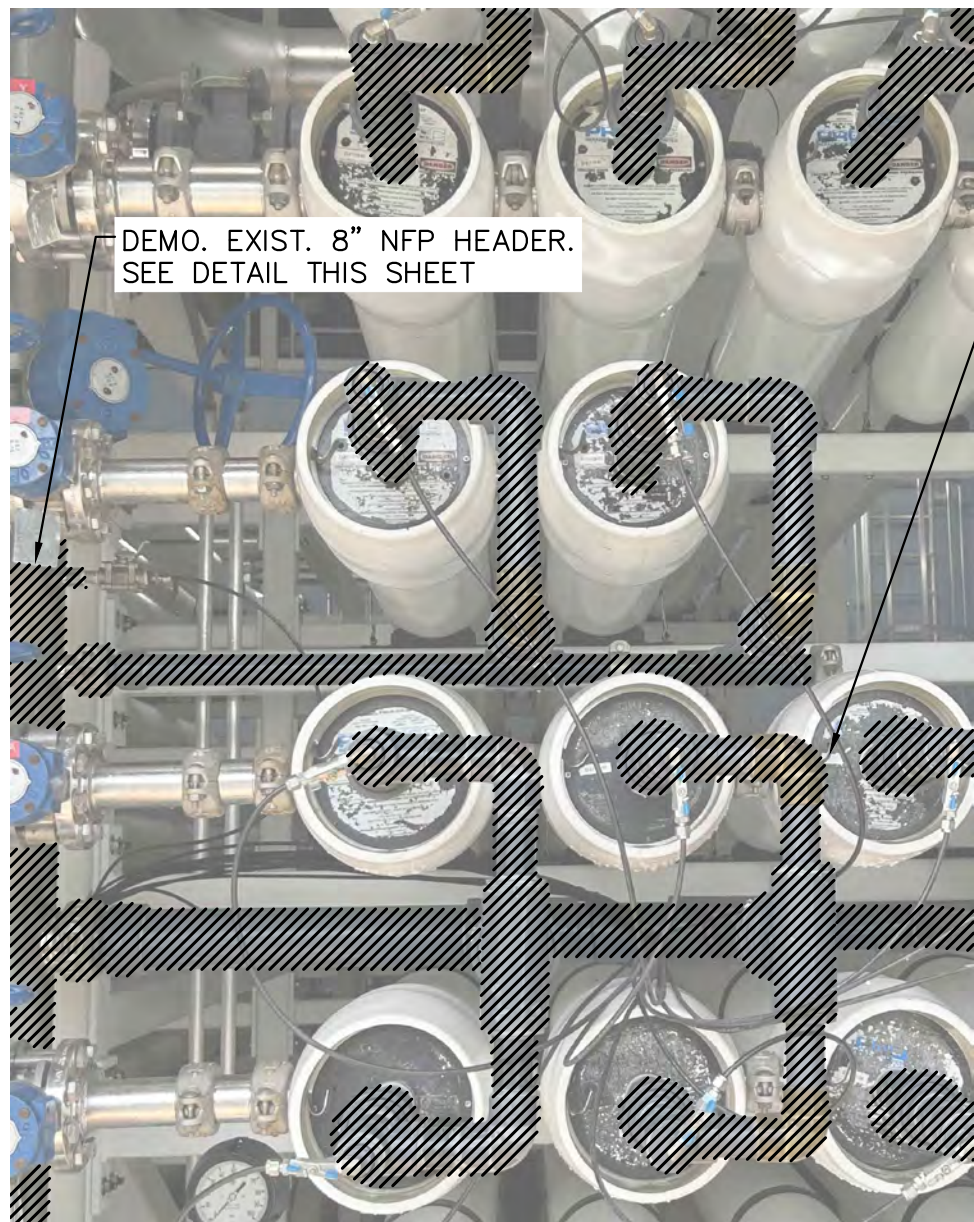


1
M-6

EXIST. T6 36x16 ARRAY NFP SECTION

24x36 SHEET SIZE: $\frac{3}{4}" = 1'-0"$
11x17 SHEET SIZE: $\frac{3}{8}" = 1'-0"$

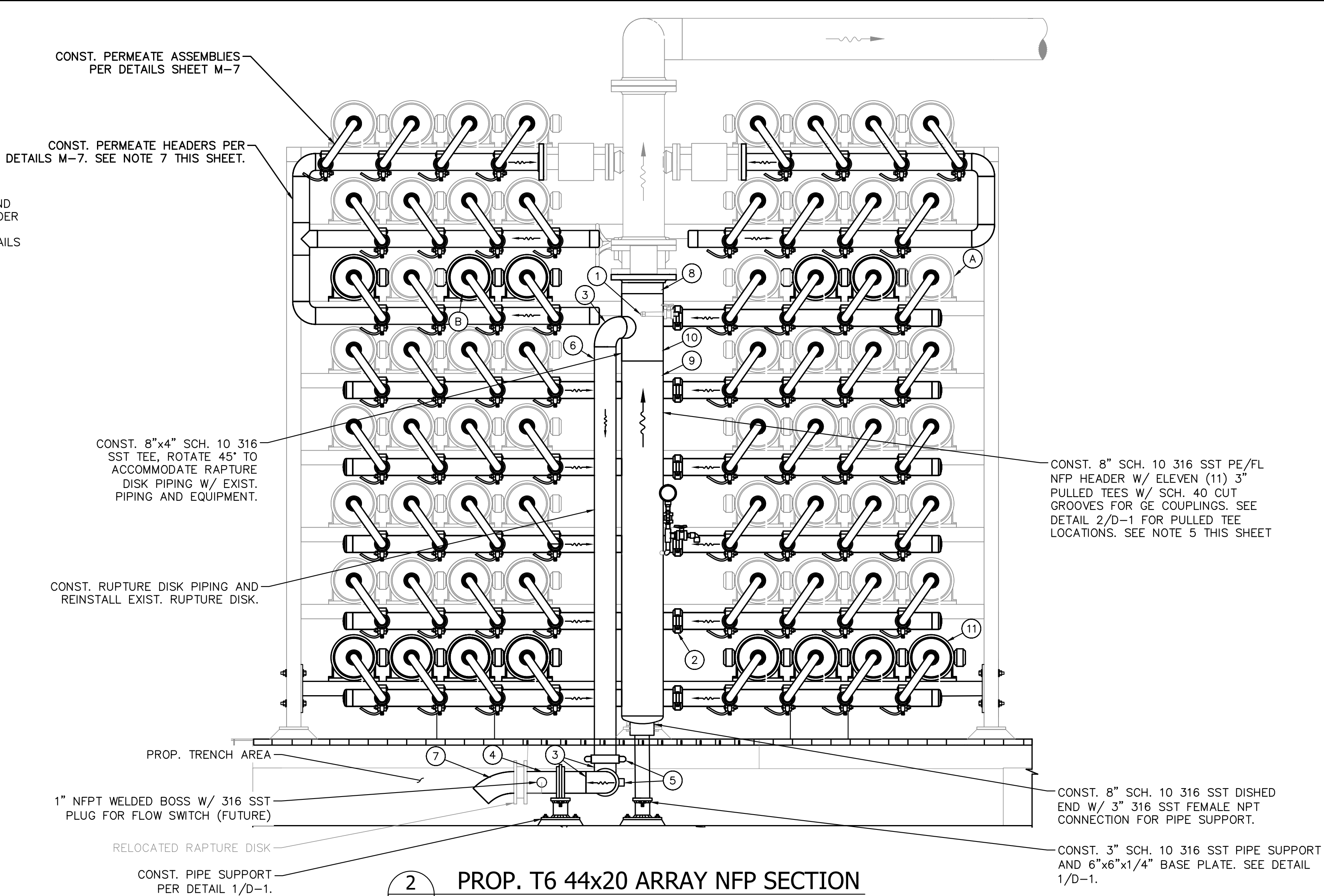
0 1 2
SCALE FEET



3
M-6

PHOTO DETAIL #1 - T6 NFP HEADER

Scale: N.T.S.



2
M-6

PROP. T6 44x20 ARRAY NFP SECTION

24x36 SHEET SIZE: $\frac{3}{4}" = 1'-0"$
11x17 SHEET SIZE: $\frac{3}{8}" = 1'-0"$

0 1 2
SCALE FEET

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:

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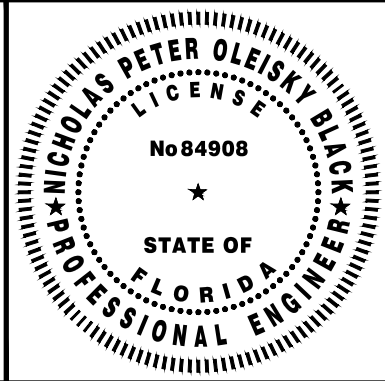
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**WTP MEMBRANE PLANT #2 (M2)
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PREPARED FOR
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PALM BEACH COUNTY FLORIDA



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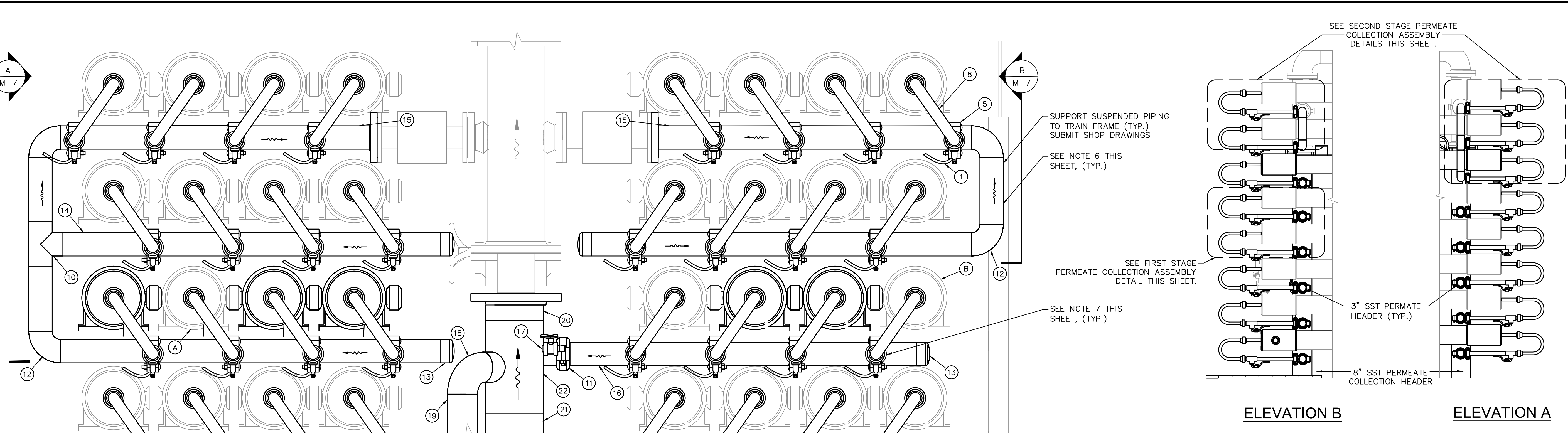
**TRAIN 6 EXPANSION NFP
SECTIONS**

ON THE DATE ADJACENT TO THE SEAL

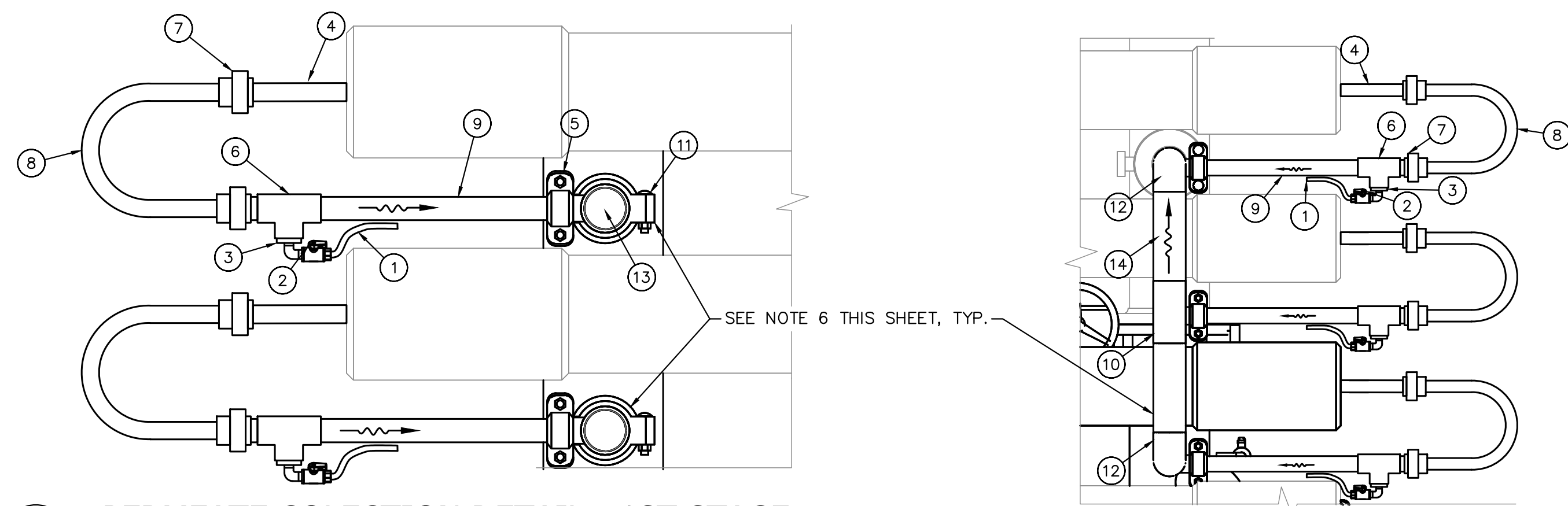
SHEET NUMBER

M-6


6 OF 15



1 M-7 TRAIN 6 AND 7 TYP. PERMEATE HEADER DETAIL 24x36 SHEET SIZE: $1\frac{1}{2}" = 1'-0"$ 11x17 SHEET SIZE: $\frac{3}{4}" = 1'-0"$ 0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 SCALE FEET



3 PERMEATE COLLECTION DETAIL - 1ST STAGE
 M-7
 24x36 SHEET SIZE: $1\frac{1}{2}" = 1'-0"$
 11x17 SHEET SIZE: $\frac{3}{8}" = 1'-0"$



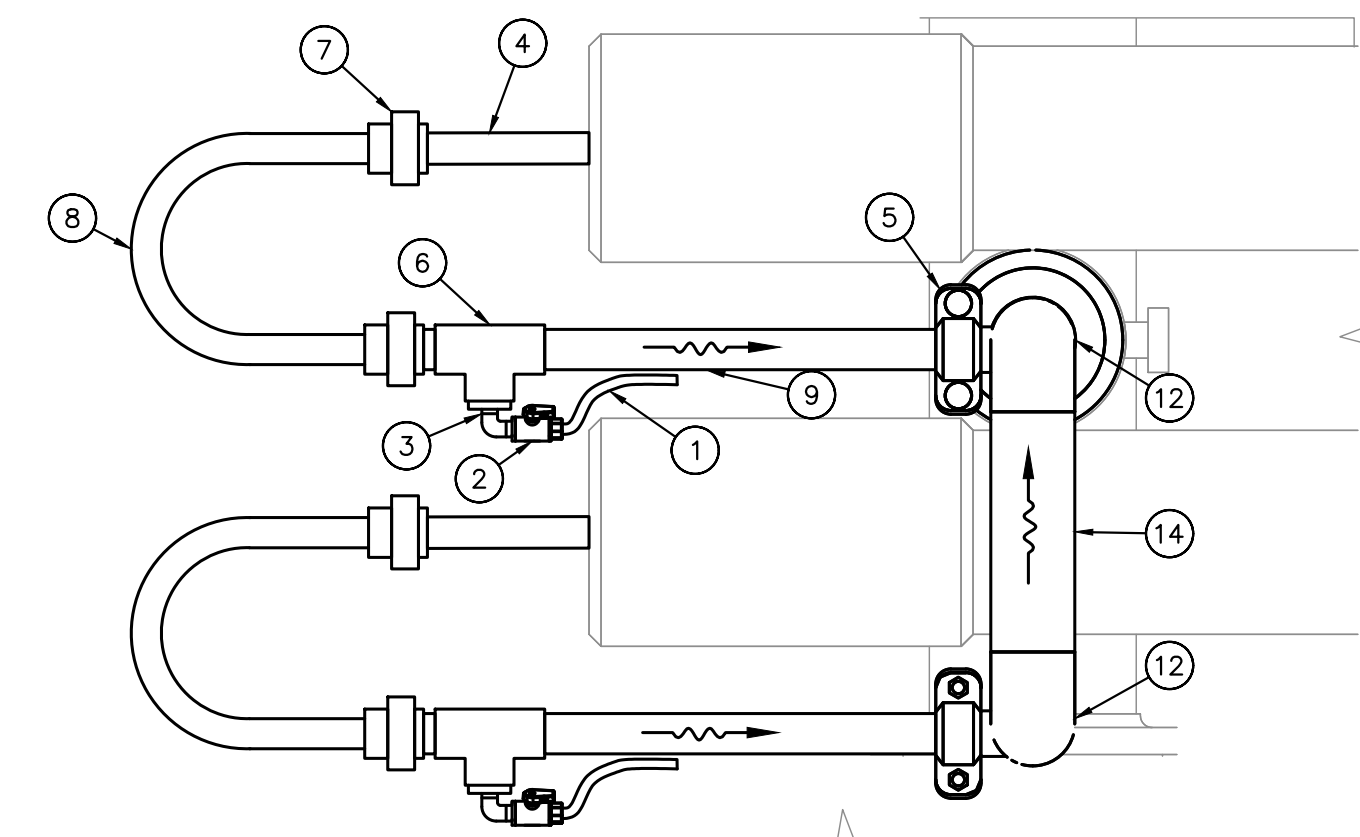
SCALE FEET

A **TYPICAL PERMEATE COLLECTION 2ND STAGE SECTION DETAIL**

M-7

24x36 SHEET SIZE: 1" = 1'-0"
11x17 SHEET SIZE: 1/2" = 1'-0"

0 1/2 1 1 1/2 2
SCALE FEET



B
M-7

PERMEATE COLLECTION DETAIL - 2ND STAGE

24x36 SHEET SIZE: $1\frac{1}{2}" = 1'-0"$
11x17 SHEET SIZE: $\frac{3}{8}" = 1'-0"$

0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1
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:

