



WEST VALLEY WATER DISTRICT
855 W. Base Line Road, Rialto, CA 92376
PH: (909) 875-1804 FAX: (909) 875-1849

**ENGINEERING, OPERATIONS AND PLANNING COMMITTEE MEETING
AGENDA**

TUESDAY, NOVEMBER 21, 2023 - 5:30 PM

NOTICE IS HEREBY GIVEN that West Valley Water District has called a meeting of the Engineering, Operations and Planning Committee to meet in the Administrative Conference Room, 855 W. Base Line Road, Rialto, CA 92376.

BOARD OF DIRECTORS

**President Gregory Young, Chair
Director Angela Garcia**

Members of the public may attend the meeting in person at 855 W. Base Line Road, Rialto, CA 92376, or you may join the meeting using Zoom by clicking this link: <https://us02web.zoom.us/j/6439664373>. Public comment may be submitted via Zoom, by telephone by calling the following number and access code: Dial: (888) 475-4499, Access Code: 643 966 4373, or via email to administration@wvwd.org.

If you require additional assistance, please contact administration@wvwd.org.

I. CALL TO ORDER

II. PUBLIC PARTICIPATION

The public may address the Board on matters within its jurisdiction. Speakers are requested to keep their comments to no more than three (3) minutes. However, the Board of Directors is prohibited by State Law to take action on items not included on the printed agenda.

III. DISCUSSION ITEMS

1. Updates to the Engineering, Operations and Planning Committee
2. Agreement with San Bernardino County for a Permanent Emergency Interconnection at Glen Helen. **Pg 3**
3. Ion Exchange Resin Replacement at Well 42. **Pg 11**
4. Right of Entry during Construction and License for Pipeline Location with IDIL West Valley Logistics Center, LP. **Pg 40**
5. Reimbursement Agreement for R2-3 Reservoir Facilities Improvements with IDIL West Valley Logistics Center, LP.. **Pg 53**
6. Post Waterline Break Street Repairs. **Pg 86**
7. Oliver P. Roemer Water Filtration Facility Filter Media Replacement and Coating Project. **Pg 92**
8. CHANGE ORDER NO. 3 WITH PCL CONSTRUCTION, INC. FOR THE OLIVER P. ROEMER WATER FILTRATION FACILITY UPGRADE AND EXPANSION PROJECT. **Pg 130**

IV. ADJOURN

DECLARATION OF POSTING:

I declare under penalty of perjury, that I am employed by the West Valley Water District and posted the foregoing Engineering, Operations and Planning Committee Agenda at the District Offices on November 16, 2023.

Elvia Dominguez

Elvia Dominguez, Board Secretary



**BOARD OF DIRECTORS
ENGINEERING, OPERATIONS AND PLANNING COMMITTEE
STAFF REPORT**

DATE: November 21, 2023
TO: Engineering, Operations and Planning Committee
FROM: Linda Jadeski, Director of Engineering
SUBJECT: AGREEMENT WITH SAN BERNARDINO COUNTY FOR A
 PERMANENT EMERGENCY INTERCONNECTION AT GLEN HELEN

DISCUSSION:

West Valley Water District (District) and San Bernardino County (County) are seeking to construct a permanent emergency interconnection (interconnection) that will replace the current temporary interconnection adjacent Glen Helen Parkway. The County is seeking an emergency secondary source of domestic water to serve Glen Helen in the event that the County's wells within Glen Helen Regional Park cannot supply sufficient water to meet demand.

The County will prepare detailed plans and specifications for the interconnection for District review and approval prior to construction of the interconnection. The County will also advertise, award, and administer the construction contract and pay 100% of the costs associated with the interconnection. Attached as **Exhibit A** is a copy of the Agreement for Permanent Emergency Interconnection (agreement), which outlines the responsibilities of the District and the County, both financially and contractually with respect to the project. A separate 3-party agreement will be prepared detailing the cost and delivery of the emergency secondary source of supply.

FISCAL IMPACT:

If the agreement is approved, there will be no fiscal impact to the District. The County shall bear one hundred percent (100%) of the costs associated with the construction of the interconnection.

STAFF RECOMMENDATION:

Staff recommends that the Committee forward a recommendation to the Board of Directors to:

1. Authorize entering into an Agreement with San Bernardino County for a Permanent Emergency Interconnection.
 2. Authorize the General Manager to execute all necessary documents.
- Respectfully Submitted,

John Thiel

John Thiel, General Manager

LJ:ls

ATTACHMENT(S):

1. Exhibit A - Agreement

EXHIBIT A

THE INFORMATION IN THIS BOX IS NOT A PART OF THE CONTRACT AND IS FOR COUNTY USE ONLY



Contract Number

SAP Number

San Bernardino County

| | |
|---|-----------------------|
| Department Contract Representative | <u>Don Day</u> |
| Telephone Number | <u>(909) 387-5224</u> |

| | |
|----------------------------------|------------------------------------|
| Contractee | <u>West Valley Water District</u> |
| Contractee Representative | <u>Linda Jadeski</u> |
| Telephone Number | <u>(909) 820-3713</u> |
| Contract Term | <u>Until Completion of Project</u> |
| Original Contract Amount | <u>N/A</u> |
| Amendment Amount | <u>N/A</u> |
| Total Contract Amount | <u>N/A</u> |
| Cost Center | <u>_____</u> |

IT IS HEREBY AGREED AS FOLLOWS:

**AGREEMENT
BETWEEN
WEST VALLEY WATER DISTRICT
AND
SAN BERNARDINO COUNTY**

This Agreement (the "Agreement") is entered into by and between the West Valley Water District, a public agency of the State of California ("WVWD") and San Bernardino County ("COUNTY"). WVWD and COUNTY are hereafter referred to individually as a "Party" and collectively as the "Parties."

RECITALS

- A. COUNTY is a public agency providing water service to certain real property owned by San Bernardino County and depicted on Exhibit "A" attached hereto and by this reference incorporated herein ("Glen Helen").
- B. WVWD is a public agency of the State of California formed and operating under the County Water District Law pursuant to California Water Code Section 30000 et seq. authorized to provide water service within its boundaries.

- C. COUNTY has requested construction of a permanent emergency interconnection between the Glen Helen Water System and WVWD to provide domestic water to the Glen Helen Water System (hereinafter referred to as the "PROJECT" and/or "Emergency Interconnection Facilities").
- D. The PROJECT site is located within the unincorporated area of Glen Helen.
- E. The total PROJECT cost is estimated to be \$1,750,000.
- F. COUNTY and WVWD desire to set forth each Party's responsibilities and obligations regarding the design, construction, and funding of the PROJECT.

NOW, THEREFORE, IT IS MUTUALLY AGREED as follows:

1.0 COUNTY AGREES TO:

- 1.1 Establish the scope of the PROJECT, subject to WVWD approval.
- 1.2 Provide the PROJECT design and detailed construction plans and specifications (Plans) for WVWD's review and approval prior to construction of the PROJECT. Design shall be by a professional engineer registered in the State of California, done in accordance with the WVWD most recent Rules and Regulations and the WVWD's Standards for Domestic Water Facilities and Standard Drawings.
- 1.3 Act as the lead agency for any California Environmental Quality Act (CEQA) review and compliance.
- 1.4 Construct or cause the construction of the PROJECT in accordance with the approved Plans and at no cost to WVWD.
- 1.5 Pay one hundred percent (100%) of design and construction services and related costs.
- 1.6 Designate a representative who shall have the authority to discuss and attempt to resolve issues concerning the PROJECT with WVWD.
- 1.7 Own and maintain the Emergency Interconnection Facilities, including but not limited to the water meter. COUNTY, at its sole cost, shall annually test and calibrate said meter to within industry standards and provide such records to WVWD. COUNTY, at its sole cost, shall replace the meter as necessary.
- 1.8 Water delivered shall be measured and recorded at the interconnection by a water meter with the capacity of accurately measuring flow and totalizing volume.
- 1.9 Arrange for relocation of all utilities which interfere with construction of the PROJECT, subject to paragraph 3.10 below.
- 1.10 Advertise, award, and administer the construction of the PROJECT, in accordance with the provisions of the California Public Contract Code applicable to COUNTY and Labor Code Sections 1720 et seq. and 1770 et seq. regarding prevailing wages.
- 1.11 Utilize a contractor or subcontractor who is licensed under the laws of the State of California in the specialty Class of "C-34" Pipeline or Class "A" General Engineering.
- 1.12 Require its contractors to maintain and to comply throughout the term of any contract awarded by COUNTY with the insurance requirements described in COUNTY requirements.
- 1.13 Provide adequate inspection of all items of work performed under the construction contract(s) with COUNTY's contractors or subcontractors for the PROJECT and maintain adequate records of inspection and materials testing for review by WVWD. COUNTY shall provide copies of any records of inspection and materials testing to WVWD within ten (10) days of COUNTY's receipt of written demand from WVWD for such records. This shall be included as a PROJECT cost. COUNTY shall maintain these records for a period of three (3) years following completion of the PROJECT.
- 1.14 File a notice of completion with the San Bernardino County Recorder.
- 1.15 Provide all required easements for the Emergency Interconnection Facilities if any.

2.0 WVWD AGREES TO:

- 2.1 Review and approve in writing, within a reasonable time after submittal to WVWD, all design and detailed construction documents, specifications, and plans prepared by or on behalf of COUNTY prior to the beginning of the PROJECT. WVWD's review and approval of the plans and other documents shall not be deemed to be a representation or warranty as to compliance, or noncompliance, of any work with applicable laws, rules and regulations.
- 2.2 Approve or disapprove the Plans within a reasonable time after submittal to WVWD. In the event WVWD disapproves the Plans, COUNTY shall modify the Plans in accordance with the reasons given for disapproval and shall resubmit the revised Plans to WVWD for further review and approval. The foregoing review and approval procedure shall be continued until the Plans are approved by WVWD.
- 2.3 Own, operate and maintain the WVWD water infrastructure on WVWD's side of the Emergency Interconnection Facilities.
- 2.4 Open the valve at the Emergency Interconnection Facilities and provide water upon receipt of such request. WVWD shall have exclusive control over the opening and closing of the valves at the Emergency Interconnection.

3.0 IT IS MUTUALLY AGREED:

- 3.1 Parties shall require all contractors to comply with any and all applicable State wage and hour laws for the PROJECT.
- 3.2 The Parties hereby acknowledge that neither the Parties nor any employees of the Parties shall have any control over the method or means by which the contractor and its agents and employees perform the services contemplated in the PROJECT.
- 3.3 Notwithstanding any other provision of this Agreement, COUNTY may delegate or assign any or all of its obligations under Sections 1.1 through 1.15 to a third party selected by COUNTY in its sole discretion, provided that COUNTY shall remain responsible for compliance with such obligations as between WVWD and COUNTY.
- 3.4 Parties agree that there shall be no discrimination against or segregation of, any person or group of persons on account of any impermissible classification including, but not limited to, race, color, creed, religion, sex, marital status, sexual orientation, national origin, or ancestry in the performance of this Agreement. The Parties shall ensure their employees and the contractor's employees and agents are treated during employment without regard to their race, color, creed, religion, sex, marital status, sexual orientation, national origin, or ancestry.
- 3.5 COUNTY agrees to indemnify, defend (with counsel approved by WVWD), and hold harmless WVWD and its officers, employees, agents, and volunteers from any and all claims, actions or losses, damages, and/or liability resulting from COUNTY's negligent acts or omissions which arise from COUNTY's performance of its obligations under this Agreement.
- 3.6 WVWD agrees to indemnify, defend (with counsel approved by COUNTY), and hold harmless COUNTY and its officers, employees, agents and volunteers from any and all claims, actions, losses, damages and/or liability resulting from WVWD's negligent acts or omissions which arise from WVWD's performance of its obligations under this Agreement.
- 3.7 In the event the COUNTY and/or WVWD is found to be comparatively at fault for any claim, action, loss or damage which results from their respective obligations under the Agreement, the COUNTY and/or WVWD shall indemnify the other to the extent of its comparative fault.
- 3.8 In the event of litigation arising from this Agreement, each Party to the Agreement shall bear its own costs, including attorney(s) fees. This paragraph shall not apply to the costs or attorney(s) fees relative to paragraphs 3.5, 3.6, and 3.7.
- 3.9 COUNTY and WVWD are authorized self-insured public entities for purposes of Professional Liability, Automobile Liability, General Liability and Worker's Compensation, and warrant that through their respective programs of self-insurance

- they have adequate coverage or resources to protect against liabilities arising out of COUNTY and WVWD's performance of the terms, conditions or obligations of this Agreement.
- 3.10 In the case wherein one of the Parties owns a utility that needs to be relocated for the PROJECT and that Party does not have prior rights for that utility, it will be the sole responsibility of COUNTY to relocate the utility at the COUNTY's cost. This shall be included as a PROJECT cost.
- 3.11 This Agreement may be cancelled/terminated without cause upon thirty (30) days advance written notice of either Party, provided however, that neither Party may cancel/terminate this Agreement without cause after COUNTY awards a contract to construct the PROJECT. In the event of cancellation/termination as provided herein, all PROJECT expenses incurred prior to the effective date of cancellation/termination shall be paid by the COUNTY. The Parties recognize and agree that the provisions governing utility relocation and construction are dependent upon the Parties first satisfying CEQA. As provided in this paragraph, the Agreement may be cancelled with or without cause, before, during and after CEQA review/approval.
- 3.12 If either WVWD or COUNTY breaches any provision of this Agreement, the non-breaching party may give written notice to the breaching party by registered or certified mail detailing the breaching party's violations. If such violation is not corrected within 30 days from the date of the notice of violation or a reasonable period of time as may be required to cure the violation, whichever occurs last, the non-breaching party may, without further notice, declare the breaching party to be in breach of this Agreement. Upon such declaration, the non-breaching party may pursue any remedy available under local, state or federal law. This provision does not waive any applicable Government Code requirements concerning the presentation and consideration of claims.
- 3.13 Except for the Parties' indemnification obligations contained herein which shall survive termination, this Agreement shall terminate upon completion, and acceptance by WVWD, of the WVWD water infrastructure on WVWD's side of the Emergency Interconnection Facilities.
- 3.14 This Agreement contains the entire agreement of the Parties with respect to subject matter hereof, and supersedes all prior negotiations, understandings or agreements. No supplement, modification, or amendment of this Agreement shall be binding unless executed in writing and signed by both Parties.
- 3.15 This Agreement shall be governed by the laws of the State of California. Any action or proceeding between WVWD and COUNTY concerning the interpretation or enforcement of this Agreement, or which arises out of or is in any way connected with this Agreement or the PROJECT, shall be instituted and tried in the appropriate state court, located in the County of San Bernardino, California.
- 3.16 Time is of the essence for each and every provision of this Agreement.
- 3.17 Since the Parties or their agents have participated fully in the preparation of this Agreement, the language of this Agreement shall be construed simply, according to its fair meaning, and not strictly for or against any Party. The captions of the various articles and paragraphs are for convenience and ease of reference only, and do not define, limit, augment, or describe the scope, content, or intent of this Agreement.
- 3.18 No waiver of any default shall constitute a waiver of any other default or breach, whether of the same or other covenant or condition. No waiver, benefit, privilege, or service voluntarily given or performed by a Party shall give the other Party any contractual rights by custom, estoppel, or otherwise.
- 3.19 If a court of competent jurisdiction declares any portion of this Agreement invalid, illegal, or otherwise unenforceable, the remaining provisions shall continue in full force and effect, unless the purpose of this Agreement is frustrated.
- 3.20 No amendment to or modification of this Agreement shall be valid unless made in writing and approved by all Parties. The Parties agree that this requirement for

- 3.21 written modifications cannot be waived and that any attempted waiver shall be void. With the exception of the specific provisions set forth in this Agreement, there are no intended third-party beneficiaries under this Agreement and no such other third parties shall have any rights or obligations hereunder.
- 3.22 All privileges and immunities of the Parties provided by state or federal law shall remain in full force and effect.
- 3.23 This Agreement will be effective on the date signed and approved by both Parties.
- 3.24 The Recitals are incorporated into the body of this Agreement.
- 3.25 This Agreement shall inure to the benefit of and be binding upon the successors and assigns of both Parties.
- 3.26 This Agreement may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, and such counterparts shall together constitute one and the same Agreement. The parties shall be entitled to sign and transmit an electronic signature of this Agreement (whether by facsimile, PDF or other email transmission), which signature shall be binding on the party whose name is contained therein. Each party providing an electronic signature agrees to promptly execute and deliver to the other party an original signed Agreement upon request.

IN WITNESS WHEREOF, the San Bernardino County and West Valley Water District have each caused this Agreement to be subscribed by its respective duly authorized officers, on its behalf.

SAN BERNARDINO COUNTY

►

 Dawn Rowe, Chair, Board of Supervisors

Dated: _____
 SIGNED AND CERTIFIED THAT A COPY OF THIS DOCUMENT HAS BEEN DELIVERED TO THE CHAIRMAN OF THE BOARD

Lynna Monell
 Clerk of the Board of Supervisors
 San Bernardino County

B
 y _____
 Deputy

WEST VALLEY WATER DISTRICT

(Print or type name of corporation, company, contractor, etc.)
 B
 y ► _____
(Authorized signature - sign in blue ink)

Name _____
(Print or type name of person signing contract)

Title _____
(Print or Type)

Dated: _____

Address _____

FOR COUNTY USE ONLY

Approved as to Legal Form

 Aaron Gest, Deputy County Counsel
 Date _____

Reviewed for Contract Compliance

 Date _____

Reviewed/Approved by Department

 Date _____



**BOARD OF DIRECTORS
ENGINEERING, OPERATIONS AND PLANNING COMMITTEE
STAFF REPORT**

DATE: November 21, 2023
TO: Engineering, Operations and Planning Committee
FROM: Joanne Chan, Director of Operations
SUBJECT: ION EXCHANGE RESIN REPLACEMENT AT WELL 42

BACKGROUND:

Well 42 in the North Riverside Basin represents nearly 20% of the West Valley Water District's (District) groundwater resource and is the major source of the District's domestic water supply in the south system. Perchlorate was detected in Well 42 beginning in April 1999. A 2000-gallon-per-minute (gpm) wellhead ion exchange treatment system consisting of two trains (4 vessels) in a lead-lag configuration to remove perchlorate to non-detect levels was commissioned for Well 42 in 2003. Regular replacement of perchlorate removal resin is required to meet water quality requirements of the State Water Resources Control Board – Division of Drinking Water (DDW).

DISCUSSION:

PSR2 Plus strong base anion exchange resin manufactured by the Dupont Chemical Company is a DDW-permitted resin for use at the Well 42 ion exchange system and other District's ion exchange systems. Attached as **Exhibit A** is the DDW permit. This resin is specifically designed for selective removal of perchlorate from potable water. Evoqua is the exclusive provider of PSR2 Plus resin to the perchlorate removal market.

The scope of work consists of removing and disposing of exhausted resin from the two vessels and installing 318 cubic feet of resin per vessel for two vessels. Attached as **Exhibit B** is the cost proposal. See cost summary below:

| Fee Proposal | Total |
|--------------------|---------------------|
| Resin | \$177,908.28 |
| Labor | \$19,048.20 |
| Disposal | \$14,678.88 |
| Subtotal (w/o tax) | \$211,635.36 |
| Tax on resin only | \$14,232.66 |
| Total | \$225,868.02 |

FISCAL IMPACT:

This item is included in the Fiscal Year 2023/24 Operating Budget and will be funded from GL number 100-5320-530-5404 titled "Operating Supplies/Resin Exchange" with a budget of \$300,000.00.

STAFF RECOMMENDATION:

Staff recommends that the Committee forward a recommendation to the Board of Directors to issue a purchase order in the amount of \$225,868.02 to Evoqua Water Technologies for resin replacement.

Respectfully Submitted,

John Thiel

John Thiel, General Manager

JT:jc

ATTACHMENT(S):

1. Exhibit A - DDW Permit
2. Exhibit B - Cost Proposal

EXHIBIT A



State Water Resources Control Board

Division of Drinking Water

January 14, 2022

Van Jew
 Assistant General Manager
 West Valley Water District
 855 W. Base Line Road
 PO BOX 920
 Rialto, CA 92376
vjew@wwwd.org

Dear Mr. Jew:

USAGE OF ION EXCHANGE RESIN DOWEX PSR2 AT WELL 42 – WEST VALLEY WATER DISTRICT (SYSTEM NO. 3610004)

Division of Drinking Water (Division) received an email from the West Valley Water District (District) requesting approval to change perchlorate removal resin at Well 42 from CalRes TM2103 to DOWEX PSR2 Plus.

The existing treatment system consists of two trains (four vessels), each train arranged in series with each vessel containing approximately 318 cubic feet of resin. The proposed anion exchange resin (polystyrene divinylbenzene copolymer) to be used is manufactured by Dupont Chemical Company. This resin is specifically designed for selective removal of perchlorate from potable water. The resin is NSF Standard 61 certified and is not regenerated or reused.

Evoqua will pre-rinse the virgin resin in their Los Angeles resin handling facility for a minimum of 20 bed volumes. The resin will then be loaded into sterilized sluice vehicles dedicated for potable use, delivered to the site and then sluiced into each vessel. After the resin changeout, the District will sample for Coliform, Nitrate, Perchlorate, Nitrosamines, General Minerals, Inorganics, and General Physicals on day one at the ion exchange effluent and on Well 42 Influent (except Nitrosamines). On days one through eight, the District will sample for Nitrate & Perchlorate on all four vessels.

The Division has reviewed the request along with all supporting documents and determined that the DOWEX PSR2 Plus ion exchange resin to remove perchlorate at Well 42 is approved, subject to the following conditions:

E. JOAQUIN ESQUIVEL, CHAIR | EILEEN SOBECK, EXECUTIVE DIRECTOR

464 W. 4th Street, #437, San Bernardino, CA 92401 | www.waterboards.ca.gov

Van Jew

- 2 -

January 14, 2022

- 1) Within 24 hours after initiating the use of the virgin resin, nitrosamines shall be monitored. If there any of the following nitrosamines is detected, a follow-up sample shall be collected at the effluent after one month of operation.

N-Nitrosodiethylamine (NDEA)
 N-Nitrosomethylethylamine (NMEA)
 N-Nitrosodimethylamine (NDMA)
 N-Nitrosodi-n-propylamine (NDPA)
 N-Nitrosodi-n-butylamine (NDBA)
 N-Nitrosopyrrolidine (NPYR)
 N-Nitrosopiperidine (NPIP)
 N-Nitrosomorpholine (NMOR)

- 2) The new resin information used for the treatment system shall be updated in the operations and maintenance plan.
- 3) Once the new resin beds are ready to be put into service, the District shall perform startup procedures and sampling as outlines in the enclosure.
- 4) All permit conditions regarding Perchlorate Treatment Plant at Well 42 are in full effect.

If you have any questions, please contact Amy Kaur at (818) 551-2064 or Amy.Kaur@waterboards.ca.gov

Sincerely,

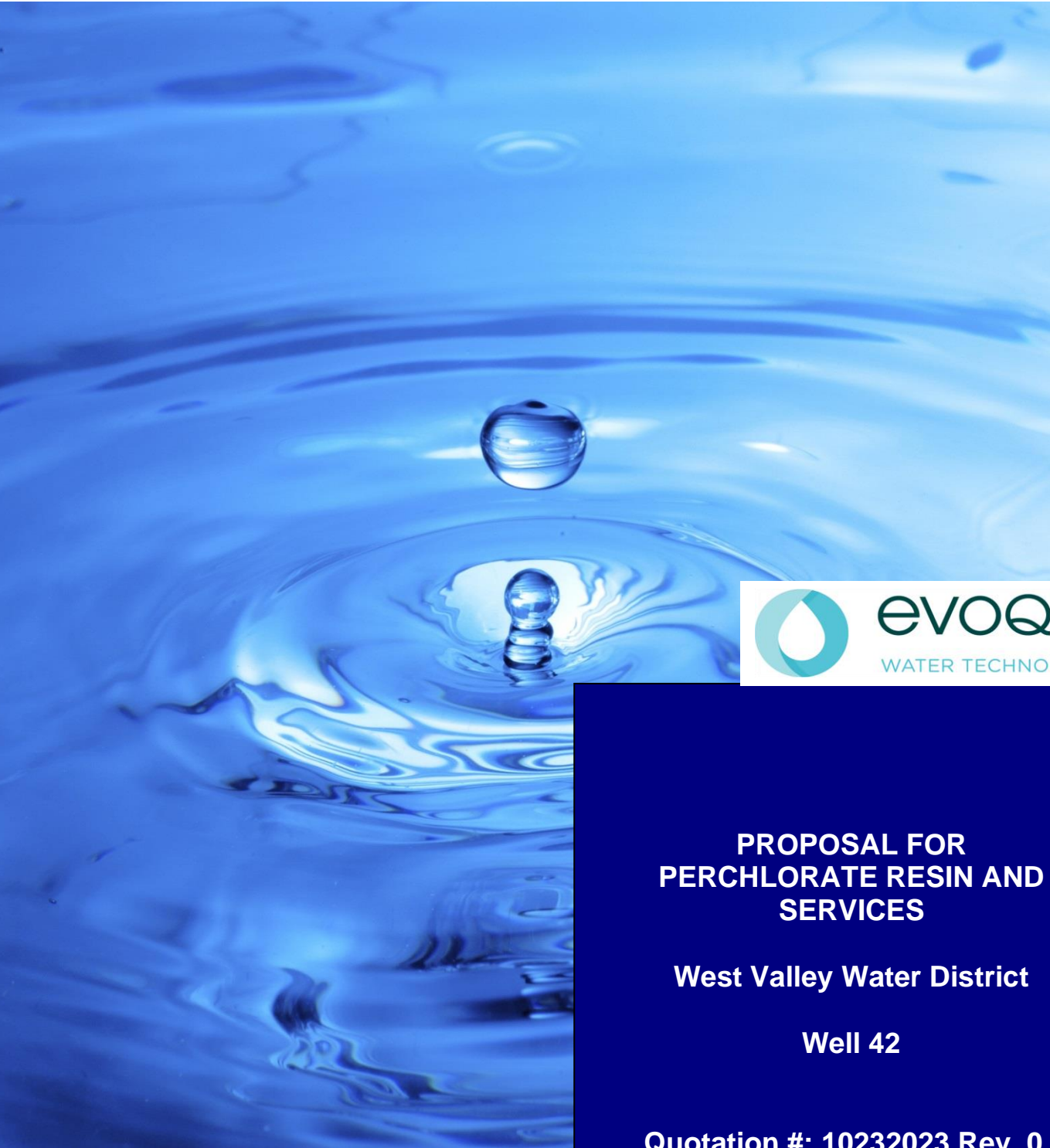
 Digitally signed by Wei H. Chang
 Date: 2022.01.14 13:23:23 -08'00'

Wei H. Chang, P.E.
 District Engineer
 San Bernardino District
 Southern California Field Operations Branch

Enclosure: Evoqua Resin Change Proposal, NSF 61 Certification, Safety Data Sheet, Startup Procedures

cc: Janet Harmon, Water Quality Supervisor, West Valley Water District,
jharmon@wvwd.org

EXHIBIT B



**PROPOSAL FOR
PERCHLORATE RESIN AND
SERVICES**

West Valley Water District

Well 42

**Quotation #: 10232023 Rev. 0
October 23, 2023**

Submitted to:
Joe Schaack
West Valley Water District
909-936-4584
jschaack@wwd.org

Evoqua Contact:
Patricia Tinnerino
Sales Engineer
Cell: 714-262-1560
Patricia.tinnerino@evoqua.com



Confidentiality Statement

This document and all information contained herein are the property of Evoqua Water Technologies LLC. The design concepts and information contained herein are proprietary to Evoqua Water Technologies LLC and are submitted in confidence. They are not transferable and must be used only for the purpose for which the document is expressly loaned. They must not be disclosed, reproduced, loaned or used in any other manner without the express written consent of Evoqua Water Technologies LLC. In no event shall they be used in any manner detrimental to the interest of Evoqua Water Technologies LLC. All patent rights are reserved. Upon the demand of Evoqua Water Technologies LLC, this document, along with all copies or extracts, and all related notes and analyses, must be returned to Evoqua Water Technologies LLC or destroyed, as instructed by Evoqua Water Technologies LLC. Acceptance of the delivery of this document constitutes agreement to these terms and conditions.

Terms and Conditions

In the event Evoqua Water Technologies LLC is the selected vendor for the products and services contemplated in the subject bid, Evoqua Water Technologies LLC desires to negotiate a mutually agreeable set of terms and conditions to govern such transaction (including issues such as warranty, indemnity, appropriate limitations of liability and other substantive terms and conditions). Evoqua Water Technologies LLC will not be obligated to supply products or services pursuant to such bid unless and until the parties have entered into an agreement with terms and conditions mutually agreed in writing by the parties.



#10232023.R0
Evoqua Water Technologies LLC

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I. **Transmittal/ Offer Letter**

October 23, 2023

Joe Schaack
West Valley Water District

Re: Proposal for Perchlorate Resin and Services at Well 42
PWTF – 295 East San Bernardino, Rialto, CA 92376

Dear Joe,

Thank you for this opportunity to submit this proposal for West Valley Water District. Evoqua Water Technologies, LLC, (EWT) is excited for the opportunity to provide resin services for your existing equipment at your wells and work with West Valley Water District to provide both short term and long-term solutions to the needs of your sites.

Evoqua appreciates the trust West Valley has put in Evoqua in years past as your resin supplier. We never stop trying to improve. Our focus is to provide excellent service to West Valley while ensuring safe and compliant drinking water. Evoqua is the exclusive provider of PSR2 Plus resin to the perchlorate removal market.

We have adjusted the proposal to reflect the same amount of resin that our invoicing system uses with 35.31 cu ft per supersack. We want to make sure the proposal matches the invoices exactly (318 cu ft per vessel versus the 320 cu ft provided in the 2017 RFP).

We feel that our offering will provide you with the best option due to the following reasons:

Experience – With numerous sites already installed in California and throughout the US, we have the experience working in conjunction with your team to provide quality on-going service to meet and exceed your requirements. You can rest assured that if selected Evoqua will provide complete and timely service.

Local Service – In the Los Angeles area we have four service branches with over 100 people including field service technicians, applications engineers, installation technicians, and management team, the largest and best field service team in Southern California, all of whom are Evoqua certified and trained employees. Of specific note:

- The two primary branches that would be supporting this site are less than 50 miles away.
- The engineering team, installation group and service team that would support this site are all located in the Los Angeles basin.
- One of the facilities has complete resin handling and disinfection capabilities. We encourage you to tour this facility.
- All service equipment that we will employ at your site is dedicated to the drinking water market and sited locally.
- EWT is a licensed CA state Contractor (***contractor's license #989497***).

Innovations – Evoqua is uniquely positioned to offer service and non-service innovations to the perchlorate market. 10% of our annual revenue is spent on research and development.



#10232023.R0
Evoqua Water Technologies LLC

- We continue to work with major resin suppliers to offer better once-through media solutions at reduced costs.
- We offer several non-media based solutions for the treatment of perchlorate and are investigating new non-media based solutions.

Thank you for allowing Evoqua this opportunity to be of service, we look forward to your consideration and the opportunity to review our presentation with your team. Please contact me at 714-262-1560 should you have any questions or if we may be of further assistance.

Regards,

Patricia Tinnerino
Sales Engineer
714-262-1560
Evoqua Water Technologies, LLC.



II. Statement of Qualifications, Experience, and References

EXPERIENCE WITH PERCHLORATE REMOVAL

Evoqua started to develop solutions to the perchlorate problem in California in the late 90's. We established a dedicated team to look at various methods to treat this water contaminant. The Evoqua team incorporated people from our operations, research, construction, field applications engineering and marketing groups across multiple product lines. Two existing technologies emerged from this team's work:

- Fluidized Bed Reactors
- Once Through Media – Ion Exchange Resin

These technologies have been approved by the California State Water Resource Control Board Department of Drinking Water.

Evoqua found that both approved technologies would produce water quality of a level that was below the new California Maximum Contaminant Level (MCL) of 6 ppb and usually non-detectable. Our studies also showed that the application of the ion exchange technology is dependent upon the level of perchlorate and the background anions present in the water. This is generally applied where the perchlorate influent concentration is <500 ppb. In keeping with maintaining "Good Environmental Stewardship", the once through ion exchange resin adsorbs the perchlorate and then allows for destruction of the perchlorate through destruction of the petroleum-based ion exchange resins, thus eliminating the "Cradle to Grave" responsibility for this material. There is no brine generated nor is there the need for brine connection fees. And with the pending brine disposal restriction (and/or elimination) rules, the liability for the brine waste material is eliminated.

From the operating histories of the listed perchlorate opportunities (above), Evoqua developed and corroborated an equilibrium model for prediction of perchlorate throughput capacity that is unsurpassed in the industry. Evoqua has provided a throughput guarantee based upon your water analysis and this model. Prior to development of your proposal, Evoqua used this model to select an ion exchange resin that is your best economic alternative for treatment of the perchlorate contamination at your well site.

NO USE OF SUBCONTRACTORS

Evoqua will utilize many entities within our organization to provide the required system services and does not require the use of subcontractors to provide the required services of the RFP. Evoqua believes that the in-house control of every aspect of any project allows for on time procurement, smooth delivery and effective system start-up.

OTHER ENTITIES ASSIGNED SIGNIFICANT RESPONSIBILITIES

Evoqua will not be using any other entities that will have assigned material responsibilities under the contract other than defined resin manufacturers to be discussed within this proposal.

RESIN AVAILABILITY

We have PSR-2 Plus in stock. We like to have two weeks' notice to schedule accordingly, but can work with your time frame.



CLIENT BASE - SELECTED OPERATING SYSTEMS IN CALIFORNIA

In California, Evoqua Water Technologies has been selected as the supplier of perchlorate reduction services to remove perchlorate from well sites for the following projects. A partial list of water purveyors employing Evoqua's resin services includes:

City of Rialto, Chino 2 Well

2003 to present

Used Dowex® 1 from 2003 until 2014 and then switched to Dowex® PSR-2. Perchlorate removal using on-site vessels at multiple sites. Product water used for municipal supply. DDW operating permit issued. Contact: Peter Fox

San Gabriel Valley Water Co. Well B-5

2009 to present 7800 gpm – Once through IX

Perchlorate removal using on-site vessels at multiple sites. Product water used for municipal supply. DDW operating permit issued. Contact: Oscar Ramos, 626-448-6183

San Gabriel Valley Water Co. Well B-6

2009 to present 7800 gpm – Once through IX

Perchlorate removal using on-site vessels at multiple sites. Product water used for municipal supply. Started up Mar 2013. Contact: Oscar Ramos, 626-448-6183

Rialto, Airport Well 3

GeoLogic and Associates, San Bernardino, CA

2007 –present: 1900 gpm – Once Through IX

Perchlorate removal at well site with one train of HP1220 vessels. DDW operating permit issued. Contact: Ralph Murphy, (909) 383-8728.

N. California Aerospace Co

Jan 02 - present: >6,000 gpm – Once Through IX

Removal of high levels of perchlorate in ground water for site remediation at multiple well sites, using portable vessels. Product water used for groundwater replenishment. Environmental operating permit by State issued. Contact: Chris Fennessy, 916-355-3341

La Puente Valley Well 2

2009 to present 2500 gpm – Once through IX

Perchlorate removal using on-site vessels at multiple sites. Product water used for municipal supply. DDW operating permit issued. Contact: Greg Galindo, (626) 330-2126

City of San Bernardino, Municipal Water Dept., San Bernardino, CA

Sept. 2013 start up; 2000 gpm – Once Through IX

Perchlorate removal for 1 wells with 1 trains of HP1220HF vessels. DDW Operating Permit. Contact: Mike Garland, (909) 379-2618



III. Statement of Work/Execution

EXECUTION SUMMARY

Evoqua Water Technologies, LLC is providing a service proposal for ion exchange resin used for perchlorate removal in the potable water system for the West Valley Water District. The existing equipment consists of two (2) trains (4 vessels) with each vessel containing approximately 318 cubic feet of resin. This proposal includes the following:

- Remove and incineration spent resin at Covanta. Pricing is subject to resin being approved for acceptance at this site. Additional fees may apply if a different site is required. We have a valid profile and can take the spent resin with us the day of service.
- Supply PSR2 Plus perchlorate-selective resin for exchange of two (2) vessels. 318 cu ft per vessel / 636 cu ft total.
- Resin will be prewashed at our facility with a minimum volume of 10 BVs
- Deliver and load PSR2 Plus perchlorate-selective resin in two (2) vessels.
- Perform BAC T and total Coliform analysis

ION EXCHANGE (IX) PROCESS DESCRIPTION

DESIGN CRITERIA

The proposed anion exchange resin (polystyrene divinylbenzene copolymer) to be used is PSR2 Plus strong base anion exchange resin, manufactured by The Dupont Chemical Company. This resin is specifically designed for selective removal of perchlorate from potable water. PSR2 Plus is a non-nitrate sloughing resin (the selectivity for nitrate is higher than for sulfate). Therefore there will be no nitrate spiking from newly bedded ion exchange vessels.

Source water will be fed to each vessel through the top, pass through the resin bed, and leave the vessel at the bottom (co-current flow). Perchlorate ions in the source water are replaced with chloride ions as the water passes through the bed.

Sterile virgin resin will be pre-rinsed in our Los Angeles resin handling facility for a minimum of 20 BVs, utilizing proprietary techniques, to minimize on-site rinse water requirements. The resin will then be loaded in sterilized sluice vehicles dedicated for potable use, delivered to the site and then sluiced into each vessel. This process will greatly reduce the amount of rinse waters required onsite. Super sacks or other resin vendor marked containers will not be brought on site.

This resin is not regenerated or reused. Evoqua will provide appropriate and legally compliant disposal of the spent resin at the Covanta incineration facility in Crow's Landing.



FEEDWATER DESCRIPTION

The following table outlines the water chemistry we have from historical data.

| Description | Well Data |
|------------------------------------|------------------|
| Operational Flow Rate | 1800 gpm |
| Operational Schedule | 24/7 |
| Daily Volume (ave) | 2,592,000 gpd |
| Perchlorate | 2.2 |
| Sulfate | 23 |
| Chloride | 8 |
| Nitrate | 25 |
| Alkalinity (as CaCO ₃) | 149 |

The two (2) trains are to be operated in a lead/lag arrangement.

Bacteria levels in the supply water are expected to be non-detect (<5 cfu/ml). The presence of bacteria in the supply water to the treatment system may result in increased pressure drop across the system, detectable bacteria in the system effluent and increased downtime due to sanitization requirements. It has been assumed that the bacteria levels from the wells and or the influent to the treatment system will have non-detect (<5 cfu/ml) levels of bacteria. If bacteria are found to be present in the wells you can purchase additional services from Evoqua that will kill the bacteria and also be compatible with the treatment system resin.

The product water will be delivered to the distribution system, through existing infrastructure, with perchlorate levels below 1 ppb.

PROCESS WASTE STREAMS

Resin will be preconditioned, rinsed, inspected, and readied for operation at our Los Angeles service facility, minimizing onsite rinse water requirements (provided by client).

A minimum 4" dechlorinated potable water or fire water source will be required at a line pressure of 60 psig or greater to supply a minimum of 350 gpm to provide water for sluicing.

Onsite rinse waters for resin transfer, rinsing, flushing and/or required disinfection of resin after an extended shutdown period or at any other time, will be disposed of via existing storm drains or other means, on site.



EQUIPMENT/MEDIA IN-SITU STERILIZATION AND LAY-UP

If resin sterilization is required due to bacterial growth, Evoqua can provide various proprietary processes to clean the resin. These include CDPH approved processes using either hydrogen peroxide or peracetic acid techniques. Details will be provided upon successful award of the service contract.

For shutdown or intermittent operation, the ion exchange system should remain completely full of water and the inlet and outlet should be sealed either by a valve or a cap. During temporary downtime, and prior to restarting the unit, the system should be rinsed on a daily basis using two to three bed volumes of water. Failure to rinse may result in a temporary presence of contaminated water at the outlet of the exchanger.

If the ion exchange system is shut down for an extended period of time, the following procedure should be followed to reduce potential degradation of bed life. Drain the system of all water. There should be no free standing water left in the vessel. All valves, manways and vents shall be tightly sealed for the duration of the shutdown to eliminate any supply of oxygen that would promote biological growth. Prior to re-commissioning the units, follow the start-up instructions included.

DISPOSAL OF RESIN

Per WVWD direction, EWT has quoted disposal of the exhausted resin at the Covanta incineration facility in Crow's Landing. Please note that pricing is based upon resin being declared non-hazardous. Pricing is subject to resin being approved for acceptance at these sites. Additional fees may apply if a different site is required. A valid profile is in place.

AIR SUPPLY

Compressed air will be supplied by Evoqua for media exchange.

ELECTRICAL UTILITY REQUIREMENTS

No additional electrical utilities are required for this service offering.



IV. Fee Proposal

| | \$/cu ft | Qty Resin | Total |
|------------------------|------------------|------------------|----------------------|
| Resin | \$ 279.73 | 636 | \$ 177,908.28 |
| Labor | \$ 29.95 | 636 | \$ 19,048.20 |
| Disposal | \$ 23.08 | 636 | \$ 14,678.88 |
| Subtotal (w/o tax) | \$ 332.76 | 636 | \$ 211,635.36 |
| Tax on resin only (8%) | \$ 22.38 | 636 | \$ 14,232.66 |
| Total | \$ 355.14 | 636 | \$ 225,868.02 |

COMMERCIAL TERMS

Delivery

- We have PSR-2 Plus in stock. We like to have two weeks' notice to schedule accordingly, but can work with your time frame.

Prices Do Not Include The Following:

- Permits
- Site preparation including developing a concrete pad, grouting, weather protection, etc.
- Offloading and installation of equipment

Also Please Note:

- Proposal pricing valid for 180 days from date of proposal.
- Evoqua Water Technologies LLC terms and conditions are attached hereto and are incorporated into this proposal by reference
- Terms of payment are net 30 days, 100% upon completion. Quoted terms are subject to credit approval.
- FOB factory, freight allowed to jobsite.
- Evoqua Water Technologies LLC's price does not include, and Evoqua Water Technologies LLC shall not be responsible for, any taxes, permits, tariffs, duties or fees (or any incremental increases to such taxes, permits, tariffs, duties or fees enacted by governmental agencies) unless specifically agreed herein or otherwise by Evoqua Water Technologies LLC in writing.



#10232023.R0
Evoqua Water Technologies LLC

V. **ATTACHMENTS**

Terms and Conditions
Contractor's License
DIR registration
PSR-2 Plus Data Sheet
PSR-2 Plus NSF

1. **Applicable Terms.** These terms govern the purchase and sale of equipment, products, related services, leased products, and media goods if any (collectively herein "Work"), referred to in Seller's proposal ("Seller's Documentation"). Whether these terms are included in an offer or an acceptance by Seller, such offer or acceptance is expressly conditioned on Buyer's assent to these terms. Seller rejects all additional or different terms in any of Buyer's forms or documents.
2. **Payment.** Buyer shall pay Seller the full purchase price as set forth in Seller's Documentation. Unless Seller's Documentation specifically provides otherwise, freight, storage, insurance and all taxes, levies, duties, tariffs, permits or license fees or other governmental charges relating to the Work or any incremental increases thereto shall be paid by Buyer. If Seller is required to pay any such charges, Buyer shall immediately reimburse Seller. If Buyer claims a tax or other exemption or direct payment permit, it shall provide Seller with a valid exemption certificate or permit and indemnify, defend and hold Seller harmless from any taxes, costs and penalties arising out of same. All payments are due within thirty (30) days after receipt of invoice. Buyer shall pay interest on all late payments not received by the due date. The Buyer shall be charged the lesser rate of 1 ½% interest per month or the maximum interest rate permissible under applicable law, calculated daily and compounded monthly. Buyer shall also reimburse Seller for all costs incurred in collecting amounts due but unpaid, including without limitation, collections fees and attorneys' fees. All orders are subject to credit approval by Seller. Back charges without Seller's prior written approval shall not be accepted.
3. **Delivery.** Delivery of the Work shall be in material compliance with the schedule in Seller's Documentation. Unless Seller's Documentation provides otherwise, delivery terms are FOB Shipping Point, or for international orders, ExWorks Seller's factory (INCO™ Terms 2020). Title to all Work shall pass upon receipt of payment for the Work under the respective invoice. Unless otherwise agreed to in writing by Seller, shipping dates are approximate only and Seller shall not be liable for any loss or expense (consequential or otherwise) incurred by Buyer or Buyer's customer if Seller fails to meet the specified delivery schedule.
4. **Ownership of Materials and Licenses.** All devices, designs (including drawings, plans and specifications), estimates, prices, notes, electronic data, software, and other information prepared or disclosed by Seller, and all related intellectual property rights, shall remain Seller's property. Seller grants Buyer a non-exclusive, non-transferable license to use any written material solely for Buyer's use of the Work. Buyer shall not disclose any such material to third parties without Seller's prior written consent. Buyer grants Seller a non-exclusive, non-transferable license to use Buyer's name and logo for marketing purposes, including but not limited to, press releases, marketing and promotional materials, and web site content.
5. **Changes.** Neither party shall implement any changes in the scope of Work described in Seller's Documentation without a mutually agreed upon change order. Any change to the scope of the Work, delivery schedule for the Work, any Force Majeure Event, any law, rule, regulation, order, code, standard or requirement which requires any change hereunder shall entitle Seller to an equitable adjustment in the price and time of performance. If Buyer requests a proposal for a change in the Work from Seller and subsequently elects not to proceed with the change, a change order shall be issued to reimburse Seller for reasonable costs incurred for estimating services, design services, and services involved in the preparation of proposed changes.
6. **Force Majeure Event.** Neither Buyer nor Seller shall have any liability for any breach or delay (except for breach of payment obligations) caused by a Force Majeure Event. If a Force Majeure Event exceeds six (6) months in duration, the Seller shall have the right to terminate the Agreement without liability, upon fifteen (15) days written notice to Buyer, and shall be entitled to payment, including overhead and profit, for work performed prior to the date of termination. "Force Majeure Event" shall mean events or circumstances that are beyond the affected party's control and could not reasonably have been easily avoided or overcome by the affected party and are not substantially attributable to the other party. Force Majeure Event may include, but is not limited to, the following circumstances or events: war, act of foreign enemies, terrorism, riot, strike, or lockout by persons other than by Seller or its sub-suppliers, natural catastrophes, (with respect to on-site work) unusual weather conditions, epidemic, pandemic, communicable disease outbreak, quarantines, national emergency, or state or local order.
7. **Warranty.** Subject to the following sentence, Seller warrants to Buyer that the (i) Work shall materially conform to the description in Seller's Documentation and shall be free from defects in material and workmanship and (ii) the Services shall be performed in a timely and workmanlike manner. Determination of suitability of treated water for any use by Buyer shall be the sole and exclusive responsibility of Buyer, and Seller disclaims any warranty regarding such suitability. The foregoing warranty shall not apply to any Work that is specified or otherwise demanded by Buyer and is not manufactured or selected by Seller, as to which (i) Seller hereby assigns to Buyer, to the extent assignable, any warranties made to Seller and (ii) Seller shall have no other liability to Buyer under warranty, tort or any other legal theory. The Seller warrants the Work, or any components thereof, through the earlier of (i) eighteen (18) months from delivery of the Work, or (ii) twelve (12) months from Buyer's initial operation of the Work, or in the case of services performed as part of the Work, ninety (90) days from the performance of the services (the "Warranty Period"). If Buyer gives Seller prompt written notice of breach of this warranty within the Warranty Period, Seller shall, at its sole option and as Buyer's sole and exclusive remedy, repair or replace the subject parts, re-perform the Service or refund the purchase price. Unless otherwise agreed to in writing by Seller, (i) Buyer shall be responsible for any labor required to gain access to the Work so that Seller can assess the available remedies and (ii) Buyer shall be responsible for all costs of installation of repaired or replaced Work. If Seller determines that any claimed breach is not, in fact, covered by this warranty, Buyer shall pay Seller its then customary charges for any repair or replacement made by Seller. Seller's warranty is conditioned on Buyer's (i) operating and maintaining the Work in accordance with Seller's instructions, (ii) not making any unauthorized repairs or alterations, and (iii) not being in default of any payment obligation to Seller. Seller's warranty does not cover (i) damage caused by chemical action or abrasive material, improper thermal or electrical capacity, misuse or improper installation (unless installed by Seller) and (ii) media goods (such as, but not limited to, resin, membranes, or granular activated carbon media) once media goods are installed. THE WARRANTIES SET FORTH IN THIS SECTION ARE THE SELLER'S SOLE AND EXCLUSIVE WARRANTIES AND ARE SUBJECT TO THE LIMITATION OF LIABILITY PROVISION BELOW. SELLER MAKES NO OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE.

8. **Indemnity.** Seller shall indemnify, defend, and hold Buyer harmless from any claim, cause of action, or liability incurred by Seller as a result of third-party claims for personal injury, death, or damage to tangible property, to the extent caused by Seller's negligence. Seller shall have the sole authority to direct the defense of and settle any indemnified claim. Seller's indemnification is conditioned on Buyer (i) promptly notifying Seller of any claim, and (ii) providing reasonable cooperation in the defense of any claim. Buyer shall indemnify, defend, and hold harmless Seller from any claim, cause of action, or liability incurred by Seller as a result of third-party claims for personal injury, death, or damage to tangible property, to the extent caused by Buyer's negligence. Buyer shall have the sole authority to direct the defense of and settle any such indemnified claim. Buyer's indemnification is conditioned on Seller (i) promptly notifying Buyer of any claim, and (ii) providing reasonable cooperation in the defense of any claim.

9. **Assignment.** Neither party may assign this Agreement, in whole or in part, nor any rights or obligations hereunder without the prior written consent of the other party; provided, however, the Seller may assign its rights and obligations under these terms to its affiliates or in connection with the sale or transfer of the Seller's business, and Seller may grant a security interest in the Agreement and/or assign proceeds of the agreement without Buyer's consent.

10. **Termination.** Either party may, in addition to any other available remedy, terminate this agreement for a material breach upon issuance of a written notice of the breach and expiration of a thirty (30) day cure period. In the event of (i) a voluntary or involuntary petition in bankruptcy, (ii) an assignment for the benefit of a creditor, or (iii) a receivership, liquidation, or dissolution, Seller may terminate the agreement immediately, in addition to seeking any other available remedy. If Buyer suspends an order without a change order for ninety (90) or more days, Seller may thereafter terminate this Agreement without liability, upon fifteen (15) days written notice to Buyer, and shall be entitled to payment for work performed, whether delivered or undelivered, prior to the date of termination.

11. **Dispute Resolution.** In the event of any claim, dispute, or controversy arising out of or relating in any way to this Agreement (collectively, a "Claim"), Seller and Buyer shall first negotiate in good faith in an effort to resolve the Claim. If, despite good faith efforts, the parties are unable to resolve a Claim through negotiations, the parties shall mediate the Claim in accordance with the commercial mediation procedures of the American Arbitration Association ("AAA"), with such mediation to take place in Pittsburgh, Pennsylvania. If the parties are unable to resolve the Claim through such mediation, then the Claim shall be resolved through final and binding arbitration pursuant to the commercial arbitration procedures of the AAA, with such arbitration to take place in Pittsburgh, Pennsylvania before one arbitrator, who shall have authority to rule on jurisdiction over the Claim. Seller and Buyer agree to the exclusive jurisdiction of the federal and state courts situated in Allegheny County, Pennsylvania for purposes of entering judgment upon the arbitrator's award. The substantially prevailing party, as determined by the arbitrator, shall be entitled to recover all costs, expenses, and charges, including, without limitation, reasonable attorneys' fees and expert witness fees, incurred in connection with the Claim. In case of an Agreement under which Seller ships the Work outside of the United States, or under which Seller's and Buyer's places of business are in different countries, any Claim which is not resolved by the good faith negotiations and mediation required by this Section shall then be determined by arbitration administered by the International Center for Dispute Resolution in accordance with its International Arbitration Rules, with such arbitration taking place in Pittsburgh, Pennsylvania, USA, before one arbitrator, with English as the language of the arbitration. This Agreement and any Claim shall be governed by the laws of the Commonwealth of Pennsylvania, without giving effect to the choice of law principles thereof.

12. **Export Compliance.** All items, and technologies, software, and work products are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations. Any diversion contrary to U.S. law is prohibited. Buyer acknowledges that Seller is required to comply with applicable export laws and regulations relating to the sale, exportation, transfer, assignment, disposal, and usage of the Work provided under this Agreement, including any export license requirements. Buyer agrees that such Work shall not at any time directly or indirectly be used, exported, sold, transferred, assigned, or otherwise disposed of in a manner which will result in non-compliance with such applicable export laws and regulations. It shall be a condition of the continuing performance by Seller of its obligations hereunder that compliance with such export laws and regulations be maintained at all times. BUYER AGREES TO INDEMNIFY AND HOLD SELLER HARMLESS FROM ANY AND ALL COSTS, LIABILITIES, PENALTIES, SANCTIONS AND FINES RELATED TO NON-COMPLIANCE WITH APPLICABLE EXPORT LAWS AND REGULATIONS.

13. **Anti-Kickback Statute – Discounts.** It is the intent of both Buyer and Seller to comply with the Anti-Kickback Statute (42 U.S.C. §1320a-7b(b)) and the Discount Safe Harbor and Warranties Safe Harbor regulations set forth in 42 C.F.R. 1001.952(h) and (g), respectively. Buyer's price may constitute a 'discount or other reduction in price' under the Anti-Kickback Statute. Seller shall provide Buyer with invoices that fully and accurately disclose the discounted price of all Products purchased under this Agreement to allow Buyer to comply with this Section and the Discount Safe Harbor regulations, including sufficient information to enable it to accurately report its actual cost for all purchases of Products. Buyer acknowledges that, if applicable, it will fully and accurately report all discounts or other price reductions, including warranty items, in the costs claimed or charges made under any Federal or State healthcare program and provide information upon request to third party reimbursement programs, including Medicare and Medicaid. Buyer will be solely responsible for determining whether any savings or discount or warranty item it receives must be reported or passed on to payors.

14. **Federal Program Participation.** Seller represents and warrants that neither it nor any of its current directors, officers, or key personnel: (i) are currently excluded, debarred or otherwise ineligible to participate in federal health care programs as defined in 42 U.S.C. §1320a-7b(f) (the "**Federal Healthcare Programs**"); (ii) have been convicted of a criminal offense related to the provision of healthcare items or services during the last five (5) years; or (iii) have been excluded, debarred or otherwise declared ineligible to participate during the last five (5) years in Federal Healthcare Programs. Seller will notify Buyer of any change in the status of the representations and warranties set forth above.

15. **LIMITATION OF LIABILITY.** NOTWITHSTANDING ANYTHING ELSE TO THE CONTRARY, SELLER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, PUNITIVE OR OTHER INDIRECT DAMAGES, AND SELLER'S TOTAL LIABILITY ARISING AT ANY TIME FROM THE SALE OR USE OF THE WORK, INCLUDING WITHOUT LIMITATION ANY LIABILITY

FOR ALL WARRANTY CLAIMS OR FOR ANY BREACH OR FAILURE TO PERFORM ANY OBLIGATION UNDER THE AGREEMENT SHALL NOT EXCEED THE PURCHASE PRICE PAID FOR THE WORK. THESE LIMITATIONS APPLY WHETHER THE LIABILITY IS BASED ON CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER THEORY.

16. **Miscellaneous.** These terms, together with any related Contract Documents issued or signed by the Seller, comprise the complete and exclusive statement of the agreement between the parties (the "Agreement") and supersede any terms contained in Buyer's documents, unless separately signed by Seller. No part of the Agreement may be changed or cancelled except by a written document signed by Seller and Buyer. No course of dealing or performance, usage of trade or failure to enforce any term shall be used to modify the Agreement. To the extent the Agreement is considered a subcontract under Buyer's prime contract with an agency of the United States government, in case of Federal Acquisition Regulations (FARs) flow down terms, Seller will be in compliance with Section 44.403 of the FAR relating to commercial items and those additional clauses as specifically listed in 52.244-6, Subcontracts for Commercial Items (OCT 2014). If any of these terms is unenforceable, such term shall be limited only to the extent necessary to make it enforceable, and all other terms shall remain in full force and effect. The Agreement shall be governed by the laws of the Commonwealth of Pennsylvania without regard to its conflict of laws provisions. Both Buyer and Seller reject the applicability of the United Nations Convention on Contracts for the international sales of goods to the relationship between the parties and to all transactions arising from said relationship.

Only in the event that the Work contemplated in this Order is related to the provision of medical devices, the following additional terms apply:

17. **Medical Devices Act and Regulatory Disclaimer.** Buyer acknowledges that it is familiar with the U.S. Safe Medical Devices Act of 1990 (the "Devices Act") and the reporting obligations imposed on device users thereunder. In this regard, Buyer agrees to notify Seller within ten (10) days of the occurrence of any event identified in the Devices Act imposing a reporting obligation on Buyer and/or Seller (except for events representing an imminent hazard that require notification to the United States Food and Drug Administration (the "FDA") within seventy-two (72) hours (or such shorter time as required by law), in which case, such notice will be delivered to the FDA and Seller within said period). Buyer will maintain adequate tracking for the Products to enable Seller to meet the FDA requirements applicable to the tracking of medical devices. Although Seller has the required registrations, approvals, and licenses (e.g., U.S. 510(k) pre-market notifications) for all or substantially all of its systems, the purchase of parts and system components from Seller does not provide 510(k) compliance or compliance under any other law, rule or regulation for Buyer's system.

Only in the event that the Work contemplated in this Order is related to the provision of leased or rented equipment ("Leased Equipment"), the following additional terms apply:

18. **Rental Equipment / Services.** Any Leased Equipment provided by Seller shall at all times be the property of Seller with the exception of certain miscellaneous installation materials purchased by the Buyer, and no right or property interest is transferred to the Buyer, except the right to use any such Leased Equipment as provided herein. Buyer agrees that it shall not pledge, lend, or create a security interest in, part with possession of, or relocate the Leased Equipment. Buyer shall be responsible to maintain the Leased Equipment in good and efficient working order. At the end of the initial term specified in the order, the terms shall automatically renew for the identical period unless canceled in writing by Buyer or Seller not sooner than three (3) months nor later than one (1) month from termination of the initial order or any renewal terms. Upon any renewal, Seller shall have the right to issue notice of increased pricing which shall be effective for any renewed terms unless Buyer objects in writing within fifteen (15) days of issuance of said notice. If Buyer timely cancels service in writing prior to the end of the initial or any renewal term this shall not relieve Buyer of its obligations under the order for the monthly rental service charge which shall continue to be due and owing. Upon the expiration or termination of this Agreement, Buyer shall promptly make any Leased Equipment available to Seller for removal. Buyer hereby agrees that it shall grant Seller access to the Leased Equipment location and shall permit Seller to take possession of and remove the Leased Equipment without resort to legal process and hereby releases Seller from any claim or right of action for trespass or damages caused by reason of such entry and removal.



Contractor's License Detail for License # 989497

DISCLAIMER: A license status check provides information taken from the CSLB license database. Before relying on this information, you should be aware of the following limitations.

- ▶ CSLB complaint disclosure is restricted by law ([B&P 7124.6](#)) If this entity is subject to public complaint disclosure click on link that will appear below for more information. Click [here](#) for a definition of disclosable actions.
- ▶ Only construction related civil judgments reported to CSLB are disclosed ([B&P 7071.17](#)).
- ▶ Arbitrations are not listed unless the contractor fails to comply with the terms.
- ▶ Due to workload, there may be relevant information that has not yet been entered into the board's license database.

Data current as of 2/16/2022 9:04:01 AM

Business Information

EVOQUA WATER TECHNOLOGIES LLC
 1828 METCALF AVE
 ATTN HARRY BRYANT
 THOMASVILLE, GA 31792
 Business Phone Number:(229) 227-8713

Entity Ltd Liability
Issue Date 01/03/2014
Expire Date **01/31/2024**

License Status

This license is current and active.

All information below should be reviewed.

Classifications

A - GENERAL ENGINEERING

Bonding Information

Contractor's Bond

This license filed a Contractor's Bond with [WESTCHESTER FIRE INSURANCE COMPANY](#).

Bond Number: K09065623

Bond Amount: \$15,000

Effective Date: 01/01/2016

[Contractor's Bond History](#)

LLC EMPLOYEE/WORKER BOND

This license filed a LLC Employee/Worker Bond with [WESTCHESTER FIRE INSURANCE COMPANY](#).

Bond Number: K0906641A

Bond Amount: \$100,000

Effective Date: 06/20/2014

[LLC Employee/Worker Bond History](#)

Bond of Qualifying Individual

This license filed Bond of Qualifying Individual number **K09066378** for HARRY BRYANT JR in the amount of **\$12,500** with [WESTCHESTER FIRE INSURANCE COMPANY](#).

Effective Date: 06/20/2014

[BQI's Bond History](#)

Workers' Compensation

This license has workers compensation insurance with the [AMERICAN ZURICH INSURANCE COMPANY](#)

Policy Number: WC037858102

Effective Date: 12/31/2021

Expire Date: 12/31/2022

[Workers' Compensation History](#)

Liability Insurance Information

This license has liability insurance with [EVEREST INDEMNITY INSURANCE COMPANY](#)

Policy Number: CF8GL00274211

Amount: \$1,000,000

Effective Date: 12/31/2021

Expiration Date: 12/31/2022

[Liability Insurance History](#)

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Contractor Information

Legal Entity Name
EVOQUA WATER TECHNOLOGIES LLC

Legal Entity Type
LLC

Status
Active

Registration Number
1000012718

Registration effective date
7/1/2023

Registration expiration date
6/30/2024

Mailing Address
1441 EAST WASHINGTON BLVD LOS ANGELES 90021 C...

Physical Address
1441 EAST WASHINGTON BLVD LOS ANGELES 90021 C...

Email Address

Trade Name/DBA

License Number(s)
CSLB:989497
CSLB:989497

Registration History

| Effective Date | Expiration Date |
|----------------|-----------------|
| 6/19/2018 | 6/30/2019 |
| 6/8/2017 | 6/30/2018 |
| 6/29/2016 | 6/30/2017 |
| 9/29/2015 | 6/30/2016 |
| 2/27/2015 | 6/30/2015 |
| 7/1/2019 | 6/30/2020 |
| 7/1/2020 | 6/30/2021 |
| 7/1/2021 | 6/30/2022 |
| 7/1/2022 | 6/30/2023 |
| 7/1/2023 | 6/30/2024 |

Legal Entity Information

Corporation Number:
result[iCtr].License_RegistrationRoot.Registration_Accounts__[regAccts].Corp_or_LLC_ID__c

Federal Employment Identification Number:Member Name(s):

Agent of Service Name:
CT Corporation System

Agent of Service Mailing Address:
818 West Seventh St. Los Angeles 90017 CA United States of America

Workers Compensation

Do you lease employees No
through Professional Employer Organization (PEO)?:
Please provide your current workers compensation insurance information below:

| PEO Information | PEO Name | PEO Phone | PEO Email |
|-----------------|----------|-----------|-----------|
|-----------------|----------|-----------|-----------|

Insured by Carrier

Policy Holder Name:Evoqua Water Technologies LLC**Insurance Carrier:**
AMERICAN ZURICH INSURANCE COMPANY**Policy Number:**WC 037858103**Inception date:**
12/31/2022**Expiration Date:**12/31/2023



Product Data Sheet

AmberLite™ PSR2 Plus Ion Exchange Resin

Drinking Water-grade, Uniform Particle Size, Gel, Strong Base Anion Resin for Selective Perchlorate Removal

Description

AmberLite™ PSR2 Plus Ion Exchange Resin is a strong base anion exchange resin for the selective removal of perchlorate and per- and polyfluoroalkyl substances (PFAS) from potable water.

The resin offers exceptional selectivity for perchlorate and a high affinity for PFAS. The physical characteristics of AmberLite™ PSR2 Plus, a gel resin with a uniform particle size, afford high operating capacity and lower pressure losses compared to conventional perchlorate removal resins.

Applications

- Potable water treatment
 - Perchlorate removal
 - Per- and polyfluoroalkyl substances (PFAS) removal

Typical Properties

Physical Properties

| | |
|------------------|---|
| Copolymer | Styrene-divinylbenzene |
| Matrix | Gel |
| Type | Strong base anion |
| Functional Group | Tri-n-butyl amine |
| Physical Form | White to yellow, translucent, spherical beads |

Chemical Properties

| | |
|--------------------------|-----------------|
| Ionic Form as Shipped | Cl ⁻ |
| Total Exchange Capacity | ≥ 0.7 eq/L |
| Water Retention Capacity | 25 – 35% |

Particle Size[§]

| | |
|------------------------|-------------|
| Particle Diameter | 700 ± 50 µm |
| Uniformity Coefficient | ≤ 1.1 |
| < 300 µm | ≤ 1% |

Stability

| | |
|-----------------------|-------|
| Whole Uncracked Beads | ≥ 95% |
| Friability | |
| > 200 g/bead | ≥ 90% |

Density

| | |
|-----------------|---------|
| Shipping Weight | 690 g/L |
|-----------------|---------|

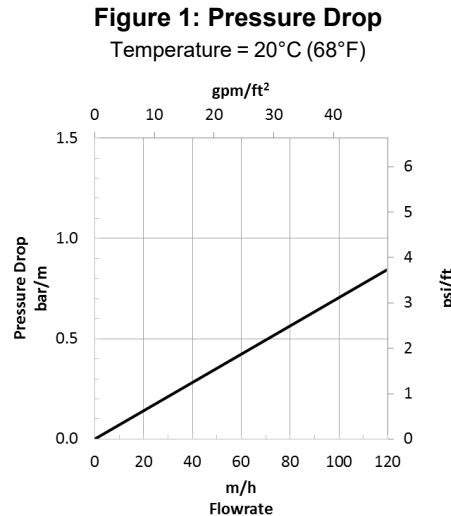
§ For additional particle size information, please refer to the [Particle Size Distribution Cross Reference Chart](#) (Form No. 45-D00954-en).

Suggested Operating Conditions

| | |
|-------------------------------|--------------|
| Maximum Operating Temperature | 60°C (140°F) |
| pH Range | 0 – 14 |

Hydraulic Characteristics

Estimated pressure drop for AmberLite™ PSR2 Plus Ion Exchange Resin as a function of service flowrate at 20°C (68°F) is shown in Figure 1. These pressure drop expectations are valid at the start of the service run with clean water. Estimated pressure drop at other water temperatures can be calculated with the provided equations.



For other temperatures use:

$$P_T = P_{20^\circ\text{C}} / (0.026T_{\text{C}} + 0.48), \text{ where } P \equiv \text{bar/m}$$

$$P_T = P_{68^\circ\text{F}} / (0.014T_{\text{F}} + 0.05), \text{ where } P \equiv \text{psi/ft}$$

Conditioning and Limits of Use

AmberLite™ PSR2 Plus Ion Exchange Resin is suitable for use in potable water applications ¹ after an initial commissioning pretreatment at ambient temperature.

¹ Please confirm the regulatory approval in your specific country of use.

Product Stewardship

DuPont has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with DuPont products—from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

DuPont strongly encourages its customers to review both their manufacturing processes and their applications of DuPont products from the standpoint of human health and environmental quality to ensure that DuPont products are not used in ways for which they are not intended or tested. DuPont personnel are available to answer your questions and to provide reasonable technical support. DuPont product literature, including safety data sheets, should be consulted prior to use of DuPont products. Current safety data sheets are available from DuPont.

Please be aware of the following:

- **WARNING:** Oxidizing agents such as nitric acid attack organic ion exchange resins under certain conditions. This could lead to anything from slight resin degradation to a violent exothermic reaction (explosion). Before using strong oxidizing agents, consult sources knowledgeable in handling such materials.

Regulatory Note

These products may be subject to drinking water application restrictions in some countries; please check the application status before use and sale.

Have a question? Contact us at:

www.dupont.com/water/contact-us

All information set forth herein is for informational purposes only. This information is general information and may differ from that based on actual conditions. Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where DuPont is represented. The claims made may not have been approved for use in all countries. Please note that physical properties may vary depending on certain conditions and while operating conditions stated in this document are intended to lengthen product lifespan and/or improve product performance, it will ultimately depend on actual circumstances and is in no event a guarantee of achieving any specific results. DuPont assumes no obligation or liability for the information in this document. References to "DuPont" or the "Company" mean the DuPont legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. No freedom from infringement of any patent or trademark owned by DuPont or others is to be inferred.

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Water Quality Association

10/14/2022



CERTIFIED DRINKING WATER SYSTEM COMPONENTS

NSF/ANSI/CAN 61 - 2021: Drinking Water System Components - Health Effects

DDP Specialty Electronic Materials US, LLC

2200 West Salzbury Road
Midland, MI 48686
United States

<http://www.dupont.com> (<http://www.dupont.com>)

Product Type: Ion Exchange Resin

| Brand Name | Model | Water Contact Temp | Water Contact Material | Size |
|------------|---|--------------------|------------------------|--------------|
| AMBERLITE™ | PSR-2 Ion Exchange Resin ¹ ₂ | Cold (23C) | Various | 16x50 mesh |
| AMBERLITE™ | PSR2 Plus (Cl) Ion Exchange Resin ¹ ₂ | Cold (23C) | Various | 0.5 - 0.9 mm |

¹ Product approved for both residential point of entry and water treatment plant application end uses.

² For POE applications, soak with water for 1 hour. Then, rinse 20 bed volumes (BV) with RO/DI water at 10BV/hr (2 hours at 0.14 gpm). For water treatment applications, soak with water for 1 hour. Then, rinse 20 bed volumes (BV) (12 gallons) with RO/DI water at 10 BV/hour.



**BOARD OF DIRECTORS
ENGINEERING, OPERATIONS AND PLANNING COMMITTEE
STAFF REPORT**

DATE: November 21, 2023
TO: Engineering, Operations and Planning Committee
FROM: Linda Jadeski, Director of Engineering
SUBJECT: RIGHT OF ENTRY DURING CONSTRUCTION AND LICENSE FOR PIPELINE LOCATION WITH IDIL WEST VALLEY LOGISTICS CENTER, LP

BACKGROUND:

IDIL West Valley Logistics Center, LP, (“Developer”) is the owner of land located west of Locust Avenue, north of Armstrong Road, east of Alder Avenue and south of Jurupa Avenue in the City of Fontana known as the West Valley Logistics Center (“Development”). The proposed Development includes the construction and operation of six (6) warehouses across sixteen (16) parcels of vacant land and (1) former West Valley Water District (“District”) parcel known as APN 0256-131-10. In developing this land, the Developer is required to construct multiple district facilities within pressure zones 2 and 3, which will include new 12-inch, 16-inch, and 24-inch watermains, pressure zones 2 and 3 pressure regulating station, fire hydrants, water services etc.

As part of the Development conditions, during grading operations, the Developer was conditioned to protect-in-place existing 12-inch common inlet/outlet watermain to District’s reservoir R2-3 which currently traverses through APN 0256-131-10 (“Developer’s Property”). Based on the Hydraulic Analysis performed in October, 2020, it was determined that the above-mentioned 12-inch watermain needs to be upsized to 24-inch, which the Developer agreed to. As part of the said development, Developer desires to remove certain facilities of the District currently located within the Developer Property and relocate them to a new easement provided by the Developer in an area outside of the Developer Property.

In addition, due to the ongoing grading operations, the Developer desires to obtain a right of ingress and egress to and from District owned property (APN 0256-131-17), which is adjacent to the Developer’s Property. The developer desired to obtain said right-of-entry, for a certain period of time, in order to gain access to the Developer’s Property during development of the West Valley Logistics Center.

DISCUSSION:

The District and the Developer desire to enter into this Right of Entry during Construction and License for Pipeline Location Agreement (“Agreement”), which will allow the operation and

protection of the existing watermain, relocation of the new 24-inch pipeline to a new easement provided by the Developer outside of the Developer Property. This Agreement will also allow the Developer the Right of Entry to use District's property during construction activities for ingress and egress. Moreover, if any portion of the Right of Entry area is damaged by, or in connection with Developer's activities, the Developer shall, at its sole cost, and to the reasonable satisfaction of the District, repair any and all such damage and restore the subject are to the its previous condition. Attached as Exhibit A is a copy of the Right of Entry Agreement for this project.

FISCAL IMPACT:

This action does not result in any fiscal impact.

STAFF RECOMMENDATION:

Staff recommends that the Committee forward a recommendation to the Board of Directors to:

1. Authorize entering into a Right of Entry during Construction and License for Pipeline Location Agreement with IDIL West Valley Logistics Center, LP.
2. Authorize the General Manager to execute all necessary documents.

Respectfully Submitted,

John Thiel

John Thiel, General Manager

SN:ls

ATTACHMENT(S):

1. Exhibit A - Right of Entry During Construction and License for Pipeline Location.doc

EXHIBIT A

RIGHT OF ENTRY DURING CONSTRUCTION
AND
LICENSE FOR PIPELINE LOCATION

THIS RIGHT OF ENTRY DURING CONSTRUCTION AND LICENSE FOR PIPELINE LOCATION (collectively referred to as “Agreement”) is entered into this ____ day of December, 2023 by and between the WEST VALLEY WATER DISTRICT, a public agency (“WVWD”) and IDIL WEST VALLEY LOGISTICS, LP, a Delaware limited partnership (“Developer”).

RECITALS

A. The parties previously entered into that certain Agreement For Purchase And Sale Of Property, dated as of July 17, 2023, whereby WVWD agreed to sell property to Developer which is referred to as APN 0256-131-10 and more particularly described in Exhibit “A” attached hereto and incorporated herein by reference (“Developer Property”); and

B. Developer is in the process of developing the West Valley Logistics Center on the Developer Property. As part of said development, Developer desires to remove certain facilities of WVWD currently located within the Developer Property and relocate them to a new easement provided by Developer in an area outside of the Developer Property. WVWD desires to obtain and maintain the real property interest of a license in order to operate, repair and maintain said facilities currently located within the Developer Property until completion of the relocation work; and

C. Developer desires to obtain a right of ingress and egress to and from certain property owned by WVWD, which is adjacent to the Developer Property, and is referred to as APN 0256-131-17 (“WVWD Property”). The WVWD Property is shown in Exhibit “B” attached hereto and incorporated herein by reference. Developer desires to obtain said right-of-entry, for a certain period of time, in order to gain access to the Developer Property during development of the West Valley Logistics Center; and

D. The parties desire to enter into this Agreement in order to provide for the mutual covenants and consideration for the granting of property interests by and between the parties.

NOW, THEREFORE, the parties agree as follows:

1. GRANT OF RIGHT OF ENTRY DURING CONSTRUCTION

(a) Right of Entry and Activities WVWD hereby grants and conveys to Developer, its employees, agents and contractors, a non-exclusive temporary construction right-of-entry (“Right Of Entry”) for performance of certain construction activities (“Activities”). Developer or its contractors shall provide

notice to WVWD at least forty-eight (48) hours prior to the initial entry upon the Right of Entry area. Developer or its contractors shall also notify WVWD upon completion of the Activities. The Activities shall be limited to the following:

(i) The travel of heavy grading vehicles across the WVWD Property for access to the Developer Property. It is anticipated that there will be approximately six (6) vehicles crossing the WVWD Property per day as well as the use of vehicles for concrete pours once a week.

(ii) The placement and use of a temporary water line across the WVWD Property for connection to a water tank to be located on the Developer Property.

(b) Location Said Right of Entry shall lie in, over, under, upon, along, through and across the WVWD Property as described in Exhibit “B” and shall include the right to enter upon and to pass and re-pass over and along said area for performance of the Activities.

(c) Term and Termination This Right Of Entry shall continue in full force and effect until thirty (30) days after a Notice of Completion is recorded with the County of San Bernardino for development of the West Valley Logistics Center. Upon the occurrence of this event, this Right Of Entry shall automatically terminate immediately and become null and void.

(i) Notwithstanding the foregoing, this Right Of Entry may be terminated at an earlier date upon the determination by both parties that the Activities are no longer needed.

(ii) Notwithstanding the foregoing, this Right Of Entry may be terminated by WVWD if it determines, in its reasonable discretion, that the use of the Right Of Entry is in excess of the scope of the Activities. WVWD shall provide thirty (30) days advance written notice of its determination and the parties shall then engage in good faith negotiations during said 30-day period to resolve any dispute regarding the scope of the Activities.

(d) Repairs If any portion of the Right Of Entry area is damaged by, or in connection with, the Activities, Developer shall, at its sole cost, and to the reasonable satisfaction of WVWD, repair any and all such damage and restore the subject area to its previous condition.

2. GRANT OF LICENSE FOR PIPELINE LOCATION

(a) Grant of License Developer hereby grants to WVWD, its employees, agents and contractors, a license (“License”) in, on, over, under and across that portion of the Developer Property, as illustrated in Exhibit “A.”

(b) Use The License includes the right to reconstruct, operate, maintain, and/or repair a water pipeline together with any and all appurtenances thereto; together with the perpetual right of ingress and egress for the purpose of exercising the rights granted herein. As a condition of this grant of a License, Developer reserves the right to use such land for purposes that will not interfere with WVWD's full enjoyment of the rights hereby granted.

(c) Term The term of this License shall begin on the date of full execution of this Agreement by both parties and continue until completion of the relocation work by Developer as described in Recital B.

(d) Termination of License Upon Default. In the event WVWD fails to comply with any material obligations imposed upon WVWD hereunder and fails to cure such default within thirty (30) days after the date of receipt of written notice of default from Developer (or if such default cannot reasonably be cured within such thirty (30) period, WVWD's failure to commence a cure within such period and diligently thereafter pursue such cure to completion), Developer shall have the right to terminate this License upon ten (10) days' written notice of termination to WVWD.

3. INDEMNIFICATION

Each party ("Indemnitor") shall indemnify, defend and hold harmless the other party ("Indemnitee") from and against any and all damage or liability arising from Indemnitor's performance of this Agreement. Notwithstanding the foregoing, said indemnification and hold harmless obligation shall not apply to any damage or liability caused by the gross negligence or willful misconduct of Indemnitee.

4. GENERAL PROVISIONS

(a) This Agreement may be executed in one or more counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same instrument.

(b) The individuals executing this Agreement on behalf of their respective parties represent that they are authorized to do so by requisite action of their respective parties.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date first written above.

(signatures are on the following page)

WEST VALLEY WATER DISTRICT

By: _____
John A. Thiel, PE, MBA
General Manager

IDIL WEST VALLEY LOGISTICS, LP

By: _____
Charles McPhee
SVP and Regional Director

EXHIBIT "A"

Developer Property and License

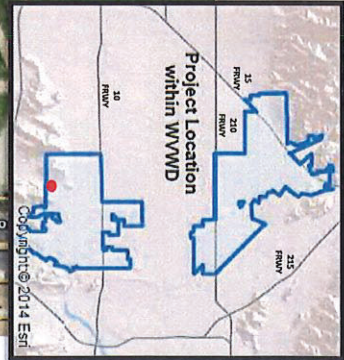
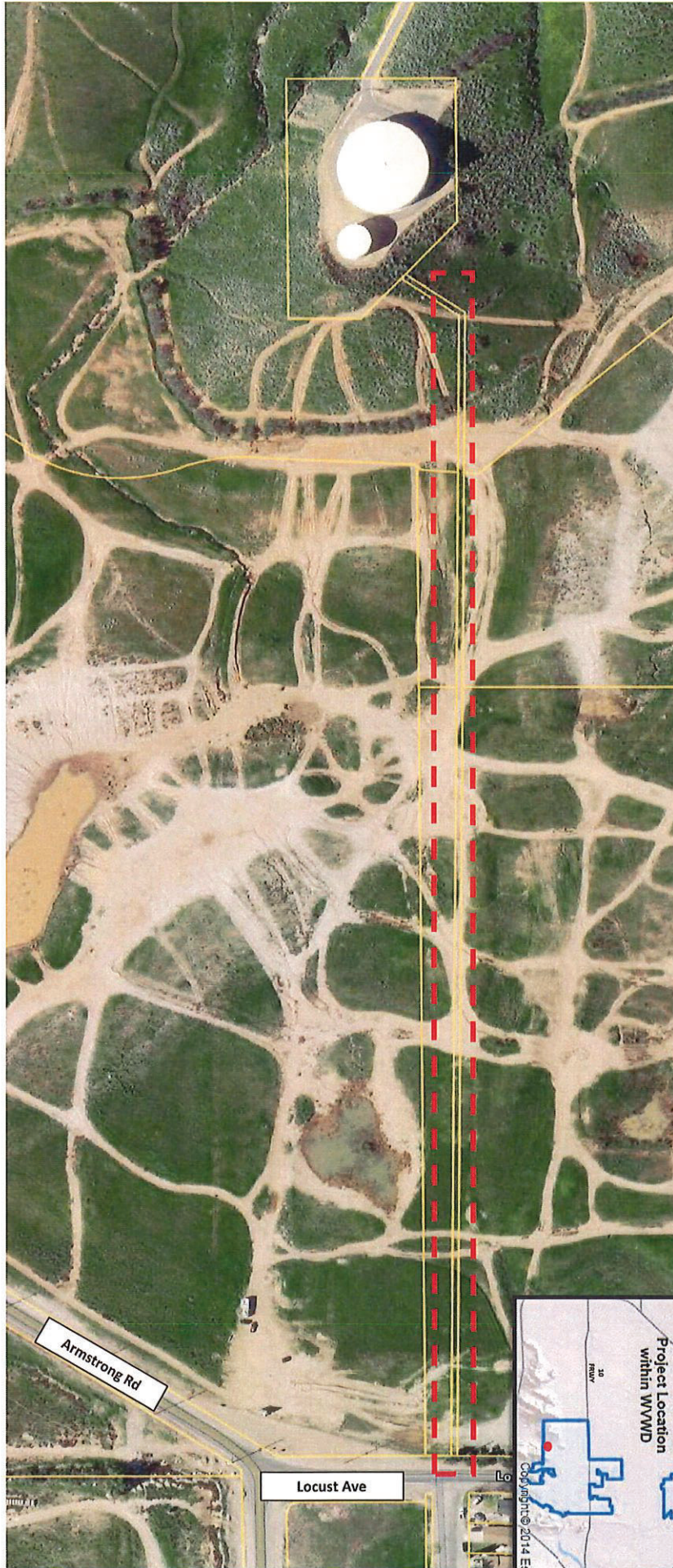


Exhibit A
APN: 0256-131-10



EXHIBIT "B"

WVWD Property and Right Of Entry

THIS MAP IS FOR THE PURPOSE
OF ASSESSOR'S MAPS ONLY.



N.W. 1/4, Sec 33, T.1S., R.5W., S.B.B.&M.
R.S. 4/41-42

City of Fontana
Tax Rate Area
10014
0256-13

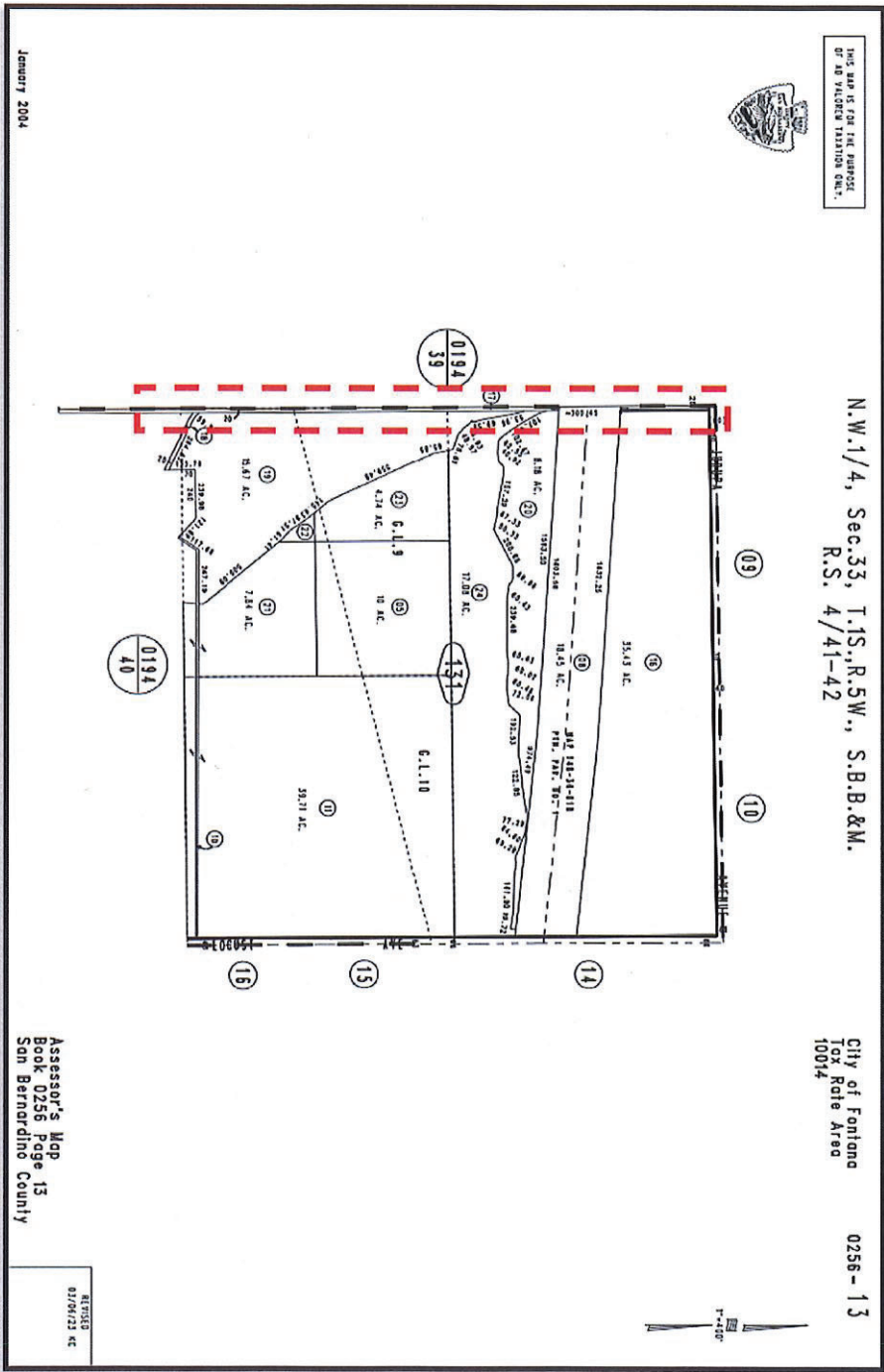


Exhibit B

APN: 0256-131-17



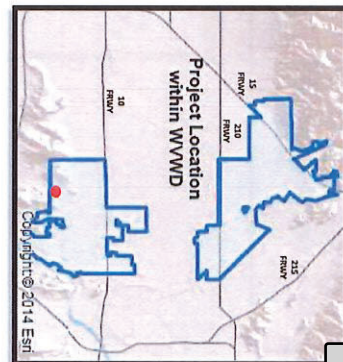


Exhibit B
APN: 0256-131-17





**BOARD OF DIRECTORS
ENGINEERING, OPERATIONS AND PLANNING COMMITTEE
STAFF REPORT**

DATE: November 21, 2023
TO: Engineering, Operations and Planning Committee
FROM: Linda Jadeski, Director of Engineering
SUBJECT: REIMBURSEMENT AGREEMENT FOR R2-3 RESERVOIR FACILITIES IMPROVEMENTS WITH IDIL WEST VALLEY LOGISTICS CENTER, LP.