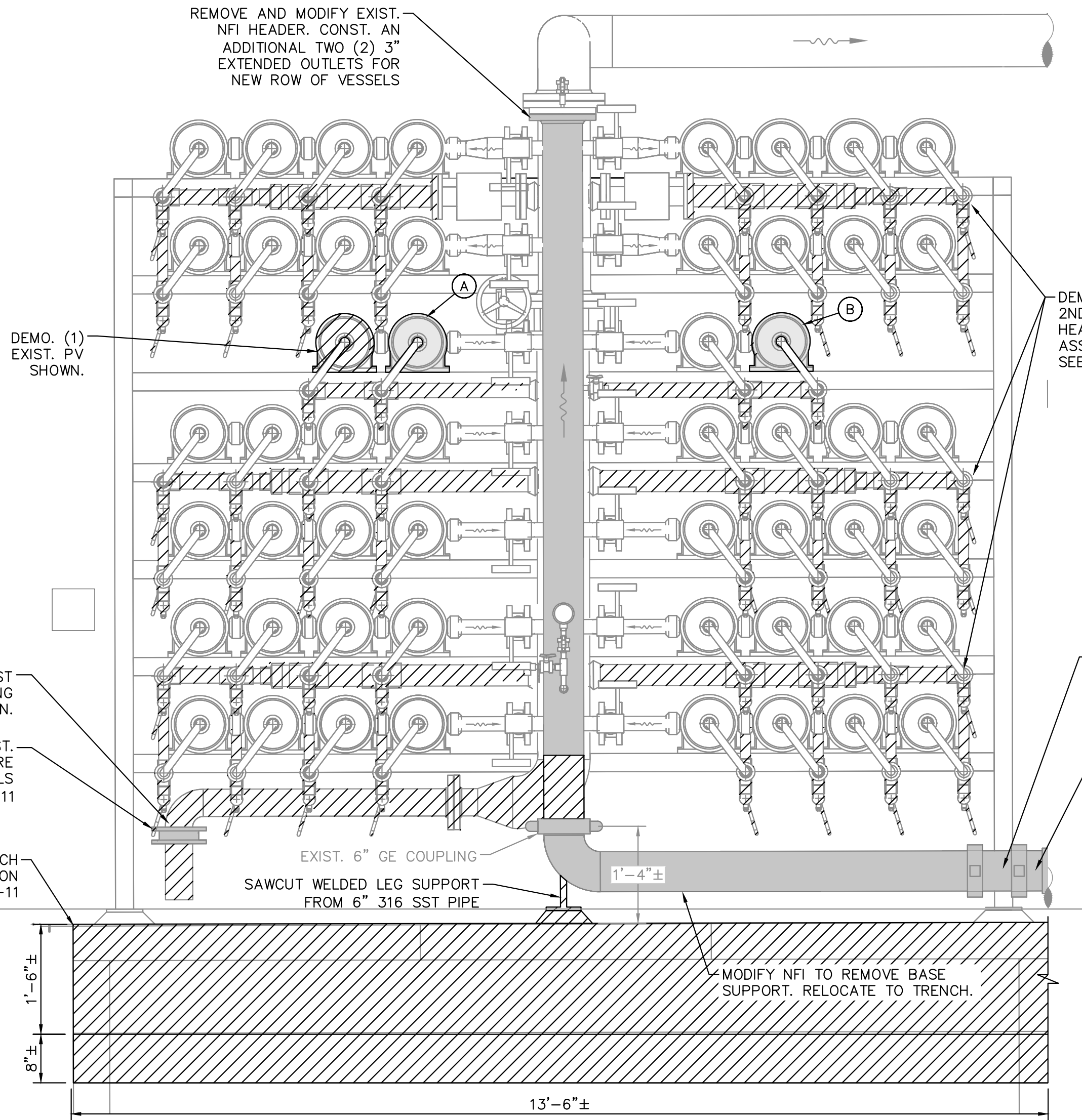
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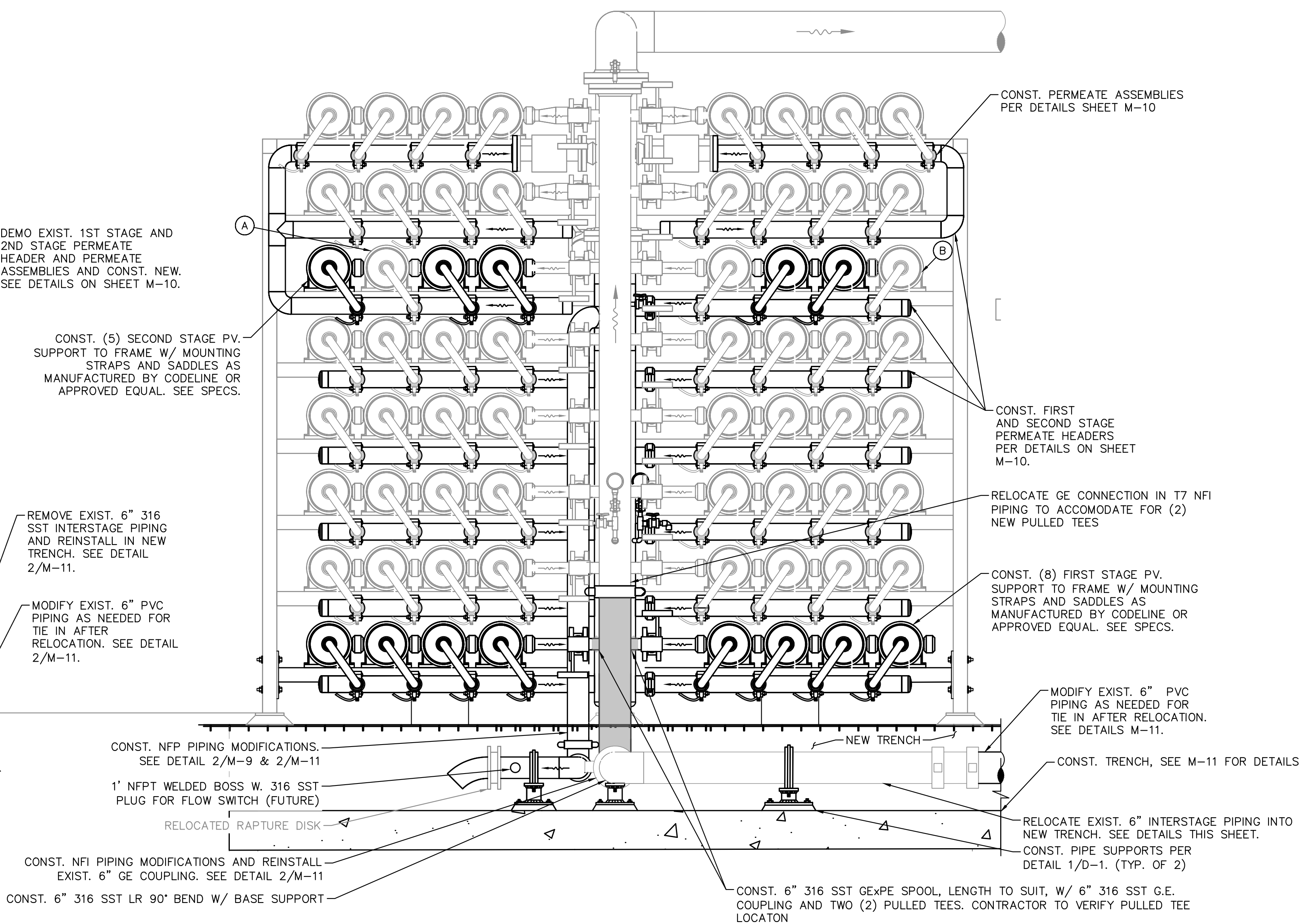
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1 EXIST. 36x16 ARRAY NFI SECTION (TYP.) 24x36 SHEET SIZE: 3/4" = 1'-0" 11x17 SHEET SIZE: 5/8" = 1'-0" SCALE FEET



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

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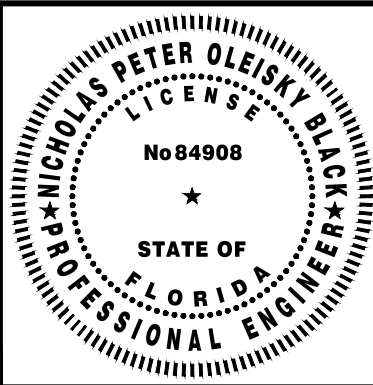
No.	REVISIONS	DATE	BY

Kimley»Horn

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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

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



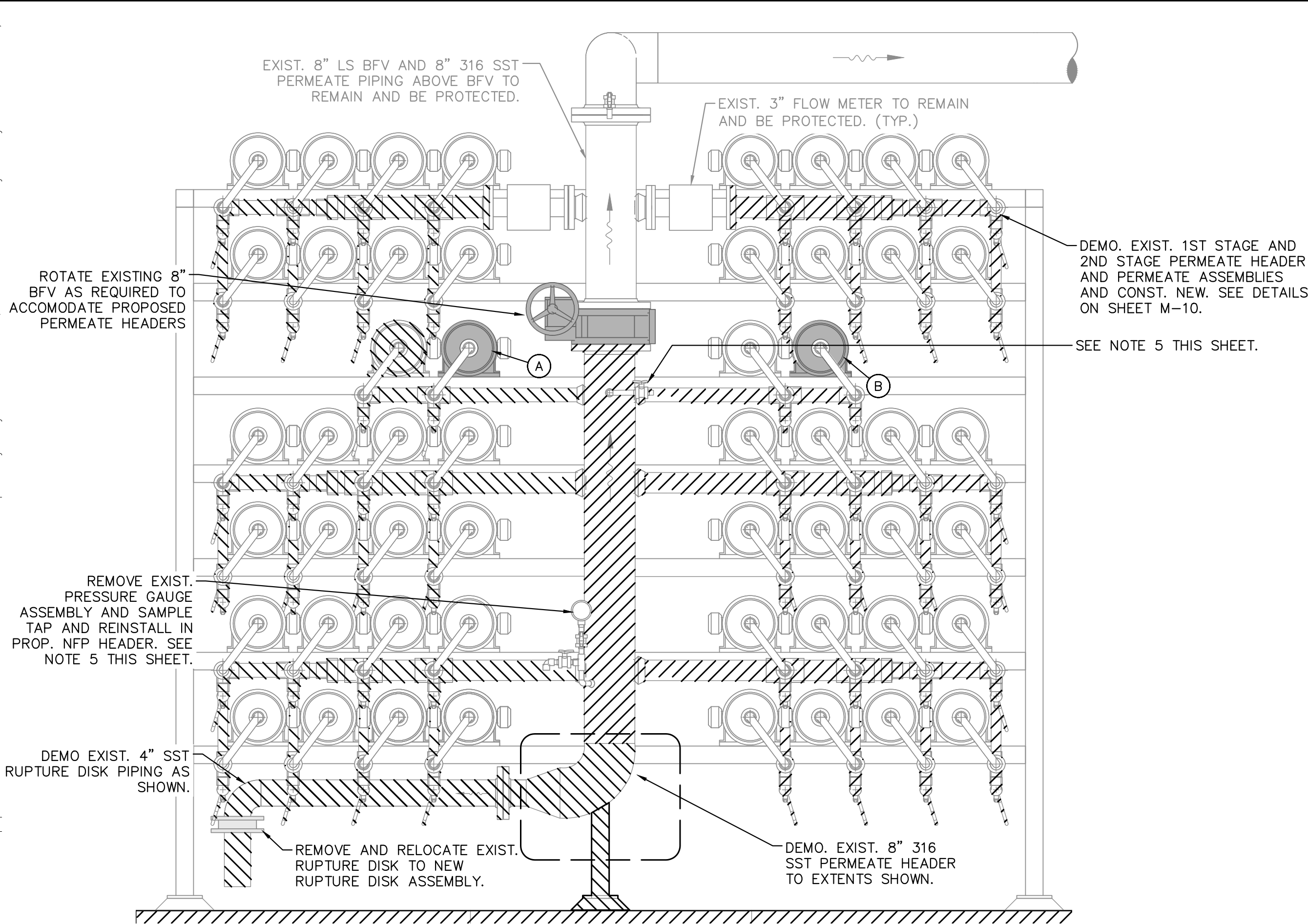
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TRAN 7 EXPANSION NFI SECTIONS

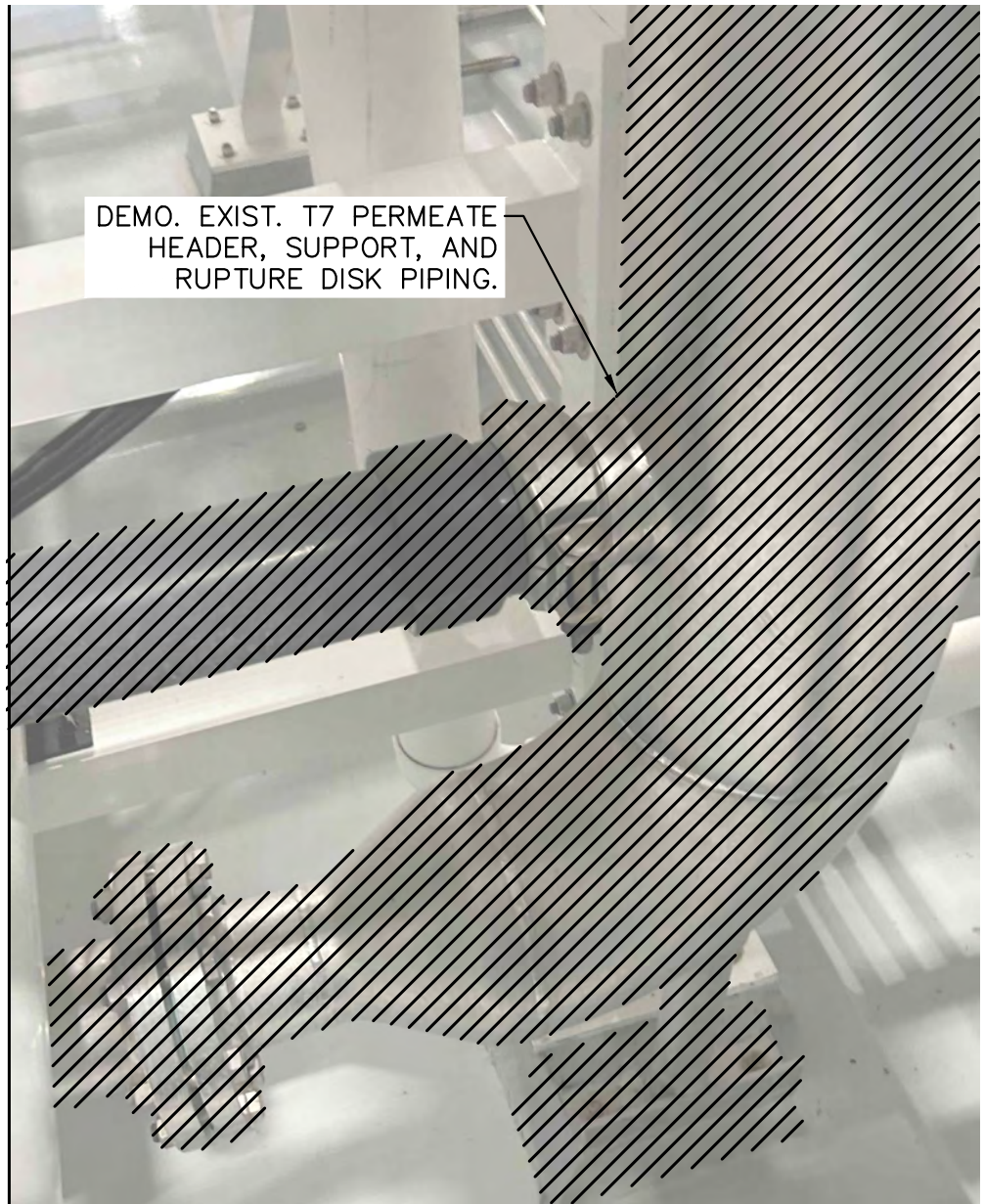
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SHEET NUMBER
M-8
8 OF 15

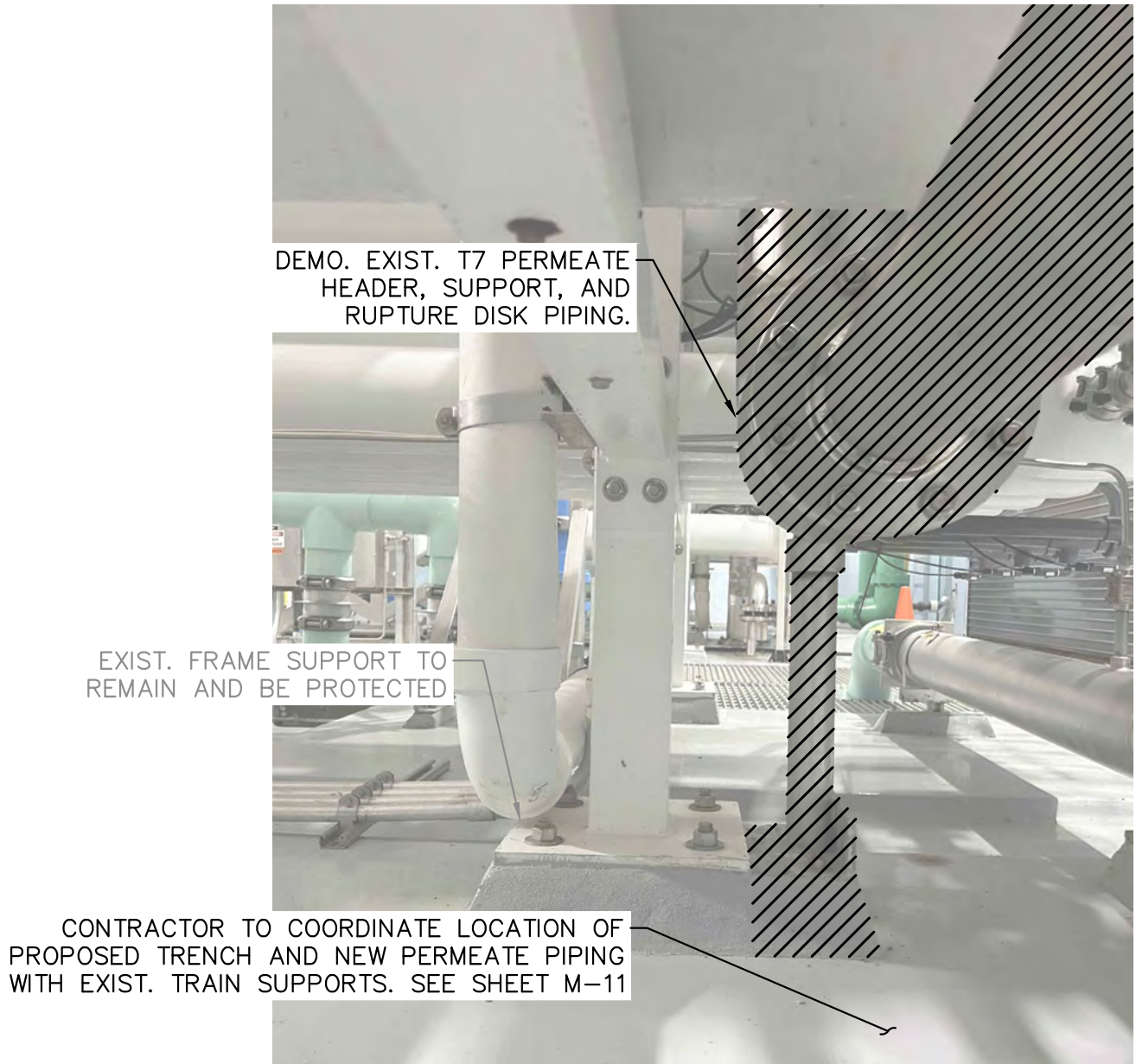
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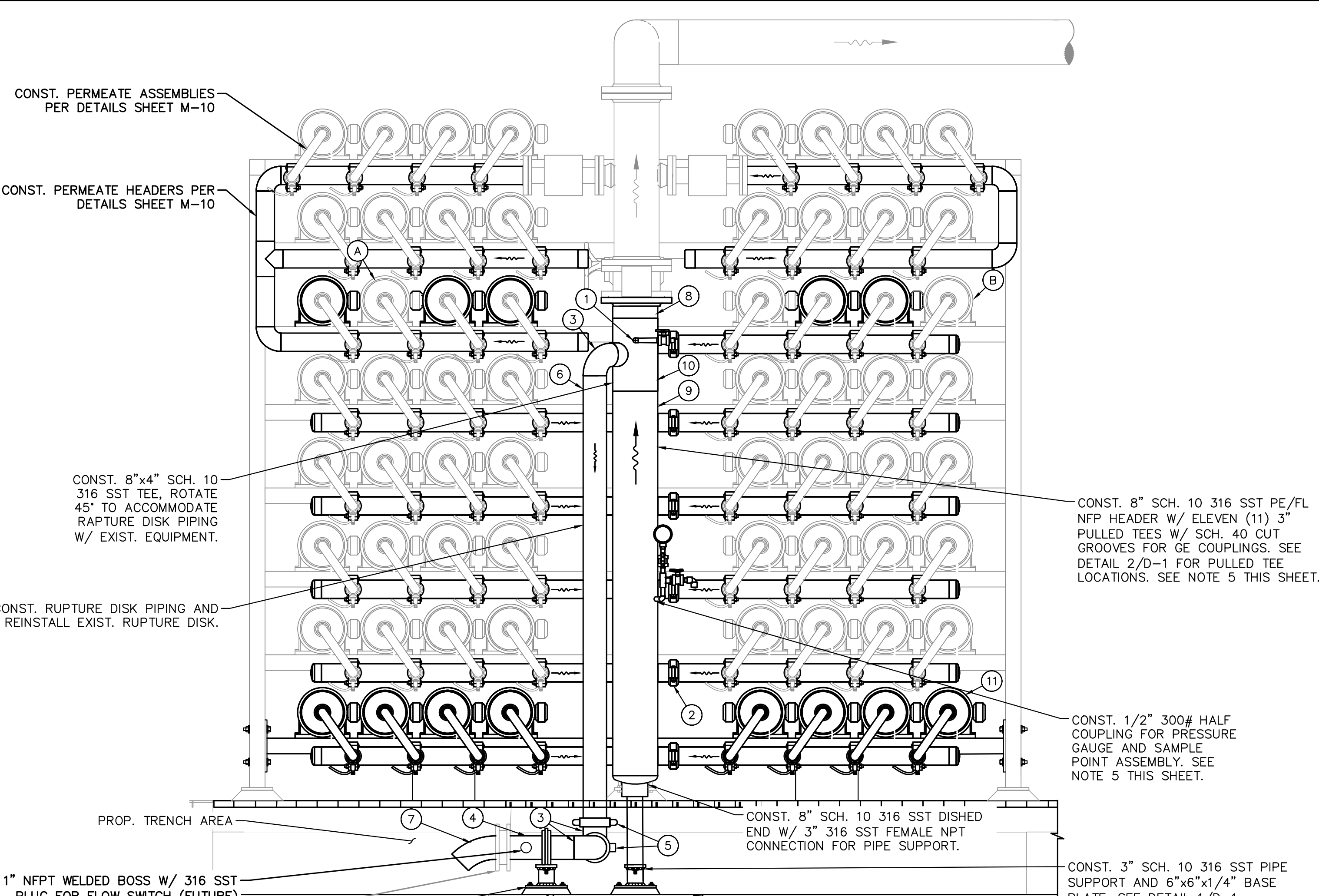
1
M-9
EXIST. 36x16 ARRAY NFP SECTION (TYP.)
24x36 SHEET SIZE: $\frac{3}{4}$ " = 1'-0"
11x17 SHEET SIZE: $\frac{9}{8}$ " = 1'-0"
0 1 2
SCALE FEET



3
M-9
PHOTO DETAIL #2 - T7 NFP SUPPORT
Scale: N.T.S.



4
M-9
PHOTO DETAIL #3 - T7 NFP SUPPORT
Scale: N.T.S.



2
M-9
PROP. 44x20 ARRAY NFP SECTION (TYP.)
24x36 SHEET SIZE: $\frac{3}{4}$ " = 1'-0"
11x17 SHEET SIZE: $\frac{9}{8}$ " = 1'-0"
0 1 2
SCALE FEET

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:

- 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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CHECKED BY JEP

**WTP MEMBRANE PLANT #2 (M2)
EXPANSION**
PREPARED FOR
VILLAGE OF WELLINGTON

PALM BEACH COUNTY

FLORIDA



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**TRAIN 7 EXPANSION NFP
SECTIONS**

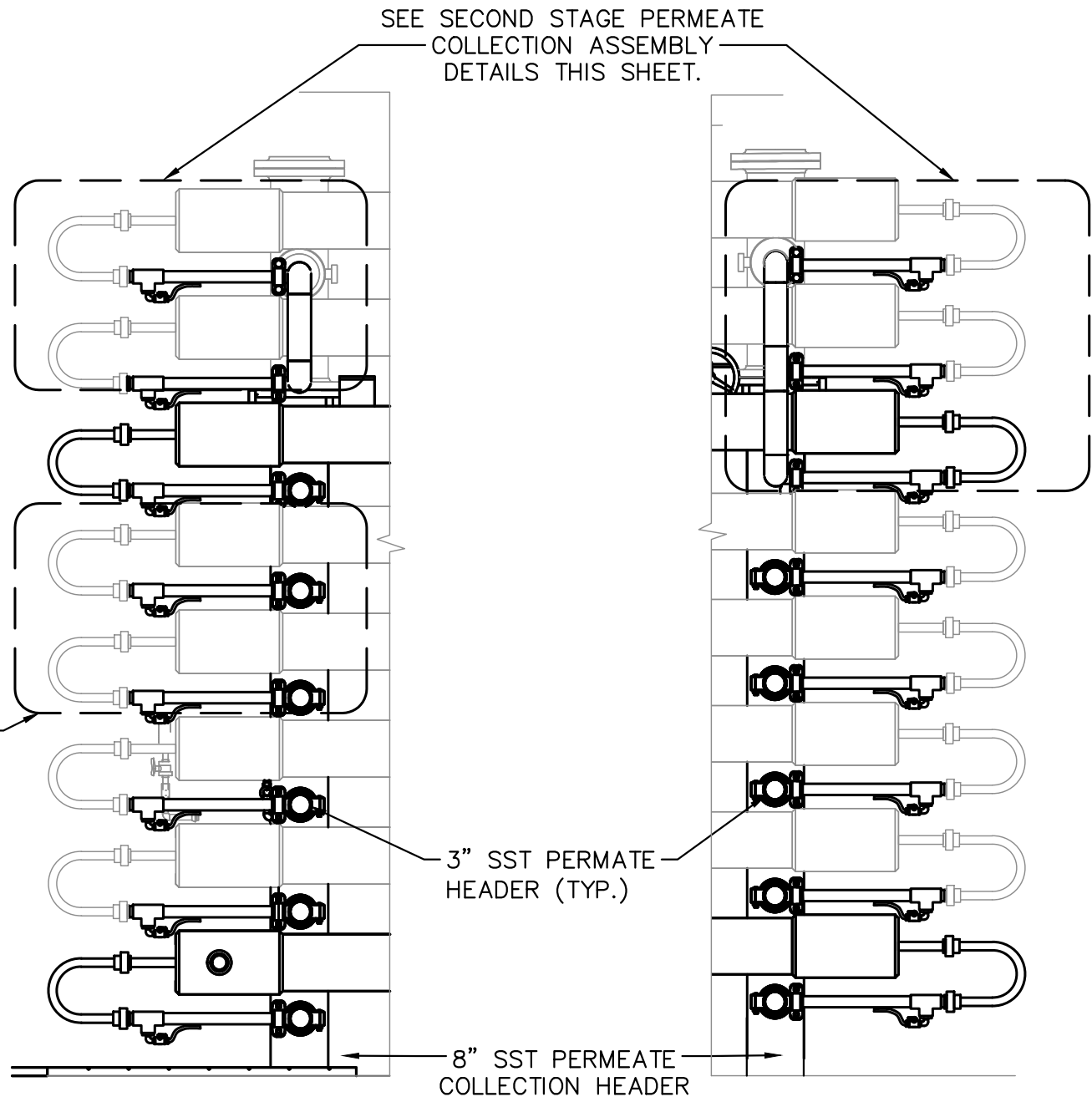
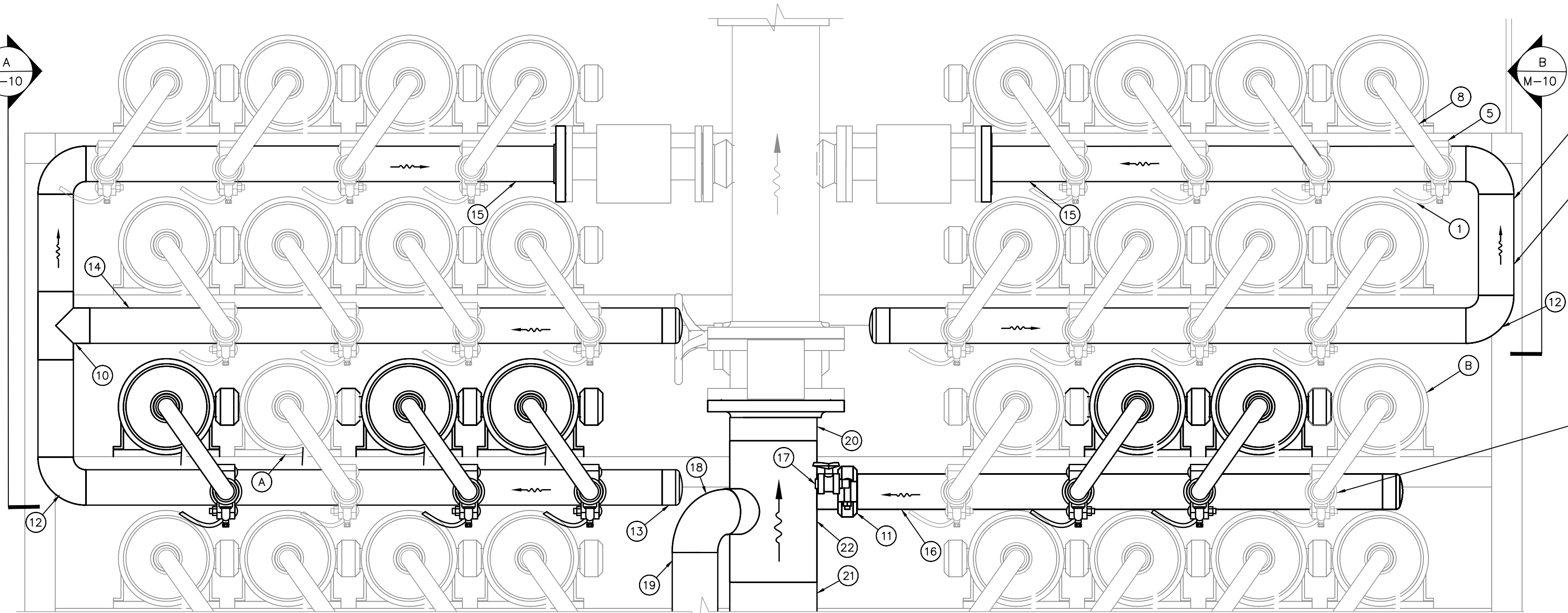
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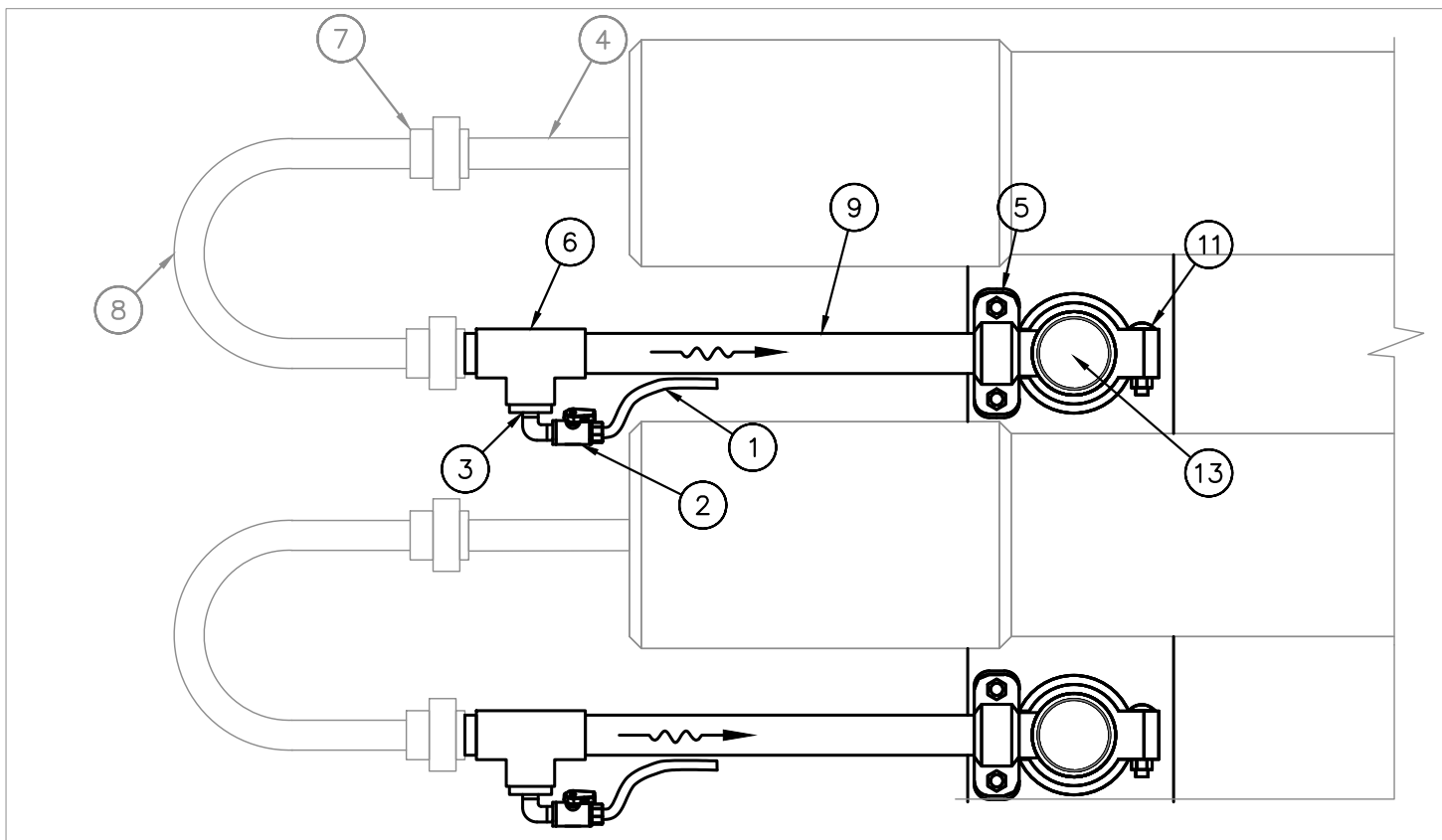
9 OF 15

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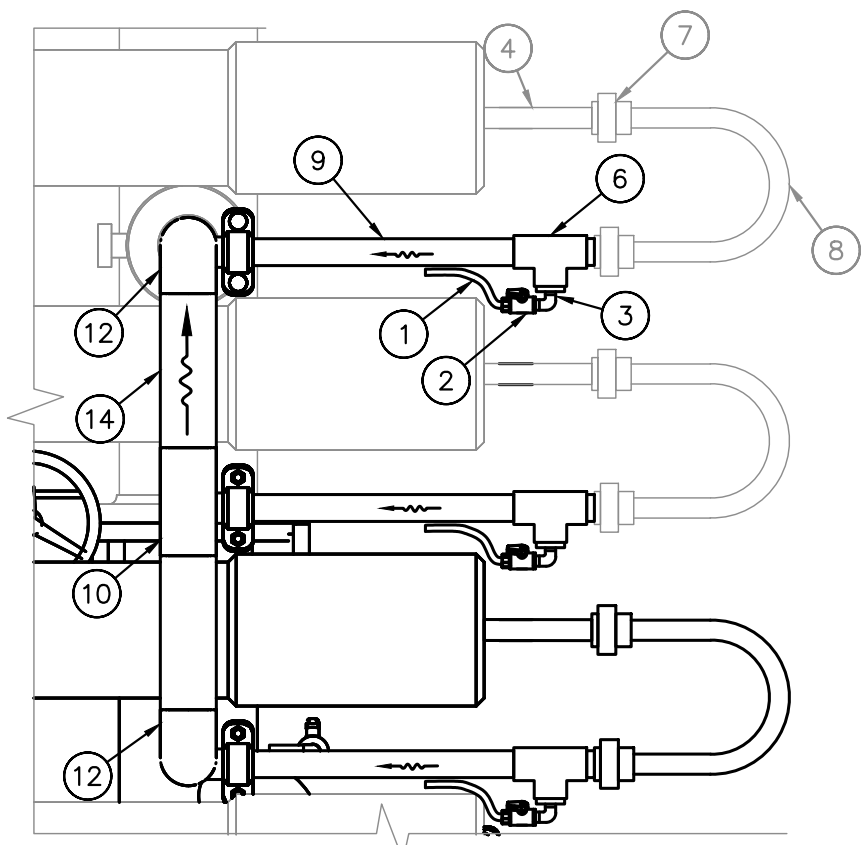


1
M-10
TRAIN 7 PERMEATE HEADER DETAIL
24x36 SHEET SIZE: 1 1/2" = 1'-0"
11x17 SHEET SIZE: 3/4" = 1'-0"
SCALE FEET

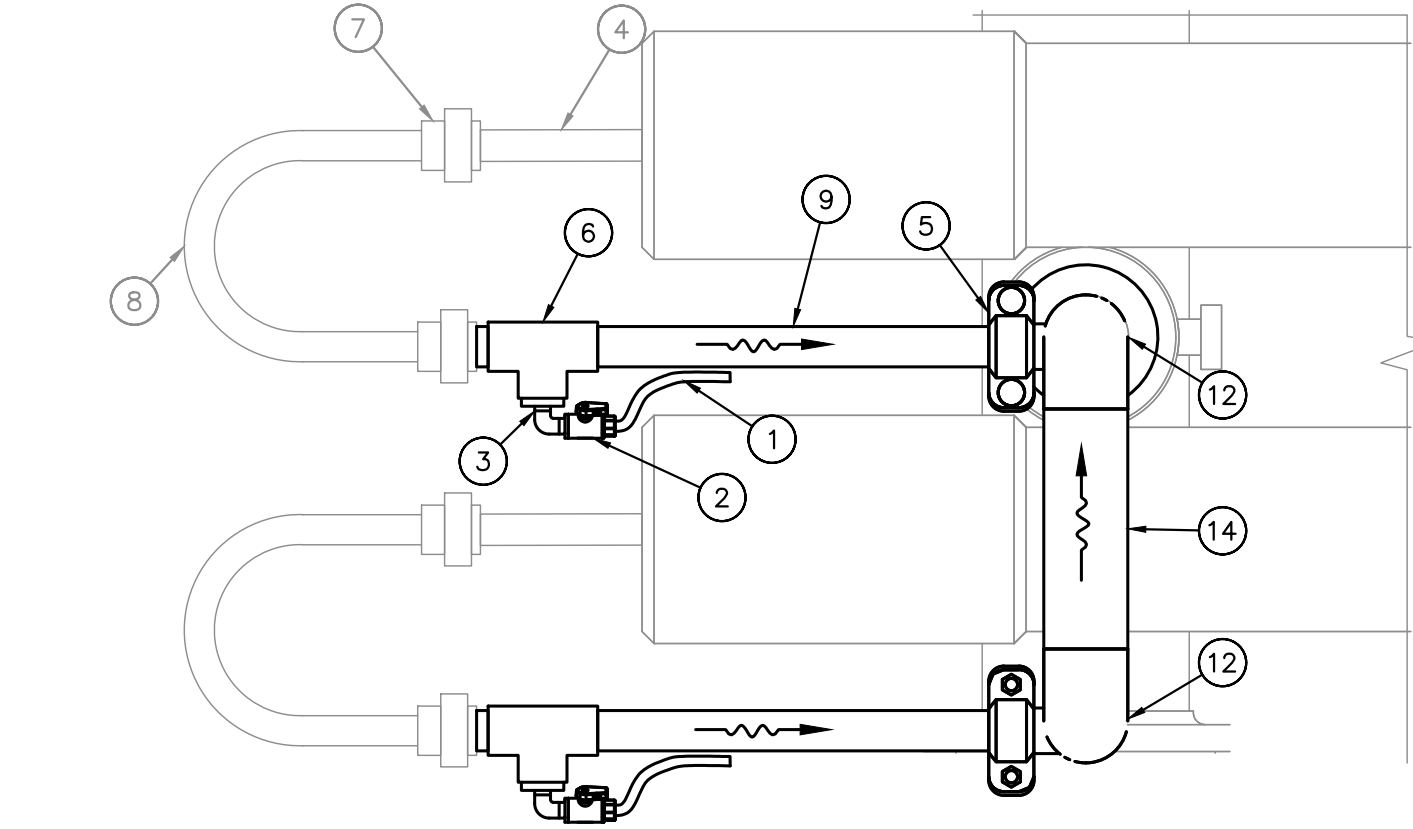
2
M-10
T7 PERMEATE COLLECTION SIDE DETAIL
24x36 SHEET SIZE: 3/4" = 1'-0"
11x17 SHEET SIZE: 8" = 1'-0"
SCALE FEET



3
M-10
T7 PERMEATE COLLECTION DETAIL - 1ST STAGE
24x36 SHEET SIZE: 1 1/2" = 1'-0"
11x17 SHEET SIZE: 3/4" = 1'-0"
SCALE FEET



A
M-10
T7 PERMEATE COLLECTION DETAIL 2ND STAGE
24x36 SHEET SIZE: 1" = 1'-0"
11x17 SHEET SIZE: 1/2" = 1'-0"
SCALE FEET



B
M-10
T7 PERMEATE COLLECTION DETAIL - 2ND STAGE
24x36 SHEET SIZE: 1 1/2" = 1'-0"
11x17 SHEET SIZE: 3/4" = 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.
- 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.