BACKGROUND:

IDIL West Valley Logistics Center, LP, (“Developer”) is the owner of land located west of Locust Avenue, north of Armstrong Road, east of Alder Avenue and south of Jurupa Avenue in the City of Fontana known as the West Valley Logistics Center (“Development”). The proposed Development includes the construction and operation of six (6) warehouses across sixteen (16) parcels of vacant land and (1) former West Valley Water District (“District”) parcel known as APN 0256-131-10. In developing this land, the Developer is required to construct multiple district facilities within pressure zones 2 and 3, which will include new 12-inch, 16-inch, and 24-inch watermains, pressure zones 2 and 3 pressure regulating station, fire hydrants, water services etc.

The above mentioned proposed 24-inch watermain is currently a 12-inch common inlet/outlet pipeline which conveys water to and from an existing 4.0 million gallon welded steel tank (“Reservoir R2-3”), located to the east of Alder Ave., south of Jurupa Ave. A maintenance inspection of the reservoir was completed in 2019 which recommended various reservoir related rehabilitations; including but not limited to interior and exterior coating, inlet/outlet pipeline seismic retrofits, onsite plumbing modifications, and various safety upgrades.

Due to the adjacent Development’s footprint, the existing 12-inch needs to be relocated and upsized based on the hydraulic analysis performed in October, 2020. Moreover, the District’s reservoir will need to become non-operational temporarily for the installation of a new 24-inch watermain connection to the reservoir, which is required of the Developer, along with various other onsite improvements. This new 24-inch connection presents a unique water distribution operational opportunity to the District as well as the Developer to take the reservoir out of service for a single “shutdown”, and perform all required maintenance and rehabilitation as required by the 2019 inspection report and other Developer conditioned upgrades required by the 2020 Hydraulic Analysis at a potential cost savings to the District.

DISCUSSION:

Before construction for the onsite improvements can begin on reservoir R2-3 facilities, the District

and the Developer must enter into a Reimbursement Agreement (“Agreement”). This Agreement outlines the description of reimbursable facilities for which the Developer will be reimbursed in full; however, the Developer agrees to undertake the engineering, design, and construction of reimbursable facilities. The responsibilities of the Developer also include constructing facilities, insurance coverage, bonding requirements, and conveyance and acceptance of the water system by the District. Attached as Exhibit A is a copy of the Reimbursement Agreement for this project.

Furthermore, the said reimbursement shall not include the costs of design, inspection, permits, bonding, insurance, construction administration and project management.

FISCAL IMPACT:

This project was included in the Fiscal Year 2023/2024 Capital Improvement Program (CIP) budget under W23001 Reservoir R2-3 Re-coating and Modifications.

STAFF RECOMMENDATION:

Staff recommends that the Committee forward a recommendation to the Board of Directors to:

1. Authorize entering into a Reimbursement Agreement for R2-3 Reservoir Facilities Improvements with IDIL West Valley Logistics Center, LP.
 2. Authorize the General Manager to execute all necessary documents.
- Respectfully Submitted,

John Thiel

John Thiel, General Manager

SN:ls

ATTACHMENT(S):

1. Exhibit A - Reimbursement Agreement

EXHIBIT A

REIMBURSEMENT AGREEMENT

THIS REIMBURSEMENT AGREEMENT (“Agreement”) is entered into as of the date upon which this Agreement has been executed and delivered by both Parties (“Effective Date”), by and between **IDIL WEST VALLEY LOGISTICS CENTER, LP** (“Applicant”), and **West Valley Water District** (“District”). Applicant and District are sometimes individually referred to herein as a “Party” and collectively referred to herein as the “Parties.”

RECITALS

WHEREAS, the Applicant is the owner of and/or beneficiary interested in certain real property in the County of San Bernardino, State of California, described as **West Valley Logistics Center** in the City of Fontana, located west of Locust Avenue, north of Armstrong Road, east of Alder Avenue and south of Jurupa Avenue, as shown in “Exhibit A”; and

WHEREAS, the Applicant desires to remove the District’s Reservoir R2-3 Storage Tank, transmission pipeline and facilities (collectively, “R2-3 Reservoir Facilities”) located within the Applicant’s project limits of said real property and relocate them into a dedicated easement provided by the Applicant in favor of the District in an area outside of the Applicant’s project limits; and

WHEREAS, the District has identified the R2-3 Reservoir Facilities in its Water Facilities Master Plan as having to be upsized to a specific size to meet the District’s overall hydraulic needs in the distribution system; and

WHEREAS, the Applicant has agreed to relocate and upsize the R2-3 Reservoir Facilities, along with coating and seismic retrofits, to adhere to the District’s standards and specifications. The relocation, upsizing, coating and retrofitting are collectively referred to herein as the “Project;” and

WHEREAS, the District has agreed to reimburse the Applicant for applicable costs associated with the Project as described in “Exhibit B” and contained in this Agreement. This Agreement shall solely pertain to the terms and conditions for the reimbursement of costs and expenses regarding the Project. All terms and conditions for the approval and initiation of service to the Applicant’s property shall be set forth in applicable rates, rules, and regulations of the District as the same are now in effect or may hereafter be amended.

NOW, THEREFORE, in consideration of the mutual promises and covenants contained herein, and in consideration of other valuable consideration, the receipt and adequacy of which is hereby acknowledged, the Parties agree as follows:

1. **Reimbursable Facilities.** Applicant agrees to undertake the engineering, design, and construction of the Project shown in “Exhibit B” in accordance with the terms and conditions of the Water System Infrastructure Installation and Conveyance Agreement attached hereto as “Exhibit C” (“Conveyance Agreement”). To the extent there are any conflicts between this Agreement and the Conveyance Agreement, the Conveyance Agreement shall control. Only the Applicant will have a contractual arrangement with a consultant/contractor for the design and

construction of the Project. The plans and designs shall be subject to the prior written approval of the District, which approval shall not be unreasonably delayed, conditioned, or withheld. The Applicant shall be solely responsible for all payments to said consultant/contractor. Within thirty (30) days after the date that there has been both the recordation of the notice of completion with the County and also acceptance of the Project by the District, the Applicant shall submit an invoice to the District which includes an itemized account of the construction of the Project including any approved change orders or deviations. The invoice shall be subject to the review and approval by the District, which approval shall not be unreasonably delayed, conditioned, or withheld. If the District objects to any portion of the invoice, the Parties shall then engage in good faith efforts to resolve such issues through informal discussions. In the event said objections cannot be so resolved, either Party may elect to initiate the dispute resolution procedures set forth in this Agreement. In regard to any reasonable objection by the District regarding the work product of the Applicant's consultant/contractor, the District shall raise said issues with the Applicant and the Applicant shall resolve said issues with the consultant/contractor. Subject to the procedures set forth herein, the District shall reimburse the Applicant for one hundred percent (100%) of all costs paid by the Applicant associated with construction of the Project, which shall only include materials and installation as described in "Exhibit B", unless modified in writing by mutual agreement between Applicant and the District. Said reimbursement shall not include the costs of design, inspection, permits, bonding, insurance, excavation, plan check, construction administration and project management, backfill, traffic control, survey, asphalt, disinfection/chlorination, service laterals and hydrant assemblies. The Applicant and the District shall reasonably cooperate to complete the construction of the Project.

2. Prevailing Wage. The Applicant agrees to the payment of prevailing wages, and other public works requirements pursuant to the California Labor Code, the California Government Code and the California Public Contracts Code for the Project described in "Exhibit B".

3. Bids. The Applicant shall obtain a minimum of three (3) bids from the District's approved list of contractors and shall furnish to the District true and accurate copies of bids received. The Applicant shall award the contract to the lowest responsive and responsible bidder for the construction of the Project and the District shall have the right to review and approve the bids, in District's reasonable discretion, and the successful bidder prior to the Applicant awarding a contract.

4. Change Orders. The Applicant will not issue a change order with respect to the Project without the prior written consent of the District, which consent shall not be unreasonably delayed, conditioned, or withheld. Subject to the foregoing, District shall have no obligation to pay any cost increases for changes to the work for the Project unless the District has approved the same in writing in advance.

5. Dispute Resolution. Any dispute, claim or controversy arising out of, resulting from or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including any dispute, claim or controversy arising out of, resulting from or relating to the construction of the Project, and the determination of the scope or applicability of this agreement to arbitrate, shall be determined by binding arbitration in San Bernardino, California, before a JAMS arbitrator (as agreed among the parties, or appointed pursuant to JAMS procedures). The Parties shall submit arbitration briefs not to exceed three pages for the

arbitrator's consideration and shall make themselves available for a hearing at the discretion of the arbitrator. Judgment on the award may be entered in any court having jurisdiction. This clause shall not preclude the Parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

6. Binding Effect. This Agreement shall be binding on and inure to the benefit of the heirs, executors, administrators, successors, assigns, agents, legal representatives, and bankruptcy trustees of the Parties, including without limitation their successors-in-interest.

7. Attorneys' Fees. Each Party to this Agreement will bear its own costs, expenses, and attorneys' fees in connection with this Agreement, including its negotiation and the performance or satisfaction of its obligations, liabilities and/or duties under or pursuant this Agreement, subject, however, to the following: In the event of any dispute between the Parties concerning the terms or provisions of this Agreement, including enforcement of such terms or provisions, the Party prevailing in such dispute shall be entitled to collect from the other Party all costs incurred in connection with such dispute, including reasonable attorneys' fees.

8. Non-waiver. No failure or delay in exercising any right under this Agreement shall operate as a waiver thereof or of any other right.

9. Amendments and Waivers. This Agreement constitutes the entire agreement between the Parties, and there are no other agreements expanding or modifying its terms. This Agreement may not be amended or modified except by a written instrument signed by the Parties which expressly states that modification of this Agreement is intended.

10. Severability. If any provision or portion of this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions and/or portions will nevertheless continue in full force without being impaired or invalidated in any way.

11. Counterparts. This Agreement may be executed and delivered in any number of counterparts, including e-mail or facsimile counterparts, all of which shall be deemed to constitute one and the same instrument, and each of which shall be deemed an original.

12. Additional Acts and Documents. Each Party agrees to do all such things and take all such actions, and to make, execute, and deliver such other documents and instruments as shall be reasonably required to carry out the provisions, intent, and purposes of this Agreement.

13. Governing Law. This Agreement will be governed by and construed in accordance with the laws of the State of California.

14. Recitals. The Parties hereby agree that the Recitals above are true and accurate and are incorporated herein.

15. Authorization. Each individual signing this Agreement represents and warrants that he or she is duly authorized to execute this Agreement in their individual or representative capacity as indicated.

16. No Consents Required. Each Party represents and warrants that the consent or approval of no third party, including, without limitation, a lender, is required with respect to the execution of this Agreement, or if any such third party consent or approval is required, the Party who requires such consent or approval has obtained any and all such consents or approvals and that no other consent, authorization or approval is required by any other party for full execution on such Party's behalf.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the Parties have executed this Agreement effective as of the Effective Date.

IDIL WEST VALLEY LOGISTICS CENTER, LP

By: _____
Name: Charles McPhee
Title: SVP and Regional Director
Date: _____

WEST VALLEY WATER DISTRICT

By: _____
Name: John Thiel
Title: General Manager
Date: _____

- Exhibit A: Development Location
- Exhibit B: Description of Reimbursable Facilities
- Exhibit C: Water System Infrastructure Installation and Conveyance Agreement

EXHIBIT A

(Development Location)

APN's:

| | | | |
|-------------|-------------|-------------|-------------|
| 0194-401-04 | 0256-141-36 | 0256-141-41 | 0256-131-11 |
| 0194-401-05 | 0256-141-38 | 0256-141-41 | 0256-131-12 |
| 0194-401-09 | 0256-141-39 | 0256-131-05 | 0256-131-13 |
| 0256-131-14 | 0256-131-15 | | |

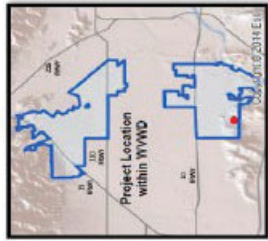


Exhibit A
WEST VALLEY LOGISTICS CENTER



EXHIBIT B

(Description of Reimbursable Facilities)

- | | |
|-----|---|
| 1. | Interior Coating: Furnish all labor, materials, and equipment to prepare surfaces to SSPC-SP10 and coat interior with an epoxy coating system in accordance with the specifications. (Less point of connections for new inlet/outlet, shell drain, overflow pipe, abandoned connections on shell) |
| 2. | Disinfection: Furnish all labor, materials, and equipment to prepare surfaces and disinfect interior. |
| 3. | Exterior Paint: Furnish all labor, materials, and equipment to provide containment, prepare exterior surfaces to SSPC-SP10 and paint the exterior surfaces with an epoxy/urethane system in accordance with the specifications. (Less point of connections for new inlet/outlet, shell drain, overflow pipe, abandoned connections on shell) |
| 4. | Interior Caulking: Furnish all labor, materials, and equipment to caulk all designated voids on the interior surfaces in accordance with the specifications. |
| 5. | Safety Gate: Furnish all labor, materials, and equipment to install a new safety gate at the top of the exterior ladder. |
| 6. | Vent Screening: Furnish all labor, materials, and equipment to remove existing vent screening on the center vent prior to painting and coating operations install new screening after coating and painting are complete. |
| 7. | Auxiliary Vent: Furnish all labor, materials, and equipment to install a 24" auxiliary roof vent at location designated on the plans. |
| 8. | Interior Ladder: Remove and dispose of the existing interior ladder and install a new fiber glass ladder at the existing roof hatch. |
| 9. | Saf-T-Climb: Furnish all labor, materials, and equipment to install a galvanized steel Saf-T-Climb on the interior ladder. Supply a harness and locking sleeve to the District. |
| 10. | Fall Restraint System: Furnish all labor, materials, and equipment to install fall restraint cables, attachments, and necessary mounting hardware. |
| 11. | Dehumidification: Furnish all labor, materials, and equipment to use dehumidification system for interior work, including curing of coatings, in accordance with the specifications. Sound barriers shall be provided as required. |
| 12. | Pitted Areas: Furnish material, equipment, and labor to fill or weld plates over excessively pitted or corroded areas, as determined necessary by the engineer. |
| 13. | Center Vent Bracing: Furnish all labor, materials, and equipment to replace the center vent bracing in like kind as determined necessary by the Engineer. |

EXHIBIT C

(Water System Infrastructure Installation and Conveyance Agreement)

WATER SYSTEM INFRASTRUCTURE INSTALLATION AND CONVEYANCE AGREEMENT

This water system infrastructure installation and conveyance agreement (“Agreement”) is entered into and effective as of _____ by and between **IDIL WEST VALLEY LOGISTICS CENTER, LP** (“Developer”), and **WEST VALLEY WATER DISTRICT** (“District”) who agree as follows:

The Developer is the owner of certain land described as **WEST VALLEY LOGISTICS CENTER** and as more fully (or further) shown on Exhibit "A". In developing this land, the Developer is desirous of obtaining a public water supply adequate for domestic uses and public fire protection purposes and is desirous of integrating that water system into the District’s public water system.

In order to provide facilities for a water supply to said land, it is the intention of the parties to this Agreement that the Developer shall furnish and install those water mains, fire hydrants, service laterals, water meters and valves, valve boxes, relocate and upsize R2-3 Reservoir Facilities along with coating and seismic retrofit to adhere to District’s standards and specifications and all other appurtenant fittings and facilities required for a complete water system to serve the land shown on Exhibit "A".

In order to implement the foregoing and in consideration of the terms and conditions herein contained, the parties further agree as follows:

1. DESIGN

1.1. Developer shall design and construct, at the Developer's sole expense, the water facilities and appurtenances required to serve the development in accordance with final District-approved plans known as **DRAWINGS FOR THE REHABILITATION OF RESERVOIR 2-3** as approved and attached herein as Exhibit "B" and in accordance with District-approved design standards and specifications, and the terms and conditions of this Agreement.

1.2. The water system design shall be by a Professional Engineer registered in the State of California, and in accordance with the District's Rules and Regulations, latest edition (the “Rules and Regulations”), the District's Standards for Domestic Water Facilities and Standard Drawings herein included by reference, all applicable District ordinances and policies and all City, County, State of California, and Federal laws, ordinances, rules, regulations, codes and other legal requirements of all government bodies having jurisdiction over said construction and property (all of the foregoing requirements in this paragraph being collectively referred to herein at times as “Legal Requirements”).

1.3. The District, at Developer's expense, shall review Developer's plans for the purpose of ensuring the adequacy of the design and conformance with the District's standards and specifications. The District reserves the right to add, delete, modify, change or amend any or all the plans and specifications.

1.4. In the event that the property to be developed includes multiple residential, condominiums, commercial or industrial uses, all site plans, grading plans, improvement plans, and any available plumbing plot plans shall be furnished to the District by Developer.

1.5. The District makes no warranties as to the correctness, accuracy or completeness of the plans and specifications. The accuracy, adequacy, suitability, and correctness of the water system design shall be the sole responsibility of the Developer.

2. CONSTRUCTION

2.1. Developer shall perform, or caused to be performed, all construction of the water system infrastructure installation pursuant to the approved water system plans, legal requirements, and other applicable requirements.

2.2. The performance of this Agreement shall commence within one hundred eighty (180) calendar days from Developer's receipt of the notice to proceed provided by the District pursuant to Section 8.1 below, and shall be completed within two (2) years from the estimated construction start date, unless such construction is delayed by a force majeure event, or events beyond Developer's control.

2.3. Time is of the essence in this Agreement; provided that, in the event good cause is shown therefore, the general manager of the District ("General Manager") may extend the time for completion of the water system installation. Any such extension may be granted without the notice to Developer's surety, and extensions so granted shall not relieve the surety's liability on the bond to secure faithful performance of this Agreement. The General Manager shall be the sole and final judge as to whether or not good cause has been shown to entitle Developer to an extension.

2.4. The Developer and its contractor and subcontractors shall attend a pre-construction meeting with the District no less than two (2) working days prior to commencement of construction.

2.5. No work on water facilities shall commence prior to the completion of all required curbs and gutters.

3. LICENSES AND PERMITS

3.1. Developer, and all of Developer's contractors and subcontractors warrants it possesses, or shall obtain, and maintain during the term of this Agreement any and all licenses, permits, qualifications, insurance and approval of whatever nature that are legally required of Developer, its contractors, and all subcontractors to practice its profession, skill or business.

3.2. The work to be performed under this Agreement, except meter installations by the District, shall be performed by Developer, or a contractor or subcontractor who is pre-approved by the District and is licensed under the laws of the State of California in the specialty Class of "C-34" Pipeline or Class "A" General Engineering. A copy of the contract between Developer and the selected pre-approved contractor and all subcontractors shall be submitted to the District for review and approval attached herein as Exhibit "C".

3.3. Excavation/resurfacing permits shall be secured by Developer at Developer's expense. Permits/easements to install, maintain and operate water system facilities in private property shall be secured by Developer at Developer's sole expense prior to construction.

3.4. Developer shall, at Developer's sole expense, be responsible for obtaining and adhering to a National Pollution Discharge Elimination System (NPDES) permit from the Regional Water Quality Board as required for construction or pipeline flushing and disinfection.

3.5 Developer shall, at Developer's sole expense, be responsible for obtaining and adhering to the California Environmental Quality Act.

4. INSURANCE REQUIREMENTS

4.1. The following insurance requirements have been adopted by the District and shall be applicable to this Agreement. These requirements supersede the insurance requirements set forth in any other reference of the District, and to the extent of any conflict, the specified requirements herein shall prevail.

4.2. Developer shall ensure that Developer's contractors conform to the following insurance requirements and that all required documents are submitted to the District at the time of Agreement submittal: Developer shall ensure that its contractors and all subcontractors shall purchase and maintain insurance in amounts equal to the requirements set forth in (a) through (d) below, and shall not commence work under this Agreement until all insurance required under this heading is obtained in a form acceptable to the District, nor shall Developer allow any contractor or subcontractor to commence construction pursuant to a contract or subcontract until all insurance required of the contractor and any subcontractors has been obtained.

a. General Liability: Developer shall ensure that its contractor and all subcontractors shall maintain during the life of this Agreement, a standard form of either Comprehensive General Liability insurance or Commercial General Liability insurance ("General Liability Insurance") providing the following minimum limits of liability: Combined single limit of \$1.0 million per occurrence for bodily injury, including death, personal injury, and property damage with \$2.0 million minimum aggregate, separate for this project as evidenced by endorsement. The insurance shall include coverage for each of the following hazards: Premises-Operations; Owners and Contractors Protective; Broad Form Property Damage contractual for Specific Contract; Severability of Interest or Cross-Liability; XCU Hazards; and Personal Injury – With the "Employee" Exclusive Deleted.

b. Automotive/Vehicle Liability Insurance: Developer shall ensure that its contractor and all subcontractors shall maintain a policy of automotive/vehicle liability insurance on a commercial auto liability form covering owned, non-owned and hired automobiles providing the following minimum limits of liability: Combined single limit of liability of \$1.0 million per accident for Bodily Injury, Death and Property Damage ("Automotive/Vehicle Liability Insurance").

c. Workers' Compensation Insurance: Developer shall ensure that its contractor and all subcontractors shall provide such workers' compensation insurance with statutory minimum amounts of coverage, as required by the California *Labor Code* and other applicable

law, and including employer's liability insurance with a minimum limit of \$1,000,000.00 ("Workers' Compensation Insurance"). Such Workers' Compensation Insurance shall be endorsed to provide for a waiver of subrogation against the District.

d. Excess Liability: Developer shall ensure that its contractor and all subcontractors shall provide a policy providing excess coverage in a face amount necessary when combined with the primary insurance, to equal the minimum requirements for General Liability Insurance and Automotive/Vehicle Liability Insurance.

4.3. The insurances provided for in Section 4.2 and its subsections above are subject to all of the following conditions:

a. The insurance shall be issued and underwritten by insurance companies acceptable to the District, and shall be licensed by the State of California to do business on the lines of insurance specified. The insurers must also have an "A-" Policyholder's rating" and a "financial rating" of at least Class VII in accordance with the most current A.M. Best's Rating Guide.

b. Developer's contractor and subcontractors may satisfy the limit requirements in a single policy or multiple policies. Any such additional policies written as excess insurance shall not provide any less coverage than that provided by the first or primary policy.

c. Any costs associated with a self-insured program, deductibles, or premium rating programs that determine premium based on loss experience shall be for the account of Developer, Developer's contractor and subcontractors, and the District shall not be required to participate in any such loss. If any such programs exist, Developer, Developer's contractor and subcontractors, agree to protect and defend the District in the same manner as if such cost provisions were not applicable.

d. Developer shall ensure that its contractor and all subcontractors shall have presented at the time of execution of the Agreement, the original policies of insurance and a certificate of insurance naming the District as the certificate holder and that such coverage is in force and complies with the terms and conditions outlined herein.

e. If an insurance policy contains a general policy aggregate of less than the minimum limits specified, then the policy coverage shall be written with limits applicable solely to this Agreement, as specified, and shall not be reduced by or impaired by any other claims arising against Developer. These policy limits shall be set forth by separate endorsement to the policy.

4.4. Each such policy of General Liability Insurance and Automotive/Vehicle Liability Insurance shall contain endorsements providing the following:

a. The District, their board members, officers, agents, employees, consultants, and engineers, are hereby declared to be additional insureds under the terms of this policy, but only with respect to the operations of the Developer at or upon any of the premises of the District in connection with the Agreement with the District, or acts or omissions of the additional insureds in connection with, but limited to its general supervision or inspection of said operations and save for any claims arising from the sole negligence or sole willful misconduct the District.

b. No policy shall be canceled, limited, materially altered, or non-renewed by the insurer until thirty (30) days after receipt by the District of a written notice of such cancellation or reduction in coverage.

c. This insurance policy is primary insurance and no insurance held or owned by the designated additional insureds shall be called upon to cover a loss under this policy.

5. BONDING REQUIREMENTS

5.1. Developer shall obtain a cost proposal for the approved water improvement plans from a pre-approved Contractor attached herein as Exhibit "C". The cost proposal will be submitted to the District for review and approval, and shall be used as the basis for bonding requirements for the water system described in the plans provided to the District by the Developer and approved for construction by the District.

5.2. Performance Bond: The cost proposal for the water system improvements for **DRAWINGS FOR THE REHABILITATION OF RESERVOIR 2-3**, is **(DEVELOPER TO PROVIDE BID RESULTS FOR BONDING)** no/100 dollars **(DEVELOPER TO PROVIDE BID RESULTS FOR BONDING)**. Developer shall and by this Agreement does guarantee the Developer's faithful performance of this Agreement and all of its terms and conditions by providing the following: Developer shall provide the District with a performance bond, from a surety institution licensed by the State of California and authorized to do and doing business in said State, valid and renewable until such improvements are accepted by the District. The performance bond attached herein at Exhibit "D", shall be in the amount of **(DEVELOPER TO PROVIDE BID RESULTS FOR BONDING)** no/100 dollars **(DEVELOPER TO PROVIDE BID RESULTS FOR BONDING)** equal to 100 percent of the cost proposal.

5.3. Warranty Bond: The pre-approved Contractor shall furnish a two-year warranty bond for all work completed in accordance with the approved water improvement plans attached herein as Exhibit "B". Before District's acceptance of the completed water facilities and appurtenances, such facilities and appurtenances shall be free from any and all liens and encumbrances and free from any and all defects in the materials or construction thereof. The two-year warranty shall be a warranty bond beginning on the date of acceptance of the water facilities by the District and shall be in the amount of **(DEVELOPER TO PROVIDE BID RESULTS FOR BONDING)** no/100 dollars **(DEVELOPER TO PROVIDE BID RESULTS FOR BONDING)** equal to 100 percent of the Contractor's cost proposal.

6. MATERIALS

6.1. The water system facilities to be installed pursuant to this Agreement shall become an extension of the distribution system of the District. All materials used must conform to District specifications for such materials pursuant to all applicable legal requirements.

7. NOTICES

7.1. All notices herein required shall be in writing, and delivered in person or sent by registered mail, postage prepaid.

7.2. Notices required shall be given to the **District** addressed as follows:

WEST VALLEY WATER DISTRICT
Attn: General Manager
Post Office Box 920
Rialto, CA 92377
RE: Water Improvement Plans for West Valley Logistics Center

7.3. Notices required shall be given to **Developer** addressed as follows:

DEVELOPER NAME: IDIL WEST VALLEY LOGISTICS CENTER, LP
ATTN TO: Brandon Dickens
ADDRESS: 840 Apollo Street, Suite 343, El Segundo, CA 90245
RE: Water Improvement Plans for West Valley Logistics Center

7.4. Notices required shall be given to **Surety** addressed as follows:

SURETY NAME:
ATTN TO:
ADDRESS
RE: Water Improvement Plans for West Valley Logistics Center

7.5. Provided that any party or Surety may change such address by notice in writing to the other party, and thereafter, notices shall be addressed and transmitted to the new address.

7.6. The Developer or its contractor shall provide the District forty-eight (48) hours advance notice of request for inspection or testing.

7.7. The District is closed on the holidays listed in Exhibit "E".

8. NOTICE TO PROCEED TO CONSTRUCT WATER SYSTEM FACILITIES

8.1. Upon acceptance of the insurance and aforementioned bonds in the amounts provided herein and approval by the District and upon payment of all applicable charges, the Agreement shall be signed by Developer and the District. The District shall return an original copy of the signed Agreement with a letter to Developer giving notice to proceed to construct the water system facilities.

9. INSPECTION

9.1. It is understood that the sole purpose and intent of the District's inspection and testing is to validate that the materials, workmanship, and construction of the water facilities are in

compliance with the District-approved final plans, the District's Rules and Regulations, the Standards for Domestic Water Facilities, the Standard Drawings, and all other applicable District requirements. Developer acknowledges and represents that it assumes full and sole responsibility for the safety and management of the project.

9.2. Developer shall at all times maintain proper facilities and provide safe access for inspection by the District to all parts of the work and to the shops wherein the work is in preparation. Additionally, in connection with the performance of this Agreement, the District shall have the authority to enter the work site at any time for the purpose of identifying the existence of conditions, either actual or threatened, that may present a danger of hazard to any and all employees. Developer agrees that the District, in its sole authority and discretion, may order the immediate abatement of any and all conditions that may present an actual or threatened danger or hazard to any and all employees at the work site. Furthermore, Developer acknowledges the provisions of California *Labor Code* Section 6400 et seq., which requires that employers shall furnish employment and a place of employment that is safe and healthful for all employees working therein. In the event the District identifies the existence of any condition that presents an actual or threatened danger or hazard to any or all employees at the work site, the District is hereby authorized to order an immediate abatement of that condition.

9.3. All work and materials shall be subject to inspection, testing, and acceptance by the District at Developer's expense. In the event Developer arranges to have materials fabricated for the project, Developer may be required to arrange for the District to inspect that material during fabrication at Developer's expense.

9.4. All material fabrications shall be preapproved by the District and must conform to District standards and specifications.

9.5. The District's inspectors shall have full, unlimited access to perform continuous inspection and have the authority to stop work at any time, by written notice or verbal notice followed by written notice within three (3) working days, without any liability whatsoever to the District, if, in the inspectors' judgment, the work called for by this Agreement, or the District approved plans, or the specifications is not being installed or performed in a satisfactory and workmanlike manner according to District's standards and specifications and/or in the event the materials do not comply with the District's standards and specifications.

9.6. The Developer shall be responsible for insuring the pre-approved contractor performs work with District inspection. If work is done without District inspection, the Contractor shall be responsible for exposing any portion of work as directed by the District at their sole expense. The District will not provide permanent water services until all required inspections are completed and any requirements set forth by the District have been satisfied.

9.7. Final acceptance of all material to be purchased or fabricated by Developer under this Agreement shall be made only with the prior approval of the District. Approval by the District, however, shall not operate to relieve the material supplier or Developer of any guarantees, warranties, or the duty of compliance with any of the requirements of the approved plans and specifications or of this Agreement. All construction pursuant to this Agreement shall be inspected pursuant for conformity with District requirements. Developer shall pay actual costs for inspections.

10. TESTING AND DISINFECTION

10.1. All water system facilities and components constructed pursuant to this Agreement shall adhere to all requirements for testing, disinfection, and flushing pursuant to District standards and Legal Requirements.

11. RELOCATIONS, RECONSTRUCTIONS, AND DAMAGES

11.1. Developer accepts the responsibility for and the costs occasioned by any reconstruction, relocation, damages to, or changes of water services or facilities caused or contributed to directly or indirectly by any subsequent changes in the location of any of said facilities or water meters or water services.

12. AS-CONSTRUCTED DOCUMENTATION

12.1. In order for the District to accept the facilities, Developer shall provide all required documentation as specified in the Standards for Domestic Water Facilities, including as-built drawings.

13. INDEMNIFICATION

13.1. Developer hereby agrees to and shall protect, defend, indemnify and hold the District and its board members, officers, agents, employees, and engineers free and harmless from any and all liability losses, damages, claims, liens, demands and cause of action of every kind and character including, but not limited to, the amounts of judgments, penalties, interests, court costs, attorney's/legal fees, and all other expenses incurred by the District arising in favor of any party, including claims, liens, debts, demands for lost wages or compensation, personal injuries, including employees or the District, death or damages to property (including property of the District) and without limitation by enumeration, all other claims or demands of every character occurring or in any way incident to, in connection with or arising directly or indirectly out of the obligations herein undertaken or out of the operations conducted by Developer save and except claims or litigation arising through the sole negligence or sole willful misconduct of the District or the District's agents and employees. Developer shall investigate, handle, respond to, provide defense for and defend any such claims, demand, or suit at the sole expense of Developer even if the claim or claims alleged are groundless, false or fraudulent. Developer agrees to, and shall defend the District and its members, directors, officers, agents, employees, and engineers from any suits or actions at law or in equity for damages caused, or alleged to have been caused, by reason of any of the aforesaid operations, provided as follows:

a. That the District does not and shall not waive any rights against Developer which it may have by reason of the aforesaid hold harmless agreement, because of the acceptance by the District, or the deposit with District by Developer, or any of the insurance policies described in this Agreement.

b. That the aforesaid hold harmless agreement by Developer shall apply to all damages and claims for damages of every kind suffered, or alleged to have been suffered, by reason of any or the aforesaid operations referred to in this subsection, regardless of whether or not District has prepared, supplied water system installation, or regardless of whether or not such insurance policies shall have been determined to be applicable to any such damages or claims for damages.

This provision is not intended to create any cause of action in favor of any third party against Developer or the District or to enlarge in any way Developer's liability but is intended solely to provide for indemnification of the District from liability for damage or injuries to third persons or property arising from Developer's performance hereunder.

13.2. Neither Developer nor any of Developer's agents, contractors or subcontractors are, or shall be, considered to be agents of the District in connection with the performance of Developer's obligations under this Agreement.

14. REPAIR OR RECONSTRUCTION OF DEFECTIVE WORK

14.1. If, within a period of two years after final acceptance of the work performed under this Agreement, any structure or part of any structure furnished and/or installed or constructed, or caused to be installed or constructed by Developer, or any of the work done under this Agreement, fails to fulfill any of the requirement of this Agreement or the specifications referred to herein, Developer shall, without delay and without any cost to District, repair or replace or reconstruct any defective or otherwise unsatisfactory part or parts of the work structure. Should Developer fail to act promptly or in accordance with this requirement, or should the exigencies of the situation as determined by the District in the exercise of its sole discretion require repair, replacement or reconstruction before Developer can be notified, District may, at its option, make the necessary repairs or replacements or perform the necessary work, and Developer shall pay to the District the actual cost of such repairs.

15. COSTS AND FEES

15.1. Developer shall be responsible for all fees and deposits as required by the District. All fees and deposits shall be paid in full before construction can take place as outlined in the billing letter (provided separately).

15.2. Any additional costs and fees shall be paid in full prior to conveyance and acceptance of the water system.

16. CONVEYANCE AND ACCEPTANCE OF WATER SYSTEM

16.1. Upon completion of the water system in accordance with the approved water plans and submission of the required documentation, the Developer shall convey the water system to the District.

16.2. The Developer shall be responsible for insuring the pre-approved contractor furnish a warranty bond (One Hundred (100%) of Contractor's cost proposal) for a period of two (2) years as stated in Sections 5.3 of this Agreement, as-built drawings with contractor redlines and

AutoCAD files, materials list with quantities, water system cost breakouts, compaction test report signed and sealed by a California Registered Engineer, notice of completion filed with County Recorder's office, fire flow tests of all hydrants, all required easements for water facilities and unconditional financial release from subcontractors and material providers. Upon compliance with all the terms and conditions of this Agreement, the District shall prepare the Bill of Sale accepting the water facilities and forward same to the address provided herein. Title to the ownership of said facilities and appurtenances shall thereby be conveyed to the District. The District shall thereafter operate and maintain said facilities so as to furnish water service to the development (Exhibit "A") in accordance with the District's ordinances, policies and Rules and Regulations.

17. PERMANENT WATER SERVICE

17.1. In no event shall permanent water services be provided to Developer's installed system until all applicable charges and fees have been paid by Developer and all facilities have been conveyed, free of all encumbrances, to the District, including any easements which may be required. Such conveyance shall occur in a timely manner in accordance with the terms of this Agreement.

18. BREACH OR DEFAULT OF AGREEMENT

18.1. If Developer refuses or fails to obtain prosecution of the work, or any severable part thereof, with such diligence as will insure its completion within the time specified, or any extension thereof, or fails to obtain completion of said work within such time, or if Developer should be adjudged as bankrupt, or Developer should make a general assignment for the benefit of Developer's creditors, or if a receiver should be appointed in the event of Developer's insolvency, or if Developer, or any of Developer's contractors, subcontractors, agents or employees, should violate any of the provisions of this Agreement, the District's General Manager or the General Manager's designee may serve written notice upon Developer and Developer's surety of breach of this Agreement, or of any portion therefore, and default of Developer.

18.2. In the event of any such notice, Developer's surety shall have the duty to take over and complete the work and the improvement herein specified; provided, however, that if the surety, within five (5) days after the serving upon of such notice of breach, does not give the District written notice of its intention to take over the performance of the contract, and does not commence performance thereof within five (5) days after notice to the District of such election, District may take over the work and prosecute the same to completion, by contract or by any other method District may deem advisable, for the account and at the expense of Developer, and Developer's surety shall be liable to the District for any excess cost or damages occasioned District thereby; and, in such event, District, without liability for so doing, may take possession of, and utilize in completing the work, such materials, appliances, plant and other property belonging to Developer as may be on the site of the work and necessary therefore.

[CONTINUED ON NEXT PAGE]

19. SUCCESSORS BOUND

19.1. This Agreement shall be binding upon and inure to the benefit of each of the parties and their respective legal representatives, successors, heirs, and assigns.

20. ENFORCEMENT OF PROVISIONS

20.1. The District's failure to enforce any provisions of this Agreement or the waiver thereof in any instance shall not be construed as a general waiver or relinquishment on its part of any such provision, but the same shall nevertheless be and remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto execute this Agreement.

WEST VALLEY WATER DISTRICT

By: _____
John Thiel, General Manager

Date: _____

DEVELOPER:

**By: IDIL WEST VALLEY LOGISTICS CENTER, LP
a Delaware limited partnership**

By: _____
Charles McPhee, SVP and Regional Director

Date: _____

Exhibit A

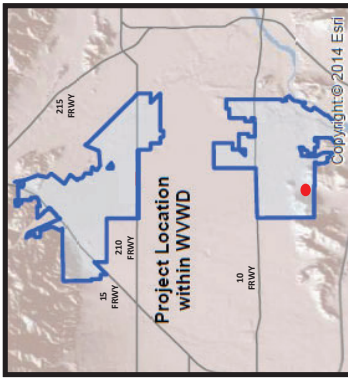


Exhibit A
WEST VALLEY LOGISTICS CENTER



Exhibit B

(approved plans to be
provided at a later date)

WEST VALLEY WATER DISTRICT RIALTO, CALIFORNIA

DRAWINGS FOR THE REHABILITATION OF RESERVOIR 2-3

OCTOBER 2023

BOARD OF DIRECTORS

Greg Young (Division 5)
 Dan Jenkins (Division 2)
 Angela Garcia (Division 1)
 Kelvin Moore (Division 3)
 Channing Hawkins (Division 4)

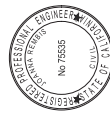
DISTRICT ADMINISTRATION

John Thiel General Manager
 Joanne Chan Director of Operations
 Linda Jadeski Director of Engineering
 Rosa M. Gutierrez, P.E. Senior Engineer - C.I.P.

SUBMITTED BY:
 ENGINEERING RESOURCES OF SOUTHERN CALIFORNIA, INC.

JOANNA REMBIS, P.E., RCE 75535

DATE



SHEET INDEX

| SHEET NO. | DESCRIPTION |
|-----------|--|
| 1 | TITLE SHEET |
| 2 | GENERAL NOTES, LEGEND, LOCATION & VICINITY MAPS |
| 3 | RESERVOIR LAYOUT AND CONSTRUCTION NOTES |
| 4 | DETAIL SHEET - INLET, DRAIN, SAFETY GATE, ROOF VENT, INTERIOR LADDIE |
| 5 | DETAIL SHEET - FALL RESTRAINT SYSTEM, OVERFLOW, INLET/OUTLET |

CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONS AND PROPERTY ON THE JOB SITE DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY ON THE JOB SITE DURING NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR EMPLOYEES TO WEAR, MAINTAIN AND HOLD UP TO THE STANDARDS OF THE PROJECT, ACCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

Underground Service Alert



Call TOLL FREE
 1-800-422-4133

APPROVED

| Revision | No. | By | Date | Approved |
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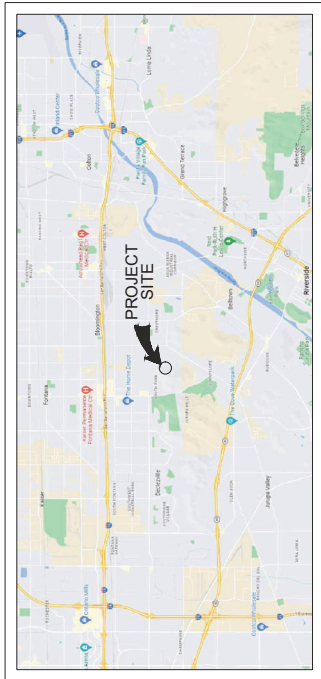
1845 W. Redondo Blvd., Bldg. 79
 P: (909) 890-1555
 F: (909) 890-1699



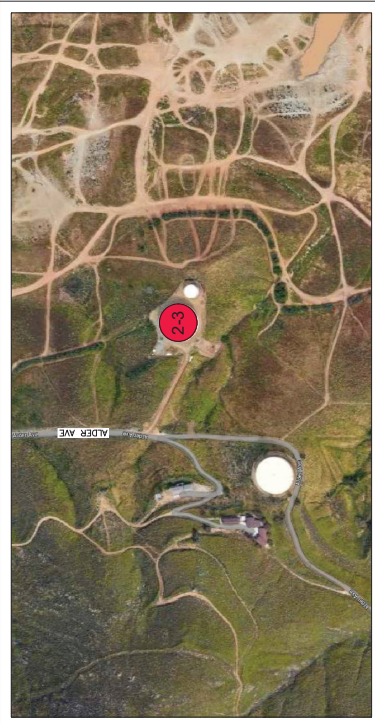
WEST VALLEY WATER DISTRICT
 RESERVOIR 2-3 REHABILITATION
 TITLE SHEET

SHEET
 1 of 5
 SHEETS
 W-2300

3.5.a



VICINITY MAP - RESERVOIR 2-3 SITE
NTS



LOCATION MAP - RESERVOIR 2-3 SITE
NTS

CONSTRUCTION NOTES:

- CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY, AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REPORT DISCREPANCIES IN PLANS AND/OR FIELD CONDITIONS IMMEDIATELY TO WWD PROJECT ENGINEER OR ON-SITE INSPECTOR FOR RESOLUTION PRIOR TO CONSTRUCTION, AND SHALL BE RESPONSIBLE FOR DISCREPANCIES NOT SO REPORTED AND RESOLVED.
- THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE FACILITIES AND UTILITIES SHOWN, AND ANY OTHER UTILITY LINES OR STRUCTURES NOT SHOWN ON THESE PLANS, AND IS RESPONSIBLE FOR ANY DAMAGE TO THESE LINES OR STRUCTURES.
- CONTRACTOR TO NOTE THAT THE RESERVOIR 2-3 SITE IS AN ACTIVE WWD FACILITY. CONTRACTOR TO PROVIDE SAFE ACCESS TO PROJECT SITE FOR WWD STAFF AND REPRESENTATIVES AT ALL TIMES. CONTRACTOR TO ABIDE BY WWD STAFF RULES AND DIRECTIONS AS TO NOT INTERFERE WITH NORMAL OPERATIONS AT THE RESERVOIR SITE.
- THE CONTRACTOR SHALL HAVE COPIES OF THE PLANS AND SPECIFICATIONS FOR THIS PROJECT ON THE PROJECT SITE AT ALL TIMES, AND SHALL BE FAMILIAR WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
- SANITARY FACILITIES SHALL BE MAINTAINED ON-SITE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL MAINTAIN DUST CONTROL AT ALL TIMES. DUST SHALL BE CONTROLLED BY AFFORDABLE GOVERNMENT STANDARDS.
- OPERATION OF ALL VALVES AND PUMPS ON THE WWD SYSTEM SHALL BE PERFORMED BY WEST VALLEY WATER DISTRICT. COORDINATE ALL VALVE OPERATIONS AT LEAST SEVEN (7) DAYS IN ADVANCE.
- CONTRACTOR SHALL BE REQUIRED TO SECURE THE PROJECT SITE DURING THE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ON-SITE SECURITY DURING PROJECT AFTER HOURS.
- CONTRACTOR SHALL CONTACT WWD FOR THE APPLICATION OF A TEMPORARY WATER METER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF THE CONTRACTOR THAT IS NOT OBTAINED THROUGH THE USE OF THE CONSTRUCTION WATER METER.
- CONTRACTOR SHALL PROVIDE TEMPORARY ON-SITE ELECTRICAL POWER FOR THE USE OF CONSTRUCTION ACTIVITIES.
- PROJECT WORKING HOURS ARE FROM 8:00 AM TO 4:00 PM WEEKDAYS OR AS REQUIRED BY THE PERMITS. NO WORK IS ALLOWED ON WEEKENDS OR HOLIDAYS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE WWD PROJECT ENGINEER. WWD WILL PROVIDE REIMBURSEMENT TO WWD FOR REQUESTED WORK ON WEEKENDS AND HOLIDAYS FOR WWD INSPECTION AND/OR OPERATION PERSONNEL COSTS.
- BMP TO BE KEPT ON-SITE AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT BY CONTRACTOR.