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

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WWW.KIMLEY-HORN.COM REGISTRY NO. 696

KHA PROJECT
144957082

DATE
NOV 2024

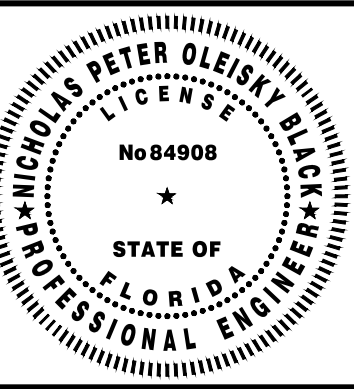
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DESIGNED BY NPOB

DRAWN BY AH

CHECKED BY JEP

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



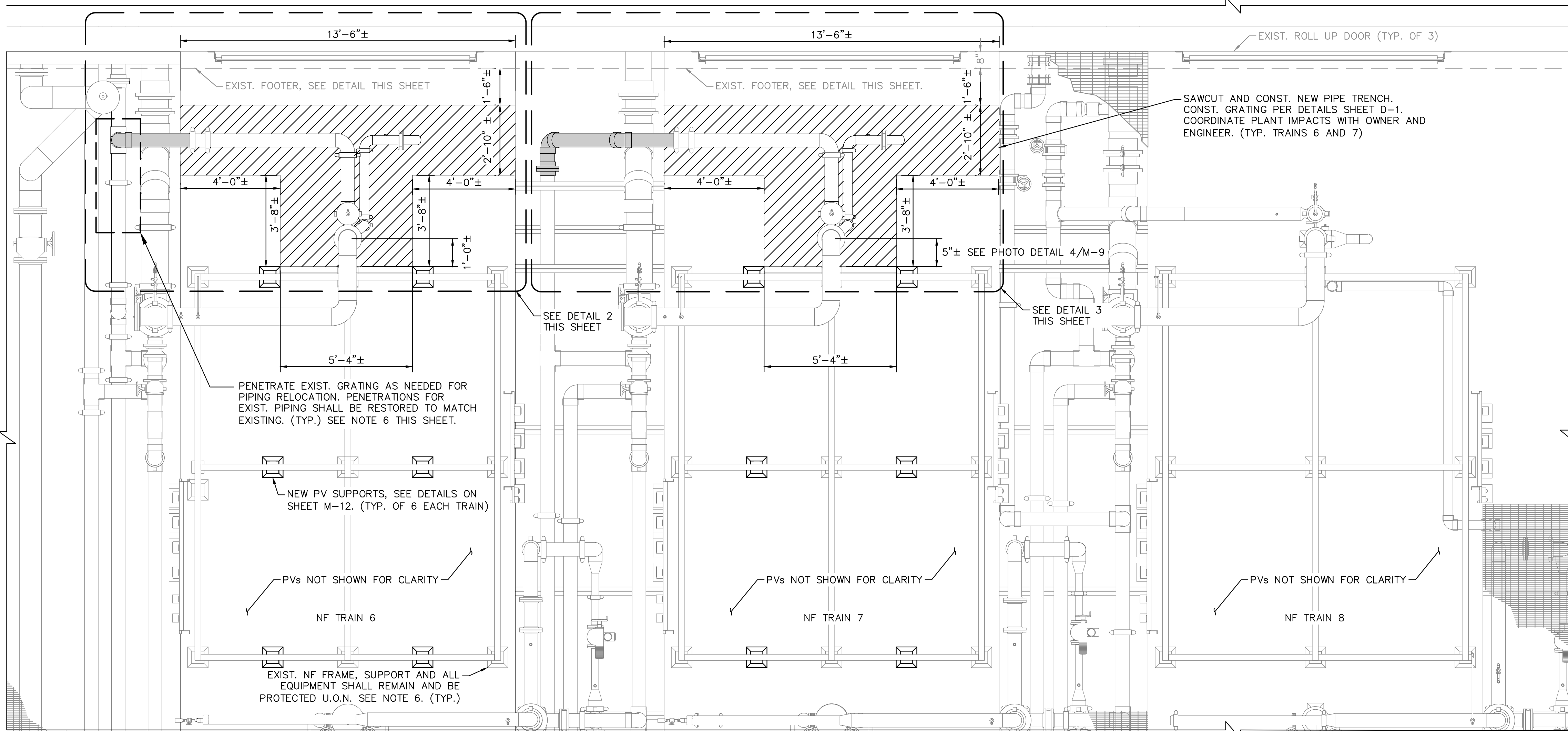
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TRAIN 7 NFP DETAILS

ON THE DATE ADJACENT TO THE SEAL.

SHEET NUMBER
M-10
10 OF 15

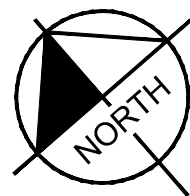
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PROCESS ROOM TRENCH PLAN

24x36 SHEET SIZE: $\frac{3}{8}$ " = 1'-0"
11x17 SHEET SIZE: $\frac{1}{16}$ " = 1'-0"

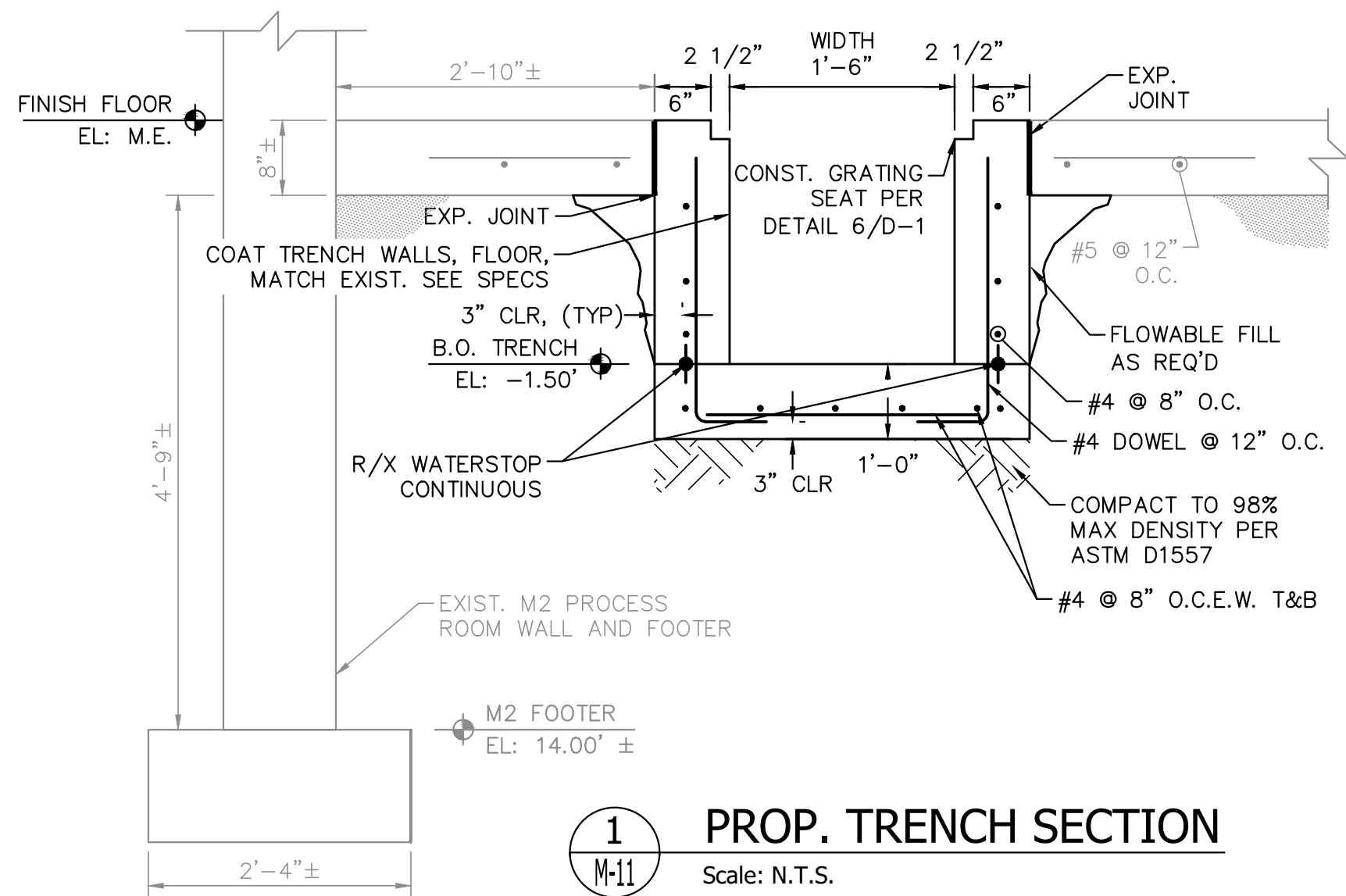
0 1 2 3 4
SCALE FEET



GENERAL NOTES:

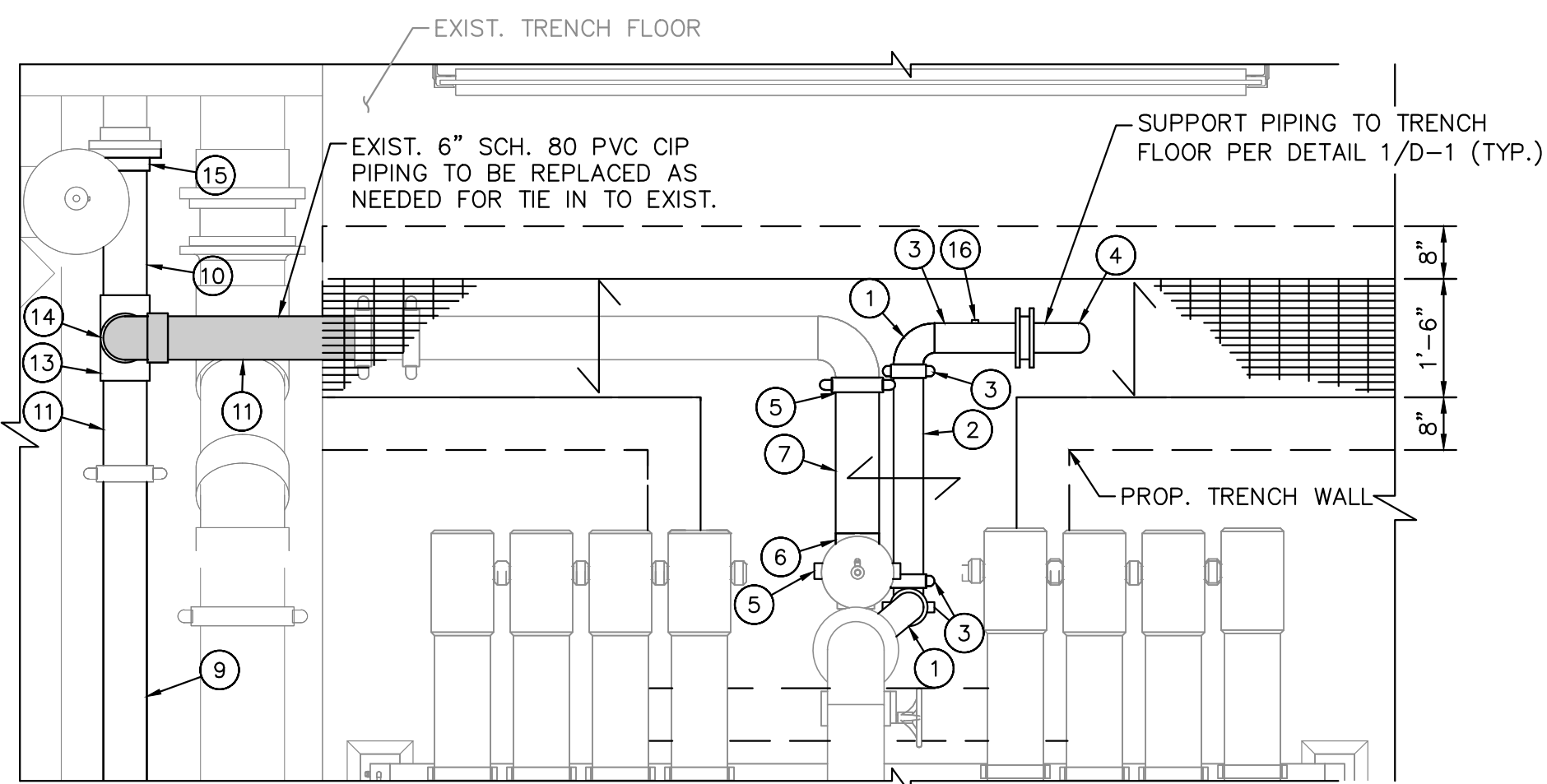
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- CONTRACTOR SHALL VERIFY EXIST. LOCATION OF SAMPLE LINES AND TAPS. FOR ALL PIPING THAT IS TO BE REPLACED, CONTRACTOR SHALL INCLUDE CONNECTIONS FOR SAMPLE TUBING.
- ALUMINUM BAR GRATING SHALL BE FULLY BANDED AT PERIMETER & PENETRATIONS.

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

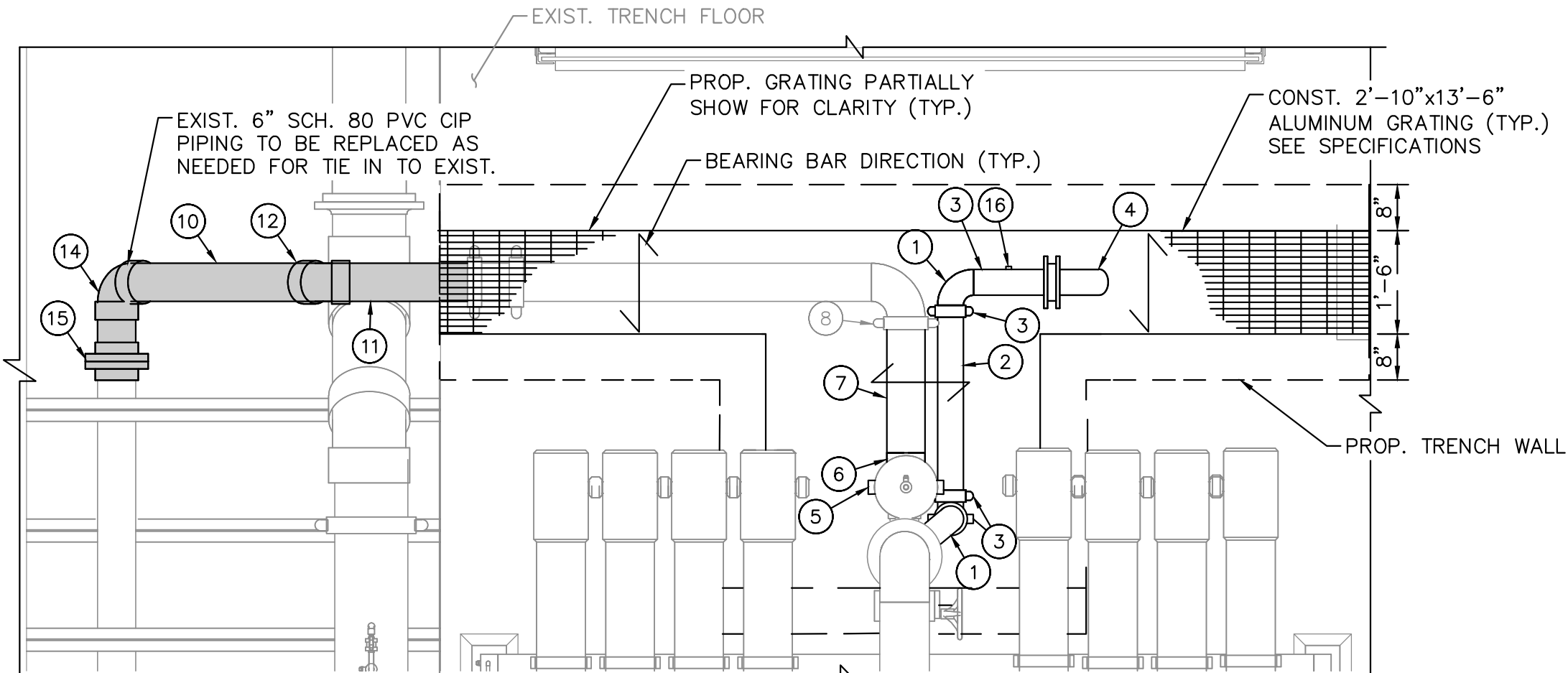
Scale: N.T.S.



2 PROP. TRAIN 6 TRENCH AND PIPING RELOCATION PLAN

24x36 SHEET SIZE: $\frac{3}{8}$ " = 1'-0"
11x17 SHEET SIZE: $\frac{1}{16}$ " = 1'-0"

0 1 2 3
SCALE FEET



3 PROP. TRAIN 7 TRENCH AND PIPING RELOCATION PLAN

24x36 SHEET SIZE: $\frac{3}{8}$ " = 1'-0"
11x17 SHEET SIZE: $\frac{1}{16}$ " = 1'-0"

0 1 2 3
SCALE FEET

PBCHD SUBMITTAL

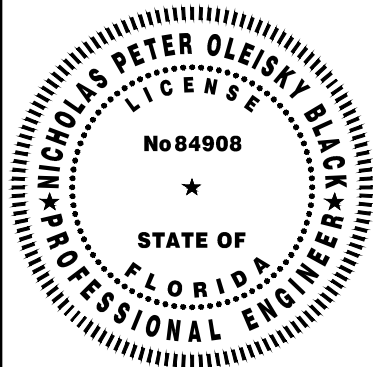
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DRAWN BY AH
CHECKED BY JER

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



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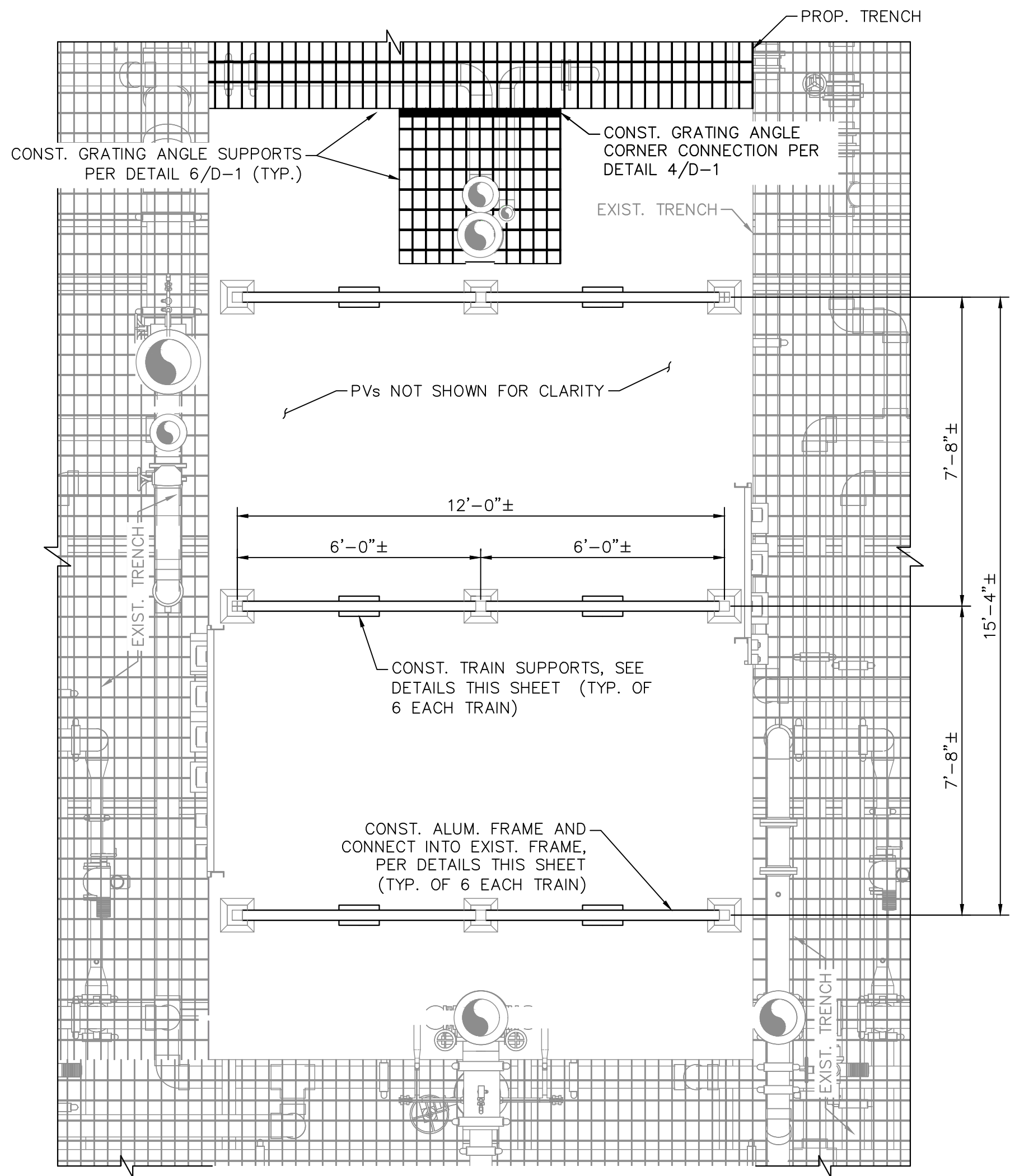
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AND DETAILS