ABBREVIATIONS

| | | | |
|--------|--|------|--|
| AC | ASPHALT CONCRETE | MG | MILLION GALLONS |
| AMG | AMERICAN WIRE GAUGE | MIN. | MINIMUM |
| BFV | BUTTERFLY VALVE | NO. | NUMBER |
| C.C. | CENTER CENTER | NTS | NOT TO SCALE |
| CM/C | CEMENT MORTAR LINED & MORTAR COATED STEEL PIPE | O.C. | ON CENTER OVERFLOW |
| COL | COLUMN | OF | OF |
| CR | CENTER | PL | PLATE OR PROPERTY LINE |
| CR/C | CENTER CENTER | PSI | POUNDS PER SQUARE INCH |
| DIA. | DIAMETER | R | RADIUS |
| DIP | DUCTILE IRON PIPE | RCP | REINFORCED CONCRETE PIPE |
| DWG | DRAWING | RHD | RUBBER HIGH HEAT-WATER RESISTANT SHEET |
| E | EAST | S | SCHEDULE |
| EA | ELEVATION | SO | SOFT |
| EW | ELECTRIC WIRE | STL | STEEL |
| FL | FLOWLINE | SQ. | SQUARE |
| FL | FLOWLINE | STD | STANDARD |
| FLG | FLANGE | THK | THICK |
| FTG | FOOTING | TYP. | TYPICAL |
| GA | GALVANIZED | W | WITH |
| GM | GATE VALVE | W/O | WITHOUT |
| GR | GRAVEL | W | WITH |
| HMW/PE | HIGH MOLECULAR WEIGHT/POLYETHYLENE | W/O | WITHOUT |
| HSS | HOLLOW STRUCTURAL STEEL | W | WITH |
| LF | LINEAR FEET | W/O | WITHOUT |
| LG | LONG | | |

CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY, AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.



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|-----|----|------|----------|
| No. | By | Date | Approved |
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| Designed | Checked | Scale | Date |
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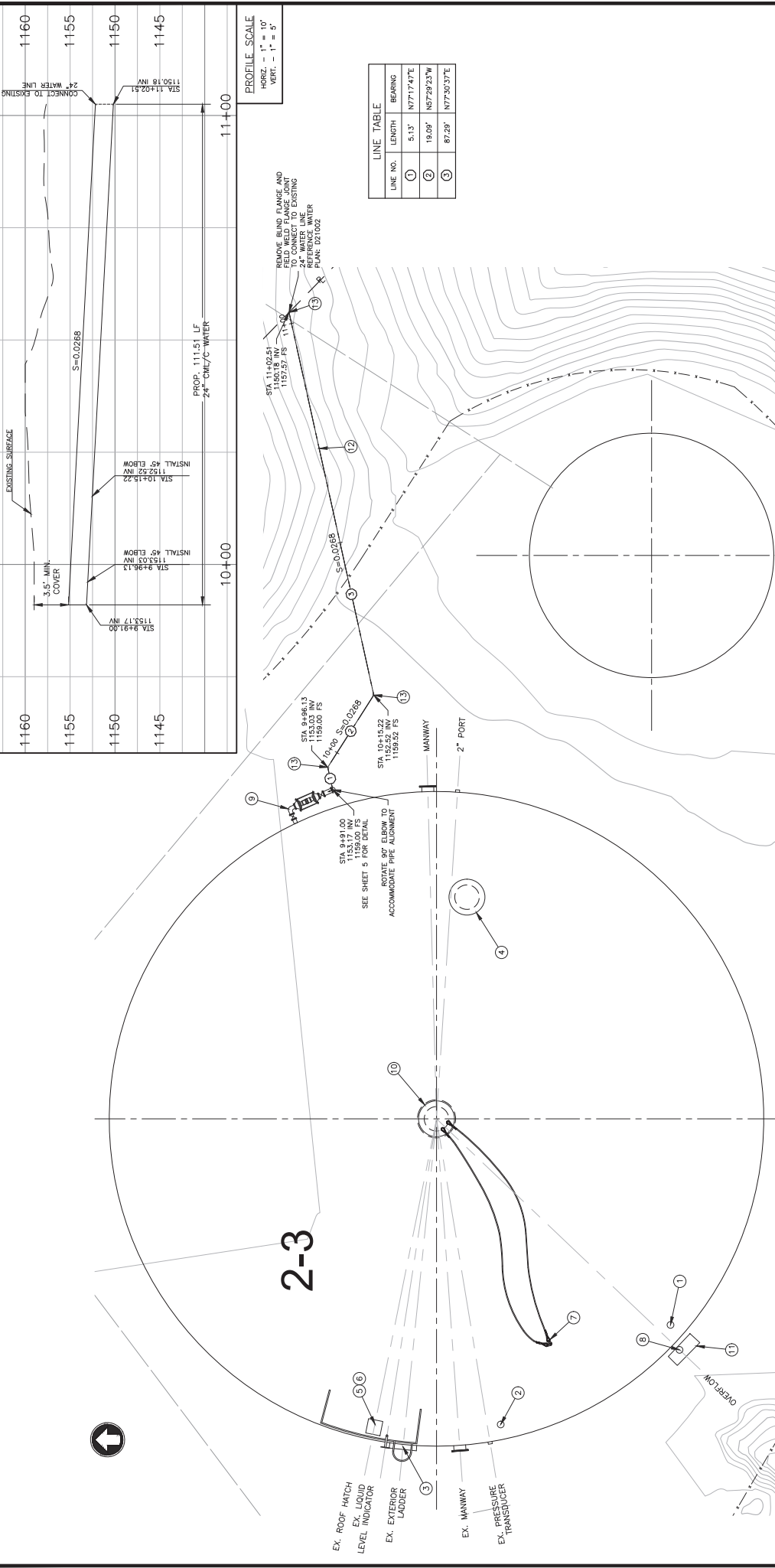
ERSC
Engineering Resource of Southern California

1841 W. Redondo Blvd., Bldg. 79
P: (909) 890-2552
F: (909) 890-0999

WEST VALLEY WATER DISTRICT
RESERVOIR 2-3 REHABILITATION
GENERAL NOTES, LEGEND,
LOCATION AND VICINITY

SHEET
2 of 5
SHEETS
WV2301

3.5.a



| LINE NO. | LENGTH | BEARING |
|----------|--------|-------------|
| ① | 5.13' | N77°17'47"E |
| ② | 19.09' | N57°29'23"W |
| ③ | 87.29' | N77°30'37"E |

CONSTRUCTION NOTES:

- ⑥ REMOVE AND DISPOSE OF THE EXISTING OVERFLOW AND INSTALL A NEW OVERFLOW AND CATCH BASIN PER DETAIL ON SHEET 5.
- ⑦ REMOVE AND DISPOSE OF THE EXISTING BOTTOM INLET, PLATE OVER THE OPENING, AND ABANDON IN PLACE PER DETAIL 2 ON SHEET 4.
- ⑧ FURNISH AND INSTALL A NEW SAFETY GATE AT THE TOP OF THE EXTERIOR LADDER PER DETAIL 3 ON SHEET 4.
- ⑨ FURNISH AND INSTALL A NEW 24" AUXILIARY ROOF VENT PER DETAIL 4 ON SHEET 4.
- ⑩ REMOVE AND DISPOSE OF THE INTERIOR LADDER AND INSTALL A NEW INTERIOR LADDER PER DETAIL 5 ON SHEET 4.
- ⑪ FURNISH AND INSTALL A NEW SAF-T-Climb ON THE INTERIOR LADDER PER DETAIL 5 SHEET 4.
- ⑫ FURNISH AND INSTALL A NEW ROOF FALL RESTRAINT SYSTEM PER DETAIL 6 ON SHEET 5.

CONSTRUCTION NOTES:

- ① REMOVE THE BOTTOM DRAIN, PLATE OVER THE OPENING, AND ABANDON IN PLACE PER DETAIL 1 ON SHEET 4.
- ② REMOVE THE EXISTING BOTTOM INLET, PLATE OVER THE OPENING, AND ABANDON IN PLACE PER DETAIL 2 ON SHEET 4.
- ③ FURNISH AND INSTALL A NEW SAFETY GATE AT THE TOP OF THE EXTERIOR LADDER PER DETAIL 3 ON SHEET 4.
- ④ FURNISH AND INSTALL A NEW 24" AUXILIARY ROOF VENT PER DETAIL 4 ON SHEET 4.
- ⑤ REMOVE AND DISPOSE OF THE INTERIOR LADDER AND INSTALL A NEW INTERIOR LADDER PER DETAIL 5 ON SHEET 4.
- ⑥ FURNISH AND INSTALL A NEW SAF-T-Climb ON THE INTERIOR LADDER PER DETAIL 5 SHEET 4.
- ⑦ FURNISH AND INSTALL A NEW ROOF FALL RESTRAINT SYSTEM PER DETAIL 6 ON SHEET 5.

RESERVOIR 2-3 LAYOUT

NTS



CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AGENCIES AND AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AGENCIES AND AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AGENCIES AND AUTHORITIES.

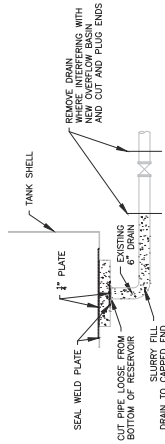


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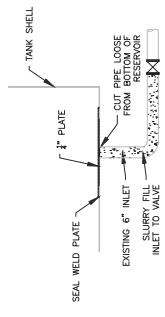
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ERSC
Engineering Resources of Southern California
1881 W. Redondo Blvd., Bldg. 7B
P.O. Box 1000
Redondo Beach, CA 90260
Tel: (310) 261-1000
Fax: (310) 261-1001

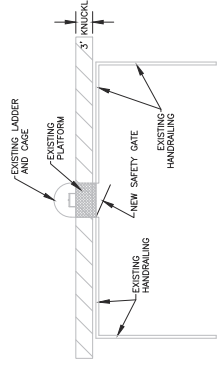
WEST VALLEY WATER DISTRICT
RESERVOIR 2-3 REHABILITATION AND CONSTRUCTION NOT
SHEET 3 OF 5
DATE: 10/18/2023



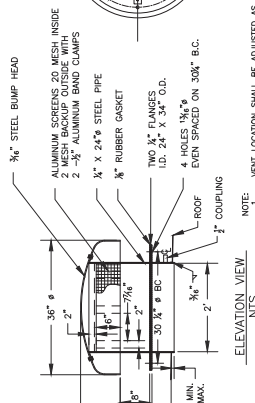
1 - DRAIN PENETRATION MODIFICATION
NTS



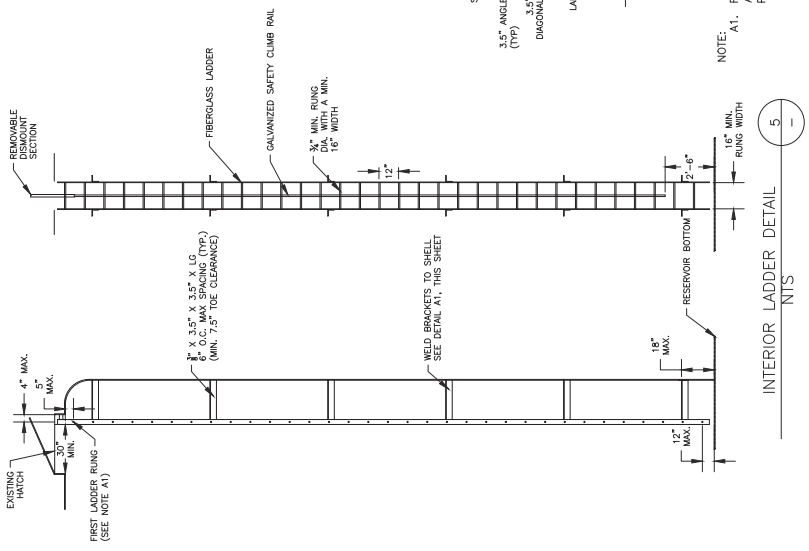
2 - INLET PENETRATION MODIFICATION
NTS



3 - SAFETY GATE DETAILS
NTS



4 - 24\"/>



5 - INTERIOR LADDER DETAIL
NTS



A1 - BRACE DETAIL A1
NTS

NOTE: A1: FIRST LADDER RUNG SHALL BE LOCATED A MIN. OF 5\"/>

CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AGENCIES AND AGENCIES OF ALL JURISDICTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AGENCIES AND AGENCIES OF ALL JURISDICTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AGENCIES AND AGENCIES OF ALL JURISDICTIONS.



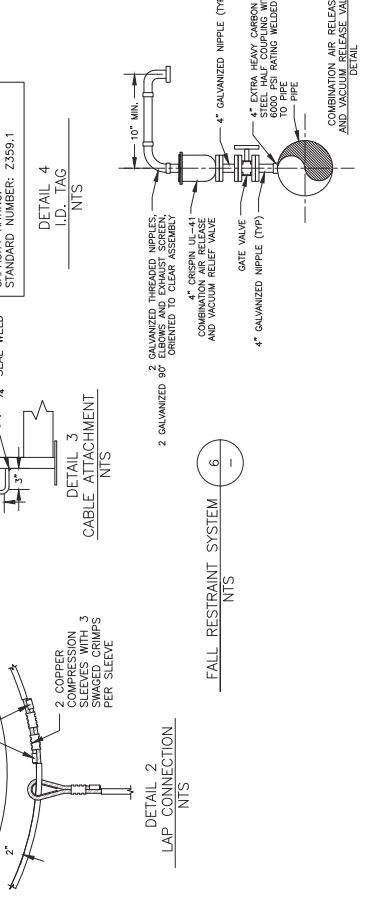
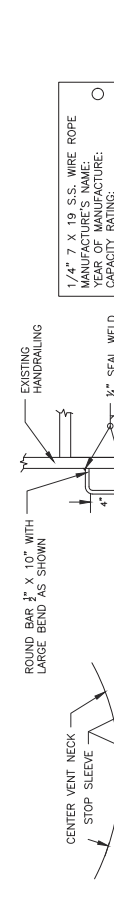
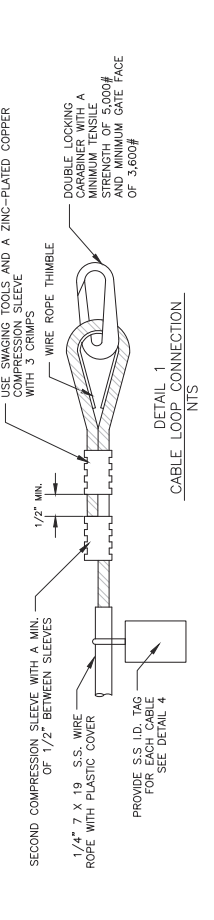
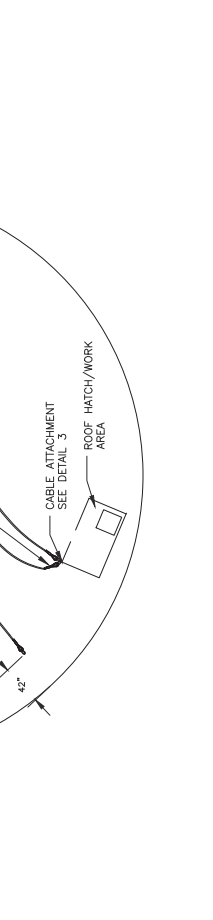
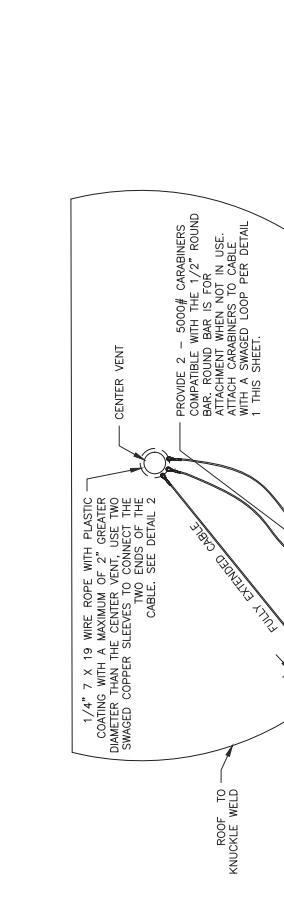
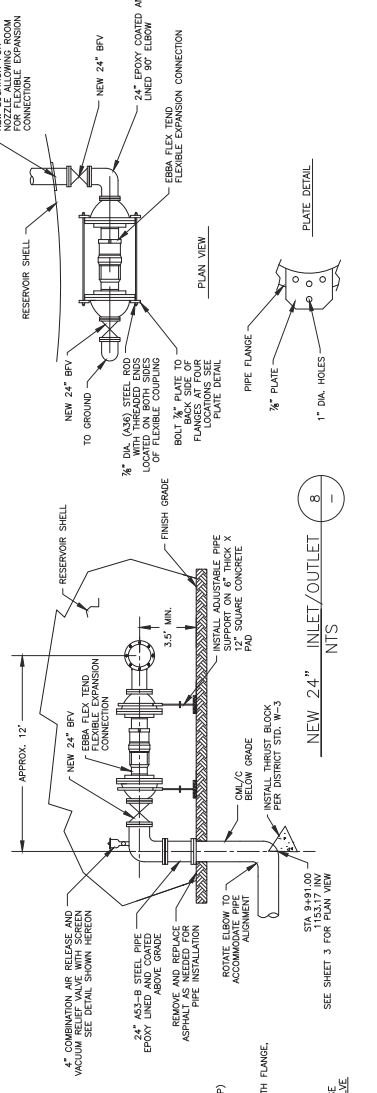
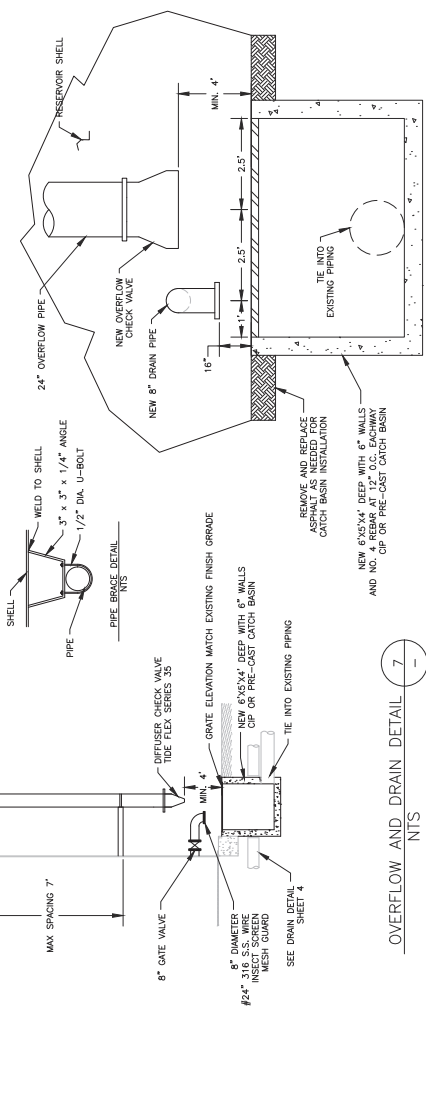
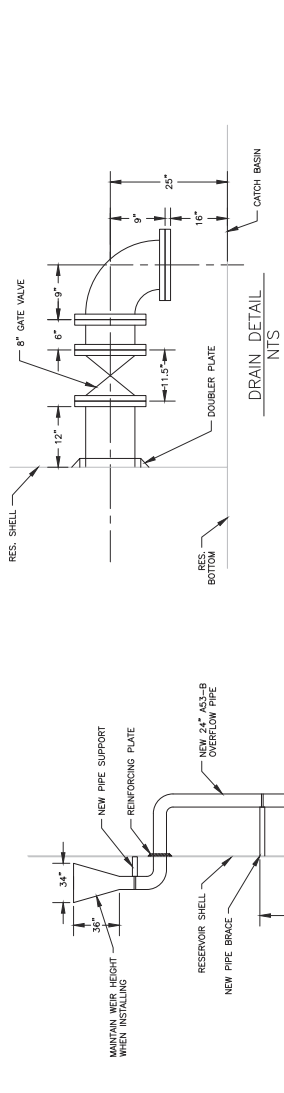
Underground Service Alert
Call TOLL FREE
1-800-422-4133
1-800-422-4133
1-800-422-4133

| No. | By | Date | Approved |
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P: (909) 890-1555
F: (909) 890-1650
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WEST VALLEY WATER DISTRICT
RESERVOIR 2-3 REHABILITATION
INLET, DRAIN, SAFETY GATE, ROOFVENT,
INTERIOR LADDER AND SAFETY GATE
SHEET 4 OF 5
SHEETS
DATE: 10/18/2023

3.5.a



3.5.a

CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONS AND PROPERTY ON THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS EMPLOYED BY THE CONTRACTOR, AND CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONS EMPLOYED BY THE CONTRACTOR, AND CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONS EMPLOYED BY THE CONTRACTOR, AND CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONS EMPLOYED BY THE CONTRACTOR.

WEST VALLEY WATER DISTRICT
RESERVOIR 2-3 REHABILITATION
ROOF FALL RESTRAINT, OVERFLOW,
INLET AND OUTLET

SHEET
5 OF 5
SHEETS
DATE: 10/18/2023

1881 W. Redondo Blvd., Bldg. 79
P: (909) 890-1555
F: (909) 890-1695

ERSC
Engineering Resource of Southern California

| No. | By | Date | Approved |
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| Designed | Checked | AS SHOWN |
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| Drawn | | |
| | | |

Call Toll Free
1-800-422-4133
100% SATISFACTION GUARANTEE (SEE PAGE 101.00)

Exhibit C

(to be provided at later date)

Exhibit D

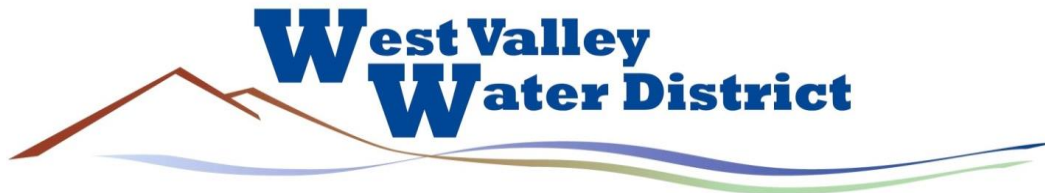


ESTABLISHED AS A PUBLIC AGENCY IN 1952

WEST VALLEY WATER DISTRICT'S MISSION IS TO PROVIDE A RELIABLE,
SAFE-DRINKING WATER SUPPLY TO MEET OUR CUSTOMERS' PRESENT
AND FUTURE NEEDS AT A REASONABLE COST AND TO PROMOTE
WATER-USE EFFICIENCY AND CONSERVATION.

2023 HOLIDAY LIST

| | |
|-----------------------|-------------------------|
| MONDAY, JANUARY 2 | NEW YEAR'S DAY |
| MONDAY, JANUARY 16 | MARTIN LUTHER KING, JR. |
| MONDAY, FEBRUARY 20 | PRESIDENT'S DAY |
| MONDAY, MAY 29 | MEMORIAL DAY |
| TUESDAY, JULY 4 | INDEPENDENCE DAY |
| MONDAY, SEPTEMBER 4 | LABOR DAY |
| FRIDAY, NOVEMBER 10 | VETERANS DAY (OBSERVED) |
| THURSDAY, NOVEMBER 23 | THANKSGIVING |
| FRIDAY, NOVEMBER 24 | DAY AFTER THANKSGIVING |
| MONDAY, DECEMBER 25 | CHRISTMAS EVE |
| TUESDAY, DECEMBER 26 | CHRISTMAS |
| MONDAY, JANUARY 1 | NEW YEAR'S EVE (2024) |



**BOARD OF DIRECTORS
ENGINEERING, OPERATIONS AND PLANNING COMMITTEE
STAFF REPORT**

DATE: November 21, 2023
TO: Engineering, Operations and Planning Committee
FROM: Joanne Chan, Director of Operations
SUBJECT: POST WATERLINE BREAK STREET REPAIRS

BACKGROUND:

West Valley Water District (District) experienced a waterline break in July on a busy street in a section of Valley Boulevard, near 838 Valley Boulevard in the City of Rialto. The cause of the leak was galvanic corrosion. When a new developer installed its new copper service pipe, it connected to District's existing galvanized pipe without using the proper dielectric or similar coupling for corrosion protection. Dissimilar metals conduct electricity at different rates. The connecting points of the two different pipe materials become rotted by galvanic corrosion in a relatively short period of time causing a leak at the connecting joint between the copper pipe and galvanized pipe.

The waterline has been repaired and temporary asphalt has been installed by District staff; however, the roadway would need to be repaired and paved to the City of Rialto standards. The scope of work consists of scarifying the subgrade, compacting, and installing 6 inches of thick asphalt in 4 areas, milling out existing asphalt pavement, and installing new 1.5 inches of asphalt in an area totaling to 7,040 square feet (80 feet x 88 feet). Attached as **Exhibit A** is the map.

The inconvenience created by these repairs is expected to be short-lived, with the repair work projected to be completed within 12 hours, thus limiting its effect on the community. In an effort to strike a balance between meeting essential city needs and respecting the daily routines of residents, the city has requested that the repairs be carried out during night hours.

DISCUSSION:

On February 18, 2021, a Request for Proposal ("RFP") was issued and publicly advertised on PlanetBids to solicit a qualified, experienced contractor to provide as-needed trench and roadway paving work. Four (4) firms – Mike Roquet Construction Inc., Hardy & Harper, Inc., GM Sager Construction and Onyx Paving Company – submitted proposals. The District awarded the contract to Mike Roquet Construction Inc. and executed the agreement on May 6, 2021.

Mike Roquet Construction Inc. submitted a quote in the amount of \$99,580.00 to repair the roadway on Valley Boulevard. Attached as **Exhibit B** is the quote.

FISCAL IMPACT:

This item is included in the Fiscal Year 2023/24 Operating Budget and will be funded from project number GL100-5410-540-5612 titled "Repair & Maintenance/Street Patching". District staff believes the full cost shouldn't be borne by the District and will meet with City staff to discuss further.

STAFF RECOMMENDATION:

This is for informational purposes only, no action required.
Respectfully Submitted,

John Thiel

John Thiel, General Manager

JT;jc

ATTACHMENT(S):

1. Exhibit A - Map
2. Exhibit B - Quote

EXHIBIT A

Map

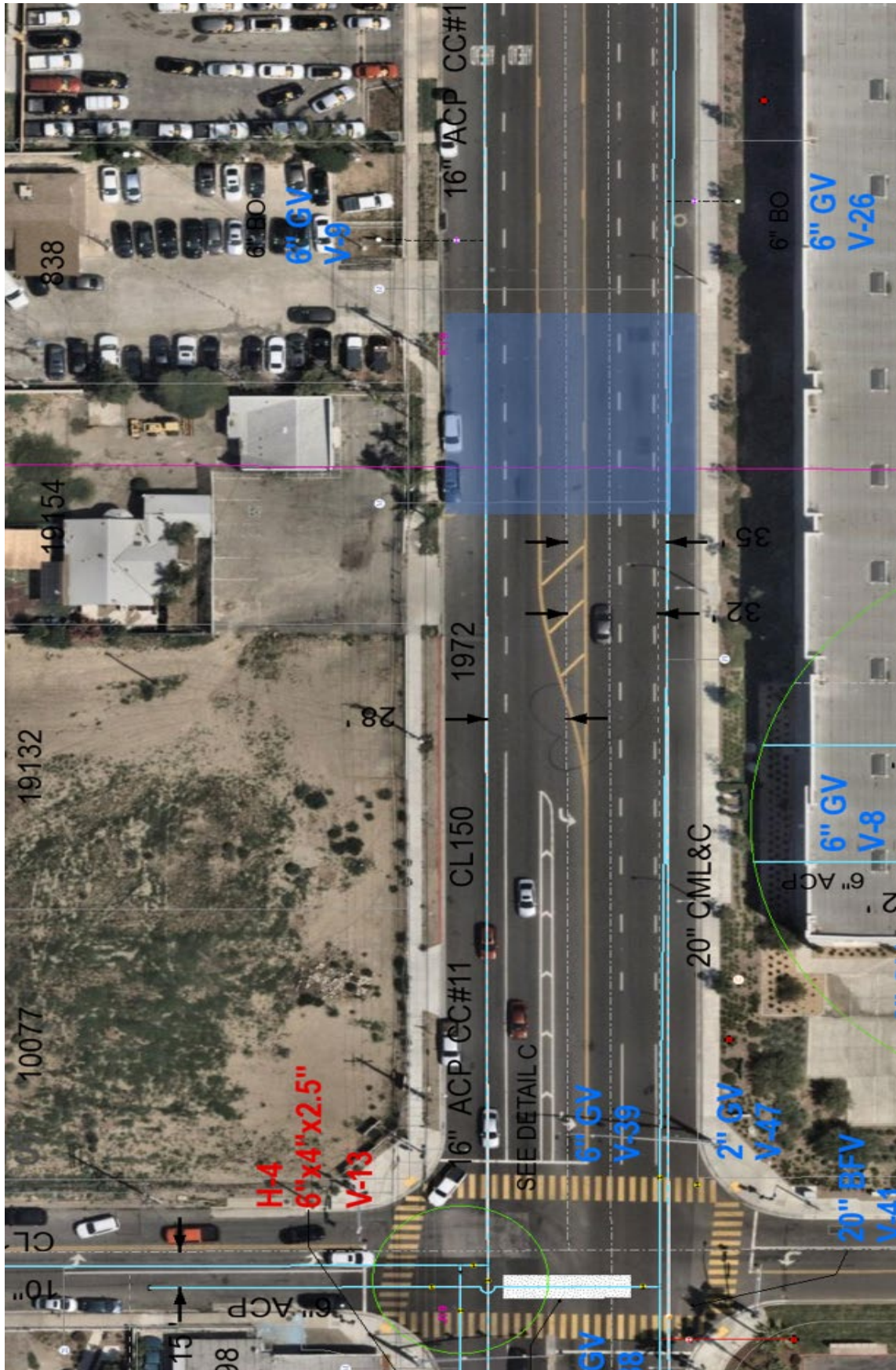


EXHIBIT B



P.O. Box 539
Highland, CA 92346
(951) 533-3797
Lic #1007568

PROPOSAL

To: Page 1 of 1 October 20, 2023

West Valley Water District
855 W. Baseline Rd.
Rialto, CA 92376
Attn: Rudy Olguin (909) 875-1804 rolguin@wvwd.org cell: (909) 644-6918

JOB LOCATION: 838 VALLEY BLVD, RIALTO

We hereby submit specifications and estimates for:

Item *total*
NIGHTTIME STREET REPAIR

1. STREET REPAIR

First move-in:

- a) Prepare for lane closures by furnishing and setting-up traffic control devices including lighted arrow-boards, light towers, signs, and cones.
- b) Remove four areas of the pavement totaling 644 sq. ft.; scarify the subgrade, compact, and fine-grade; install 6" thick asphalt in two lifts on 644 sq. ft.

Second move-in:

- c) Prepare for lane closures by furnishing and setting-up traffic control devices including lighted arrow-boards, light towers, signs, and cones.
- d) Mill-out 1.5" of existing asphalt pavement in one area totaling 7,040 sq. ft. (80' x 88'), haul away asphalt grindings, sweep, tack, and install new 1.5" asphalt on 7,404 sq. ft.

Total: \$88,985.00

2. COMPACTION TESTING

- a) Provide compaction tests on subgrade and new asphalt pavement

Total: \$ 5,180.00

3. BONDS

- a) Provide labor and performance bonds

Total: \$ 5,415.00

Grand Total: \$99,580.00

GENERAL CONDITIONS:

- Price includes prevailing wages and are good through January 30, 2023.
- Price includes compaction testing of the subgrade and the asphalt.
- Price includes bonds.
- EXCLUSIONS: permits, fees, striping, installing aggregate base under new asphalt, over-excavation of the subgrade for any reason, rubberized asphalt
- Any attorney fees, costs, or other expenses which may be incurred in the collection of monies as may become due under this contract or enforcement of the terms of this contract will be paid for by the customer.
- Unless otherwise herein provided, this contract shall be due and payable at Mike Roquet Construction Inc., P.O. Box 539, Highland, CA 92346 within 30 days from date of invoice.

AMOUNT: Ninety-nine thousand, five hundred and eighty dollars and no cents (\$99,580.00)

Mike Roquet
President
Mike Roquet Construction Inc.



**BOARD OF DIRECTORS
ENGINEERING, OPERATIONS AND PLANNING COMMITTEE
STAFF REPORT**

DATE: November 21, 2023
TO: Engineering, Operations and Planning Committee
FROM: Joanne Chan, Director of Operations
SUBJECT: OLIVER P. ROEMER WATER FILTRATION FACILITY FILTER MEDIA REPLACEMENT AND COATING PROJECT

BACKGROUND:

The Oliver P. Roemer Water Treatment (Roemer) Plant has 6 identical package treatment units called Trident Filters. Each Trident Filter has a design flow of 2.4 million gallons per day and consists of an upflow contact-clarifier followed by a multi-media gravity filter. The adsorption clarification process has been rated as equivalent to the flocculation-sedimentation process. Water flows up through about four feet of proprietary plastic beads, producing flocculation, settling, and removal of some suspended solids. From there, the water overflows into the multi-media filters. Beneath each filter is an underdrain system that takes the filtered water to the contact basin for disinfection and then to the distribution system.

On top of the underdrain is a multi-media filter bed. The bed contains three layers of media consisting of anthracite coal, sand, and garnet, with a supporting layer of gravel at the bottom. These are the media of choice because of the differences in size and density. The larger, lighter anthracite coal is on top and the heavier, smaller garnet remains on the bottom. The filter media arrangement allows the largest dirt particles to be removed near the top of the media bed with the smaller dirt particles being retained deeper and deeper into the media. This allows the entire bed to act as a filter allowing much longer filter run times between backwash and more efficient particulate removal.

The interior coatings, clarifier plastic media, and multi-media filter bed in Filter Nos. 2 and 3 are over 10 years old and have met their life expectancy. The filters are not equipped with an air scour system like the new filters being constructed as part of the plant expansion project. A new air scour system will also be installed in the 2 filters to work above the filter gravel pack which would give the media a thorough wash during backwashes. The goal is to have these 2 filters rehabilitated during winter when the water demand is at its lowest since 2 filters need to be taken out of service. A large vacuum truck is used to take out all the old materials and expose the underdrain system for inspection and any repairs. The entire filter is then power washed, sandblasted and coated in preparation for installation of a new air scour system and new media. The coating material is NSF 600 approved for potable water.

DISCUSSION:

On October 3, 2023, a Request for Bids (RFB) was issued and publicly advertised on PlanetBids. The RFB included removal, packaging and disposal of existing media, removal of existing interior coatings with abrasive blast methods, recoat with approved epoxy coating, supply and installation of new air scour systems and new media. Attached as **Exhibit A** is the project information and scope of work. Three (3) firms – ERS Industrial Services, Inc., Carbon Activated Corp, and Karbonous, Inc. – submitted bids to provide the specified services. Attached as **Exhibit B** is a summary of the bid results.

Based on information received from ERS, ERS is the lowest responsible responsive bidder for this project. A summary of the bid results is as follows:

| ERS Industrial Services, Inc. | Carbon Activated Corp. | Karbonous, Inc. |
|--------------------------------------|-------------------------------|------------------------|
| \$1,147,660.00 | \$1,263,489.00 | \$1,375,240.00 |

FISCAL IMPACT:

This item is included in the Fiscal Year 2023/24 Capital Budget and will be funded from project nos. W24005 and W24006 titled “Roemer Filter Rehabilitation & Media Replacement” with a budget of \$1,022,000. Additional funds (\$125,660) will be needed to complete the project and will be funded from the District’s budget for contingency. A summary of the requested budget transfer is as follows:

| Project | Current Budget | Transfer From/To | Remaining Budget |
|-------------------------------|-----------------------|-------------------------|-------------------------|
| Contingency Funds | \$355,509.00 | -\$125,660.00 | \$229,849.00 |
| Filter Rehabilitation & Media | \$1,022,000.00 | +\$125,660.00 | \$1,147,660.00 |

STAFF RECOMMENDATION:

Staff recommends that the Committee forward a recommendation to the Board of Directors to approve ERS Industrial Services, Inc. for the Oliver P. Roemer Water Filtration Facility Filter Media Replacement and Coating Project.

Respectfully Submitted,

John Thiel

John Thiel, General Manager

JT:jc

ATTACHMENT(S):

1. Exhibit A - Project Information and Scope of Work
2. Exhibit B - Bid Results

EXHIBIT A



Water Treatment Facility Filter Media Replacement and Coating Project

PROJECT INFORMATION:

The West Valley Water District (“District”) is seeking the services of a qualified, experienced contractor to furnish all labor, material and equipment, perform and complete all work required for the Water Treatment Facility Filter Media Replacement and Coating Project.

PROJECT DESCRIPTION

The work to be performed shall consist of furnishing all tools, equipment, materials, labor, transportation services, fuel, communications, and performing all work and related operations required for the fulfillment of this project in strict accordance with these specifications. The work shall be completed, and all work, materials, and services not expressly outlined or shown in these specifications which may be necessary for the complete and proper installation and/or operation of the work shall be provided by the contractor as indicated and at no increase in cost to the District. The contractor is expected to provide all materials and services that will fulfill or exceed the requirements and conditions as set forth in these specifications.

This is a turn-key project. **Two (2) Trident Filters, No. 2 and No. 5, need recoating and new filter and clarifier media.**

The service includes removal, packaging and disposal of existing filter and clarifier media and installation of new media for two (2) Trident Filters, per design. Contractor is expected to repair or replace existing underdrains as needed.

The service includes the following recommended Sherwin Williams Steel preparation and coating system: SSPC-SP10 Near-White Blast Cleaning, apply finish coat – Sherwin Williams Sherplate PW Epoxy @ 30-45 mils DFT for two (2) Trident Filters. The coating material must be NSF approved to standard 61 for potable water and meets new AWWA D102 standards.

SCOPE OF WORK

Although the District is attempting to identify the limits and services required, this should not unnecessarily limit the firm in the development of a scope it believes is necessary to meet the District’s goals and objectives.

This section covers removing and disposing existing media and furnishing and installing support gravel and multimedia filter media for the 2 filters at the Oliver P. Roemer Water Treatment Plant. Filter media shall be furnished and installed in the filter as indicated on the drawings, as specified, and as required to provide a properly operating filter installation acceptable to the District.

If a vacuum truck is used to remove filter media, it must be parked outside the filter plant and the vacuum hose or pipe must be able to go up the stairs and down to the floor of the filter bed—100 feet from the filter to the access door.

Removal of existing interior coating and recoat work on the Oliver P. Roemer Trident Filter Nos. 2 and 5. The coating material must be NSF approved to standard 61 for potable water and meets new AWWA D102 and AWWA C210 standards. The District recommends SherPlate PW Epoxy. Full containment, environmental control, and protection of underdrains throughout the coatings process.

Fabricate and install 304 or 316 stainless-steel 8-inch diameter air scour grid system with diffusers by WESTECH in (2) Filters Bay for future use. Air scour should deliver 2-3.4 scfm per square foot @ 5-7 psi max uniformly throughout the filter including the spool piece must be stainless steel and welded thru tanks prior to coating. System shall be installed and tested by the firm and approved by the District.

Filter media shall not be installed until testing, by others or District staff, of the filter box for water tightness, repair of leaks, and concrete damp proofing inside the filter box has been completed.

Installation of media shall be under the direct supervision and control of a competent and experienced field representative employed by the media supplier and acceptable to the District.

The filter is a tri-media gravity filter. It is 28 by 10 by 10 feet steel structures. The launder is 40 inches above the media. The filter includes an underdrain system, filter media, and the following piping: inlet and outlet pipes, backwash, surface wash, and wash water disposal piping. Filter media consists of anthracite coal, sand, and garnet over a layer of support gravel. The following table summarizes the design parameters of the filter:

Filtration Rate: 6 gpm/Sq. Ft. Maximum Filter Underdrain – Pipe: Schedule 80 PVC

| Material | Size Range (mm) | Specific Gravity | Hardness (Mohs scale) | Specified (Inches) |
|--------------------------------------|-----------------|------------------|-----------------------|--------------------|
| Filter Profile Dual Media Anthracite | 1.0-3.0 | 1.5-1.8 | 3 | 18 |
| Silica Sand | 0.45-0.50 | 2.6 | 7 | 9 |
| Garnet | 0.20-0.40 | 3.1-4.4 | 6.5-7.5 | 6 |
| Media Support Gravel | 1.0-50 | 2.6 | 7 | 12 |

Supply and install new Clarifier plastic media 50/50 Mix, new air nozzles and new gaskets.

Reinstall Filter internal piping.

Placement shall comply with AWWA B100, except as modified herein. Support gravel or media which becomes dirty or contaminated shall be removed and replaced with clean material.

The bottom layer shall be carefully placed to avoid damaged to the nozzle underdrain system. Each layer shall be completed before starting the layer above. For materials less than ½ inch in size, workmen shall not stand or walk directly on the media, but on boards which will sustain their weight without displacing the media.

Each layer of filter media shall be deposited by means of a tremie system to a uniform thickness, with the top surface screeded or otherwise brought to a true level plane. Care shall be taken in depositing each layer not to damage the quality or integrity of the media or to disturb the level surface of the layer beneath. The correct thickness of each layer shall be determined by screeding each layer to a continuous level line on the side of the filter box. The layer shall then be leveled with a water surface maintained at the appropriate elevation mark.

INTERRUPTION OF SERVICES

Interruptions to any services for the purposes of making or breaking a connection shall be made only after consulting with the District and shall be at such time and of such duration as may be directed.

SEQUENCE OF CONSTRUCTION OPERATIONS

Before starting construction operations, Contractor shall confer with the District arrange the sequence of the construction operations.

HOURS OF WORK

Contractor shall submit an approved work schedule prior to starting related work.

EVALUATION PROCESS AND SELECTION CRITERIA

The District's evaluation and selection process is based upon meeting all requirements listed above. to the District. **The district reserves the right to award project to the lowest responsible responsive bidder.**

ATTACHMENTS

Attachment A – Trident Water Systems Filter Media Design – Model

Attachment B – Air scour grid system Design - Model

ADDENDUM NO. 1**October 12, 2023****WEST VALLEY WATER DISTRICT
RIALTO, CA****CONTRACT DOCUMENTS FOR****Water Treatment Facility Media Replacement and Coating Project****BID DATE: October 20, 2023 at 5:00 PM**

The following information, clarifications, changes, additions, and/or deletions shall be made to the above-referenced plans and specifications.

CHANGES:

**The Coating Material must be NSF 600
Approved for potable water.**

During the job walk, the District became aware of the new NSF 600 standards effective January 1, 2023.

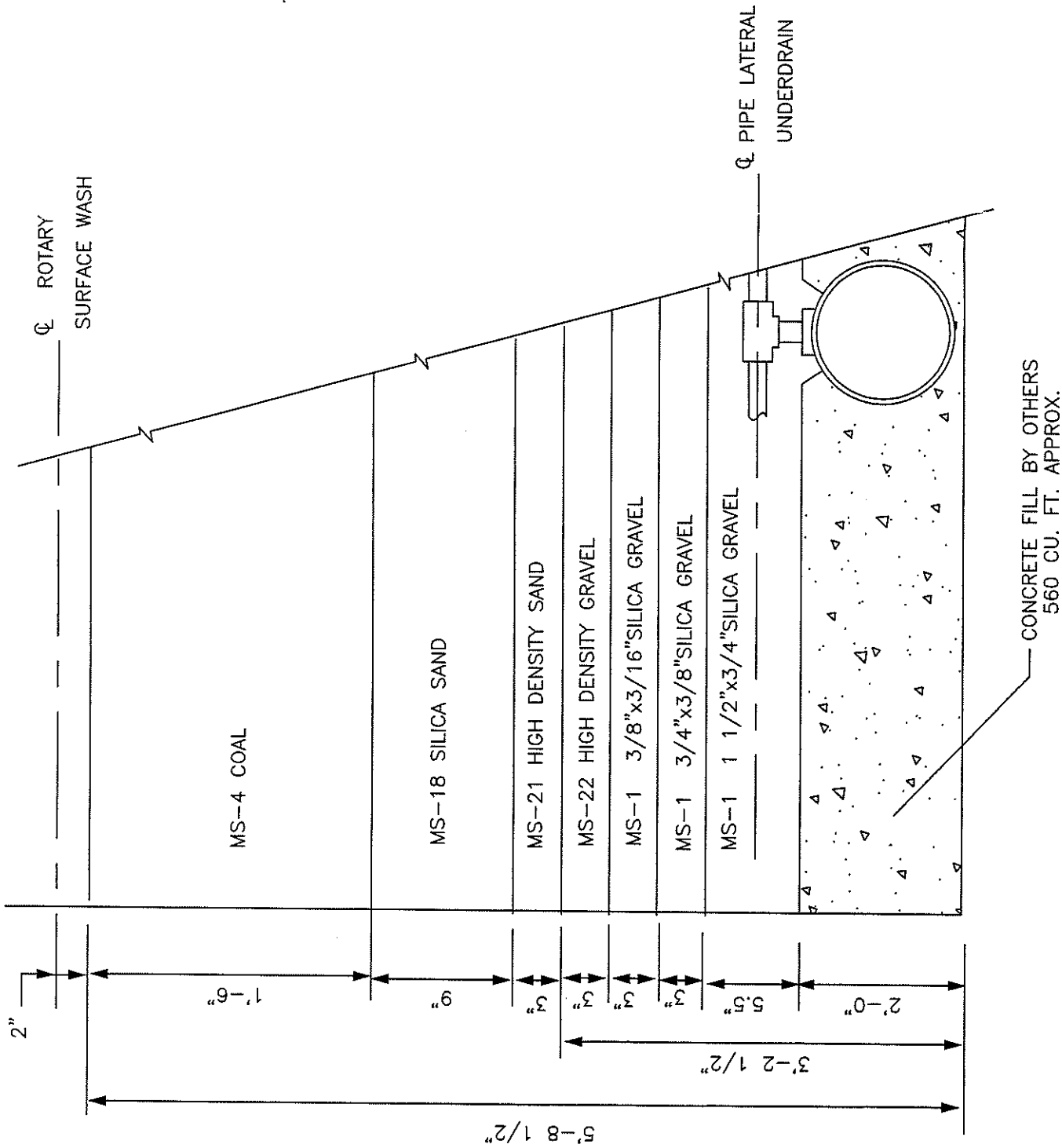
ATTACHMENT A

B.O.M. QUANTITIES ARE FOR ONE TANK ONLY

| | |
|---|------------------------|
| B.O.M. NUMBER | L4C-1A |
| UNIT DESIGNATION | 1/2TR-840A |
| BED AREA (SQ. FT. EACH FILTER) | 280 |
| VOLUME OF UNDERDRAIN HEADER WITHIN THE CONCRETE FILL (CU.FT.) | 56 |
| VOLUME OF UNDERDRAIN WITHIN THE 1 1/2"x3/4" MS-1 LAYER (FT ³) | 12 |
| BACKWASH RATE AT 60° F. (SEE NOTE 5) | 15 GPM/FT ² |
| BACKWASH FLOW AT 60° F | 4200 GPM |
| MEDIA PLACEMENT WATER QUANTITY REQ'D AT 60° F | 100,000 GAL./TANK |

NOTES:

- 1A FILTER MEDIA AND GRAVEL BAGS MUST BE PROTECTED FROM THE WEATHER AND STACKED NOT MORE THAN 5(FIVE) HIGH TO PRECLUDE BREAKAGE.
- 1B WHEN BULK SHIPMENT IS USED, FILTER MEDIA AND GRAVEL MUST BE PROTECTED FROM THE WEATHER AND COVERED TO PREVENT WIND-BLOWN LOSS.
- 2 DURING MEDIA PLACEMENT, APPROXIMATELY TWO BACKWASH AND SKIMMING OPERATIONS WILL BE REQUIRED. EACH BACKWASH WILL BE ABOUT 10 MINUTES DURATION.
- 3 FILTER MEDIA AND GRAVEL PLACEMENT MUST BE DONE UNDER CPC TECHNICAL DIRECTION AFTER ALL ELECTRICAL, HYDRAULIC AND CONTROL SYSTEMS ARE INSTALLED AND/OR REPAIRED AND OPERABLE PRIOR TO ARRIVAL OF TECHNICAL DIRECTOR.
- 4 PLACEMENT TOLERANCE:
THE FOLLOWING TOLERANCES SHALL APPLY TO MEDIA AND GRAVEL PLACEMENT.
1-1/2" LAYERS ± 1/4"
3" LAYERS ± 1/2"
9" & DEEPER ± 1"
FINISHED GRAVEL DEPTH ± 1"
FINISHED FILTER BED ± 1"
- 5 ALL LAYERS OF MEDIA AND GRAVEL TO BE LEVEL IN ACCORDANCE WITH CPC MEDIA AND GRAVEL PLACEMENT SPECIFICATIONS.
THIS RATE FOR BACKWASH DURING MEDIA PLACEMENT AND DOES NOT INCLUDE SURFACE WASH FLOW RATE OF APPROXIMATELY 75 TO 2.0 GPM/SQ.FT. TOTAL RISE RATE WITH SURFACE WASH ON AFTER MEDIA PLACEMENT APPROXIMATELY 27 IN./MIN.
- 6 FILTER GUARANTEE REQUIRES CPC TECHNICAL DIRECTION DURING MEDIA PLACEMENT.



COMPANY CONFIDENTIAL
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| | | | |
|-------------|---------|------|------|
| DESIGNER | DATE | DATE | DATE |
| RGS | JUNE 84 | | |
| CHECKER | EG | | |
| ENGINEER | DATE | | |
| MANAGER | DATE | | |
| FILE: L4C-1 | | | |

| | | | | | | |
|-----|---|----------|-----|-----|------|-----|
| REV | DESCRIPTION | DATE | DWN | CHD | APVD | ECN |
| 3 | REPLACED OLD BORDER. | 03/03/04 | | | | |
| 2 | CHANGED MS-21 & MS-22 MATERIAL FROM ILLUMINITE TO GARNET. | 7/16/97 | | | | |
| 1 | REV'D VOL. 1 1/2 X 3/4, ADDED WATER QTY | 1-87 | VSA | | | |

| | | |
|-------------|---------|--|
| DESIGNER | DATE | TITLE |
| RGS | JUNE 84 | TRIDENT WATER SYSTEMS |
| CHECKER | EG | FILTER MEDIA DESIGN - MODEL 1/2TR-840A |
| ENGINEER | DATE | CUSTOMER |
| MANAGER | DATE | |
| FILE: L4C-1 | | |

PROJECT CODE DRAWING L4C-1 SHEET 1 OF 1 REV 3

US Filter
441 MAIN STREET
STURBRIDGE, MA 01562
TEL: 1-800-636-2674

BAR = 1" AT PLOT SCALE

INTL REF:

STD: 2-0600-11X17B

ATTACHMENT B

- 1. A STAR DENOTES VARIANCE FROM CONTRACT DOCUMENTS AND SHOULD BE PARTICULARLY NOTED. ★
- 2. CONTRACTOR TO VERIFY OR SUPPLY ALL DIMENSIONS SHOWN IN CLOUDS. ☁

3. DIMENSIONS, LOADS, AND OTHER INFORMATION ARE PROVIDED FOR CONFIRMATION BY OTHERS OF POSITION AND INTERFACE BETWEEN NEW OR EXISTING CONCRETE, EQUIPMENT, PLANT STRUCTURE, OTHER SYSTEMS AND APPURTENANCES AS SHOWN ON THE GENERAL ARRANGEMENT DRAWINGS.

4. SUBMITTED DRAWINGS AND INFORMATION ARE NOT TO BE USED FOR CONSTRUCTION OR INSTALLATION PURPOSES UNTIL CUSTOMER APPROVAL HAS BEEN ISSUED. WESTECH WILL NOT PROCEED WITH FABRICATION OR DELIVERY UNTIL SUCH APPROVAL IS RECEIVED.

5. WESTECH IS NOT RESPONSIBLE FOR NEW OR EXISTING CONCRETE DESIGN, INCLUDING NECESSARY REINFORCEMENT FOR ANCHOR BOLTS, UNLESS SPECIFICALLY INDICATED OTHERWISE. THE SUITABILITY OF NEW OR EXISTING CONCRETE, EQUIPMENT, TANKAGE, OR STRUCTURES TO WITHSTAND THE DESIGN LOADS AT THE INTERFACE OF WESTECH'S EQUIPMENT IS TO BE DEFINED, CONFIRMED OR OTHERWISE PROVIDED BY OTHERS.

6. WESTECH IS NOT RESPONSIBLE FOR DAMAGE, INJURY OR LOSS RESULTING FROM IMPROPER USE OF THIS EQUIPMENT.

7. MODIFICATIONS, ADDITIONS OR CORRECTIONS TO THE APPROVED EQUIPMENT WILL NOT BE ACCEPTED BY WESTECH, UNLESS A CHANGE ORDER IS ISSUED AND APPROVED.

8. ROTATING EQUIPMENT IS DESIGNED TO OPERATE ONLY IN THE INDICATED DIRECTION. WESTECH IS NOT RESPONSIBLE FOR DAMAGE IF OPERATED IN THE OPPOSITE DIRECTION.

9. WESTECH DOES NOT FURNISH CONCRETE, GROUT, CONCRETE REINFORCING, PIPING, VALVES, PIPE SUPPORTS OR FITTINGS; WALL BRACKETS, ELECTRICAL WIRING, CONDUIT, ELECTRICAL EQUIPMENT, ERECTION, INSTALLATION, FIELD ASSEMBLY, SHIMMING MATERIALS, CAULK OR MASTIC, FIELD PAINTING OR PAINT, FIELD WELDING OR WELD ROD, WATER FOR TESTING, GREASE, ANTI-SEIZE OR LUBRICATING OIL, UNLESS SPECIFICALLY NOTED.

10. SHOP SURFACE PREPARATION AND SHOP PAINTING OF PRIME COATS ARE DESIGNED TO PROVIDE ONLY A MINIMAL PROTECTION FROM TIME OF APPLICATION PER THE COATING MANUFACTURER'S DATA SHEET. WESTECH DOES NOT GUARANTEE CONDITION OF PREPARED OR PAINTED ITEMS ONCE THE ITEMS LEAVE THE SHOP. CUSTOMER SHOP INSPECTION OF PAINTED ITEMS IS WELCOME TO VERIFY APPLICATION. ALL FIELD SURFACE PREPARATION, FIELD PAINT, TOUCH-UP, AND REPAIR TO SHOP PAINTED SURFACES ARE NOT BY WESTECH. RESPONSIBILITY FOR COMPATIBILITY OF SHOP AND FIELD APPLIED COATINGS IS BY OTHERS.

11. DOCUMENTS DEFINING WESTECH SUPPLIED SURFACE PREPARATION AND SHOP/FIELD PAINT SPECIFICATIONS ARE SUBMITTED WITH THE GENERAL ARRANGEMENT DRAWINGS AND WILL INCLUDE COATING DATA SHEET(S) AND/OR A STAINLESS-STEEL CLEANING GRADE SHEET AND FINISH LEVEL SHEET.

12. WHERE APPLICABLE, ANCHOR BOLT DETAILS ARE SHOWN ON JOB-SPECIFIC DRAWINGS AND SHALL CONFORM TO ONE OR MORE OF THE FOLLOWING SPECIFICATIONS:

- CARBON STEEL HEADED OR ALL-THREAD ROD - ASTM F1554, GRADE 36, GRADE 55, OR GRADE 105
- STAINLESS STEEL HEADED OR ALL-THREAD ROD - ASTM F593, ASTM A193
- ADHESIVE ANCHORS SHALL MEET THE REQUIREMENTS OF ASTM E1512 AND SHALL HAVE A PUBLISHED ICC/ES REPORT.
- WEDGE ANCHORS SHALL HAVE A PUBLISHED ICC/ES REPORT.

13. MATERIALS AND COATINGS OF FASTENERS ARE IDENTIFIED ON JOB-SPECIFIC GENERAL ARRANGEMENT DRAWINGS. BOLTS SHALL CONFORM TO ONE OR MORE OF THE FOLLOWING SPECIFICATIONS WITH DIMENSIONS PER ASME B18.2.1 AND B18.2.2:

- CARBON STEEL - ASTM F3125, GRADE A325, GRADE A490; ASTM A307 GRADE A
- STAINLESS STEEL - AISI TYPE 304 OR 316
- STAINLESS STEEL - ASTM F593/F593M (GENERAL PURPOSE)
- STAINLESS STEEL - ASTM A193 GRADE B8 (304), GRADE B8M (316) (HIGH PRESSURE, HIGH TEMPERATURE)

14. THE FOLLOWING DEFINES THE ACCEPTABLE MATERIALS USED FOR WESTECH SUPPLIED EQUIPMENT AS SPECIFIED AND SHOWN ON THE GENERAL ARRANGEMENT DRAWINGS. ANY MATERIAL OR ITEMS NOT INCLUDED HERE SHALL BE CLEARLY SPECIFIED ON THE GENERAL ARRANGEMENT DRAWINGS.

A. CARBON STEEL SHALL MEET THE FOLLOWING SPECIFICATIONS AND REQUIREMENTS:

- STEEL SHAPES W, WT - ASTM A992/A992M
- STEEL SHAPES M, MT, S, ST, C, MC, L - ASTM A36/A36M
- STEEL PLATES AND BARS - ASTM A36/A36M; A572/A572M GRADE 50; A529/A529M
- STEEL SHAPE HP - ASTM A572/A572M GRADE 50
- STEEL PIPE - ASTM A53/A53M GRADE B, ASTM 106/A106M, API 5L
- HOLLOW STRUCTURAL SECTIONS (HSS), ROUND, SQUARE, RECTANGULAR - ASTM A500/A500M GRADE C; A1085/A1085M
- SHEETS - A1011/A1011M
- PIPE FITTINGS - ASTM A234/A234M; ASME B16.11
- ALL WELDING SHALL CONFORM TO THE LATEST AWS D1.1 CODE OR ASME BPVC SECTION IX.
- ALL SUBMERGED STRUCTURAL STEEL MEMBERS SHALL HAVE A MINIMUM 1/4" THICKNESS UNLESS NOTED OTHERWISE.
- SOME SHAPES MAY BE FORMED BY BENDING AND/OR WELDING. ∇ B

B. STAINLESS STEEL SHALL MEET THE FOLLOWING SPECIFICATIONS AND REQUIREMENTS:

- AUSTENITIC BARS, ROUND AND SQUARES, AND HOT ROLLED EXTRUDED SHAPES SUCH AS ANGLES, TEES, AND CHANNELS - ASTM A276; ASTM A484/A484M; ASTM A564/A564M
- AUSTENITIC LASER-FUSED BARS, PLATES, ANGLES, TEES, CHANNELS, AND W SHAPES - ASTM A1069/A1069M
- AUSTENITIC PLATES, SHEETS, STRIPS - ASTM A240/A240M; ASTM A480/A480M
- AUSTENITIC PIPES - ASTM A312/A312M
- AUSTENITIC HOLLOW STRUCTURAL SHAPES (HSS), ROUND, SQUARE, RECTANGULAR - ASTM A554
- PIPE FITTINGS - ASTM A182; ASME SA 182; ASME B16.11
- DUPLEX PLATES, SHEETS, STRIPS - ASTM A240/A240M; ASTM A480/A480M
- DUPLEX PIPES - ASTM A790/A790M
- DUPLEX HOLLOW STRUCTURAL SHAPES - MADE FROM PLATE ∇ A
- ALL WELDING SHALL CONFORM TO THE LATEST AWS D1.6 CODE OR ASME BPVC SECTION IX.
- SOME SHAPES MAY BE FORMED BY BENDING AND/OR WELDING.

C. ALUMINUM SHALL MEET THE FOLLOWING SPECIFICATIONS AND REQUIREMENTS:

- EXTRUDED BARS, RODS, WIRE, STRUCTURAL PROFILES AND TUBES - ASTM B221/B221M
- STANDARD STRUCTURAL PROFILES - ASTM B308/B308M (FOR ALLOY 6061-T6 ONLY)
- PLATE AND SHEET - ASTM B209/B209M
- DRAWN SEAMLESS TUBE - ASTM B210/B210M; ASTM B483/B483M
- EXTRUDED SEAMLESS TUBE AND PIPE - ASTM B241/B241M; B429/B429M ∇ C
- PIPE FITTINGS - ASTM B361
- ALL WELDING SHALL CONFORM TO THE LATEST AWS D1.2 CODE.
- SOME SHAPES MAY BE FORMED BY BENDING AND/OR WELDING.

D. TANK MATERIALS SHALL CONFORM TO THE SPECIFICATIONS IN API 650 OR AWWA D100 AS NOTED ON THE GENERAL ARRANGEMENT DRAWINGS. SPECIFIED MATERIALS ARE SHOWN ON THE GENERAL ARRANGEMENT DRAWINGS. ALL WELDING SHALL CONFORM TO THE ASME BPVC - SECTION IX.

∇ B. **ASME STAMPED PRESSURE VESSELS** SHALL CONFORM TO ASME BPVC SECTION VIII OR SECTION X (FOR FRP TANKS), THE DESIGN CALCULATIONS AND THE GENERAL ARRANGEMENT DRAWINGS.

∇ A.15. ITEMS SHOWN, NOTED OR DESCRIBED ON THE GENERAL ARRANGEMENT DRAWINGS SUPERSEDE ANY CONFLICTING ITEMS WITHIN THESE NOTES.

| | | | |
|---------------------|-----------------------|---------------------|------------|
| TITLE | | GENERAL NOTES | |
| DESIGNER | CHECKER | APPROVER | DATE |
| WH17 | DESIGN/DETAIL COUNCIL | ENGINEERING COUNCIL | 2020/11/11 |
| JOB NUMBER | DOCUMENT NUMBER | | SHEET |
| | 0000647822 | | 1 OF 1 |
| REFERENCE DOCUMENTS | | REV | |
| | | C | |

| | | | |
|-----|----------|----------|------------|
| ECN | DESIGNER | APPROVER | DATE |
| --- | WH17 | TON2 | 2022/10/11 |
| --- | WH17 | ARS/ST14 | 2021/04/12 |
| --- | WH17 | ARS/ST14 | 2020/11/24 |

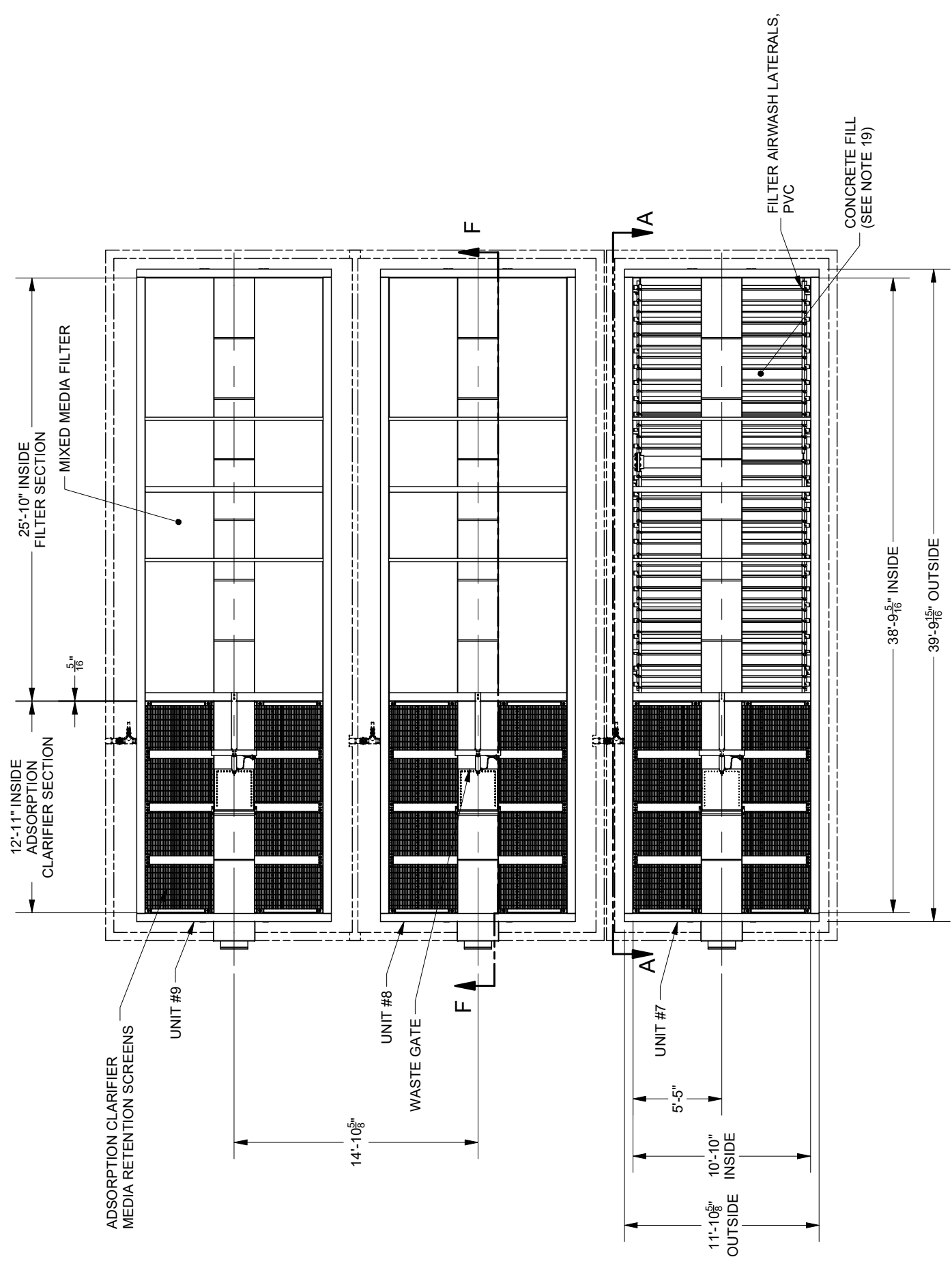
| | |
|-----|---|
| REV | REVISION DESCRIPTION |
| C | ADDED TO NOTES 3 & 5, "BY OTHERS", "NEW OR EXISTING", "OTHERWISE. THE SUITABILITY OF NEW OR EXISTING...", B429/B429M WAS B429/B428M |
| B | ADD NOTE 15. ADD BEND NOTE UNDER 14.A (LAST BULLET), ADD "ASME STAMPED" & "OR SECTION X" TO NOTE 14E |
| A | REMOVED "SEE 10.B.2" FROM END OF 14.B BULLET POINT 9 |

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| TRIDENT® PROCESS DESIGN INFORMATION | | |
|-------------------------------------|------------|-----------|
| DESIGN FLOW: | 1,680 | GPM |
| CLARIFIER LOADING RATE: | 12 | GPM/SQ FT |
| CLARIFIER AIR SCOUR FLOW: | 475 | SCFM |
| FILTER LOADING RATE: | 6 | GPM/SQ FT |
| FILTER BW FLOW, HIGH RATE: | 5,040 @ 25 | GPM @ °C |
| FILTER BW FLOW, LOW RATE: | 1,680 | GPM |
| FILTER AIR SCOUR FLOW: | 950 | SCFM |

APPROXIMATE EMPTY (PER UNIT): 227,327 LBS
 APPROXIMATE OPERATING WEIGHT (PER UNIT): 332,189 LBS
 APPROXIMATE SHIPPING WEIGHT (PER UNIT): 30,702 LBS



PLAN
 FILTER MEDIA IS NOT SHOWN IN UNIT 7

PREPARED FOR: OLIVER P. ROEMER W/F
 RIALTO, CALIFORNIA

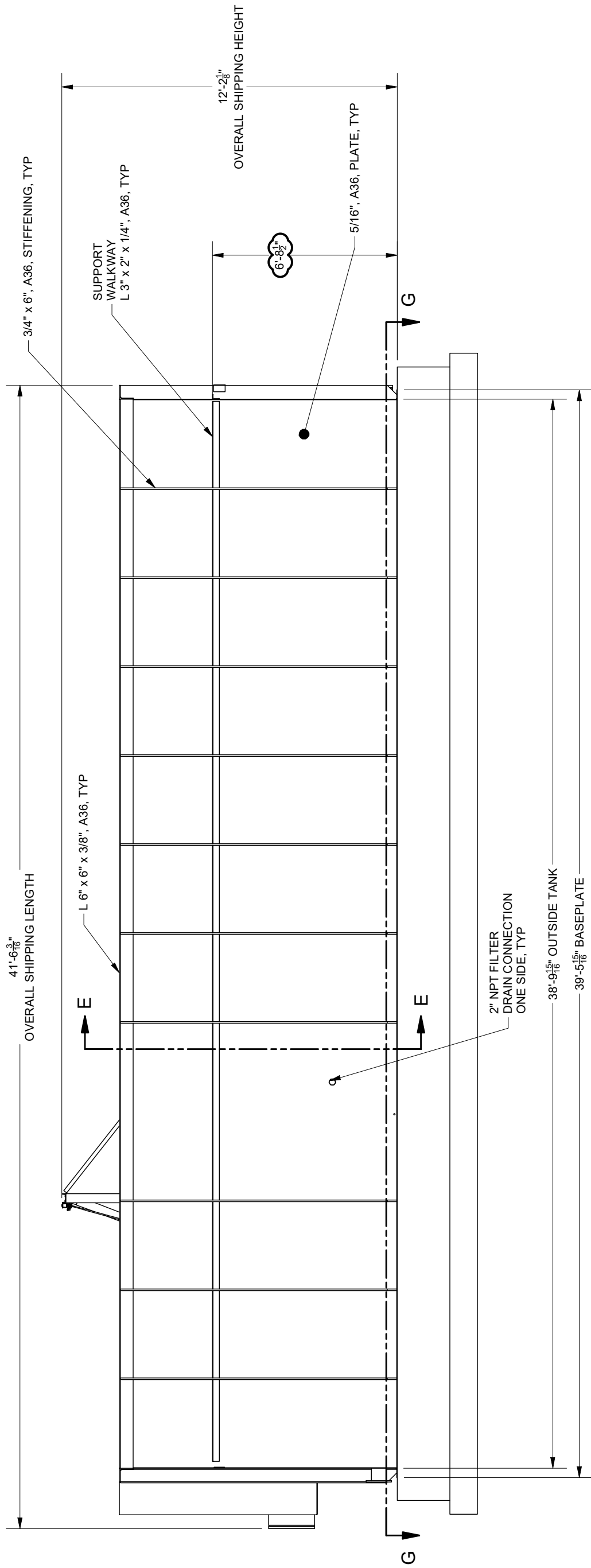
ENGINEER: STANTEC
 PASADENA, CALIFORNIA

CONTRACTOR: PCL CONSTRUCTION
 LONG BEACH, CALIFORNIA

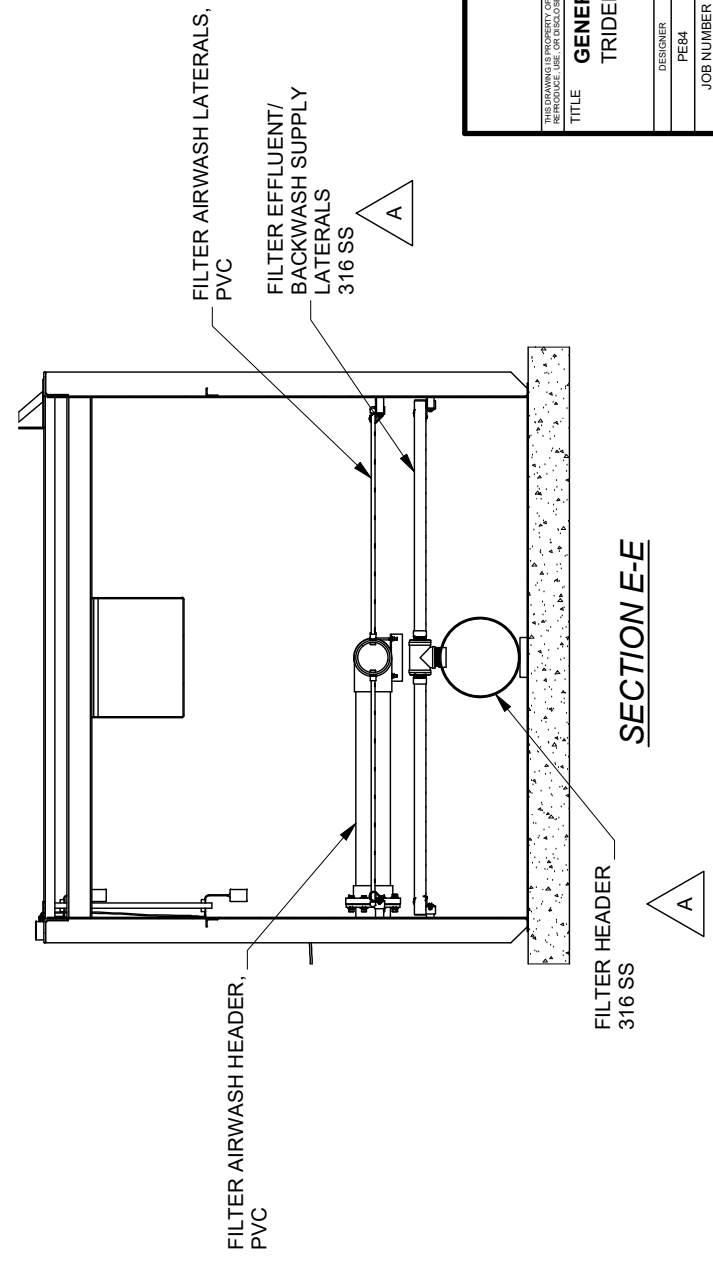
PO/CONTRACT NUMBER: 03269401-OM

| | |
|--|-----------------------------|
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| TITLE: GENERAL ARRANGEMENT | |
| TRIDENT® TR-840A WATER TREATMENT SYSTEM | |
| DESIGNER: PE84 | CHECKER: DE111 |
| APPROVER: DE111 | DATE: 2023-01-04 |
| JOB NUMBER: 24862A | DOCUMENT NUMBER: 0002885559 |
| REFERENCE DOCUMENTS | 1 OF 9 |

| REV | REVISION DESCRIPTION | EON | DESIGNER | APPROVER | DATE |
|-----|--|-----|----------|----------|------------|
| D | UPDATED ANCHOR BOLTS LOCATIONS | - | PE84 | DE111 | 2023-06-09 |
| C | UPDATED ANCHOR BOLTS LOCATIONS, AND CONCRETE PAD DIMENSION BASED ON REVISED CALCULATIONS. | - | PE84 | DE111 | 2023-07-21 |
| B | UPDATED BASEPLATE, ANCHOR BOLTS, AND CONCRETE PAD DIMENSION BASED ON REVISED CALCULATIONS. | - | PE84 | DE111 | 2023-07-07 |
| A | STAINLESS STEEL AND LOCATION CHANGES FOR INLET AND AIR GRID NOZZLE. CONCRETE PAD CHANGES. | - | PE84 | DE111 | 2023-05-25 |



SIDE ELEVATION



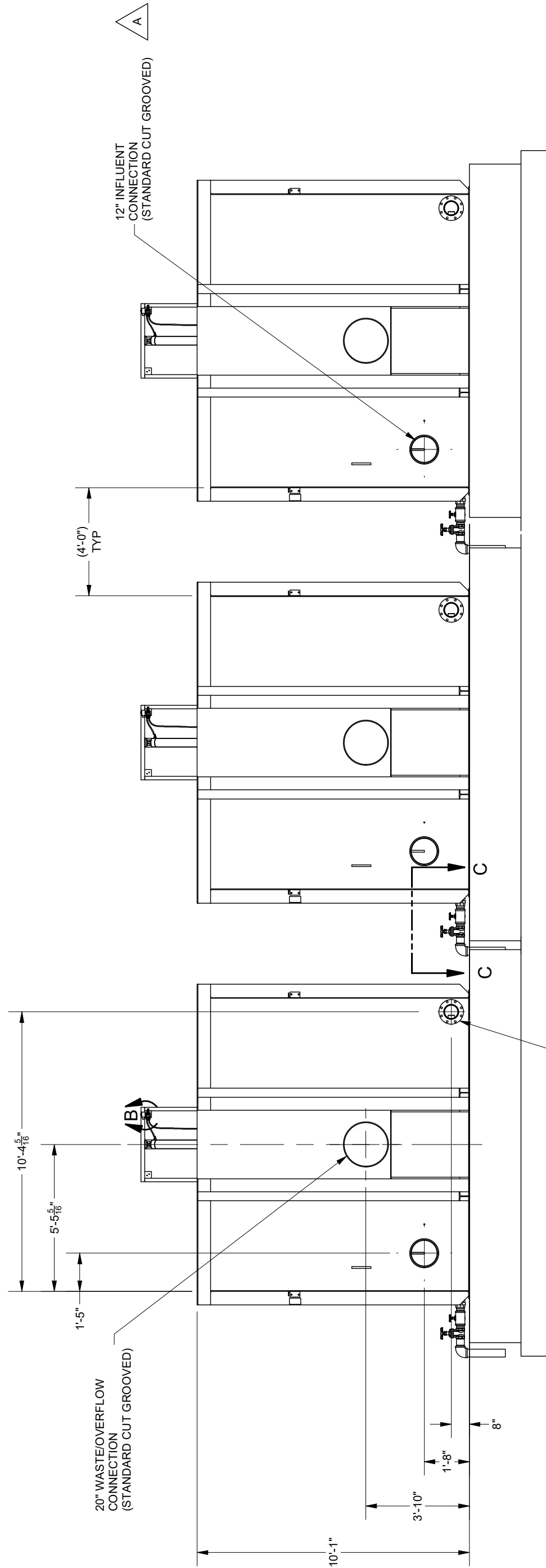
WESTECH®

GENERAL ARRANGEMENT

TRIDENT® TR-840A WATER TREATMENT SYSTEM

| | | | |
|------------|-----------------|----------|------------|
| DESIGNER | CHECKER | APPROVER | DATE |
| PE84 | DE111 | DE111 | 2023-01-04 |
| JOB NUMBER | DOCUMENT NUMBER | SHEET | |
| 24862A | 0002885559 | 2 OF 9 | |

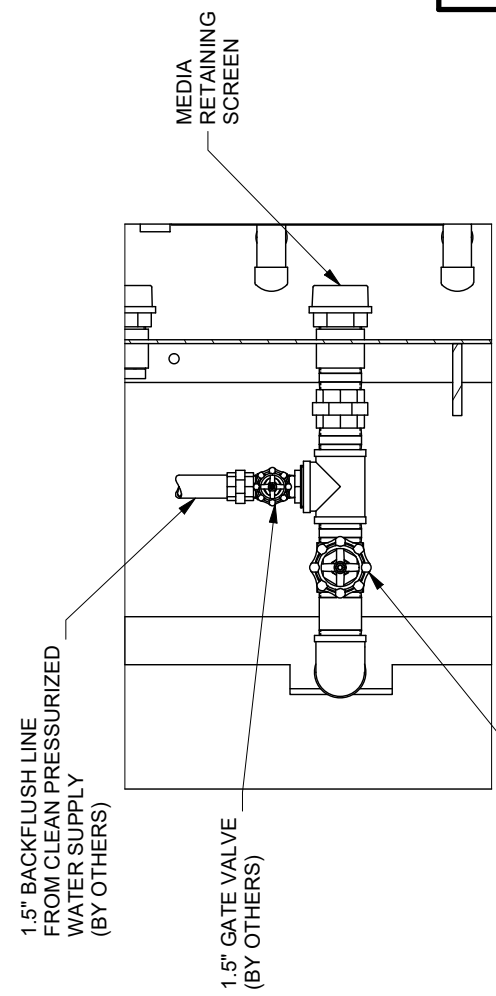
3.7.a



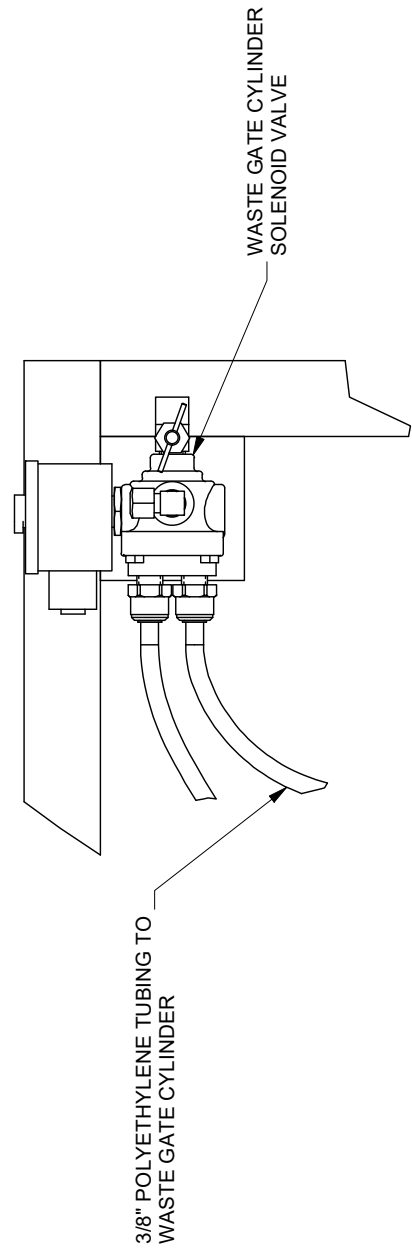
6" ADSORPTION CLARIFIER
AIR (FLAT FLANGED #150)



INFLUENT END



SECTION C-C
RECOMMENDED PIPING SHOWN.
ALL COMPONENTS OUTSIDE OF TANK
ARE SUPPLIED BY OTHERS.