SHEET NUMBER

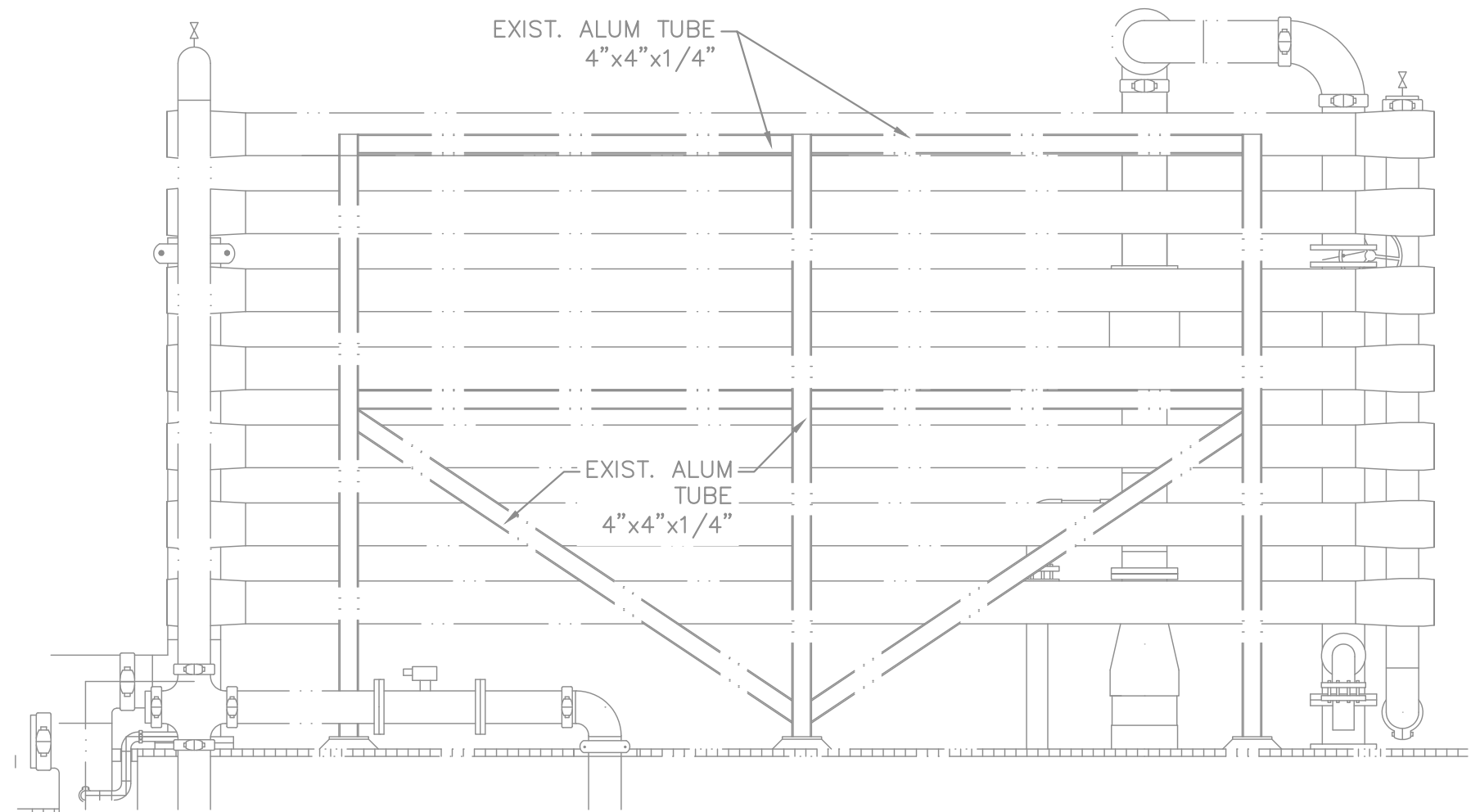
M-11

11 OF 15

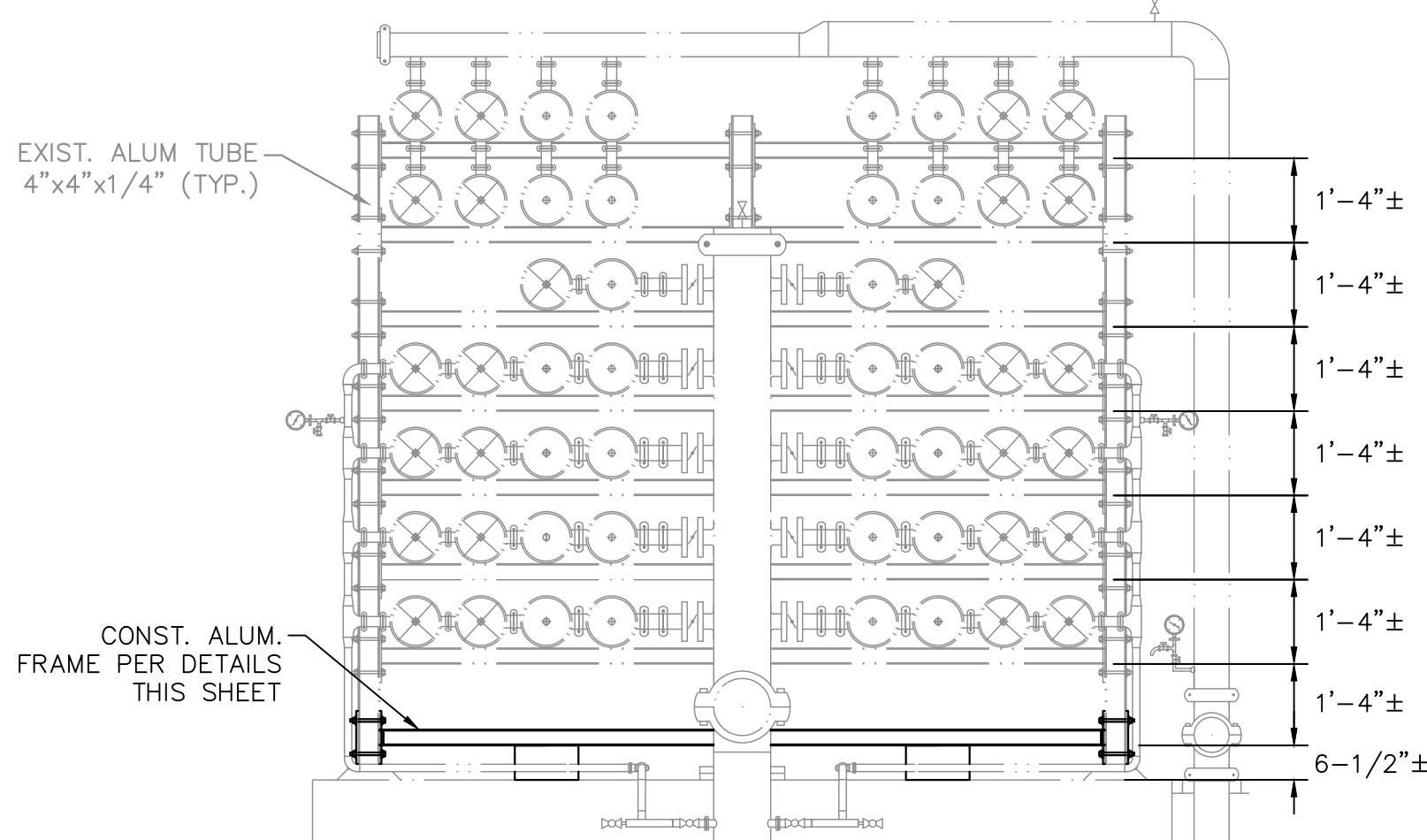
Plotted By: Corriu, Daniel Sheet Set: WTP M2 EXPANSION Layout: M-12 TRAINS 6 & 7 FRAME DETAILS November 15, 2024 11:47:40am K:\web_civil\144957082 - m2 expansion\CAD\plansheets\M-12 TRAINS 6 & 7 FRAME DETAILS.dwg This document, together with the concepts and designs presented herein, is an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



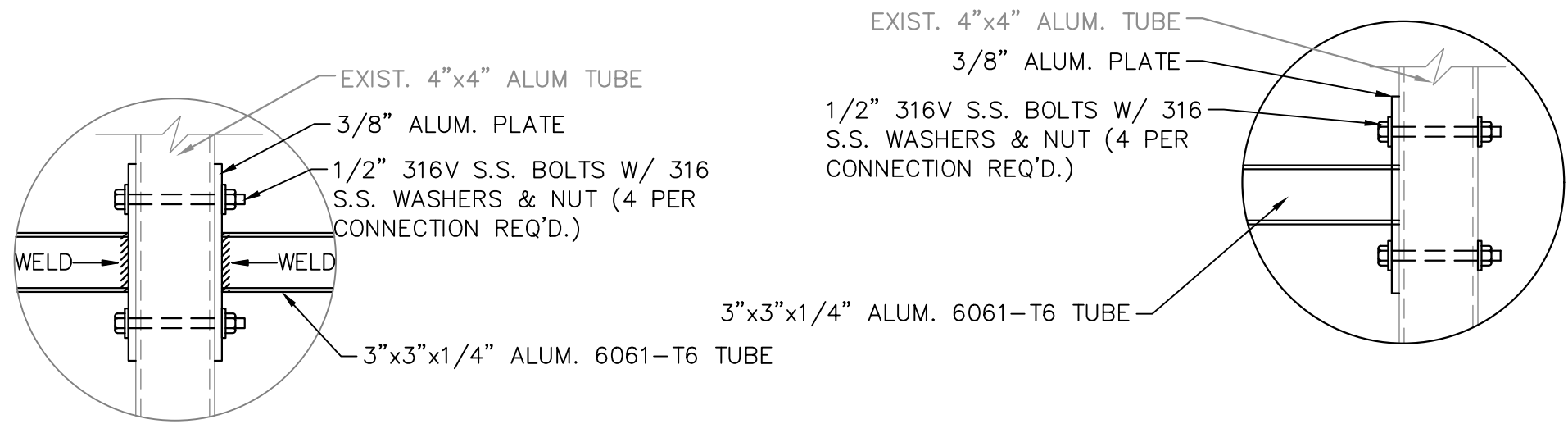
1
M-12
NF TRAIN 6 AND 7 FRAME SECTION TOP VIEW
24x36 SHEET SIZE: $\frac{3}{8}" = 1'-0"$
11x17 SHEET SIZE: $\frac{1}{16}" = 1'-0"$
SCALE: 0 1 2 3 4 FEET



2
M-12
EXIST. NF TRAIN 6 AND 7 FRAME SECTION SIDE VIEW
24x36 SHEET SIZE: $\frac{3}{8}" = 1'-0"$
11x17 SHEET SIZE: $\frac{1}{16}" = 1'-0"$
SCALE: 0 1 2 3 4 FEET

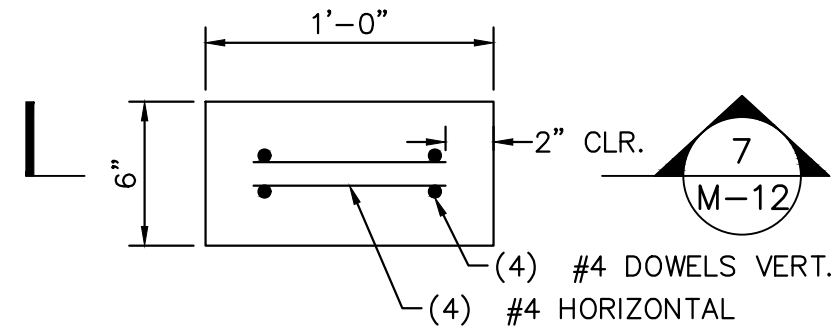


3
M-12
NF TRAIN 6 AND 7 FRAME SECTION FRONT VIEW
Scale: N.T.S.

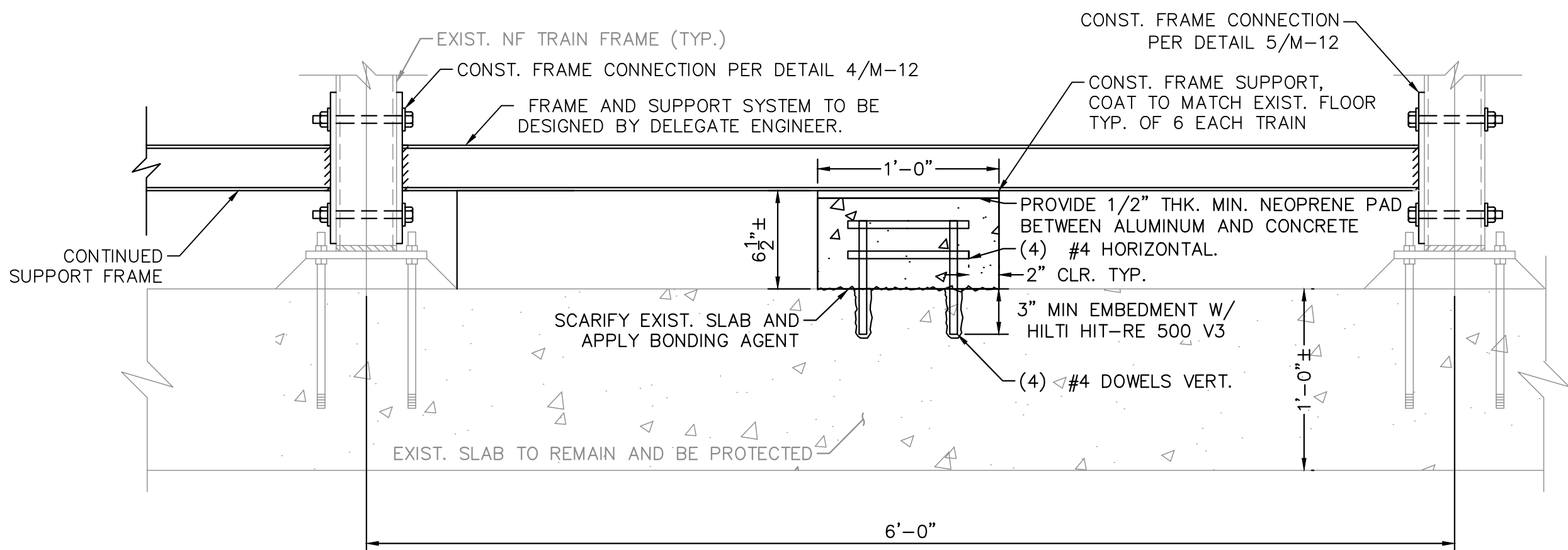


4
M-12
NF TRAIN 6 AND 7 FRAME DETAIL
24x36 SHEET SIZE: $1\frac{1}{2}" = 1'-0"$
11x17 SHEET SIZE: $\frac{3}{4}" = 1'-0"$
SCALE: 0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 FEET

5
M-12
NF TRAIN 6 AND 7 FRAME DETAIL
24x36 SHEET SIZE: $1\frac{1}{2}" = 1'-0"$
11x17 SHEET SIZE: $\frac{3}{4}" = 1'-0"$
SCALE: 0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 FEET



6
M-12
NF TRAIN 6 AND 7 FRAME SUPPORT PLAN
24x36 SHEET SIZE: $1\frac{1}{2}" = 1'-0"$
11x17 SHEET SIZE: $\frac{3}{4}" = 1'-0"$
SCALE: 0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 FEET



7
M-12
NF TRAIN 6 AND 7 FRAME AND SUPPORT SECTION
24x36 SHEET SIZE: $1\frac{1}{2}" = 1'-0"$
11x17 SHEET SIZE: $\frac{3}{4}" = 1'-0"$
SCALE: 0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 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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**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

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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.

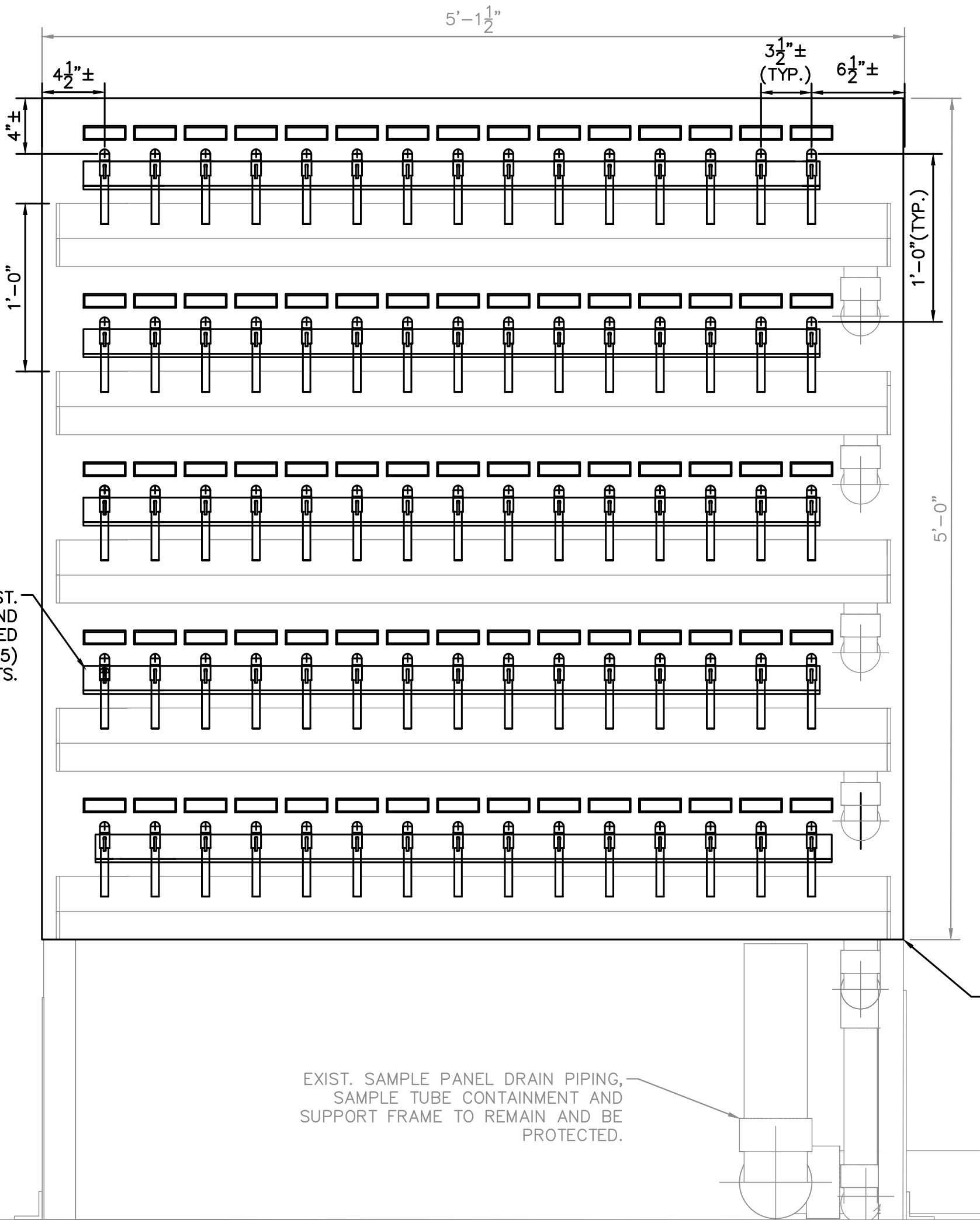
REINSTALL SIXTY (60) EXIST. SAMPLE PORT ASSEMBLIES AND CONST. FIFTEEN (15) NEW PER DETAIL THIS SHEET.

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

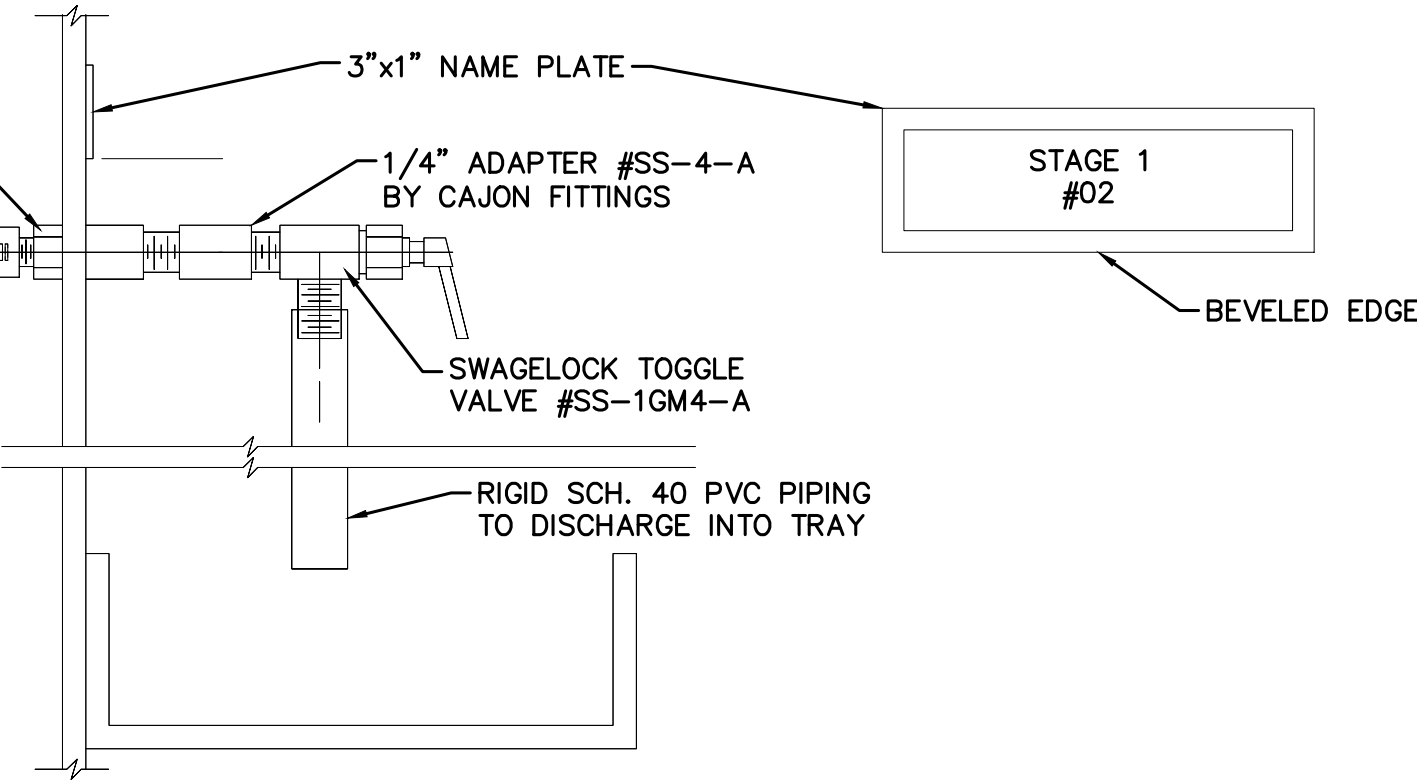
REPLACE SAMPLE PORT LABELS WITH NEW PER DETAIL 3 THIS SHEET.

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.



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



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.

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"

- 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 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

No.	REVISIONS	DATE	BY

Kimley»Horn

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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

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**

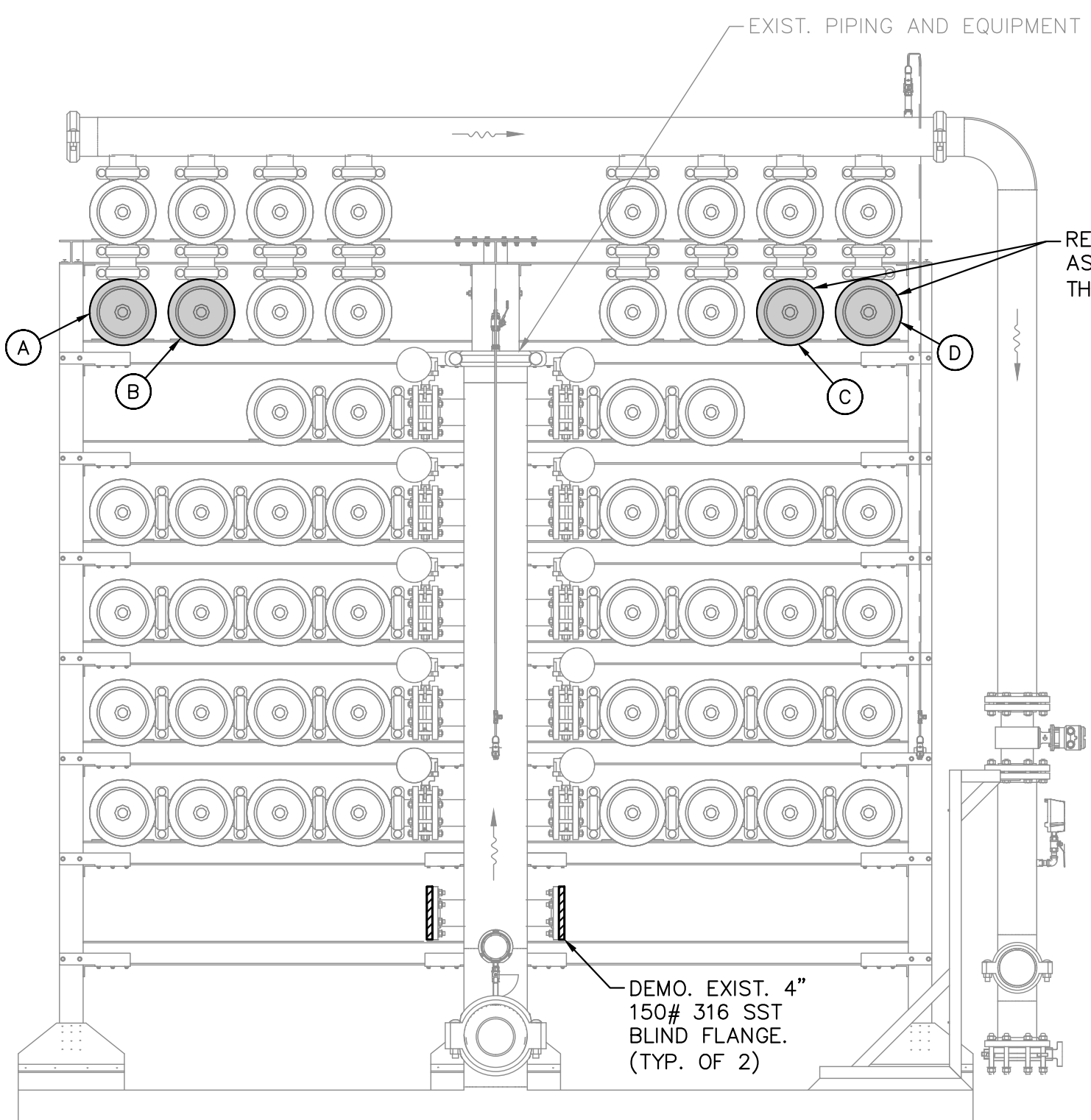
ON THE DATE ADJACENT TO THE SEAL

SHEET NUMBER

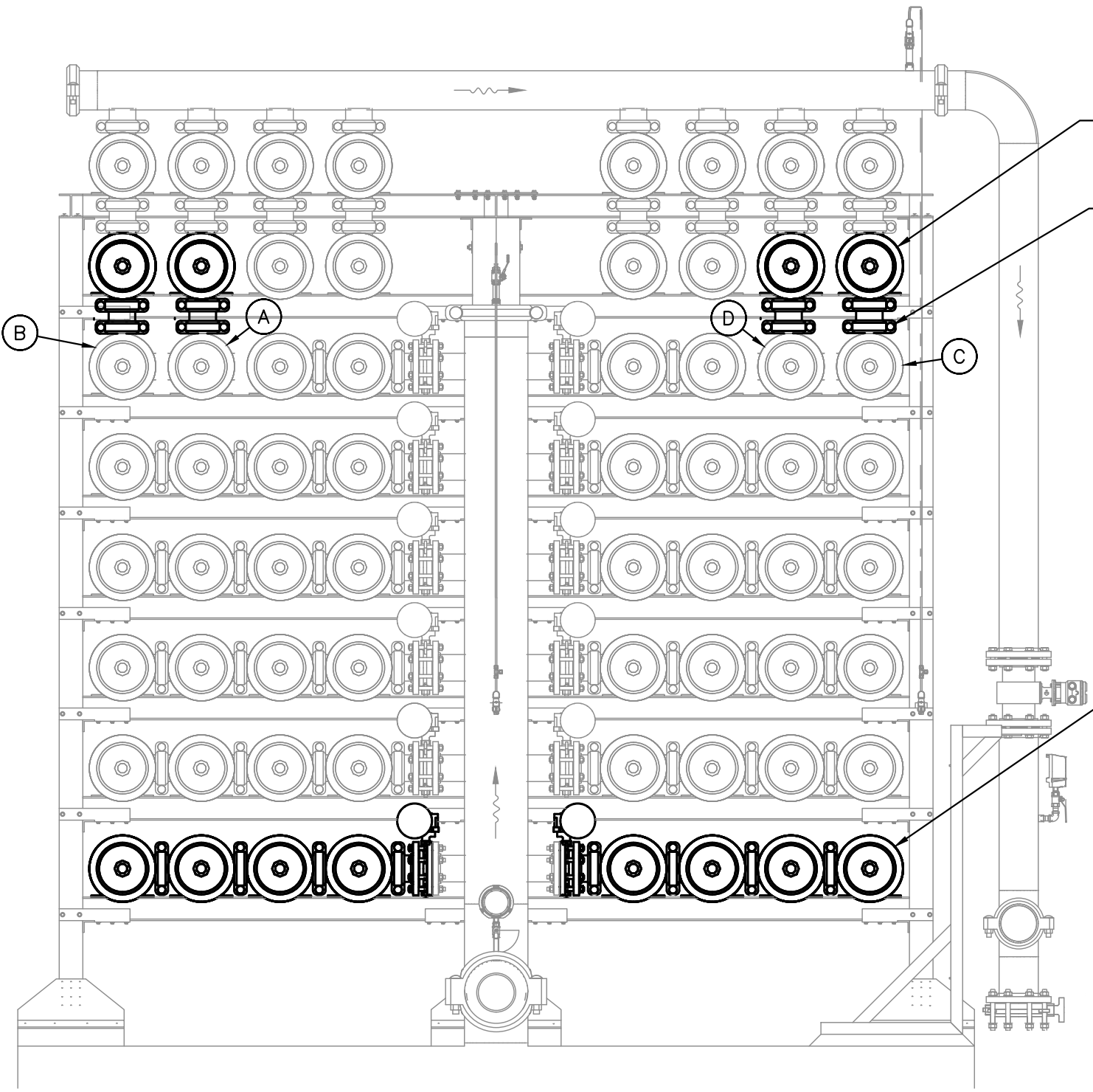
M-13

13 OF 15

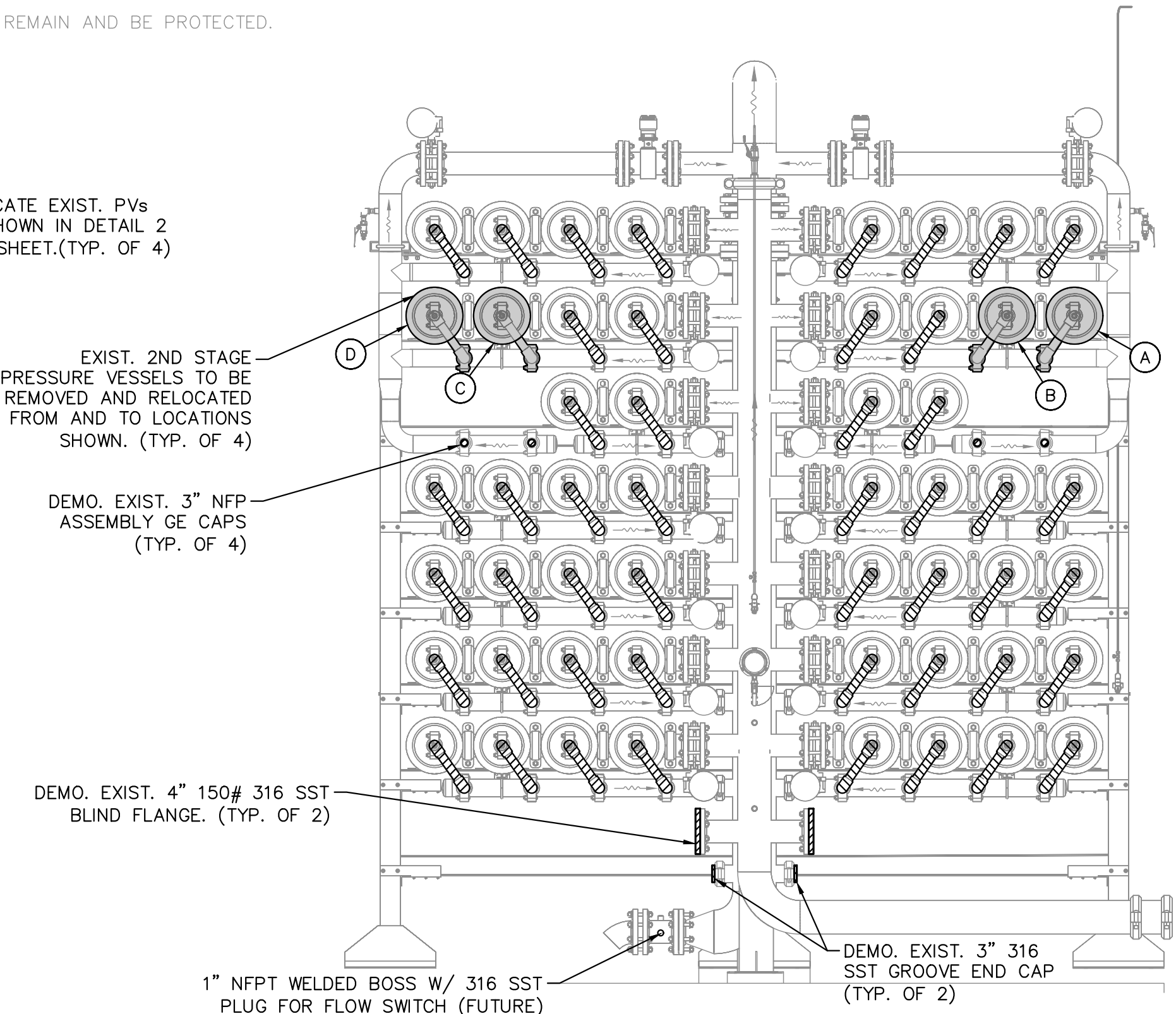
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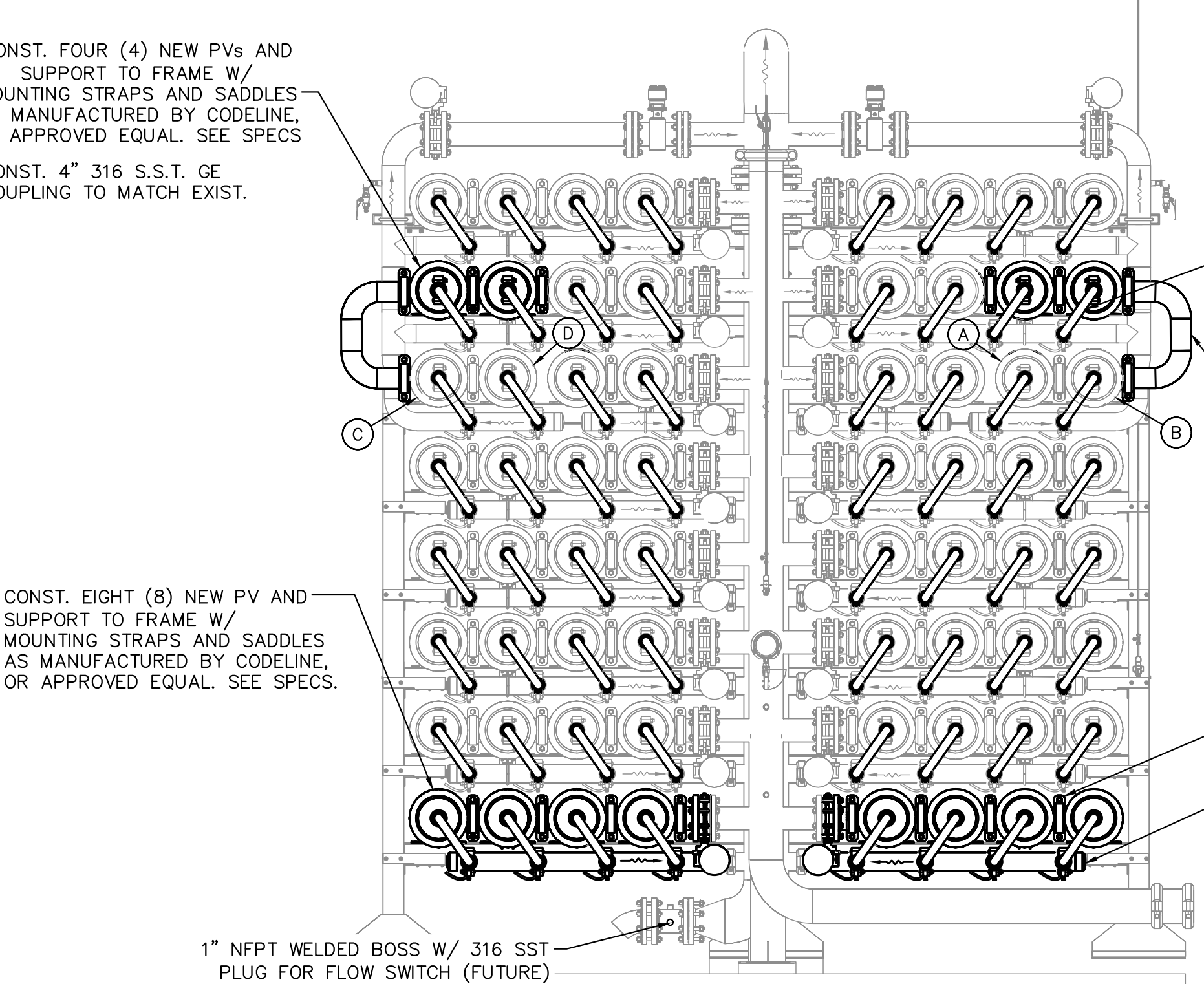
1 EXIST 36x16 NFF/NFC SECTION
24x36 SHEET SIZE: 1 1/2" = 1'-0"
11x17 SHEET SIZE: 3/4" = 1'-0"
SCALE FEET



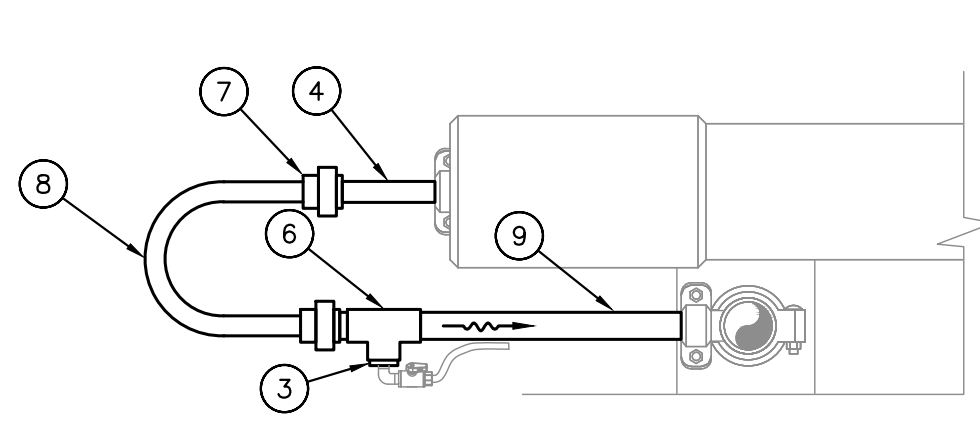
3 PROP. 36x16 NFF/NFC SECTION
24x36 SHEET SIZE: 1 1/2" = 1'-0"
11x17 SHEET SIZE: 3/4" = 1'-0"
SCALE FEET



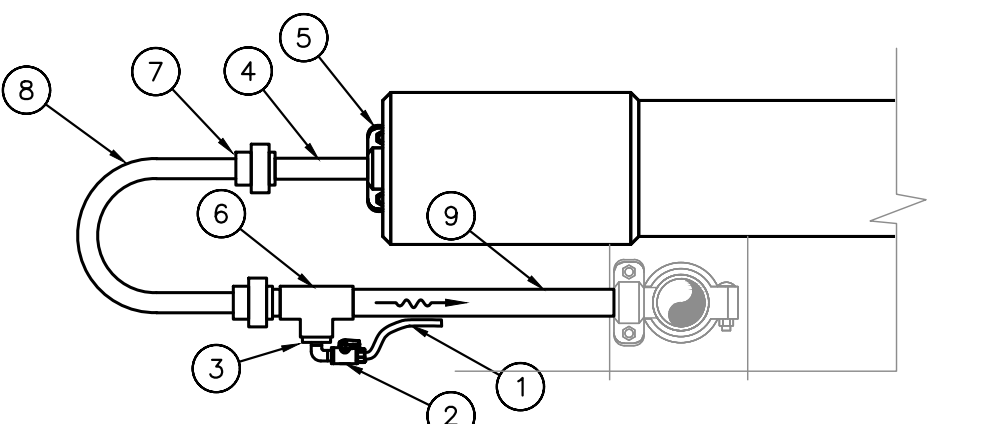
2 EXIST. 36x16 NFI/NFP SECTION
24x36 SHEET SIZE: 1 1/2" = 1'-0"
11x17 SHEET SIZE: 3/4" = 1'-0"
SCALE FEET



4 PROP. 36x16 NFI/NFP SECTION
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
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.