DETAIL B

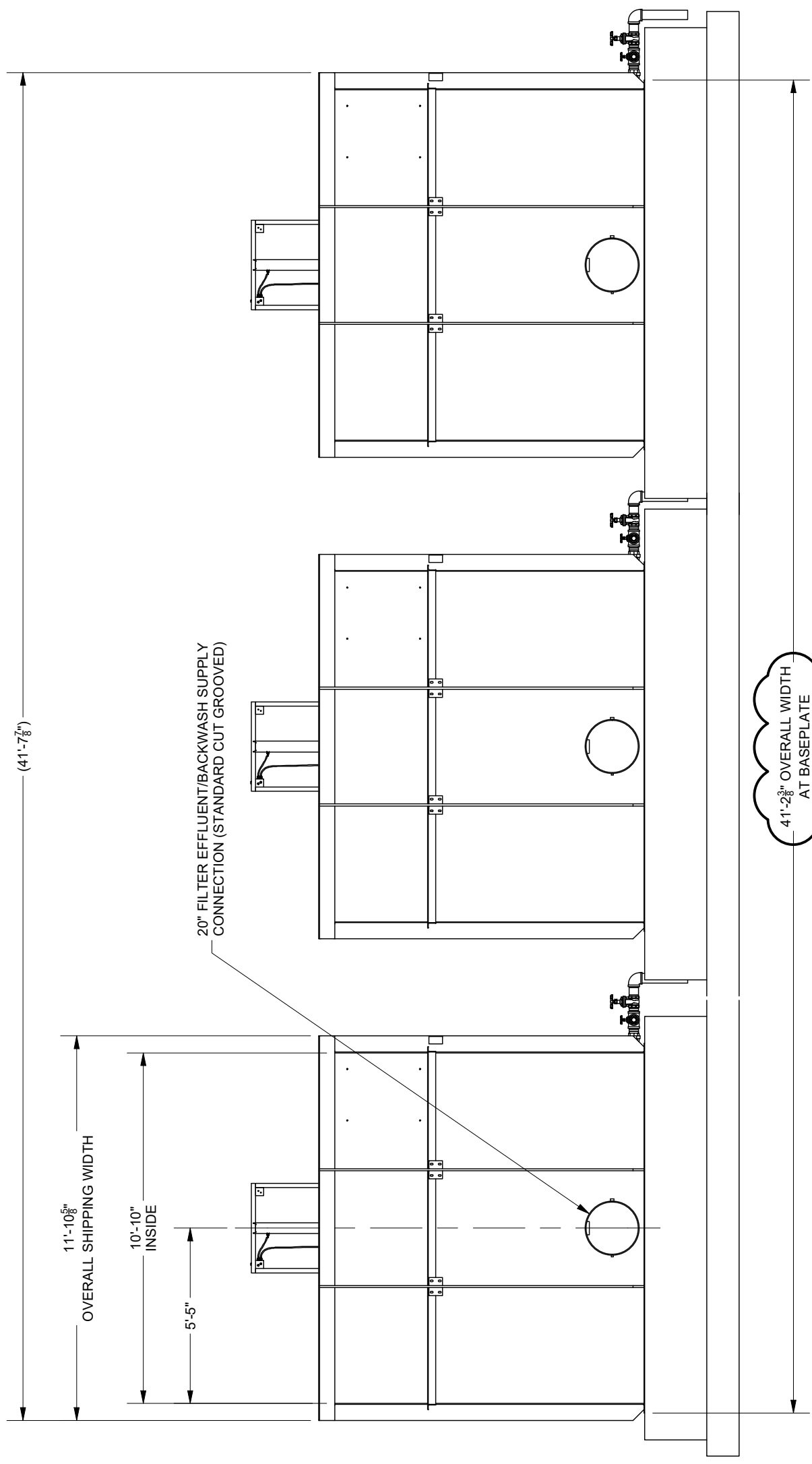
WESTECH®

GENERAL ARRANGEMENT

TRIDENT® TR-840A WATER TREATMENT SYSTEM

| | | | |
|------------|-----------------|----------|------------|
| DESIGNER | CHECKER | APPROVER | DATE |
| PE84 | DE111 | DE111 | 2023-01-04 |
| JOB NUMBER | DOCUMENT NUMBER | SHEET | |
| 24862A | 0002885559 | 3 OF 9 | |

3.7.a



20" FILTER EFFLUENT/BACKWASH SUPPLY CONNECTION (STANDARD CUT GROOVED)

41'-2³/₈" OVERALL WIDTH AT BASEPLATE

EFFLUENT END

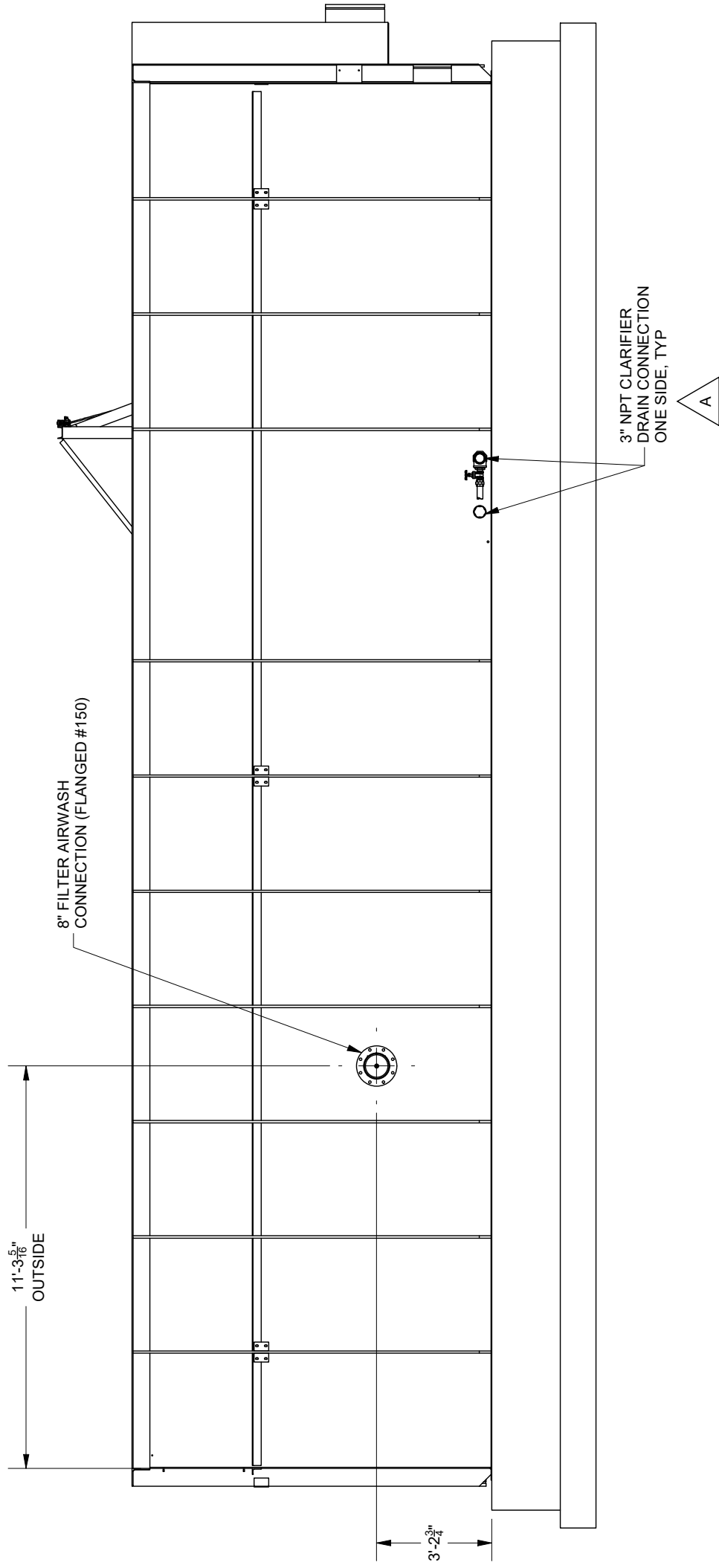
WESTECH®

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TITLE **GENERAL ARRANGEMENT**
TRIDENT® TR-840A WATER TREATMENT SYSTEM

| | | | |
|------------|-----------------|----------|------------|
| DESIGNER | CHECKER | APPROVER | DATE |
| PE84 | DE111 | DE111 | 2023-01-04 |
| JOB NUMBER | DOCUMENT NUMBER | SHEET | |
| 24862A | 0002885559 | 4 OF 9 | |

3.7.a



SECTION A-A
FROM SHEET 1

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TITLE **GENERAL ARRANGEMENT**

TRIDENT® TR-840A WATER TREATMENT SYSTEM

| DESIGNER | CHECKER | APPROVER | DATE |
|------------|-----------------|----------|------------|
| PE84 | DE111 | DE111 | 2023-01-04 |
| JOB NUMBER | DOCUMENT NUMBER | SHEET | |
| 24862A | 0002885559 | 5 OF 9 | |

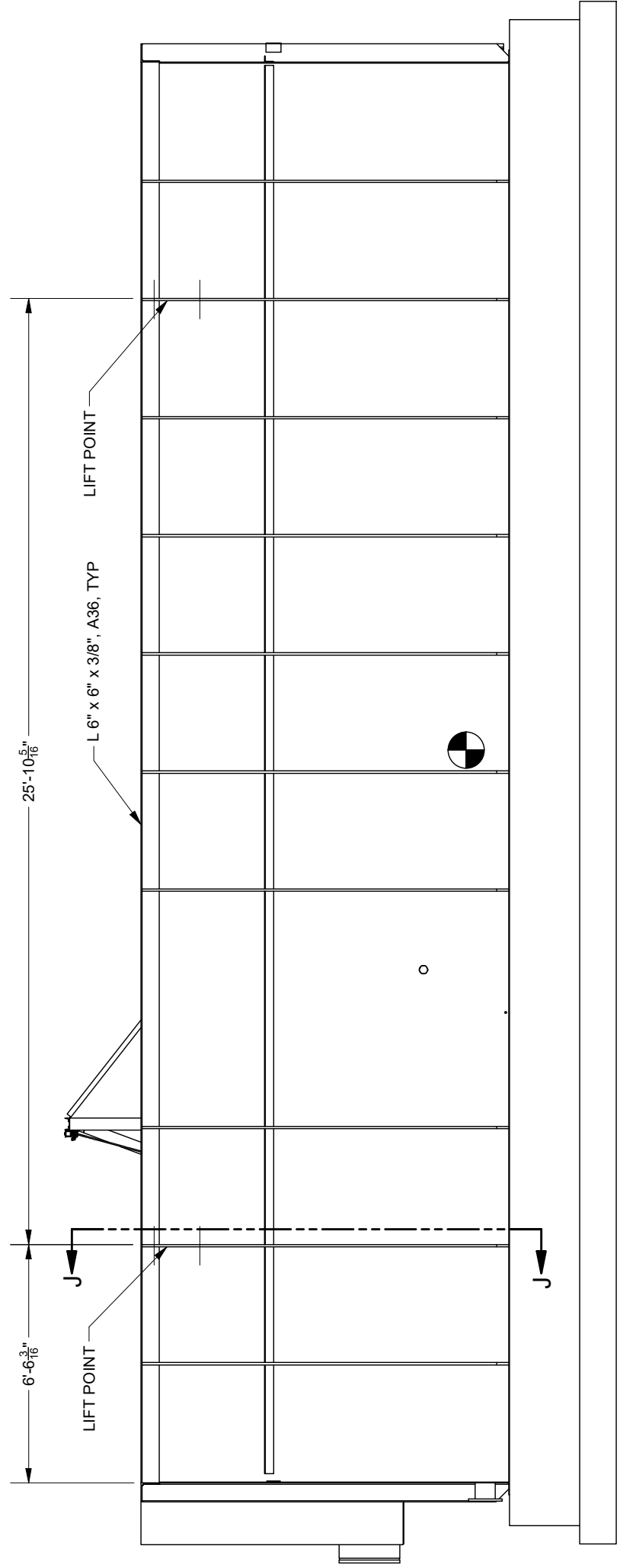
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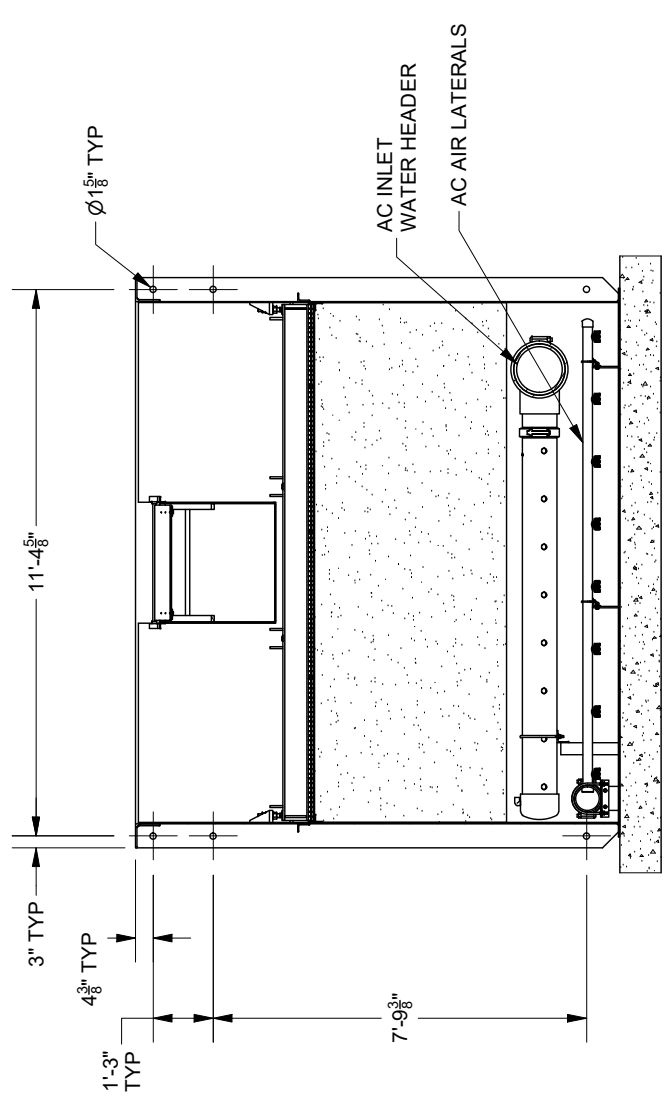
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GENERAL ARRANGEMENT
TRIDENT® TR-840A WATER TREATMENT SYSTEM

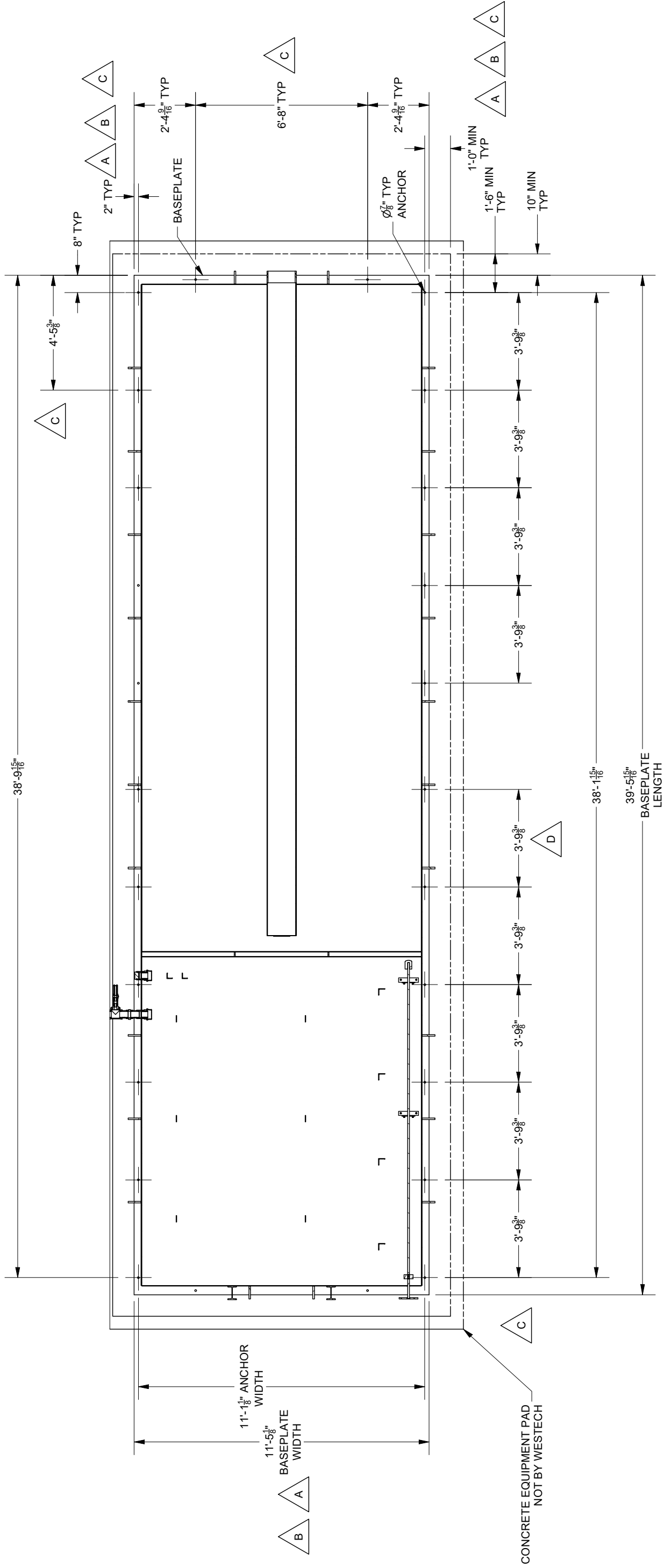
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| PE84 | DE111 | DE111 | 2023-01-04 |
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SIDE ELEVATION
LIFT POINTS



SECTION J-J
LIFT POINTS



SECTION G-G
ANCHOR HOLE POSITIONS
FROM SHEET 2

3.7.a

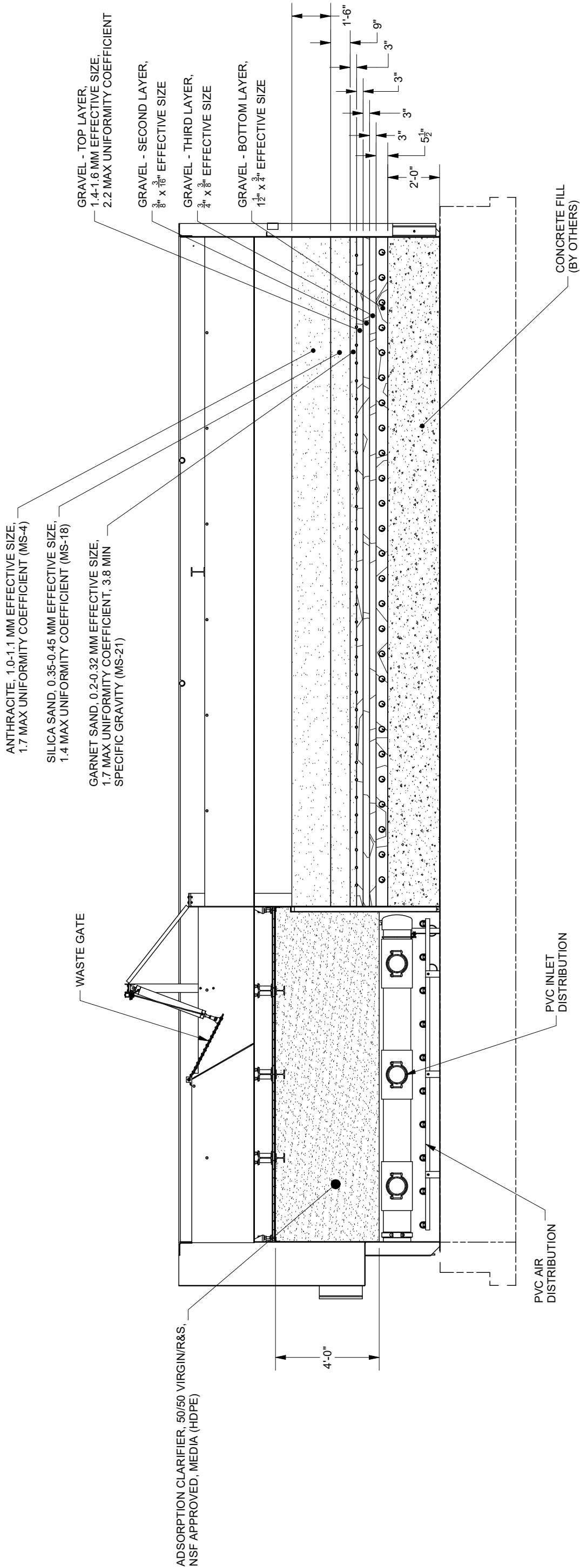
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TITLE: GENERAL ARRANGEMENT
TRIDENT® TR-840A WATER TREATMENT SYSTEM

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- NOTES:**
1. ANCHORS ARE BY OTHERS.
 2. PER STAMPED ANCHOR CALCULATIONS A MIN 6" EDGE DISTANCE AND EMBEDMENT DEPTH OF 20" IS REQUIRED.
 3. ANCHOR TYPE AND DIAMETER: HIT-HY 200 V3 + HAS-R 304/316 SS 3/4
 4. MIN EMBED LENGTH: 13" EPOXY FILLED + 6" UNBONDED LENGTH (ASCE 7-16 SECTION 15.7.5)



SECTION F-F
FROM SHEET 1



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GENERAL ARRANGEMENT

TRIDENT® TR-840A WATER TREATMENT SYSTEM

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NOTES:

1. MEDIA ARE FIELD INSTALLATION BY OTHERS.

NOTES:

1. EQUIPMENT FURNISHED BY WESTECH IS DESCRIBED IN A SEPARATE EQUIPMENT LIST. ADDITIONAL PIPING, PIPE SUPPORTS, AND CONNECTION FITTINGS ARE NOT INCLUDED WITH STANDARD UNIT. MAJOR EQUIPMENT AND COMPONENTS TO BE INSTALLED AT THE JOBSITE BY THE INSTALLING CONTRACTOR.
2. EQUIPMENT CONCRETE PAD DESIGN IS THE RESPONSIBILITY OF THE CONSULTING ENGINEER.
3. DESIGN AND APPLICATION FEATURES ARE DESCRIBED IN TYPICAL SPECIFICATION SHEETS, TECHNICAL DATA SHEET, FLOW SCHEMATIC, ELECTRICAL DIAGRAM AND ELECTRICAL SCHEMATIC. ARRANGEMENT SHOWN IS FOR BELOW-GRADE FINISHED WATER STORAGE.
4. THE STANDARD DESIGN IS FOR INDOOR INSTALLATION.
5. CHECK VALVES OR BACKFLOW PREVENTERS ARE REQUIRED IN BACKWASH LINES AND FURNISHED BY OTHERS (NOT SHOWN ON DRAWING).
6. AUTOMATIC RATE OF FLOW CONTROL LOOPS ON EACH INFLUENT LINE MAINTAIN THE PRE-SET FLOW TO EACH UNIT. INFLUENT FLOW SET POINT MAY BE SET BY THE PLANT OPERATOR USING THE OIT. INFLUENT FLOW CONTROL IS INTERLOCKED WITH FLUSH AND BACKWASH CYCLES.
7. FILTER LIQUID LEVEL CONTROLLERS OPERATE FILTER EFFLUENT AND FILTER-TO-WASTE MODULATING VALVES TO MAINTAIN CONSTANT FILTER LEVEL.
8. CONTROL CIRCUITS PROVIDE FOR AUTOMATIC FLUSH AND BACKWASH CYCLE WITH RETURN TO OPERATING SERVICE, INITIATED BY TIME CLOCK, HIGH HEADLOSS, OR MANUAL PUSHBUTTON.
9. THREE LEVEL SWITCHES WITH DRY CONTACTS SHOULD BE PROVIDED BY THE CUSTOMER AND INSTALLED IN THE FINISHED WATER STORAGE TANK FOR THE AUTOMATIC OPERATION OF THE TRIDENT UNITS. ONE HIGH LEVEL SWITCH WILL STOP THE UNITS, ONE MID LEVEL SWITCH WILL START THE UNITS AND ONE LOW LEVEL SWITCH WILL SERVE AS A MINIMUM LEVEL TO ENABLE THE BACKWASH PROCESS.
10. THE HIGH LEVEL STOP AND THE MID LEVEL START SWITCHES SHOULD BE INSTALLED WITH SUFFICIENT VOLUME BETWEEN THEM TO PREVENT EXCESSIVE CYCLING OF THE TRIDENT UNITS.
11. THE LOW LEVEL BACKWASH ENABLE SWITCH SHOULD BE INSTALLED WHERE THE MINIMUM VOLUME IN THE BACKWASH SUPPLY TANK IS ADEQUATE TO PROVIDE A BACKWASH WITHOUT PULLING AIR INTO THE BACKWASH SUPPLY PUMP. THE MAXIMUM WATER TEMPERATURE SHOULD BE CONSIDERED WHEN CALCULATING THE MINIMUM BACKWASH VOLUME OR LEVEL IN THE TANK.
12. AN AIR RELEASE VALVE (BY OTHERS) IS REQUIRED AT HIGH POINTS OF THE BACKWASH SUPPLY LINE TO VENT ACCUMULATED AIR. THE VALVE(S) ARE TO BE SIZED TO ALLOW THE COMPLETE VOLUME OF THE BACKWASH LINE FROM SOURCE TO FILTER, TO BE VENTED IN 20 SECONDS WITH DIFFERENTIAL OF APPROXIMATELY 10 PSIG, AND BE CAPABLE OF CONTINUOUSLY VENTING ACCUMULATED AIR. FOR INSTALLATIONS UTILIZING VERTICAL TURBINE OR "CAN-TYPE" PUMPS, A SEPARATE "TURBINE AIR VALVE" IS REQUIRED TO VENT THE AIR CONTENTS OF THE PUMP COLUMN WITHOUT LETTING THE AIR INTO THE BACKWASH PIPING.
13. CONSULT WESTECH ENGINEERING FOR OTHER INFLUENT FLOW CONTROL OPTIONS.
14. LOCATION OF FLOW METERS ARE TO BE PER FLOWMETER MANUFACTURER'S WRITTEN RECOMMENDATIONS CONFIRMED BY THE CONSULTING ENGINEER.
15. INFLUENT OPERATING PRESSURE REQUIRED FOR CONTROLLING INFLUENT FLOW MUST BE 20 FEET MINIMUM AT THE TANK CONNECTION. FOR INFLUENT PRESSURE OVER 30 FEET OF HEAD, CONTACT WESTECH ENGINEERING. OPTIONAL STATIC MIXER WILL REQUIRE ADDITIONAL PRESSURE.
16. WASTE SUMP AND SUMP PIPING (BY CUSTOMER) MUST BE SIZED TO GIVE FREE DISCHARGE WITH AN AIRBREAK, FOR MAXIMUM WASTE FLOW.
17. WASTE TROUGH LIP IS POSITIONED ABOVE THE NORMAL OPERATING WATER LEVEL AND BELOW THE TOP OF THE TANK. THIS ALLOWS IT TO ACT AS AN EMERGENCY OVERFLOW.
18. TANK CONNECTIONS ARE FURNISHED STANDARD CUT GROOVED FOR CUT GROOVED STYLE FLEXIBLE COUPLINGS, WITH THE EXCEPTION OF AIR CONNECTIONS. COUPLINGS AND/OR FLANGE ADAPTERS ARE BY OTHERS.
19. TRIDENT MODEL TR-840A TANKS REQUIRE APPROXIMATELY 20.7 CUBIC YARDS OF FILL CONCRETE IN FILTER AREA.

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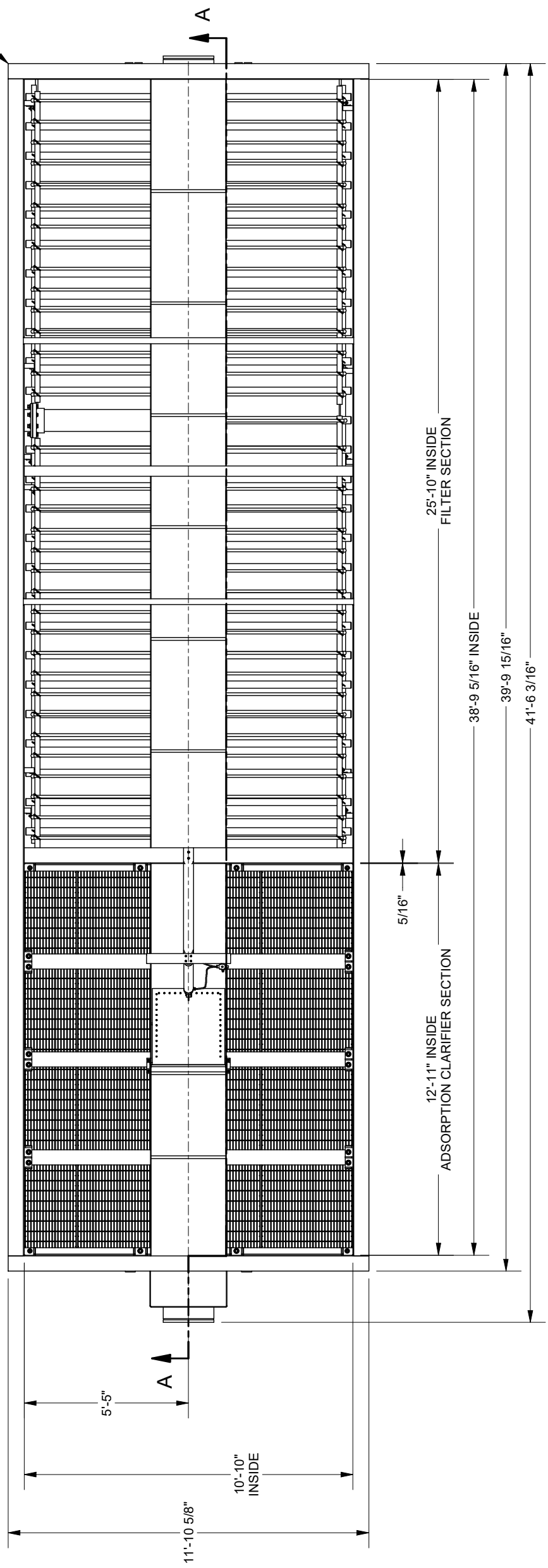
TITLE **GENERAL ARRANGEMENT**

TRIDENT® TR-840A WATER TREATMENT SYSTEM

| DESIGNER | CHECKER | APPROVER | DATE |
|------------|-----------------|----------|------------|
| PE84 | DE111 | DE111 | 2023-01-04 |
| JOB NUMBER | DOCUMENT NUMBER | SHEET | |
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3.7.a

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PLAN

NOTES:

1. FOLLOW THE LISTED WESTECH REFERENCE DOCUMENTS EXCEPT AS NOTED ON THIS DRAWING.
2. FLANGED AND GROOVED TANK NOZZLES PROJECT 6 INCHES FROM THE OUTSIDE FACE OF THE TANK WALL
3. GROOVED CONNECTIONS ARE STANDARD CUT GROOVE FOR STANDARD SCHEDULE PIPE SIZES. DO NOT USE ADVANCED GROOVE FITTINGS.
4. FILTER AIR CONNECTION HAS BEEN LOCATED IN THE SIDE OF THE FILTER. PLEASE NOTE THAT THIS DIFFERS FROM PLAN DOCUMENTS. PLACEMENT IN THE END WALL OF THE FILTER. THE SELECTED LOCATION MINIMIZES FABRICATION AND INSTALLATION TOLERANCE ISSUES. CHANGES ARE NOTED BY STARS ON THE DRAWING.
5. QUANTITIES IN THE BILL OF MATERIAL ARE FOR ONE NEW TANK. COMPONENTS FOR THREE NEW TANKS ARE PROVIDED.

BACKCHARGES FOR FIELDWORK OF ANY KIND ARE NOT ACCEPTABLE WITHOUT PRIOR WRITTEN AUTHORIZATION BY WESTECH ENGINEERING, LLC.



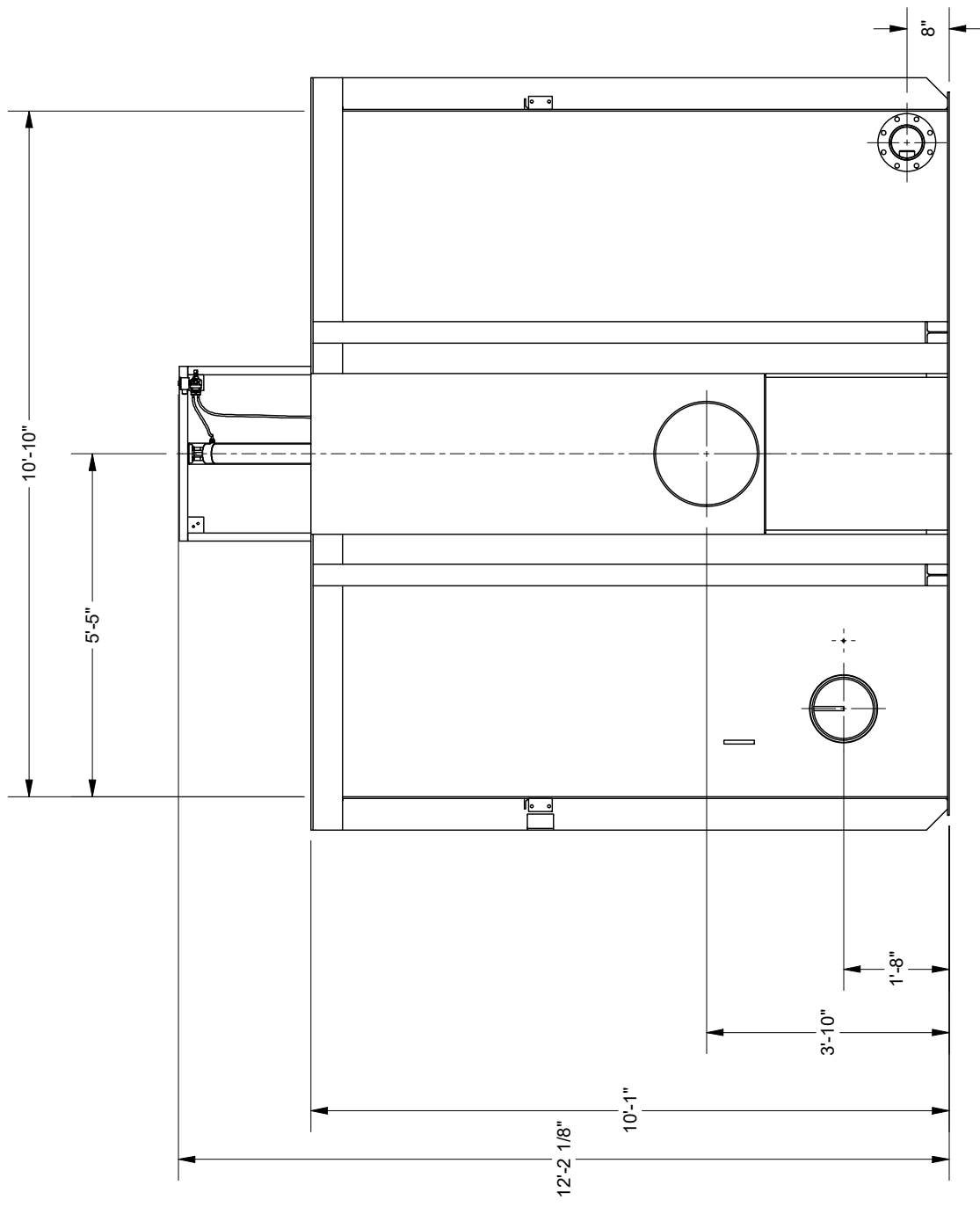
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TANK COMPONENTS

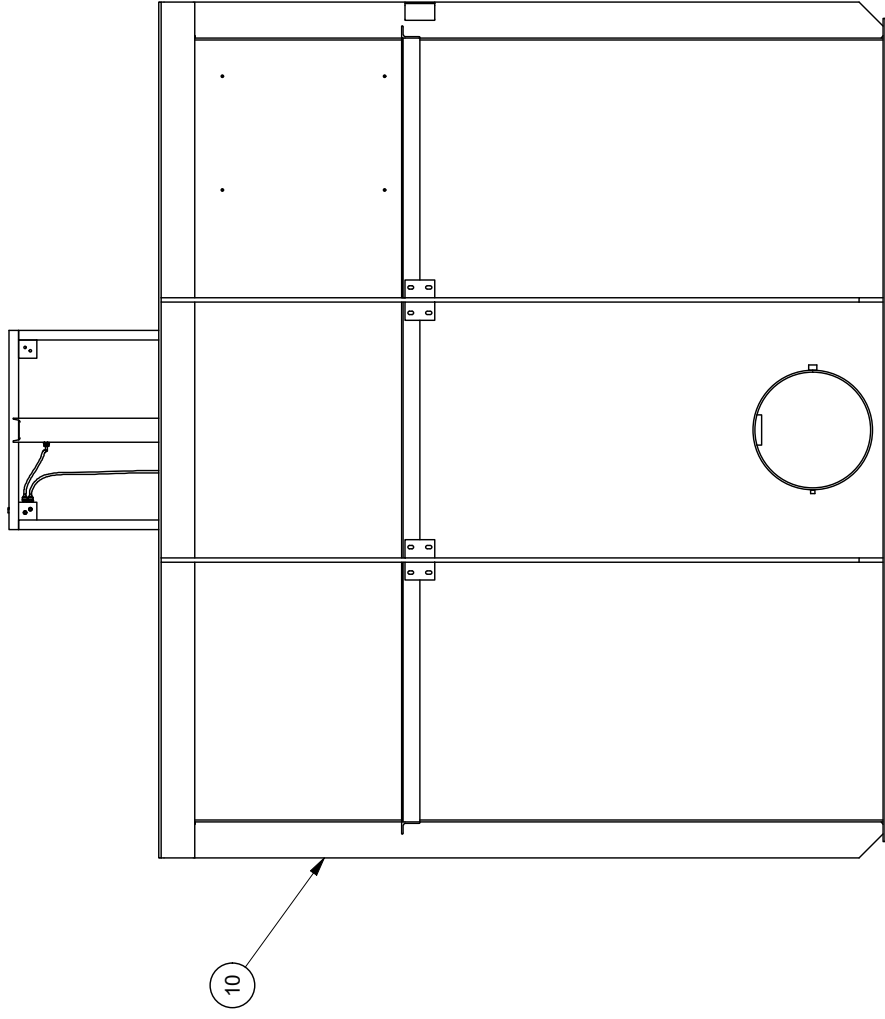
TRIDENT® TR-840A WATER TREATMENT SYSTEM

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| JOB NUMBER | DOCUMENT NUMBER | SHEET | |
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INFLUENT END



EFFLUENT END

WESTECH®

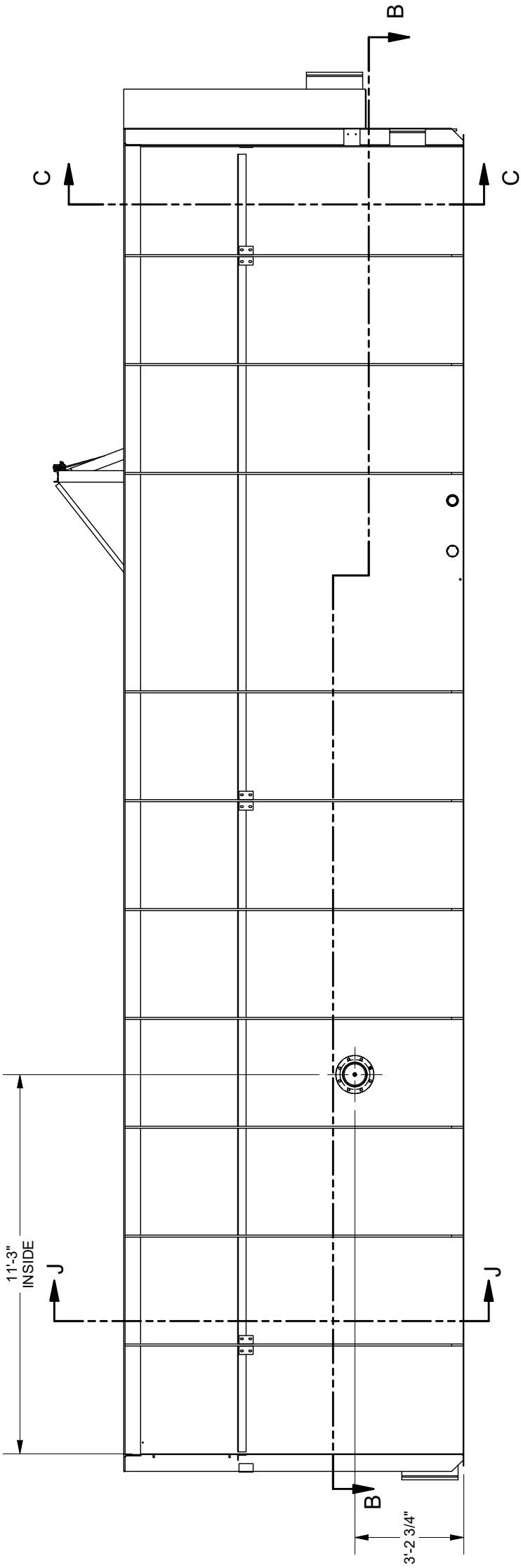
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TANK COMPONENTS

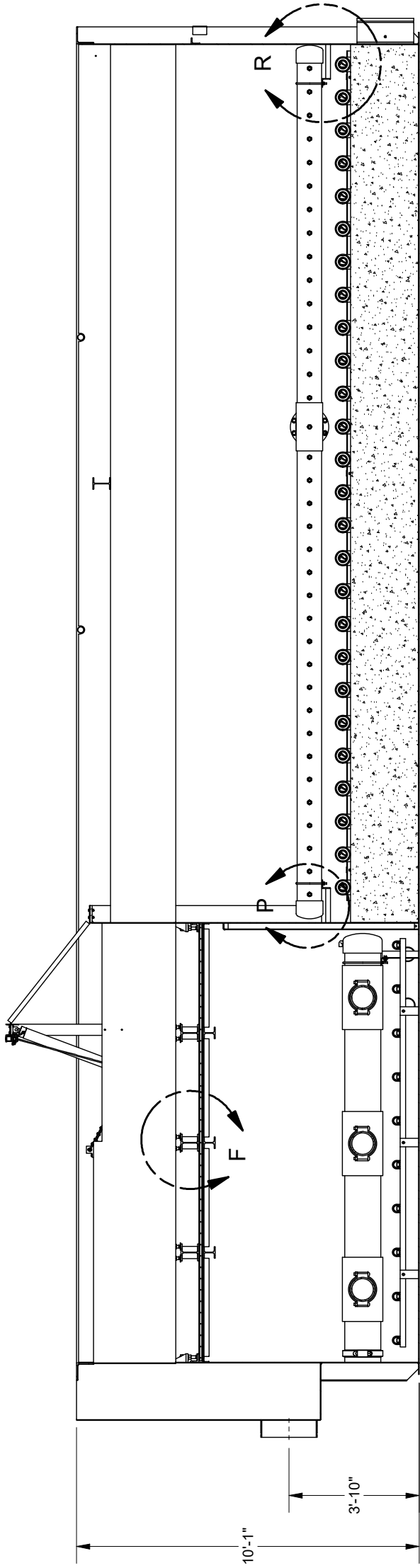
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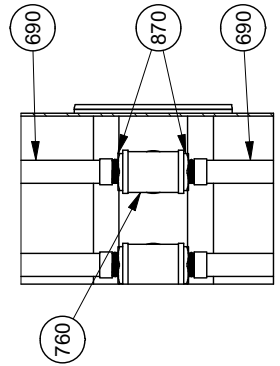
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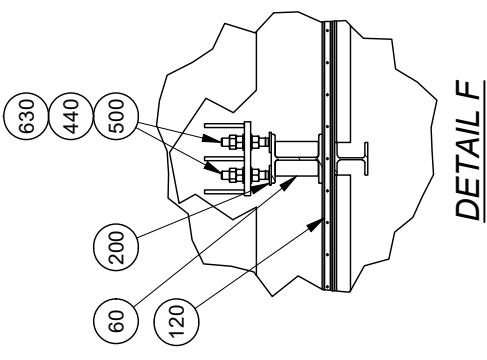
SIDE ELEVATION



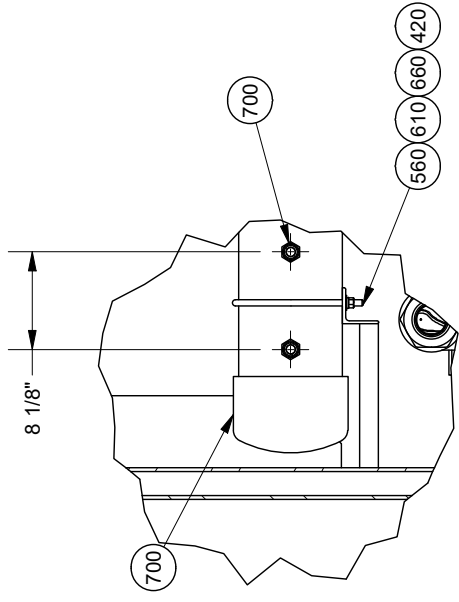
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FROM SHEET 1



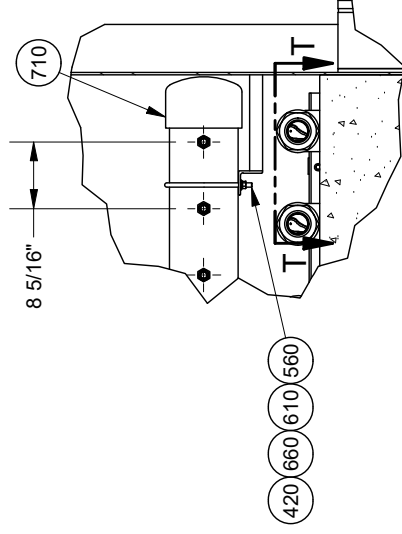
SECTION T-T
TYP



DETAIL F



DETAIL P



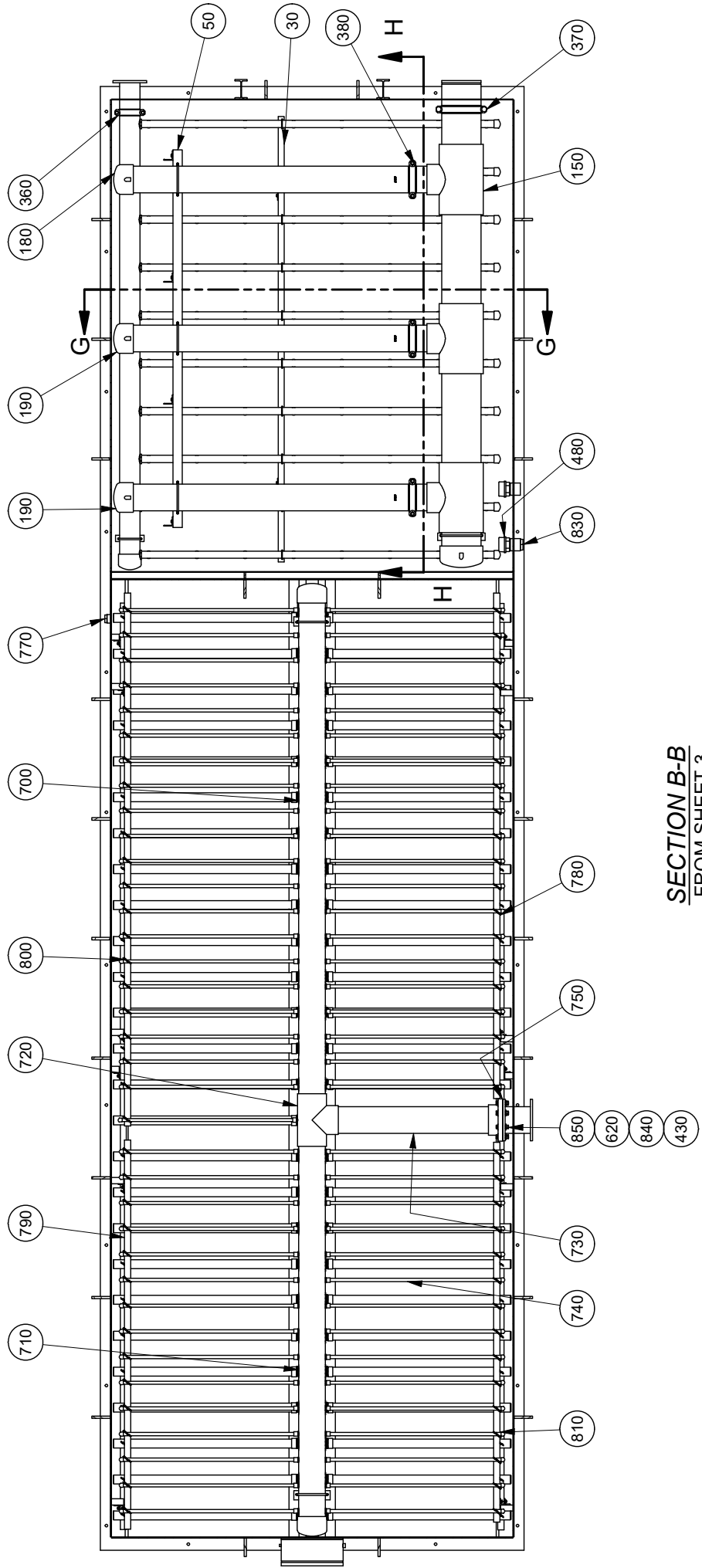
DETAIL R

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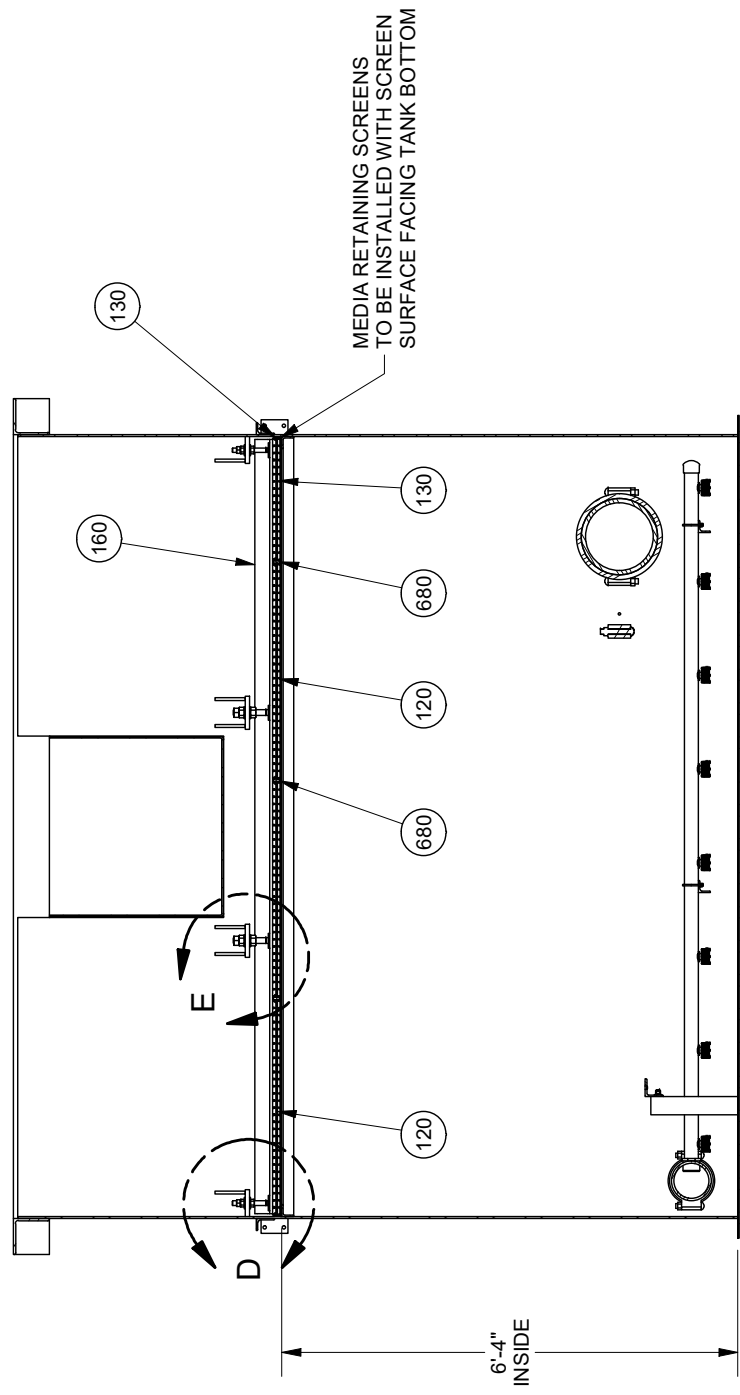
TANK COMPONENTS
TRIDENT® TR-840A WATER TREATMENT SYSTEM

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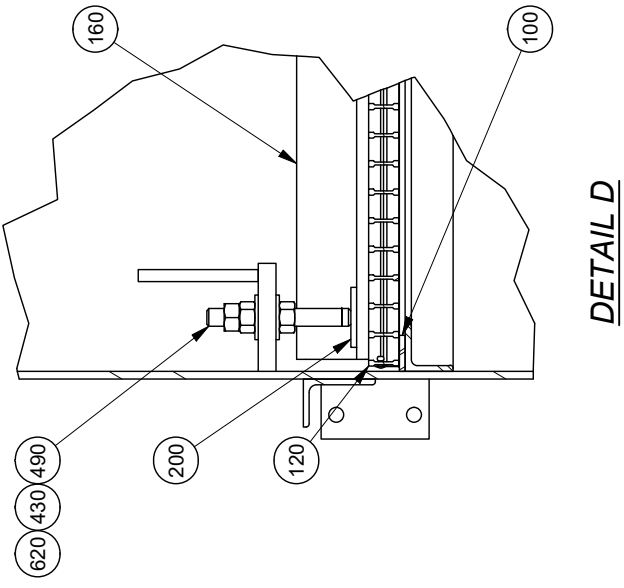
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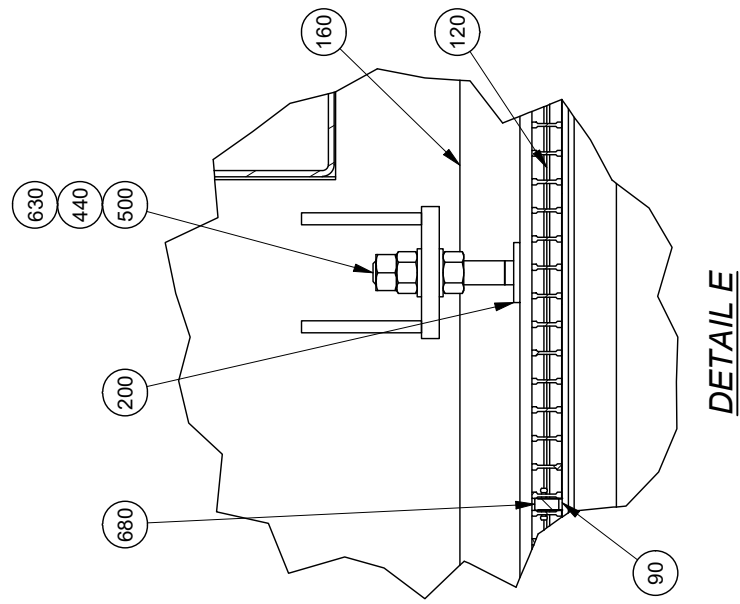
SECTION B-B
FROM SHEET 3



SECTION C-C
FROM SHEET 3



DETAIL D



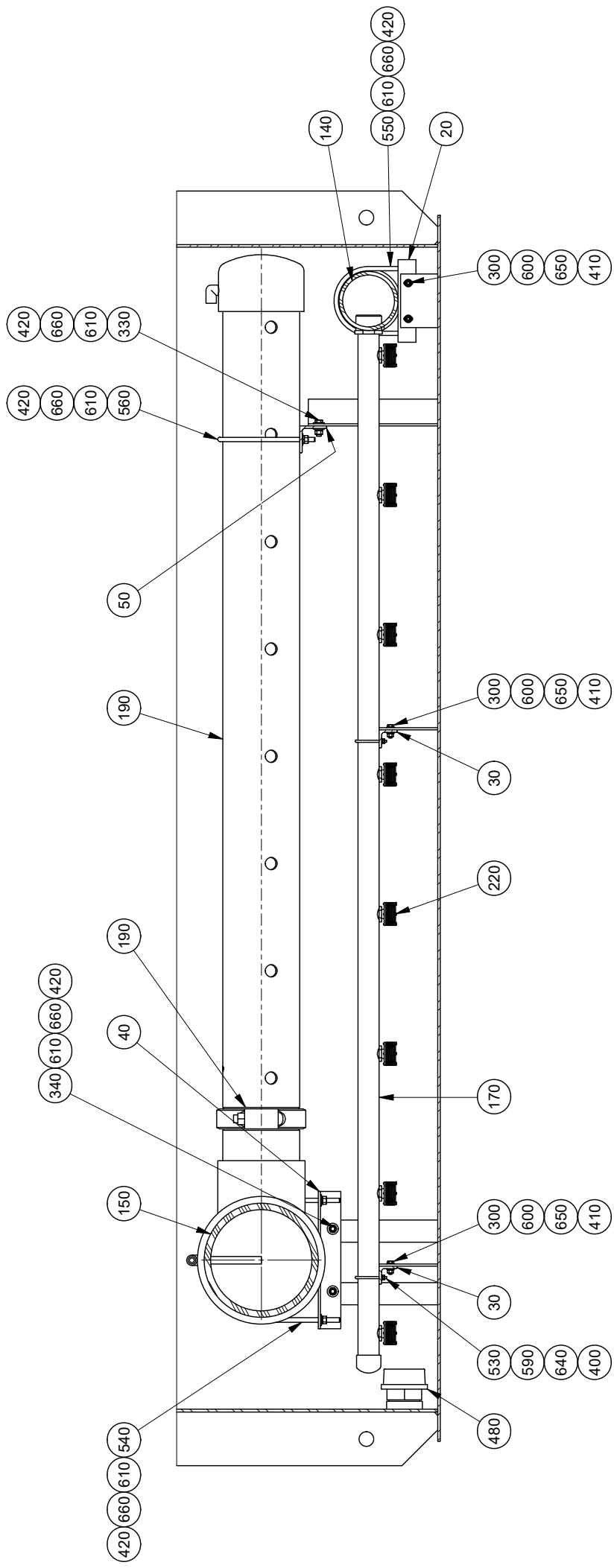
DETAIL E

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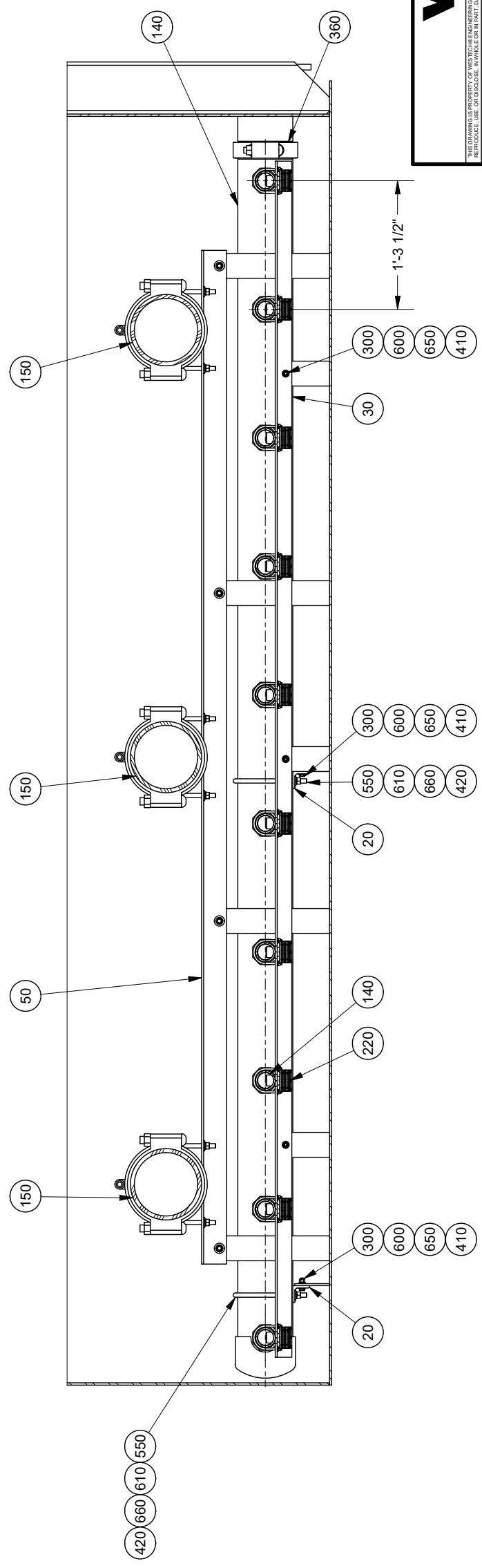
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TANK COMPONENTS
TRIDENT® TR-840A WATER TREATMENT SYSTEM

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SECTION G-G
FROM SHEET 4



SECTION H-H
FROM SHEET 4

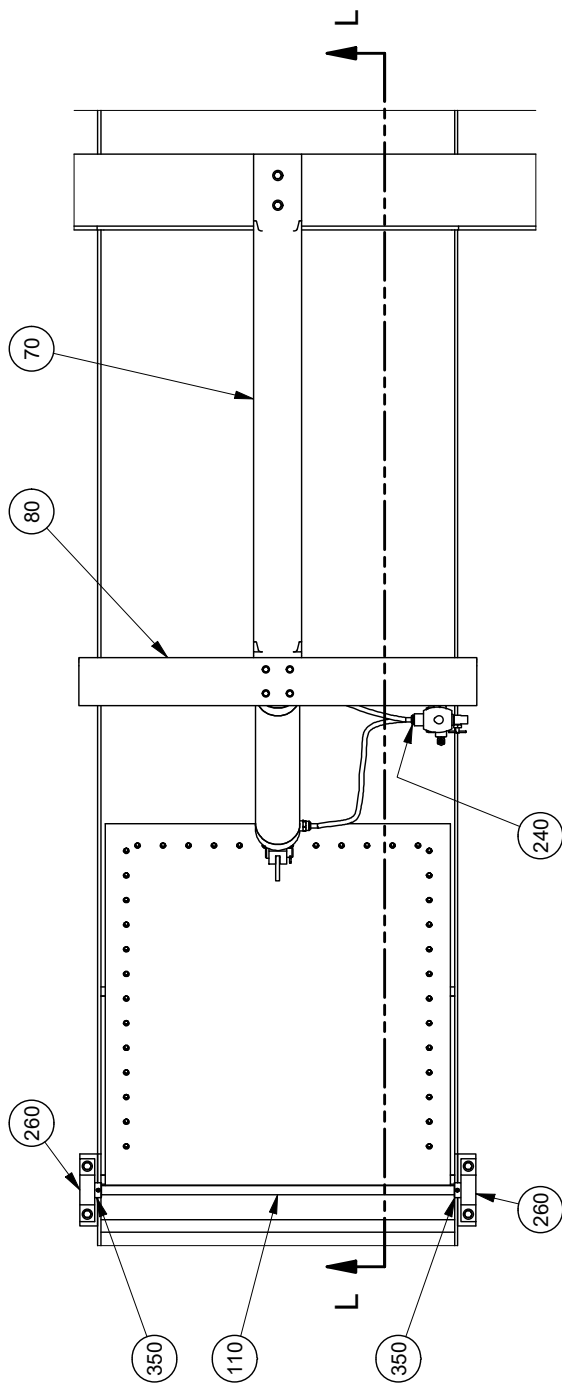
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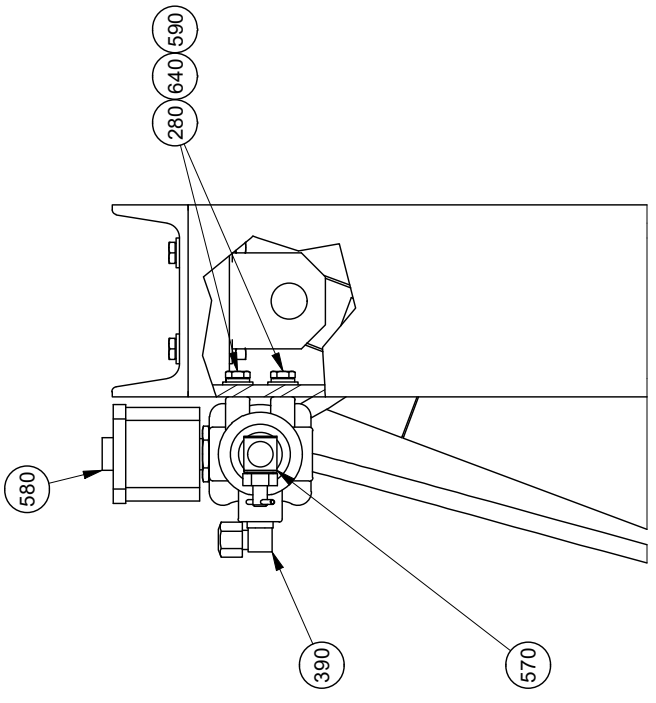
TANK COMPONENTS
TRIDENT® TR-840A WATER TREATMENT SYSTEM

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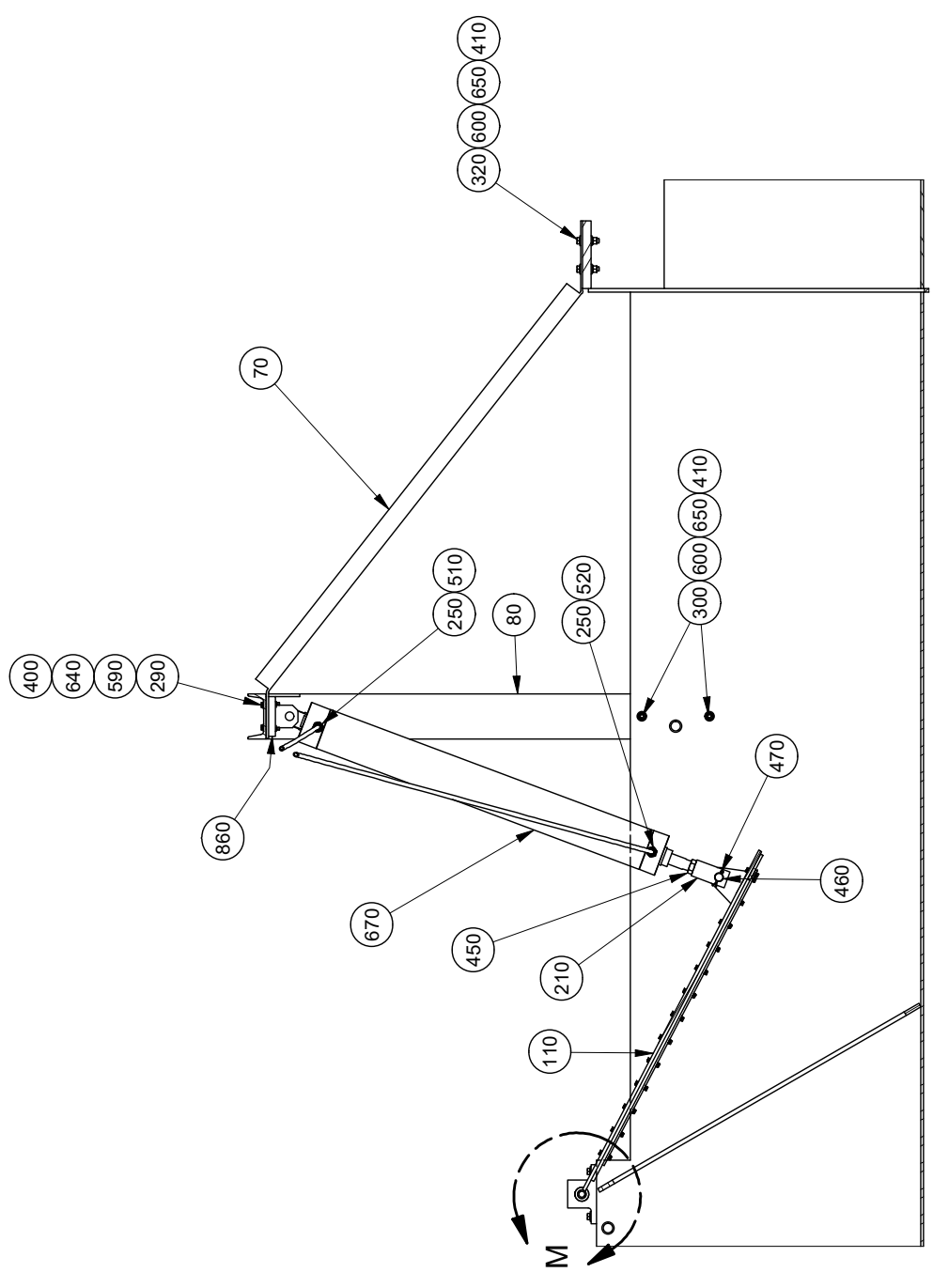
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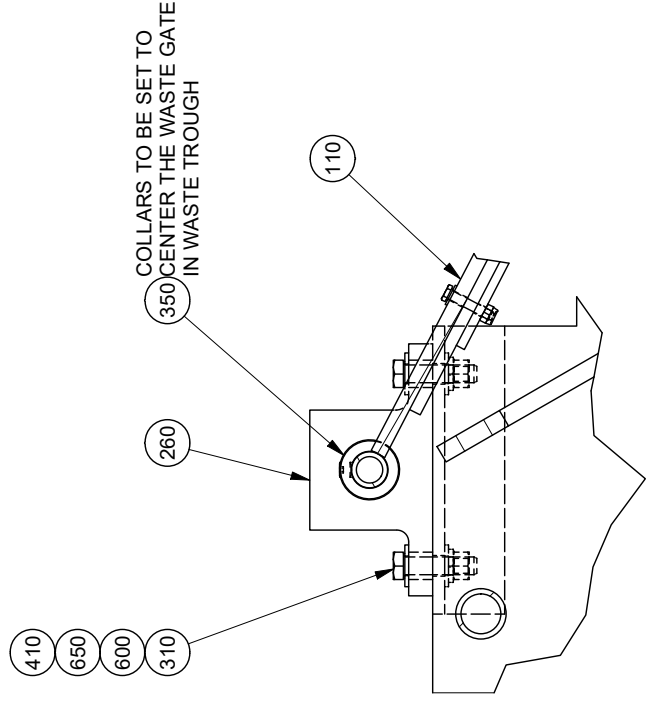
WASTE GATE ASSEMBLY



SOLENOID VALVE



SECTION L-L



DETAIL M

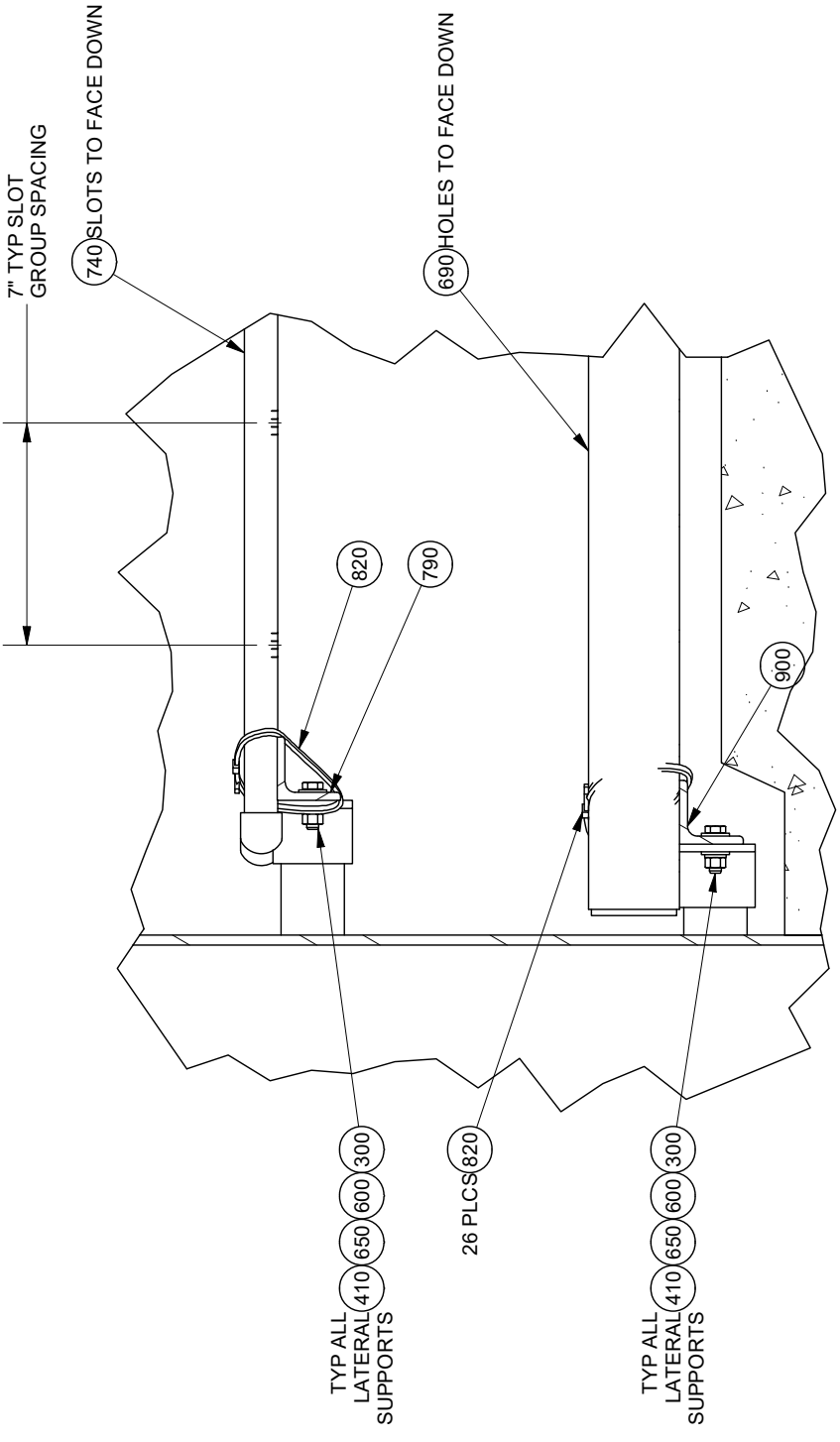
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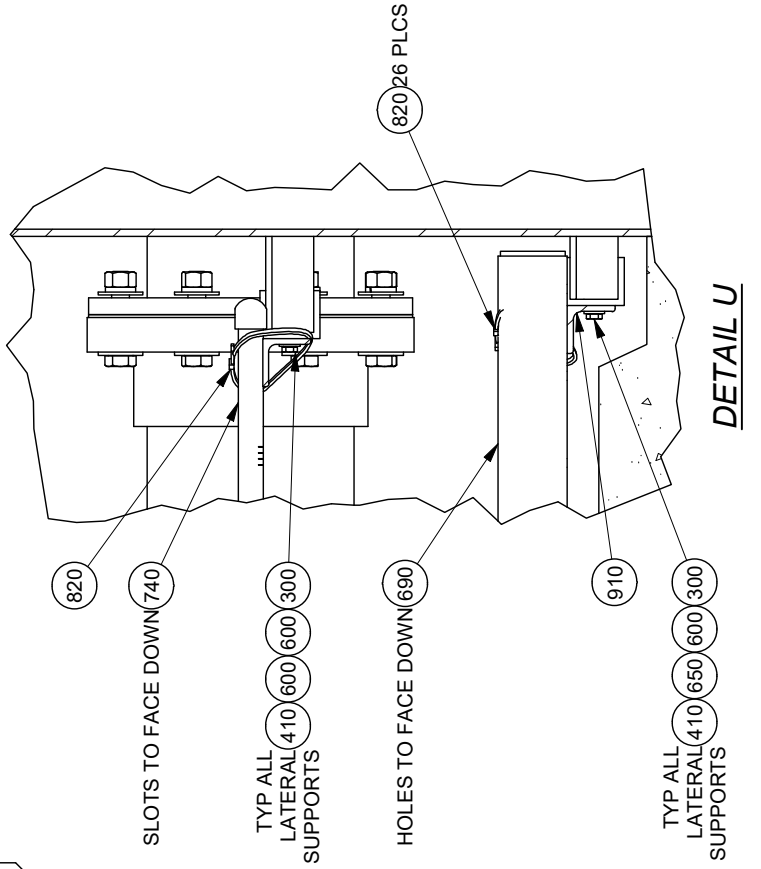
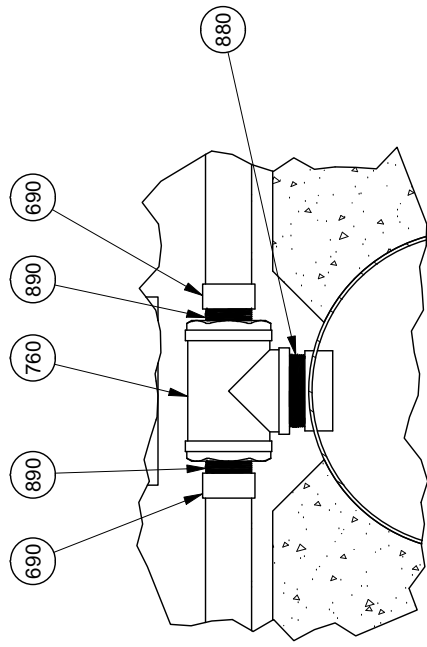
TANK COMPONENTS
TRIDENT® TR-840A WATER TREATMENT SYSTEM

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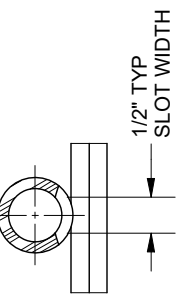
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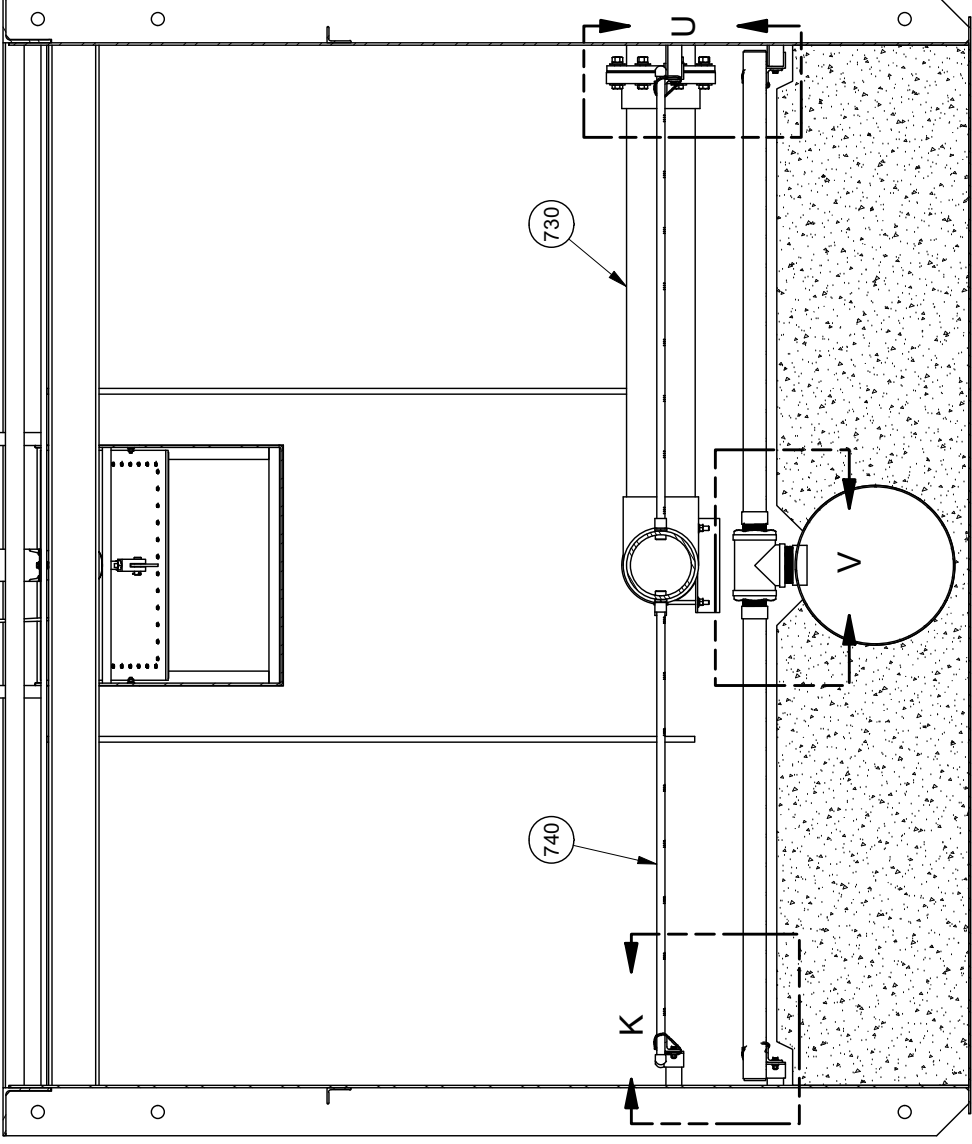
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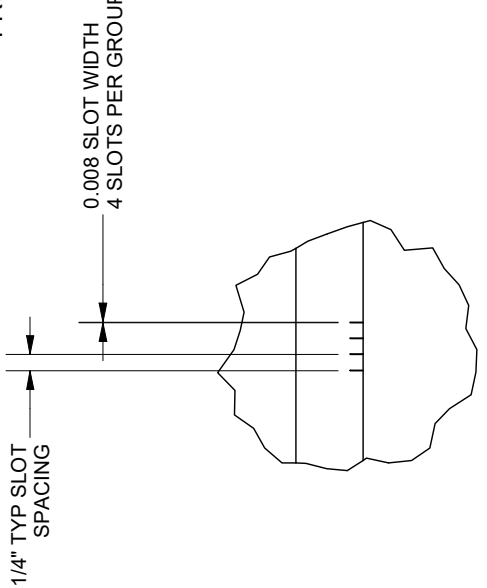
DETAIL U



SLOT DETAILS



SECTION J-J FROM SHEET 3




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TANK COMPONENTS
TRIDENT® TR-840A WATER TREATMENT SYSTEM

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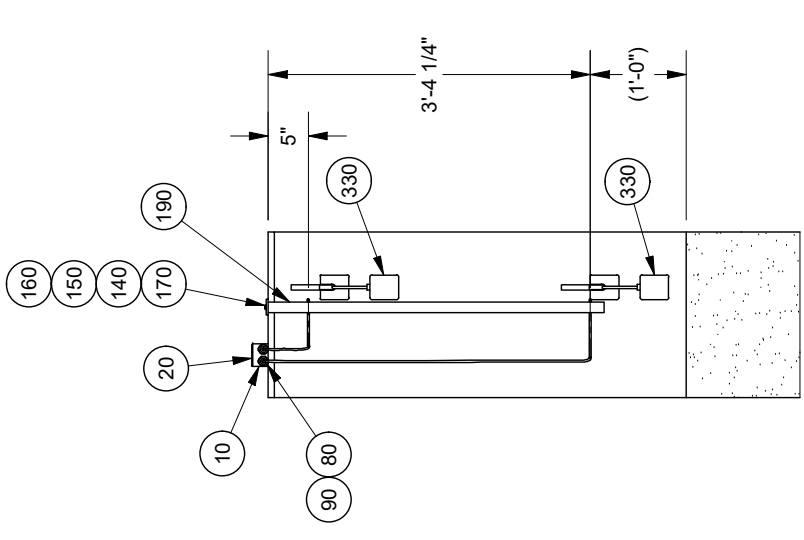
| BILL OF MATERIAL | | | | | | | | | | | | | | | |
|------------------|----------|------------|---|----------|--------|-------|--------------|-------|----------|------------|--|-----------|--------|-------|--------------|
| PIECE | UNIT QTY | PART NO | DESCRIPTION | MATERIAL | LENGTH | WIDTH | TOTAL WT, LB | PIECE | UNIT QTY | PART NO | DESCRIPTION | MATERIAL | LENGTH | WIDTH | TOTAL WT, LB |
| 10 | 1 | 0002885518 | TANK FABRICATION, TRIDENT® TR-840 WATER TREATMENT SYSTEM | STL | | | 30806.0 | 510 | 1 | 2-48809 | TUBE, EXTRUDE, 0.375 OD x 0.0625 WALL x 60, WHITE, SEMI-CLEAR, FOOD GRADE | PE | | | 0.0 |
| 20 | 2 | 1-12729 | ANGLE, SUPPORT, AC AIR DIST HEADER, TR-840A | 304-304L | | | 5.0 | 520 | 1 | 2-48809 | TUBE, EXTRUDE, 0.375 OD x 0.0625 WALL x 60, WHITE, SEMI-CLEAR, FOOD GRADE | PE | | | 0.1 |
| 30 | 2 | 1-12277 | ANGLE, SUPPORT, AC AIR DIST LATERAL, TR-840A | 304-304L | | | 79.0 | 530 | 20 | 2-7769 | U-BOLT, RND BEND, 0.25-20UNC x 2 PIPE SIZE x 3.25 LG | 304 | | | 2.4 |
| 40 | 1 | 1-12728 | ANGLE, SUPPORT, AC INFLUENT HEADER, TR-840A | 304-304L | | | 5.3 | 540 | 1 | 2-11153 | U-BOLT, RND BEND, 0.5-13UNC x 12 PIPE SIZE x 15.25 LG | 304 | | | 2.2 |
| 50 | 1 | 1-12276 | ANGLE, SUPPORT, AC INFLUENT LATERAL, TR-840A | 304-304L | | | 50.8 | 550 | 2 | 2-7781 | U-BOLT, RND BEND, 0.5-13UNC x 6 PIPE SIZE x 8.375 LG | 304 | | | 2.4 |
| 60 | 3 | 1-12281 | BEAM, MEDIA RETAINER, HOLD DOWN, TR-840 | STL | | | 825.2 | 560 | 5 | 2-7783 | U-BOLT, RND BEND, 0.5-13UNC x 8 PIPE SIZE x 10.375 LG | 304 | | | 7.5 |
| 70 | 1 | 1-10212 | BRACE, WASTE GATE FRAME, TR-840A | A36 | | | 22.9 | 570 | 1 | 2-10656 | VALVE, NEEDLE, 0.25 FNPT x 0.25 MNPT | BRS | | | 0.2 |
| 80 | 1 | 1-9703 | FRAME, SUPPORT, WASTE GATE CYLINDER, TR-840A | A36 | | | 54.0 | 580 | 1 | 2-11246 | VALVE, SOLENOID, NC, 0.25 x FNPT, 120VAC, 60HZ | BRASS | | | 2.4 |
| 90 | 2 | 1-48421 | GASKET, MEDIA RETAINER, 0.25 x 1.5 x 130 | NPRN | | | 3.3 | 590 | 50 | 2-5402 | WISHR, FLAT, 0.25 | 304 | | | 0.2 |
| 100 | 2 | 1-48422 | GASKET, MEDIA RETAINER, 0.25 x 1.5 x 152 | NPRN | | | 3.8 | 600 | 68 | 2-5404 | WISHR, FLAT, 0.375 | 304 | | | 0.8 |
| 110 | 1 | 1-9707 | GATE, WASTE, ASSEMBLY, TR-840A | 304-304L | | | 96.2 | 610 | 28 | 2-5405 | WISHR, FLAT, 0.5 | 304 | | | 0.9 |
| 120 | 3 | 1-12279 | GRATING, AC MEDIA RETAINER A, TR-840A | SST-AL | | | 367.8 | 620 | 24 | 2-5407 | WISHR, FLAT, 0.75 | 304 | | | 2.1 |
| 130 | 1 | 1-12280 | GRATING, AC MEDIA RETAINER B, TR-840A | SST-AL | | | 70.6 | 630 | 32 | 2-5409 | WISHR, FLAT, 1 | 304 | | | 3.4 |
| 140 | 1 | 1-12284 | HEADER, AIR DISTRIBUTION, AC, TR-840A | PVC | | | 67.1 | 640 | 46 | 2-5415 | WISHR, LOCK, MDM SPLIT, 0.25 | 304 | | | 0.1 |
| 150 | 1 | 1-13068 | HEADER, INFLUENT, AC, TR-840A, TANK B | PVC | | | 329.7 | 650 | 34 | 2-5433 | WISHR, LOCK, MDM SPLIT, 0.375 | 304 | | | 0.2 |
| 160 | 2 | 0003532637 | L 3 x 3 x 0.5 x 129 | PVC | | | 202.1 | 660 | 22 | 2-5434 | WISHR, LOCK, MDM SPLIT, 0.5 | 304 | | | 0.3 |
| 170 | 10 | 1-12275 | LATERAL, AIR DISTRIBUTION, AC, TR-840A | PVC | | | 92.7 | 670 | 1 | 2-11120 | CYL, PNEU, 3.25 BORE, 29 STRK, DBL ACT, PIVOT MNT | 304 | | | 22.2 |
| 180 | 1 | 1-12282 | LATERAL, INFLUENT, AC, TR-840A, STYLE A | PVC | | | 69.1 | 680 | 3 | 2-8022 | GASKET, STRIP, 0.5 THK x 1.0 WIDE, 1 SIDE(S) SKINNED, WITH ADHESIVE ON 1 SIDE(S) | NPRN | 154 | | 7.8 |
| 190 | 2 | 1-12283 | LATERAL, INFLUENT, AC, TR-840A, STYLE B | PVC | | | 138.3 | 690 | 52 | 0002890199 | EFFLUENT LATERAL PIPE ASSEMBLY | | | | 978.8 |
| 200 | 20 | 1-10213 | PL 0.25 x 2.5 x 2.5 | 304 | | | 9.0 | 700 | 1 | 0002890191 | FILTER AIR HEADER PIPE ASSEMBLY | | | | 119.9 |
| 210 | 1 | 1-9696 | ROD CLEVIS, FABRICATED, 0.75-16UNF ROD, 3.125 LG, 0.75 PIN | 304-304L | | | 1.5 | 710 | 1 | 0002890192 | FILTER AIR HEADER PIPE ASSEMBLY SHORT | | | | 93.9 |
| 220 | 80 | 2-11030 | STRAINER, MEDIA RETAINING, 0.75 MNPT, 640 STYLE | ABS-SST | | | 11.9 | 720 | 1 | 0002890207 | TEE, SCH 40, 6 SOC | | | | 14.4 |
| 230 | 1 | 2-10985 | ADHESIVE, MULTIPURPOSE, 24FL OZ AEROSOL, CLEAR | --- | | | 1.1 | 730 | 1 | 0002890209 | FILTER AIR HEADER PIPE | | | | 45.4 |
| 240 | 2 | 2-11227 | ADPTR, TUBE, RDCG, 150LB, 0.375 PUSH x 0.25 MPFT | ACETAL | | | 0.0 | 740 | 71 | 0002890193 | LATERAL, SLOTTED, 41 LONG ASSEMBLY | | | | 30.8 |
| 250 | 2 | 2-11228 | ADPTR, TUBE, RDCG, 150LB, 0.375 PUSH x 0.5 MPFT | ACETAL | | | 0.1 | 750 | 1 | 2-2732 | GSKT, FLG, FULL FACE, 150LB, 8, 0.125 THK | NPRN | | | 0.3 |
| 260 | 2 | 1-28893 | BEARING, PLBLK, 0.75 SHAFT, 2 MOUNTING HOLES, SOLID HOUSING | UHMWPE | | | 0.6 | 760 | 26 | 2-8426 | TEE, 150LB, 4 FNPT | 316 | | | 339.9 |
| 280 | 2 | 2-6318 | CAP SCR, HEX, 0.25-20UNC x 0.5, FULL THREAD | 304 | | | 0.0 | 770 | 1 | 2-25623 | PLUG, PIPE, HEX HEAD, SOLID, 2 MNPT, BLK | A105 | | | 2.2 |
| 290 | 4 | 2-6323 | CAP SCR, HEX, 0.25-20UNC x 1.25 | 304 | | | 0.1 | 780 | 1 | 0002937290 | LATERAL SUPPORT ANGLE RIGHT LONG | | | | 45.0 |
| 300 | 28 | 2-6354 | CAP SCR, HEX, 0.375-16UNC x 1.25 | 304 | | | 1.6 | 790 | 1 | 0002937288 | LATERAL SUPPORT ANGLE LEFT | | | | 34.6 |
| 310 | 4 | 2-6355 | CAP SCR, HEX, 0.375-16UNC x 1.5 | 304 | | | 0.3 | 800 | 1 | 0002937287 | LATERAL SUPPORT ANGLE RIGHT | | | | 47.4 |
| 320 | 2 | 2-6356 | CAP SCR, HEX, 0.375-16UNC x 1.75 | 304 | | | 0.1 | 810 | 1 | 0002937289 | LATERAL SUPPORT ANGLE LEFT SHORT | | | | 33.8 |
| 330 | 4 | 2-6370 | CAP SCR, HEX, 0.5-13UNC x 1.5 | 304 | | | 0.5 | 820 | 123 | 2-36268 | CABLE TIE, 11 LG, 0.18 WD, STANDARD, LOCKING | 304 | | | 1.2 |
| 340 | 2 | 2-6371 | CAP SCR, HEX, 0.5-13UNC x 1.75 | 304 | | | 0.3 | 830 | 1 | 2-25625 | PLUG, PIPE, HEX HEAD, SOLID, 3 MNPT, BLK | A105 | | | 5.5 |
| 350 | 2 | 2-3809 | COLLAR, SHAFT, SET SCREW, SOLID, 0.75 | 303 | | | 0.3 | 840 | 8 | 2-5436 | WISHR, LOCK, MDM SPLIT, 0.75 | 304 | | | 0.3 |
| 360 | 1 | 2-32669 | CPLG, PIPE, FLEX, 6 GRV | 316 | | | 11.3 | 850 | 8 | 2-6510 | CAP SCR, HEX, 0.75-10UNC x 3.5 | 304 | | | 4.7 |
| 370 | 1 | 2-32672 | CPLG, PIPE, FLEX, 12 GRV | 316 | | | 24.4 | 860 | 1 | 2-46744 | BRACKET, CLEVIS, 0.75 PIN DIA | SST | | | 3.3 |
| 380 | 3 | 2-32670 | CPLG, PIPE, FLEX, 8 GRV | 316 | | | 55.5 | 870 | 52 | 2-56797 | BUSHING, PIPE, OUTSIDE HEX, 150LB, 4 MNPT x 2.5 FNPT | 316 | | | 88.4 |
| 390 | 1 | 2-7071 | ELBOW, RDCG, 90 DEG, 3000LB, 0.375 CPRSN x 0.25 MNPT | BRS | | | 0.1 | 880 | 26 | 2-56810 | NIPPLE, PIPE, PLAIN, TBE, NPT, SCH 40, 4 x CLOSE, N/A | CHANGE ME | | | 67.6 |
| 400 | 44 | 2-5882 | NUT, HEX, 0.25-20UNC | 304 | | | 0.4 | 890 | 52 | 2-56800 | NIPPLE, PIPE, PLAIN, TBE, NPT, SCH 40S, 2.5 x 3 LG | 316-316L | | | 49.4 |
| 410 | 34 | 2-5887 | NUT, HEX, 0.375-16UNC | 304 | | | 0.6 | 900 | 1 | 0003254212 | EFFLUENT LATERAL SIDE SUPPORT ANGLE | | | | 82.4 |
| 420 | 22 | 2-5890 | NUT, HEX, 0.5-13UNC | 304 | | | 1.0 | 910 | 1 | 0003256849 | EFFLUENT LATERAL SIDE SUPPORT ANGLE, SIDE BACK | | | | 82.4 |
| 430 | 20 | 2-5895 | NUT, HEX, 0.75-10UNC | 304 | | | 2.8 | | | | | | | | |
| 440 | 48 | 2-5906 | NUT, HEX, 1-8UNC | 304 | | | 16.0 | | | | | | | | |
| 450 | 1 | 2-5980 | NUT, JAM, 0.75-16UNF | 304 | | | 0.1 | | | | | | | | |
| 460 | 1 | 2-11060 | PIN, CLEVIS, FLAT HEAD x HOLE END, 0.75 DIA, 2 LG | 304 | | | 0.3 | | | | | | | | |
| 470 | 1 | 2-11075 | PIN, COTTER, EXT PRONG, CHISEL PT, 0.125 x 1.25 | 18-8 | | | 0.0 | | | | | | | | |
| 480 | 2 | 2-10949 | STRAINER, SUCTION SCREEN, 3 MNPT, 10 MESH | NYL | | | 3.0 | | | | | | | | |
| 490 | 4 | 2-7579 | STUD, FULL THD, 0.75-10 UNC x 6 | 304 | | | 3.0 | | | | | | | | |
| 500 | 16 | 2-7580 | STUD, FULL THD, 1-8 UNC x 6 | 304 | | | 21.6 | | | | | | | | |