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NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY



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KHA PROJECT

DATE
APR 2024

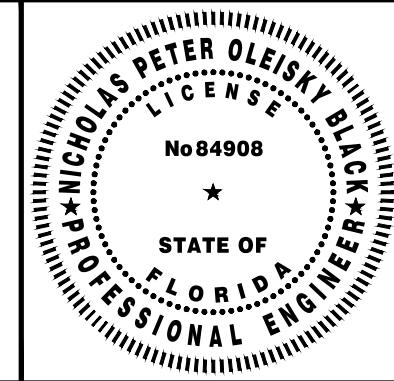
SCALE AS SHOWN

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

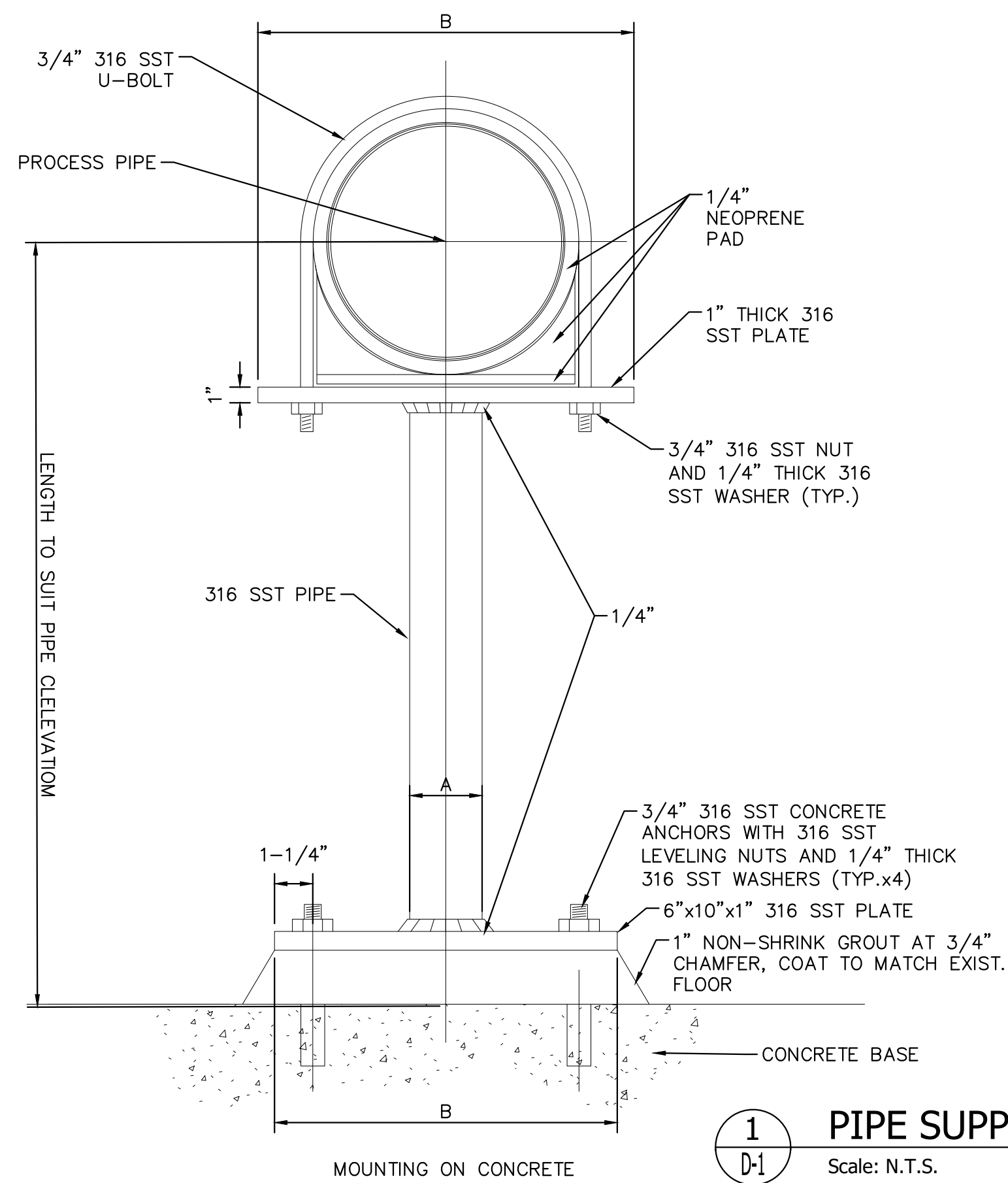
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TRAIN 8 EXPANSION SECTIONS

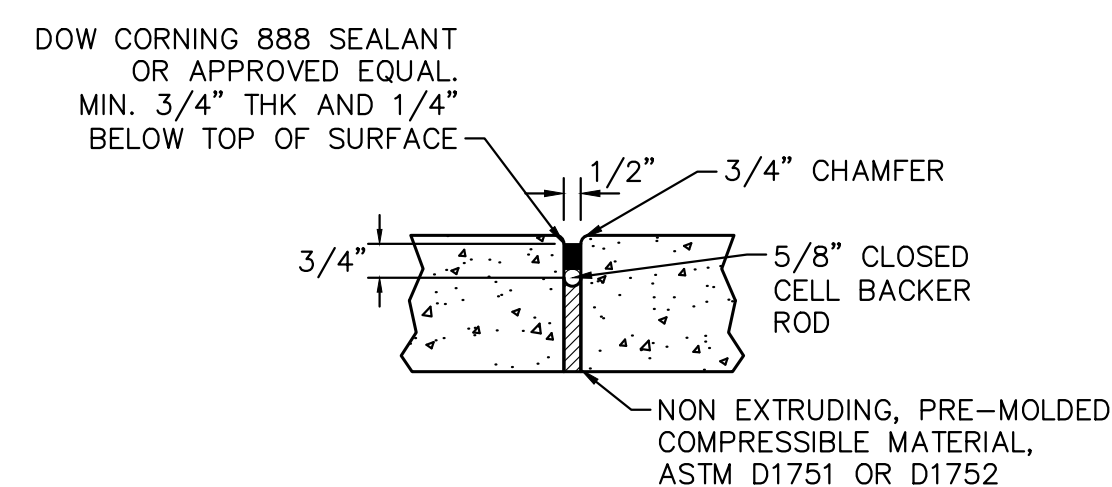
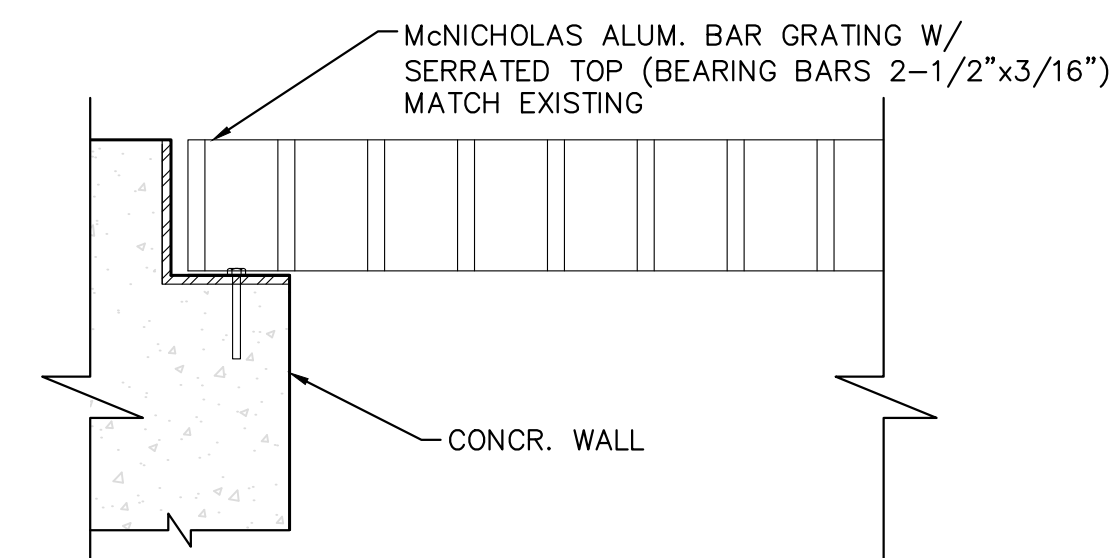
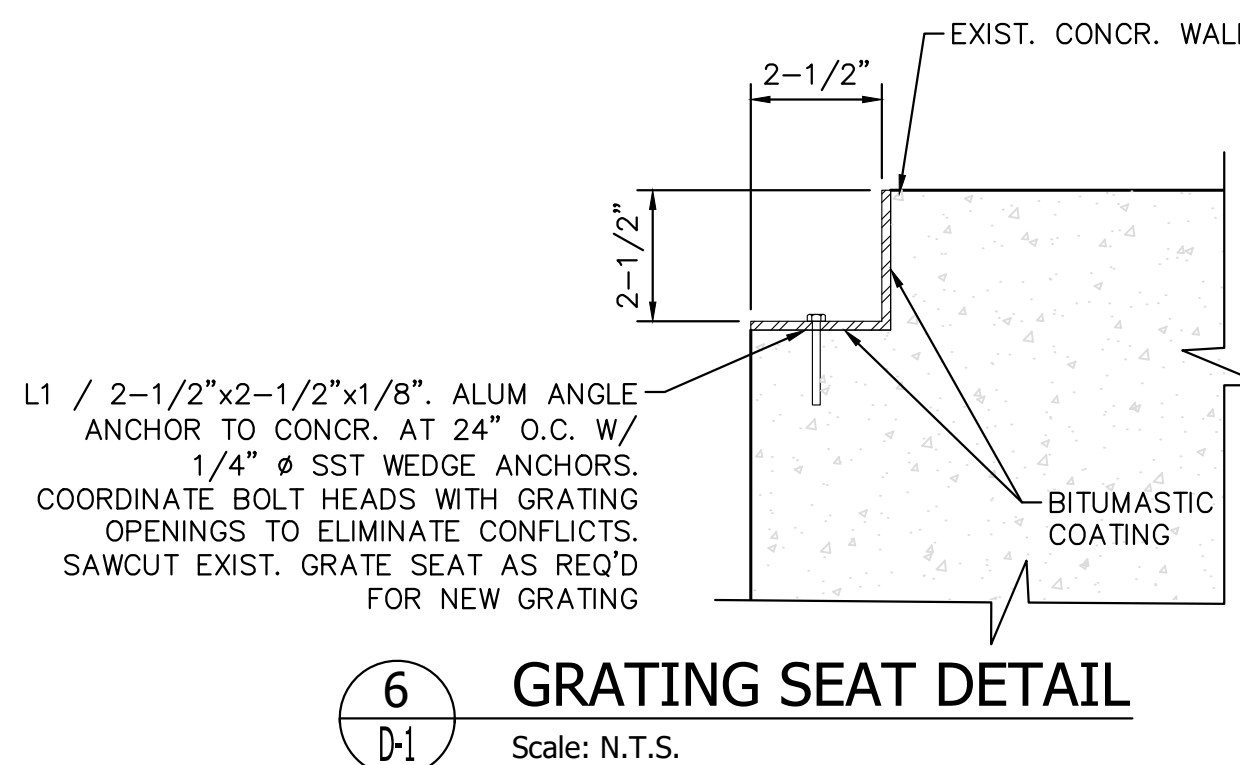
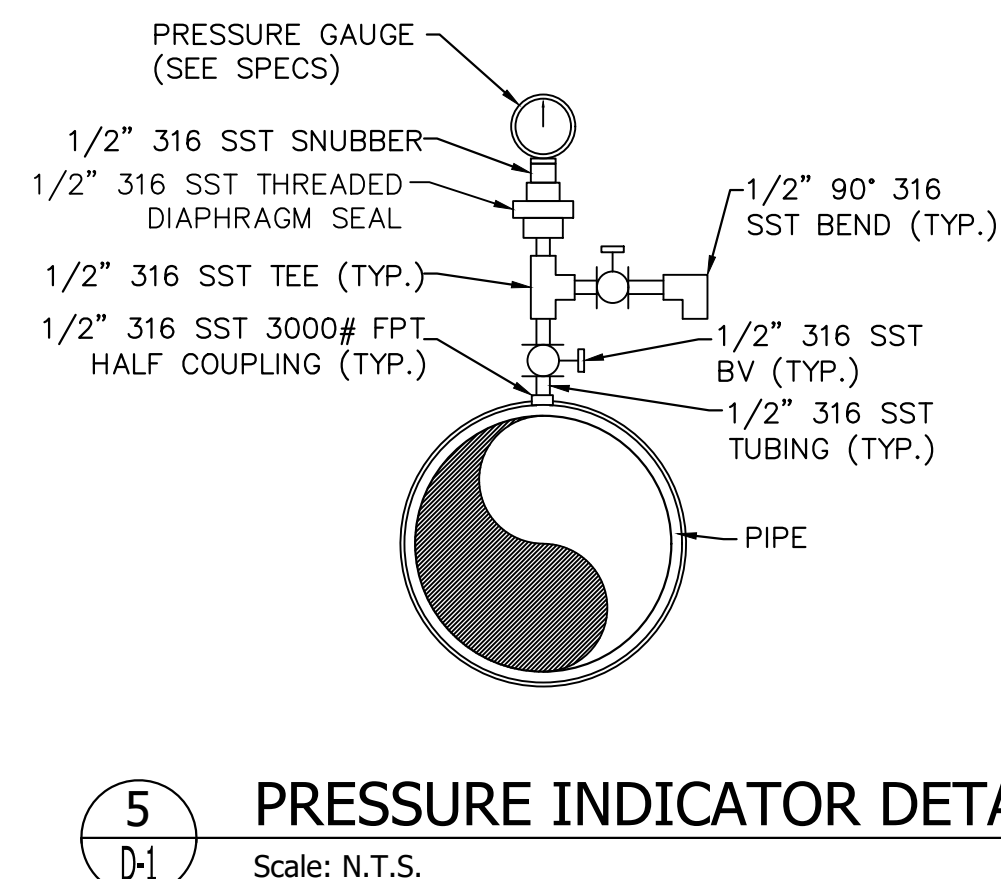
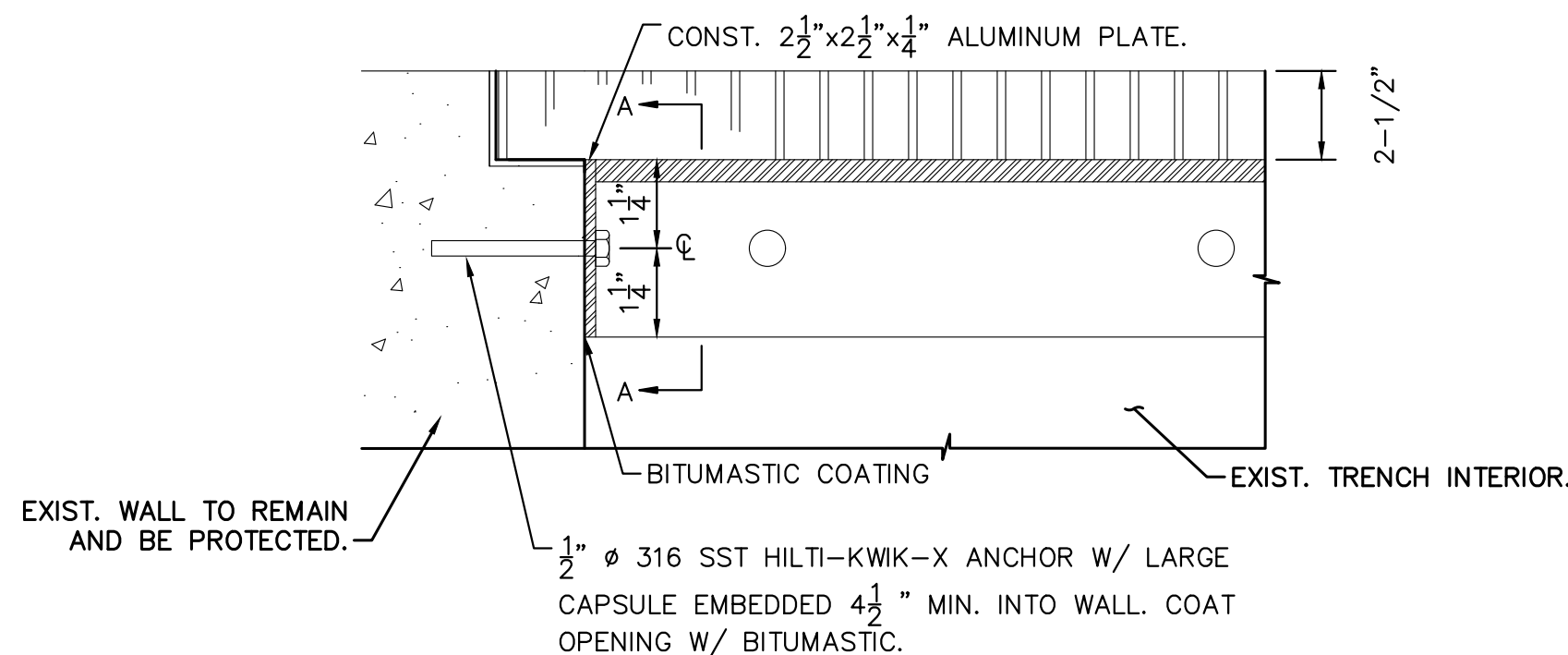
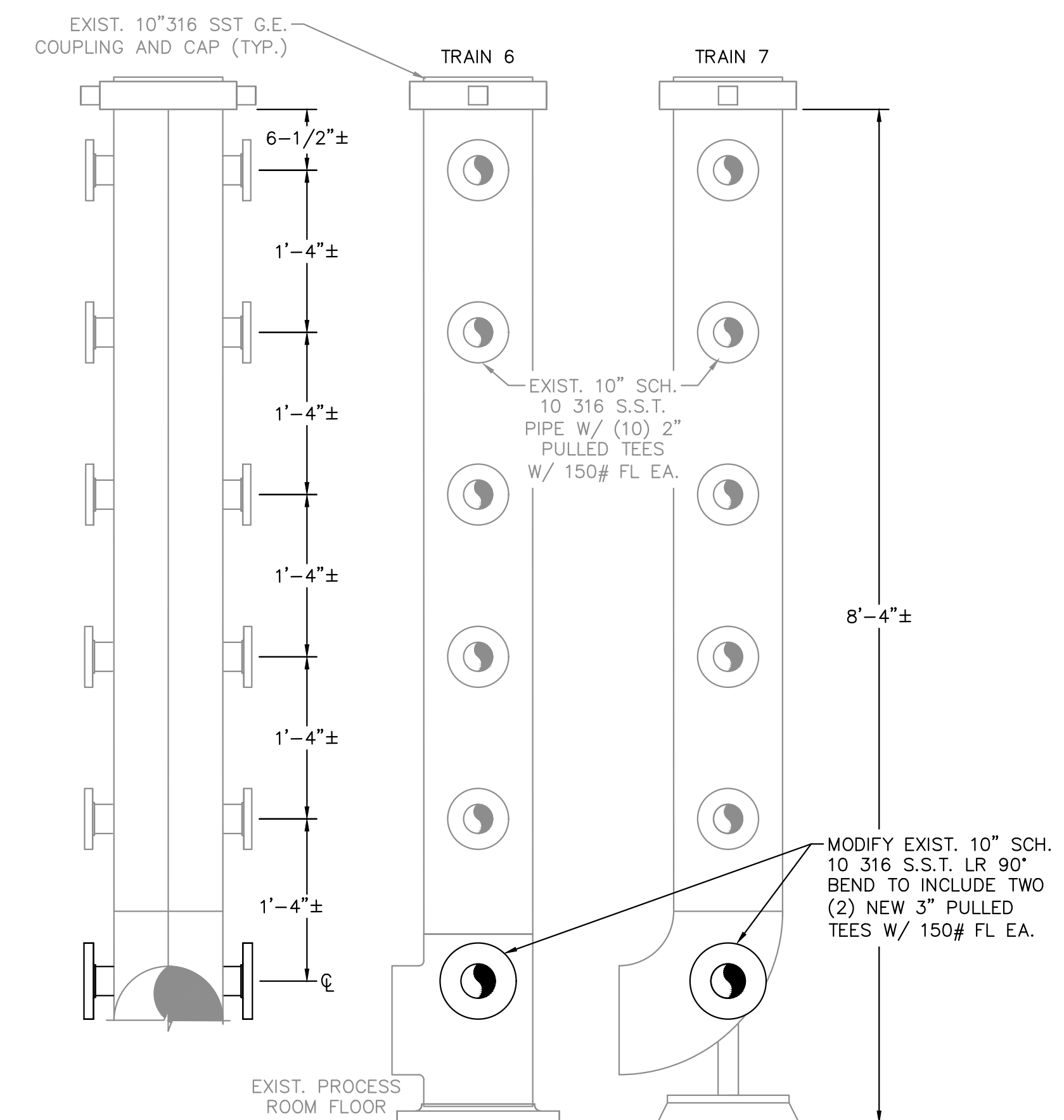
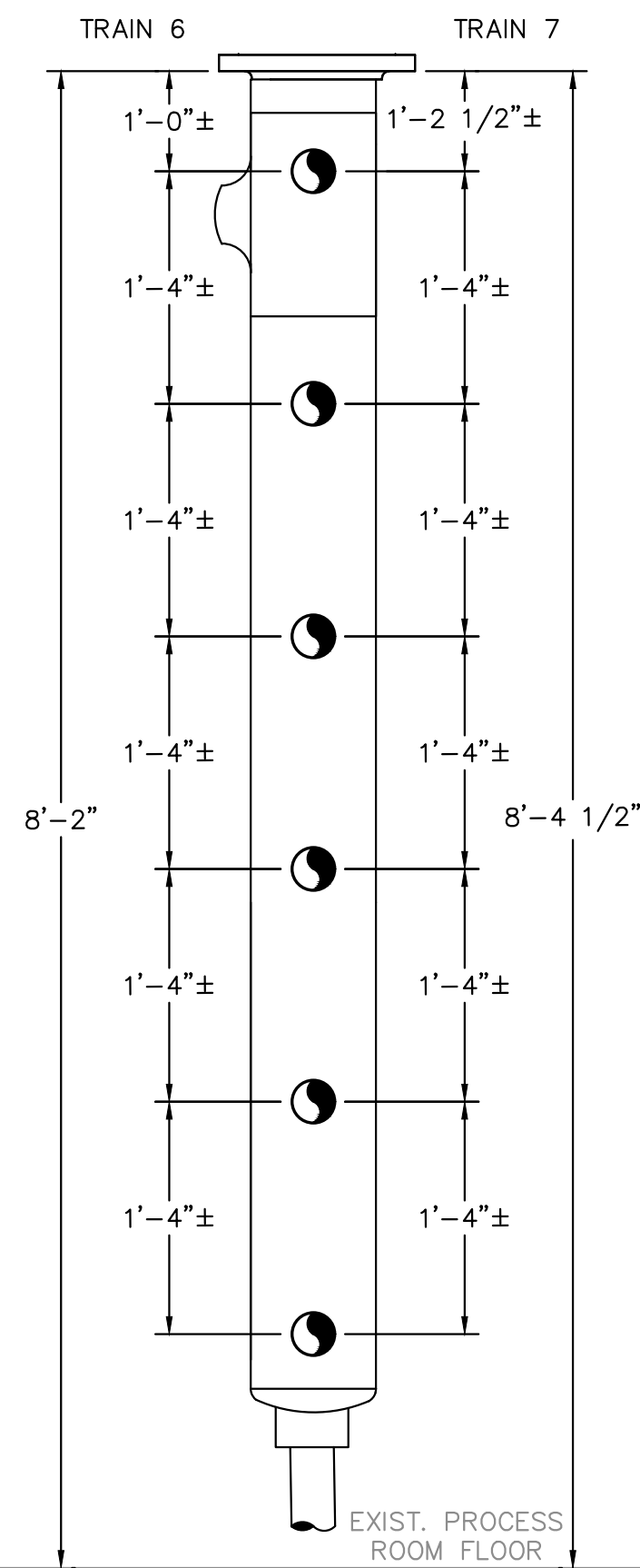
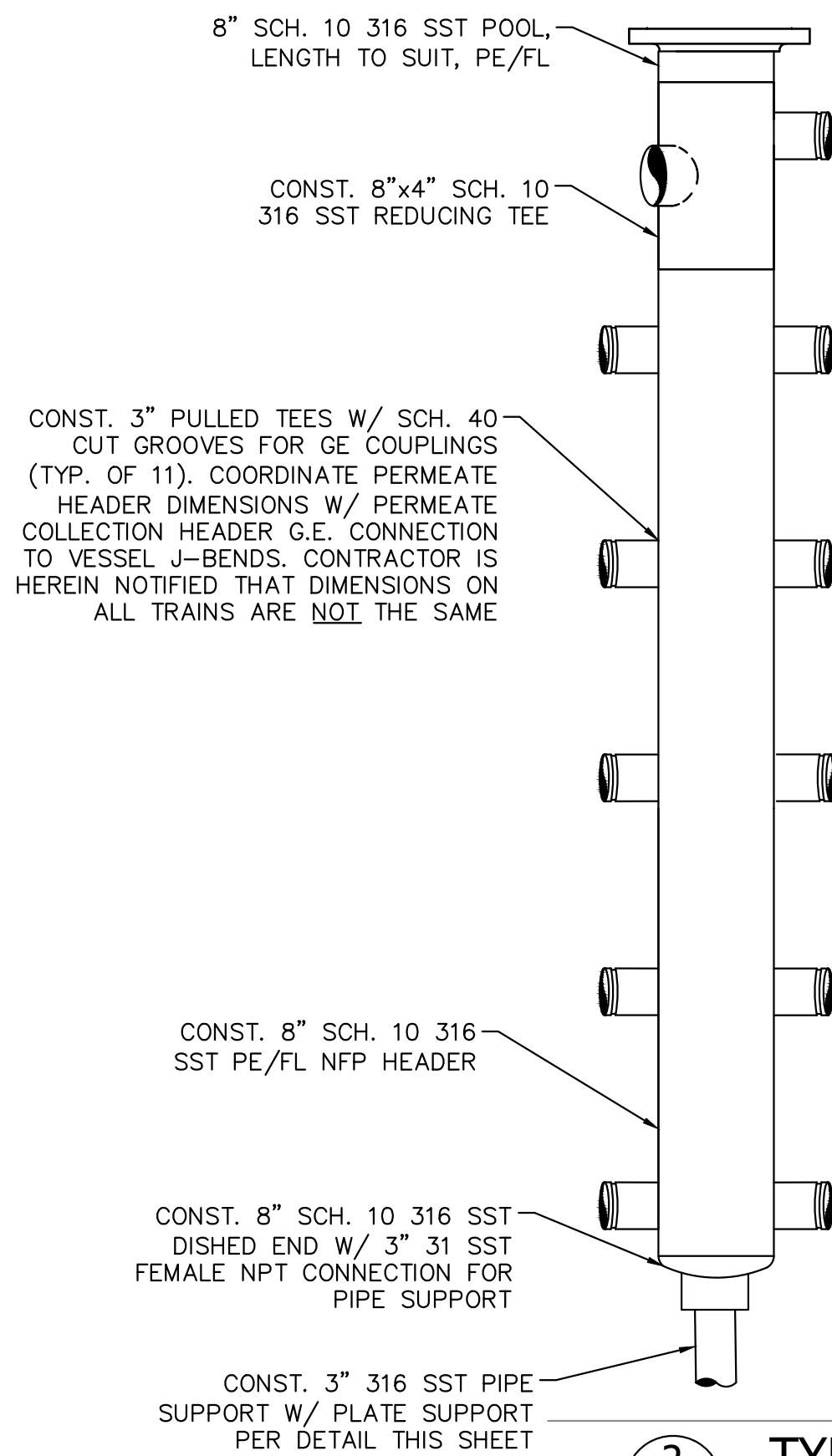
SHEET NUMBER

M-14

14 OF 15



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



- ## ALUMINUM COMPONENTS NOTES

1. DESIGN, FABRICATE AND ERECT ALUMINUM COMPONENTS IN CONFORMANCE WITH THE ALUMINUM ASSOCIATION, INC. "ALUMINUM DESIGN MANUAL - 2020."
2. VERIFY ALL DIMENSIONS AS REQUIRED PRIOR TO FABRICATION OF ANY ALUMINUM COMPONENTS.
3. ALUMINUM COMPONENTS SHALL BE FABRICATED USING 6061-T6 MATERIAL.
4. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.2.
5. USE ALUMINUM MATERIAL THAT IS FULLY WELDABLE WITHIN GRADES AND FROM ANY GRADE TO ANY OTHER GRADE. WELD ALL SHOP CONNECTIONS, U.O.N.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. ALUMINUM SURFACES IN CONTACT WITH CONCRETE OR MASONRY SHALL HAVE CONTACT AREA COATED WITH BITUMASTIC.
12. SUBMIT SHOP DRAWINGS FOR ALUMINUM COMPONENTS TO ENGINEER FOR REVIEW PRIOR TO FABRICATION. DO NOT REPRODUCE THE STRUCTURAL DRAWINGS FOR USE AS SHOP DRAWINGS.
13. ALL BOLT, NUTS, AND WASHERS SHALL BE STAINLESS STEEL 316 SERIES UNLESS OTHERWISE NOTED.
14. SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER/ENGINEER FOR ALL PREFABRICATED COMPONENTS.
15. 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

Date Page of Section of Chapter of Book of Volume of Series of Set of Vols.			
No.	REVISIONS	DATE	BY

Kimley»»Horn

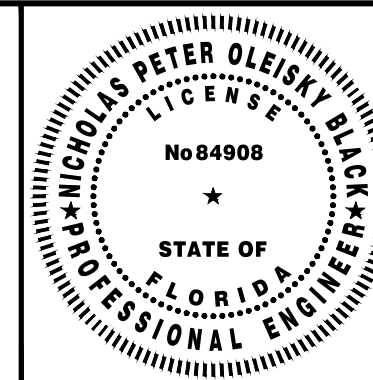
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KHA PROJECT 144957082
DATE NOV 2023
SCALE AS SHOWN
DESIGNED BY NPOB
DRAWN BY AH
CHECKED BY JEF

WTP MEMBRANE PLANT #2 (M2) EXPANSION

PREPARED FOR
VILLAGE OF WELLINGTON

PALM BEACH COUNTY FLORIDA



THIS ITEM HAS BEEN DIGITALLY SIGNED
AND SEALED BY

CONSTRUCTION DETAILS

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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	01600	Material and Equipment
	01720	Project Record Drawings
	01730	Operation and Maintenance Manuals
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	02670	Flushing, Testing and Disinfection
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	03200	Concrete Reinforcement
	03300	Cast-in-Place Concrete
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5		METALS
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7		THERMAL AND MOISTURE PROTECTION – NOT USED
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	11209	Membrane Softening System
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13		SPECIAL CONSTRUCTION – NOT USED
14		CONVEYING SYSTEMS – NOT USED
15		MECHANICAL
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16		ELECTRICAL – NOT USED
17		INSTRUMENTATION – NOT USED

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
TOTAL	\$643,497	\$0	\$175,052	\$1,956,466	\$2,775,015

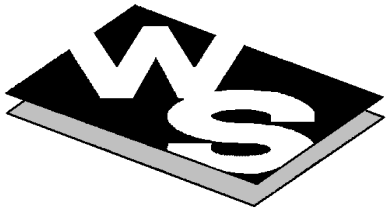


VILLAGE OF WELLINGTON - WTP MEMBRANE PLANT 2 EXPANSION


GMP Proposal

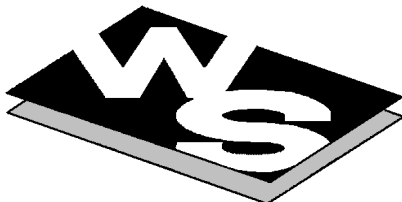
3/18/25

			COST OF WORK				
DESCRIPTION	QTY	UOM	LABOR	EQUIPMENT	MATERIALS	SUBS	\$ TOTALS
			\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	
BID PACKAGE							\$ 1,388,986
MEMBRANE OEM EQUIPMENT	1	LS	\$ -	\$ -	\$ -	\$ 864,460	\$ 864,460
MASTER PLANT CONTRACTOR PACKAGE	1	LS	\$ -	\$ -	\$ -	\$ 524,526	\$ 524,526
ALLOWANCES							\$ 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
TOTAL DIRECT COST			\$ -	\$ -	\$ -	\$ 1,406,486	\$ 1,406,486



Wharton-Smith, Inc.
CONSTRUCTION GROUP

<div></div> <div>Wharton-Smith, Inc. CONSTRUCTION GROUP</div>									JOB NAME:	WTP MEMBRANE PLANT 2 EXPANSION						
										0						
									ESTIMATE #:							
GENERAL CONDITIONS																
DESCRIPTION	QTY	UNIT	MH/ UNIT	BASE RATE	LABOR			HR/UNIT	EQUIPMENT		MATERIAL			SUBCONTRACTS		\$ TOTALS
					U/P	TOTAL MH	\$ AMOUNT		RATE	\$ AMOUNT	U/P	\$ AMOUNT	\$ AMOUNT	U/P	\$ AMOUNT	
PROJECT MANAGEMENT TEAM		W/ 7% TAX														
FIELD STAFF																
Superintendent	52	WK	40	\$124.00	\$4,960.00	2,083	\$258,317			\$0.00		\$0	\$0		\$0	\$258,317
OFFICE STAFF				\$0.00												
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				\$0.00												
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
TOTAL GENERAL CONDITIONS						6,041	\$621,523			\$0		\$0		\$6,600	\$628,123	

	<div>Wharton–Smith, Inc.</div> CONSTRUCTION GROUP										JOB NAME: WTP MEMBRANE PLANT 2 EXPANSION					
											ESTIMATE #: 0					
GENERAL REQUIREMENTS	DURATION =		12	0 DIRECT MANHOURS MONTHS, PLANNED			0	MANWEEKS								
							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															
TEMP.FACILITIES & UTILITIES																
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 – <u>1</u> REQUIRED	12	MO		\$50.00	\$0.00	0	\$0			\$0.00	\$200.00	\$2,400	\$2,568		\$0	\$2,568
TEMPORARY TOILETS – <u>1</u> 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
CONSTRUCTION EQUIPMENT & TOOLS																
SMALL TOOLS AND SUPPLIES	1	LS		\$50.00	\$0.00	0	\$0			\$0.00	\$2,500	\$2,500	\$2,675		\$0	\$2,675
SAFETY & HEALTH & HOUSEKEEPING																
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
PERMITS, FEES, INSURANCE, LEGAL, ETC.																
BUILDER'S RISK INSURANCE– COASTAL COUNTY	12	MO		\$50.00	\$0.00	0	\$0			\$0.00		\$0	\$0	\$500.00	\$6,000	\$6,000
PROJECT DOCUMENTATION AND SERVICES																
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
TOTAL GENERAL REQUIREMENTS						427	\$21,974			\$0		\$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		346-242-3675		604-782-1639	
	jnemeth-harn@komline.com		michael.gisclair@h20innovation.com		amy.heung@biwater.com	
Base Bid - Before Bid Alternates	No Bid Received	\$	864,460.00	No Bid Received		
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	\$ -		
Bid Alternates						
Bid Document Requirements						
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		
Scheduled Lead Times for Deliverables and Construction						
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			
Subtotal (Base Bid):	No Bid Received	\$	864,460.00	No Bid Received		
Adjustment:	\$ -	\$	-	\$ -		
Total Adjusted Scope:	\$ -	\$	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

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):☒
☐
☐

Bid Form
Sanctions and Litigation
Licenses

☐
☐
☐

Value Engineering Proposal
Certificate of Insurance
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. OEM BM Dated Jan 15th No. M2TS / A Dated Nov 24'

No. M2 PLANS Dated NOV 24' No. GMP1 Add 1 Dated Feb 5th

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 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>
				Total Base Bid:	\$ <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

Signature

Adam Honour PM

Print Name / Title

2/12/2025

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		Geoff Schmidt		Jeff Holst	
	407.321.8410		561-578-7715		561-818-3228	
	swhite@whartonsmith.com		gs@lawrenceleeconstruction.com		jeff@fldrilling.com	
Base Bid - Before Bid Alternates	\$	524,526.00	NO BID		NO BID	
1. MPC Package Lump Sum	\$	524,426.00	\$ -		\$ -	
2. Payment & Performance Bonds	\$	-	\$ -		\$ -	
3. Indemnification	\$	100.00	\$ -		\$ -	
Bid Alternates / Adjustments						
Bid Document Requirements						
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	
Scheduled Lead Times for Deliverables and Construction						
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	
Subtotal (Base Bid):	\$	524,526.00	NO BID		NO BID	
Adjustment (Alternates)	\$	-	\$ -		\$ -	
Total Adjusted Scope:	\$	524,526.00	\$ -		\$ -	

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

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="checked" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Bid Form
Sanctions and Litigation
Licenses

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Value Engineering Proposal
Certificate of Insurance
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
Total Base Bid:					\$ 524,526.00

(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.


 Signature
 Timothy S. Smith, President/CEO

Timothy S. Smith, President/CEO
 Print Name / Title

3/7/25
 Date

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

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.

Thank you,



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

Wharton-Smith, Inc. | Construction Group of Choice | www.whartonsmith.com

5210 Hood Road, Palm Beach Gardens, FL 33418

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

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe!

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
www.FLDrilling.com

On Fri, Mar 7, 2025 at 3:58 PM Eliana Corie <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.

Thank you,



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

Wharton-Smith, Inc. | Construction Group of Choice
| 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	J	
WTP M2 Expansion									06-Nov-26, WTP M2 Expansion																											
General Conditions									06-Nov-26, General Conditions																											
Administration																																				
A1000	Notice to Proceed	0	0	0	0%	28-Apr-25	28-Apr-25	0	▼ 28-Apr-25, Administration ◆ Notice to Proceed																											
Wharton-Smith									06-Nov-26, Wharton-Smith																											
A1010	Substantial Completion	0	0	0	0%	07-Oct-26	06-Nov-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																											
Procurement									26-Jan-26, Procurement																											
Submittals									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																											
Review and Approve									10-Jul-25, Review and Approve																											
A1070	Codeline Pressure Vesseld	14	0	14	0%	27-Jun-25	10-Jul-25	151	■ Codeline Pressure Vesseld																											
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																											
Fabrication and Delivery									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																											
Site									15-Sep-25, Site																											
A1130	Mobilization	5	0	5	0%	08-Sep-25	15-Sep-25	12	■ Mobilization																											
Train 6 Modifications									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																											
Train 7 Modifications									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 Mo																											
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

Remaining Work

Critical Remaining Work

◆ Milestone

Summary

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

THE VILLAGE OF WELLINGTON

[illegible]

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.

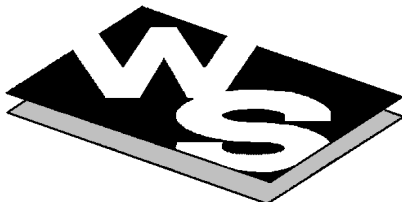
Extended warranties as required by the contract specifications will be furnished to the owner during the closeout phase and prior to receipt of final payment.

SECTION 8 – EXHIBIT R7 GENERAL CONDITIONS AND GENERAL REQUIREMENTS



Wharton-Smith, Inc.
CONSTRUCTION GROUP

<div></div> <div>Wharton-Smith, Inc. CONSTRUCTION GROUP</div>									JOB NAME:	WTP MEMBRANE PLANT 2 EXPANSION						
										0						
									ESTIMATE #:							
GENERAL CONDITIONS																
DESCRIPTION	QTY	UNIT	MH/ UNIT	BASE RATE	LABOR			HR/UNIT	EQUIPMENT		MATERIAL			SUBCONTRACTS		\$ TOTALS
					U/P	TOTAL MH	\$ AMOUNT		RATE	\$ AMOUNT	U/P	\$ AMOUNT	\$ AMOUNT	U/P	\$ AMOUNT	
PROJECT MANAGEMENT TEAM		W/ 7% TAX														
FIELD STAFF																
Superintendent	52	WK	40	\$124.00	\$4,960.00	2,083	\$258,317			\$0.00		\$0	\$0		\$0	\$258,317
OFFICE STAFF				\$0.00												
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				\$0.00												
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
TOTAL GENERAL CONDITIONS						6,041	\$621,523			\$0		\$0		\$6,600	\$6,600	\$628,123

	<div>Wharton–Smith, Inc.</div> CONSTRUCTION GROUP							JOB NAME: WTP MEMBRANE PLANT 2 EXPANSION									
								ESTIMATE #:		0							
GENERAL REQUIREMENTS		DURATION =		12	0 DIRECT MANHOURS		0	MANWEEKS									
					MONTHS, PLANNED	0	MEN										
DESCRIPTION		QTY	UNIT	MH/ UNIT	BASE 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															
TEMP.FACILITIES & UTILITIES																	
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 – <u>1</u> REQUIRED		12	MO		\$50.00	\$0.00	0	\$0			\$0.00	\$200.00	\$2,400	\$2,568		\$0	\$2,568
TEMPORARY TOILETS – <u>1</u> 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
CONSTRUCTION EQUIPMENT & TOOLS																	
SMALL TOOLS AND SUPPLIES		1	LS		\$50.00	\$0.00	0	\$0			\$0.00	\$2,500	\$2,500	\$2,675		\$0	\$2,675
SAFETY & HEALTH & HOUSEKEEPING																	
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
PERMITS, FEES, INSURANCE, LEGAL, ETC.																	
BUILDER'S RISK INSURANCE– COASTAL COUNTY		12	MO		\$50.00	\$0.00	0	\$0			\$0.00		\$0	\$0	\$500.00	\$6,000	\$6,000
PROJECT DOCUMENTATION AND SERVICES																	
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
TOTAL GENERAL REQUIREMENTS							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	