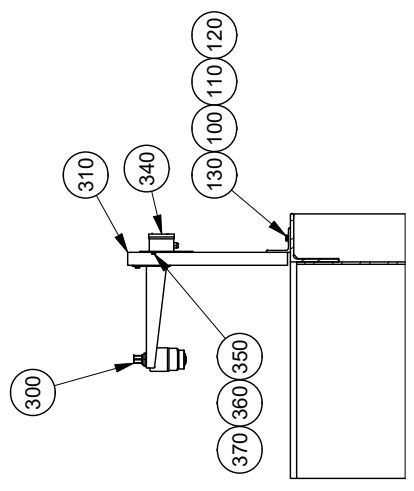
TANK COMPONENTS
TRIDENT® TR-840A WATER TREATMENT SYSTEM

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SECTION A-A



SECTION B-B

NOTES:

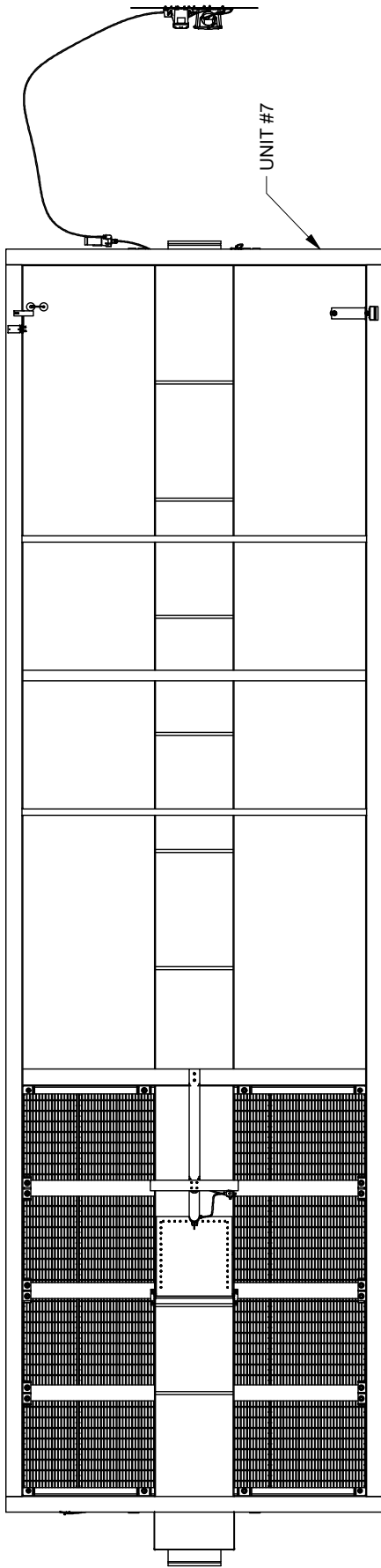
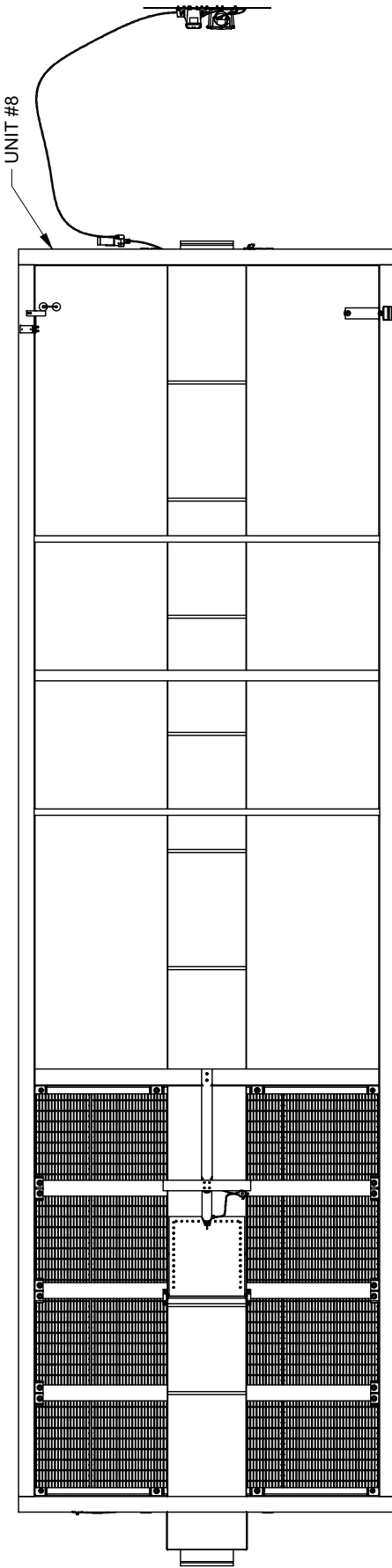
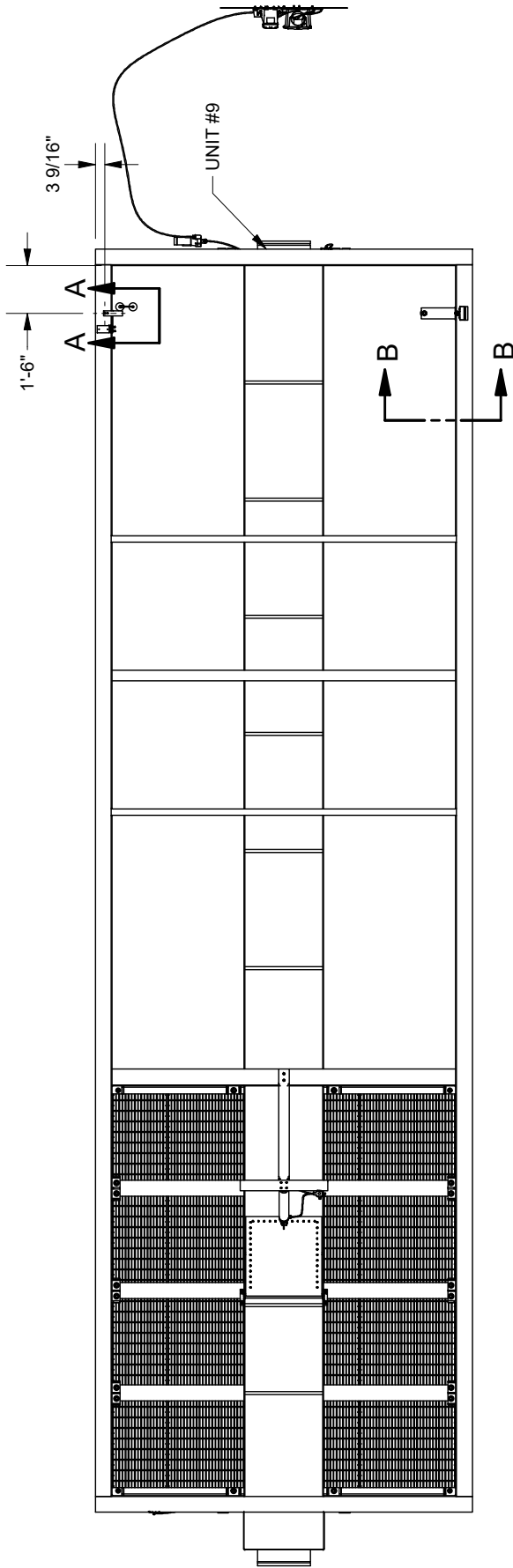
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 TITLE INSTRUMENTATION COMPONENTS, THREE UNITS
 TRIDENT® TR-840A, WATER TREATMENT SYSTEM

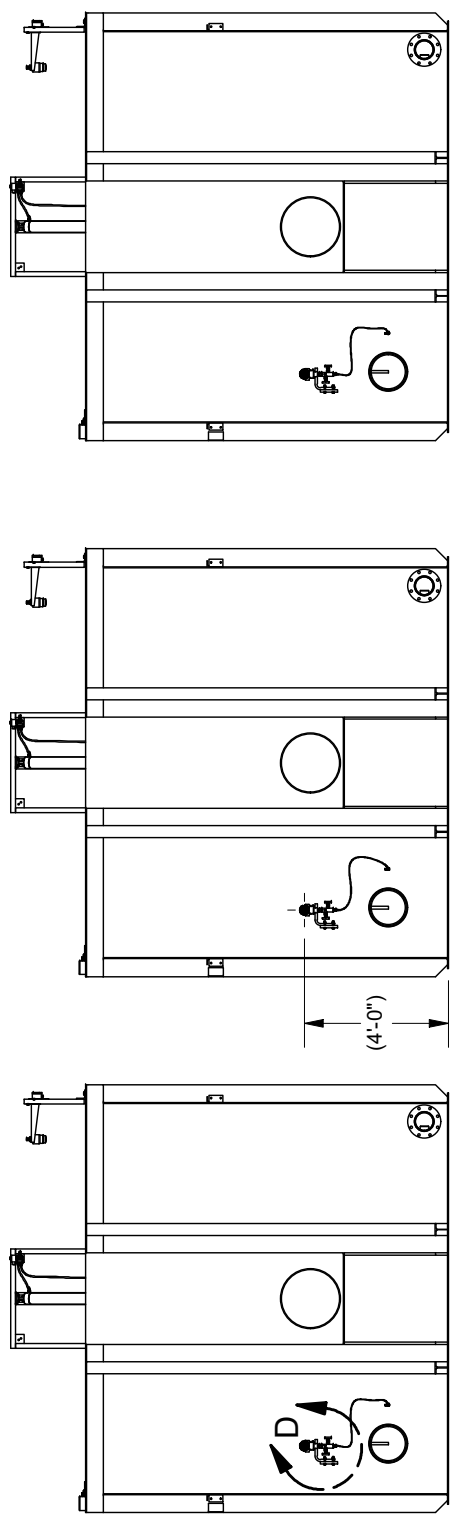
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| JOB NUMBER | DOCUMENT NUMBER | | SHEET |
| 24862A | 0003053858 | | 1 OF 4 |



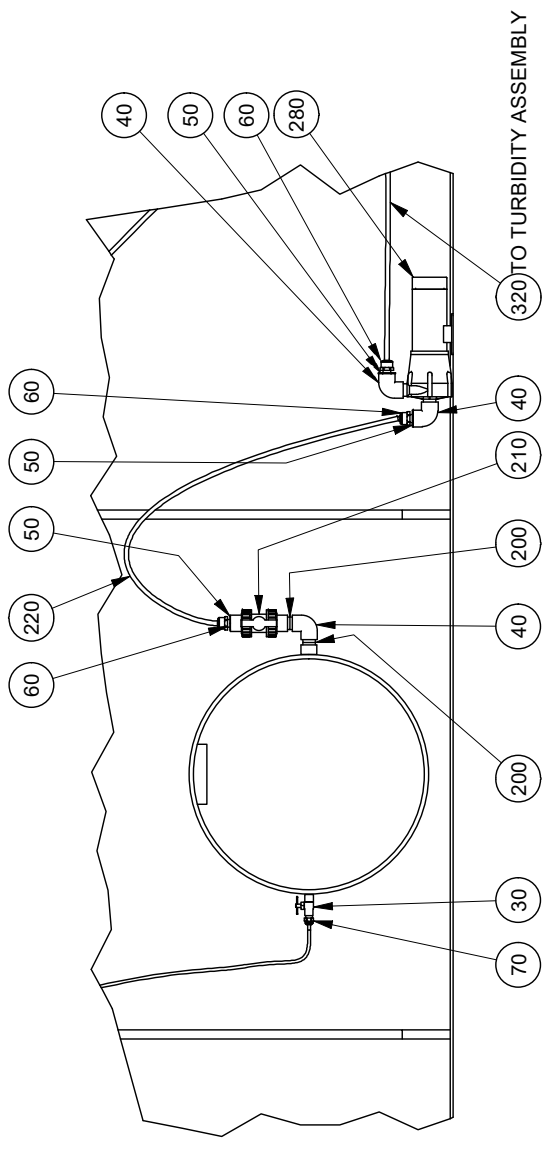
PLAN VIEW

REFERENCE DOCUMENTS

| REV | REVISION DESCRIPTION | EON | DESIGNER | APPROVER | DATE |
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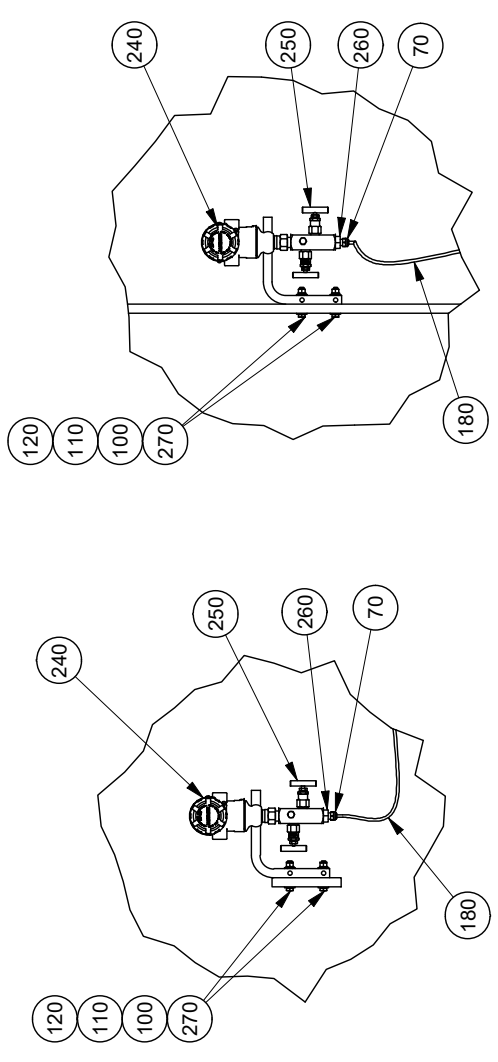
INFLUENT END ELEVATION



DETAIL C

TYP

EFFLUENT TURBIDITY SAMPLE PUMP
FILED MOUNTED BY OTHERS



DETAIL D

DETAIL E

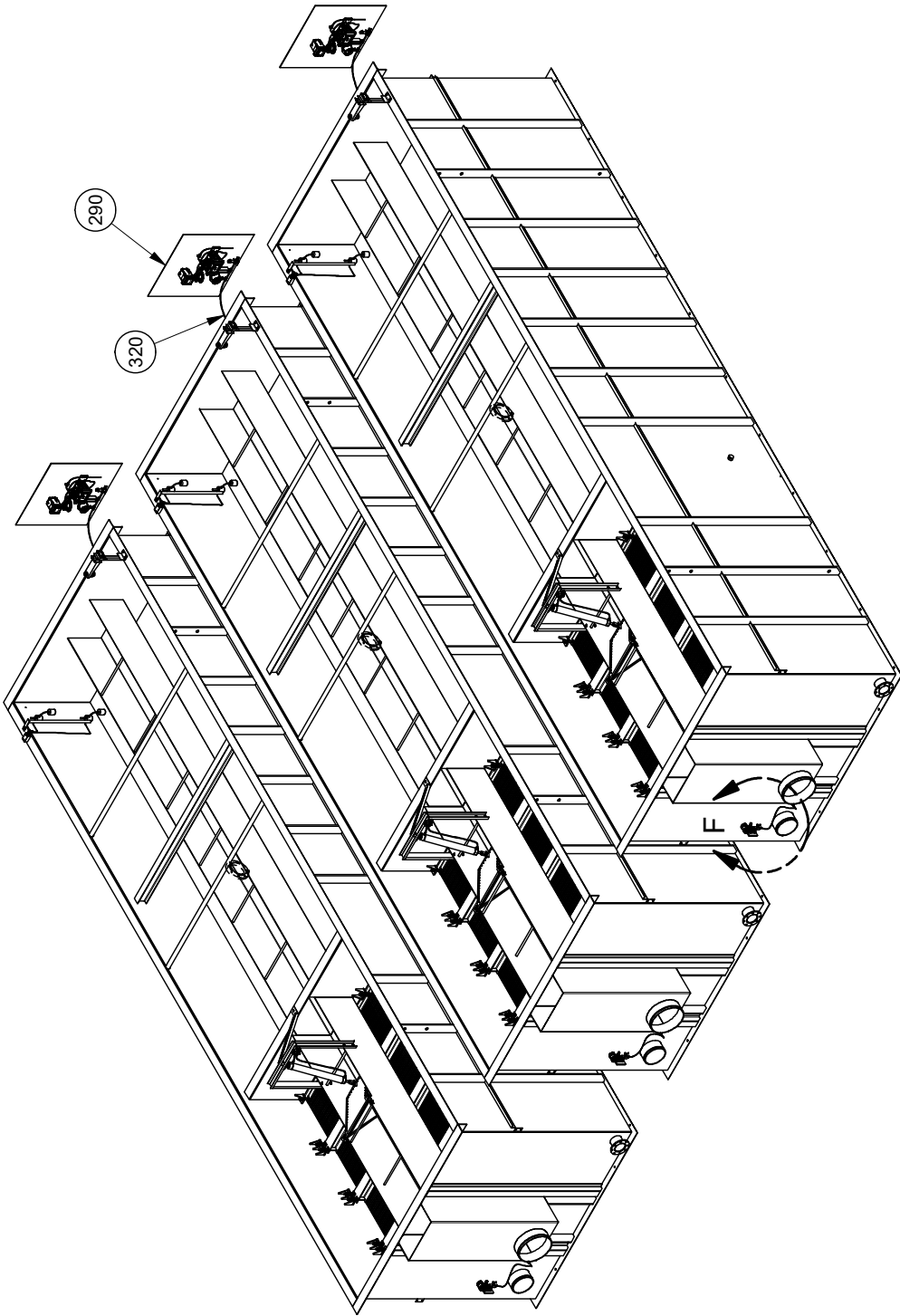
EFFLUENT END ELEVATION
CUSTOM TURBIDITY PANELS ARE NOT SHOWN



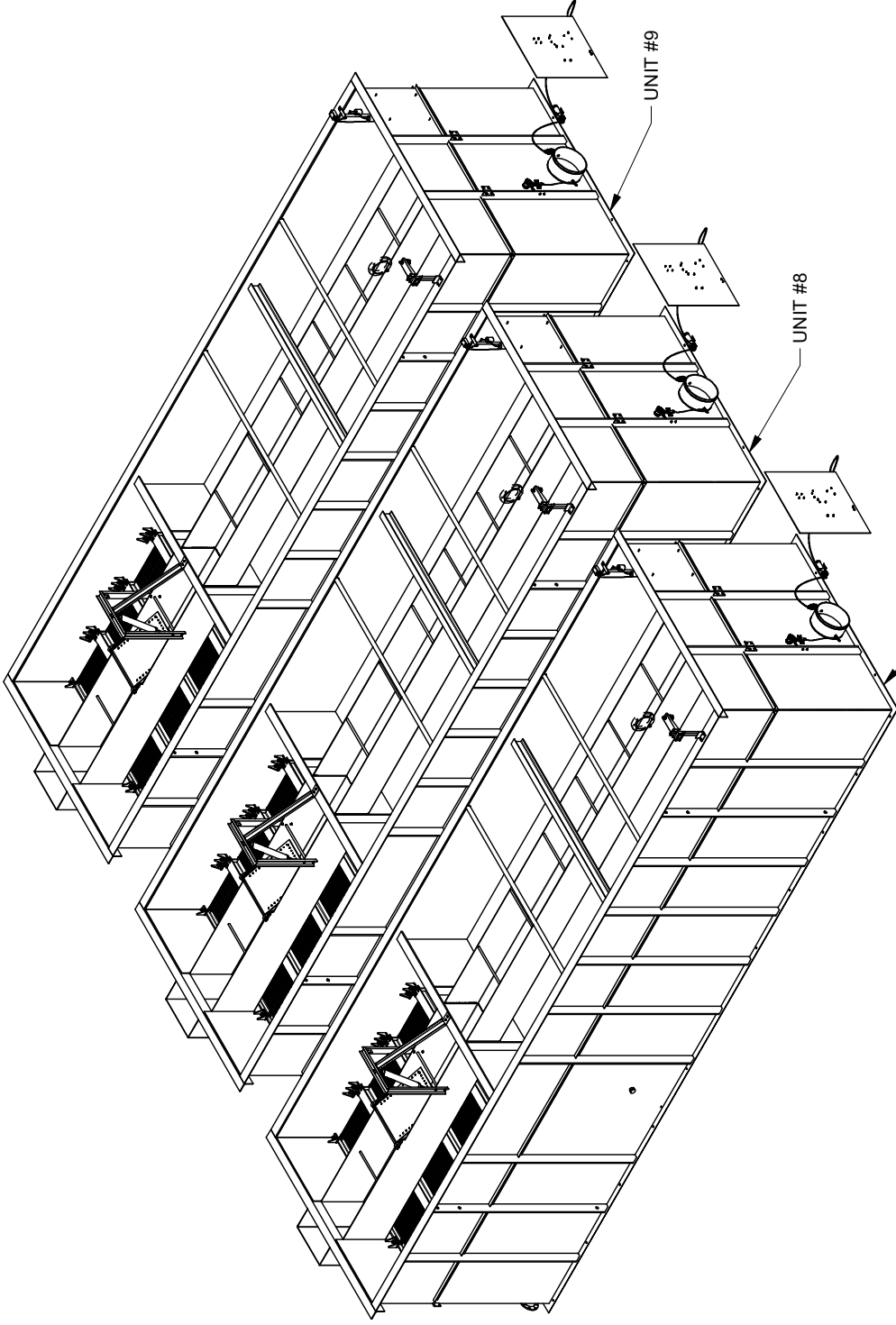
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TITLE INSTRUMENTATION COMPONENTS, THREE UNITS
TRIDENT® TR-840A, WATER TREATMENT SYSTEM

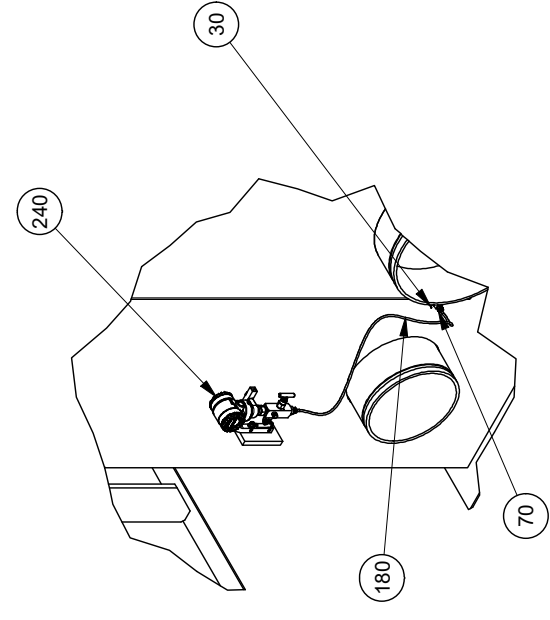
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| PE84 | BA92 | DE111 | 2023-02-10 |
| JOB NUMBER | DOCUMENT NUMBER | SHEET | |
| 24862A | 0003053858 | 2 OF 4 | |



INFLUENT END ISOMETRIC



EFFLUENT END ISOMETRIC



DETAIL F
TYP

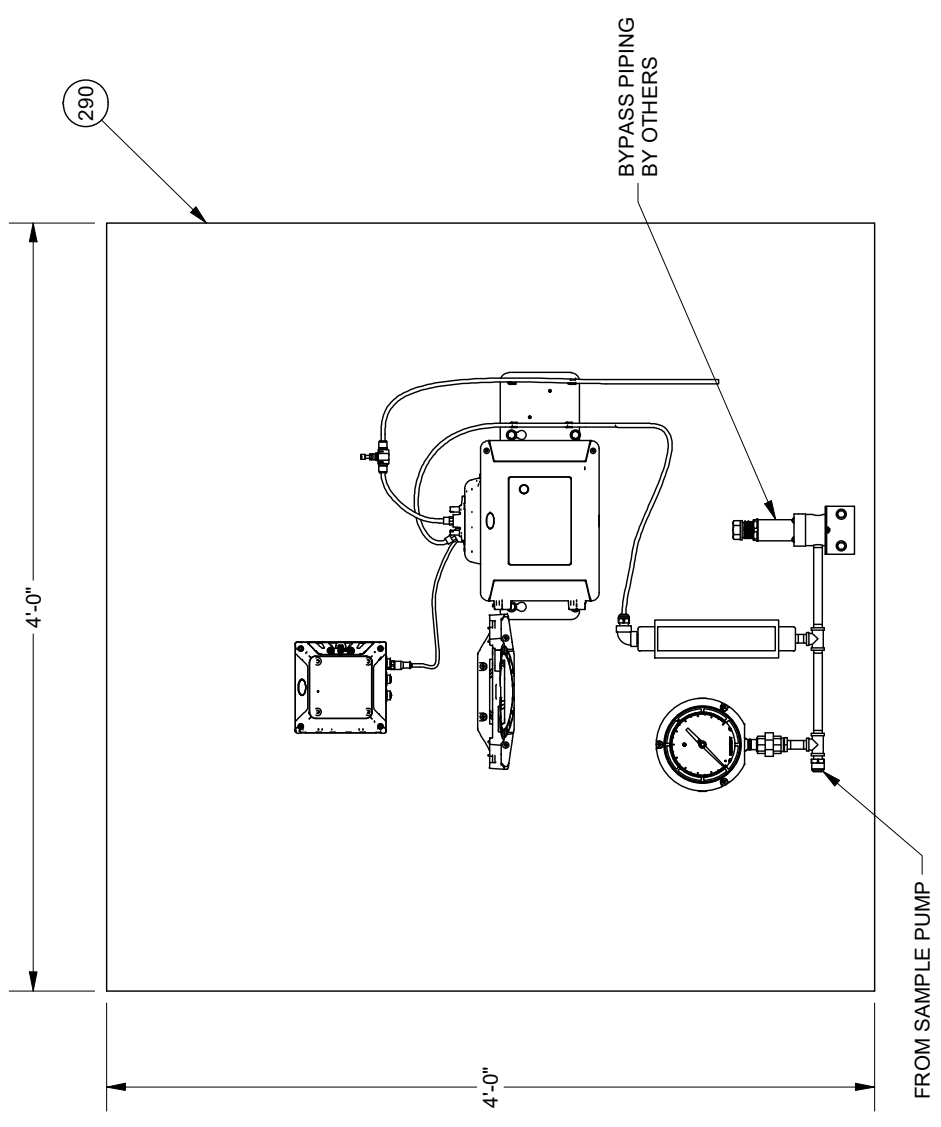
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INSTRUMENTATION COMPONENTS, THREE UNITS
TRIDENT® TR-840A, WATER TREATMENT SYSTEM

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|------------|-----------------|----------|------------|
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| PE84 | BA92 | DE111 | 2023-02-10 |
| JOB NUMBER | DOCUMENT NUMBER | SHEET | |
| 24862A | 0003053858 | 3 OF 4 | |


| BILL OF MATERIAL | | | | | | |
|------------------|----------|------------|---|----------|--------|--------------|
| PIECE | UNIT QTY | PART NO | DESCRIPTION | MATERIAL | LENGTH | TOTAL WT, LB |
| 10 | 3 | 2-11247 | BOX, ELEC, 1 GANG, 4 HUB, 0.5 HUB SIZE, 17 CU IN | AL | | 1.8 |
| 20 | 3 | 2-11248 | COVER, ELEC BOX, BLANK, 1 GANG, BRUSHED ALUM FINISH | AL | | 0.0 |
| 30 | 6 | 2-10656 | VALVE, NEEDLE, 0.25 FNPT x 0.25 MNPT | BRS | | 1.2 |
| 40 | 9 | 2-5995 | ELBOW, 90 DEG, SCH 80, 0.75 FNPT | PVC | | 0.9 |
| 50 | 9 | 2-4088 | BUSHING, PIPE, FLUSH, SCH 80, 0.75 MNPT x 0.375 FNPT | PVC | | 0.3 |
| 60 | 9 | 2-11221 | ADPTR, TUBE, 150LB, 0.375 PUSH x 0.375 MPFT | ACETAL | | 0.3 |
| 70 | 12 | 2-11219 | ADPTR, TUBE, 150LB, 0.25 PUSH x 0.25 MPFT | ACETAL | | 0.2 |
| 80 | 6 | 2-11287 | GRIP, CORD, STRAIGHT, 0.5 HUB, 0.125-0.375 CORD | 6061 | | 0.4 |
| 90 | 6 | 2-11254 | NUT, LOCK, SEALING, 0.5-14NPT, YLW ZINC | STL | | 0.1 |
| 100 | 36 | 2-5404 | WSHR, FLAT, 0.375 | 304 | | 0.4 |
| 110 | 18 | 2-5433 | WSHR, LOCK, MDM SPLIT, 0.375 | 304 | | 0.1 |
| 120 | 18 | 2-5887 | NUT, HEX, 0.375-16UNC | 304 | | 0.3 |
| 130 | 6 | 2-6355 | CAP SCR, HEX, 0.375-16UNC x 1.5 | 304 | | 0.4 |
| 140 | 12 | 2-5402 | WSHR, FLAT, 0.25 | 304 | | 0.1 |
| 150 | 6 | 2-5415 | WSHR, LOCK, MDM SPLIT, 0.25 | 304 | | 0.0 |
| 160 | 6 | 2-5882 | NUT, HEX, 0.25-20UNC | 304 | | 0.1 |
| 170 | 6 | 2-6324 | CAP SCR, HEX, 0.25-20UNC x 1.5 | 304 | | 0.2 |
| 180 | 6 | 2-48813 | TUBE, EXTRUDE, 0.25 OD x 0.040 WALL x 120, WHITE, SEMI-CLEAR, FOOD GRADE | PE | 66 | 0.5 |
| 190 | 3 | 1-49992 | BRACKET, FLOAT SWITCH, 6.25 PJTN x 42 LG | 304-304L | | 21.1 |
| 200 | 6 | 2-5814 | NIPPLE, PIPE, PLAIN, TBE, NPT, SCH 80, 0.75 x SHORT | PVC | | 0.2 |
| 210 | 3 | 2-11403 | VALVE, BALL, TRUE UNION, FULL PORT, SCH 80, T HDL, QTR TURN, 0.75, SOC | PVC | | 1.5 |
| 220 | 3 | 2-48814 | TUBE, EXTRUDE, 0.375 OD x 0.0625 WALL x 72, WHITE, SEMI-CLEAR, FOOD GRADE | PE | 75 | 0.3 |
| 240 | 6 | 2-56422 | TRANSMITTER, PRESSURE, GA PRESS, 0.5 FNPT, -14.7 TO 30 PSI, 0.05 % ACCURACY, 4-20 mA 2 WIRE SIGNAL, LOCAL DISPLAY | | | 14.6 |
| 250 | 6 | 2-18100 | MANIFOLD, 2-VALVE, N/A, 0.5 FNPT INLET x 0.5 MNPT OUTLET x 0.25 FNPT BLEED, INLINE, PTFE PACKING | 316 | | 5.5 |
| 260 | 6 | 2-4316 | BUSHING, PIPE, OUTSIDE HEX, 150LB, 0.5 MNPT x 0.25 FNPT | 304 | | 0.8 |
| 270 | 12 | 2-6358 | CAP SCR, HEX, 0.375-16UNC x 2.25 | 304 | | 1.1 |
| 280 | 3 | 2-35967 | PUMP, CNTFGL, 0.75 x 0.75, 0.063HP, 3150RPM, 115VAC, 60HZ, MNPT | PP | | 27.0 |
| 290 | 3 | 0003513125 | TURBIDIMETER PANEL ASSY, CUSTOM, LASER, SC4500 CONTROLLER, PUMP | | | 140.0 |
| 300 | 3 | 2-54277 | TRANSMITTER, LEVEL, RADAR, TIME OF FLIGHT, NON-HAZARDOUS AREA, 2 WIRE, 4-20mA LOOP, 15m MAX RANGE, 2 MNPT | AL | | 16.5 |
| 310 | 3 | 0003529271 | RADAR LEVEL MOUNTING AND BRACKET ASSEMBLY | | | 28.9 |
| 320 | 3 | 2-48814 | TUBE, EXTRUDE, 0.375 OD x 0.0625 WALL x 72, WHITE, SEMI-CLEAR, FOOD GRADE | PE | 438 | 1.3 |
| 330 | 6 | 2-57464 | SWITCH, FLOAT, SUSPENSION, NO/NC, MERCURY FREE SWITCH, 180 CBL | PP | | 19.8 |
| 340 | 3 | 2-57364 | LOOP POWERED PROCESS INDICATOR, PLASTIC FIELD HOUSING, 4-20mA +HART +LEVEL FOR FMR20+FMX21 +FMG50, NON-HAZARDOUS AREA | PVDF | | 5.1 |
| 350 | 6 | 2-33285 | CAP SCR, HEX, CLASS A2-70, M6-1 x 20, FULL THREAD | 304 | | 0.0 |
| 360 | 12 | 2-18715 | WSHR, FLAT, M6 | 304 | | 0.1 |
| 370 | 6 | 2-38899 | NUT, LOCK, NYL INSERT, CLASS A2, M6-1,00 | 304 | | 0.0 |



PIECE 290
EFFLUENT TURBIDITY ASSEMBLY
FIELD MOUNTED BY OTHERS

NOTES:

1. FOLLOW THE LISTED WESTECH REFERENCE DOCUMENTS EXCEPT AS NOTED ON THIS DRAWING.
2. SET CLARIFIER PRESSURE GAUGE AT ZERO AFTER THE TANK IS FILLED TO OPERATING WATER LEVEL BUT BEFORE PLANT FLOW HAS BEEN STARTED. SET SWITCH CONTACTS TO CLOSE AT A READING OF 3 PSI ON THE GAUGE. THIS SETTING IS VITAL TO THE STRUCTURE OF THE ADSORPTION CLARIFIER AND MUST BE SET AS ACCURATELY AS POSSIBLE. SET SWITCH CONTACTS TO CLOSE AT A READING OF 2 PSI ON THE GAUGE. PROCESS AND PLANT OPERATION REQUIREMENTS MAY VARY THIS SETTING PLUS OR MINUS BUT THE SETTING SHOULD NOT EXCEED 2.5 PSI.
3. SET FILTER HEADLOSS GAUGE AT ZERO AFTER THE TANK IS FILLED TO OPERATING WATER LEVEL BUT BEFORE FILTERING FLOW HAS BEEN STARTED. SET HEADLOSS SWITCH CONTACTS TO CLOSE AT A READING OF 8 FT H2O VAC ON THE GAUGE. PROCESS AND PLANT OPERATION REQUIREMENTS MAY VARY THIS SETTING PLUS OR MINUS. SET SWITCH CONTACTS TO CLOSE AT A READING OF 4 PSI.
4. LENGTH OF SAMPLE TUBING TO BE AS SHORT AS PRACTICAL TO MINIMIZE LAG TIME IN SAMPLING.
5. ADJUST TURBIDIMETER NEEDLE VALVE TO OBTAIN AN APPROXIMATE 5 TO 7 GPH SAMPLE RATE.



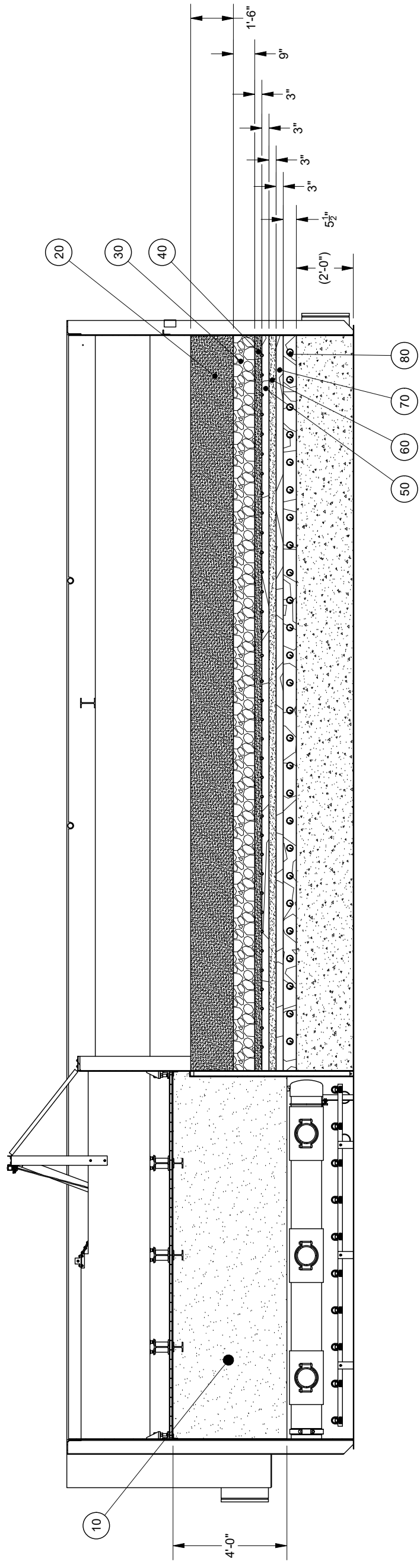
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INSTRUMENTATION COMPONENTS, THREE UNITS
TRIDENT® TR-840A, WATER TREATMENT SYSTEM

| | | | |
|---------------|-------------------|----------|---------------|
| DESIGNER | CHECKER | APPROVER | DATE |
| PEB4 | BA92 | DE111 | 2023-02-10 |
| JOB NUMBER | DOCUMENT NUMBER | | SHEET |
| 24862A | 0003053858 | | 4 OF 4 |

| BILL OF MATERIAL | | | | | |
|------------------|---------|---------------------|--|------------|---------------|
| PIECE | PART NO | MEDIA VOLUME | DESCRIPTION | MATERIAL | TOTAL WT., LB |
| 10 | 2-6892 | 560 ft ³ | MEDIA, AC, 50/50 VIRGIN/R&S (MS 107/MS110), NSF APPROVED | HDPE | 20720.0 |
| 20 | 2-4804 | 425 ft ³ | ANTHRACITE, 1.0-1.1 MM EFF SIZE, 1.7 MAX UC, 1.4 MIN SG, MS-4 | ANTHRACITE | 22525.0 |
| 30 | 2-11029 | 221 ft ³ | SAND, SILICA, 0.35-0.45 MM EFF SIZE, 1.4 UC MAX, MIN SG OF 2.60, MS-18 | SAND SIL | 22100.0 |
| 40 | 2-5953 | 74 ft ³ | SAND, GARNET, 0.2-0.32 MM EFF SIZE, 1.7 UC MAX, MIN SG OF 3.8, MS-21 | SAND GAR | 9028.0 |
| 50 | 2-4795 | 74 ft ³ | GRAVEL, GARNET, 1.4 x 1.6, 1.6 UC MAX, 3.8 SG MIN, MS-22 | GRAVEL | 10730.0 |
| 60 | 2-4761 | 74 ft ³ | GRAVEL, GRADED, 0.1875 x 0.375, 2.5 SG MIN | GRAVEL | 7400.0 |
| 70 | 2-4762 | 74 ft ³ | GRAVEL, GRADED, 0.375 x 0.75, 2.5 SG MIN | GRAVEL | 7400.0 |
| 80 | 2-4745 | 139 ft ³ | GRAVEL, GRADED, 0.75 x 1.5, 2.5 SG MIN | GRAVEL | 13900.0 |



- NOTES:**
1. THE BILL OF MATERIAL LISTS THE MEDIA REQUIRED FOR ONE UNIT, INCLUDING COVERAGE. MEDIA QUANTITY PROVIDED FOR THREE NEW UNITS.
 2. FOLLOW THE LISTED WESTECH REFERENCE DOCUMENTS EXCEPT AS NOTED ON THIS DRAWING.
 3. ALL LAYERS OF MEDIA TO BE LEVEL AND IN ACCORDANCE WITH MEDIA PLACEMENT SPECIFICATIONS. PLACEMENT TOLERANCE:
 LAYERS 3" AND LESS: ± 1/2"
 LAYERS 9" AND DEEPER: ± 1"
 FINISHED FILTER BED: ± 1"
 4. FILTER GUARANTEE REQUIRES WESTECH ENGINEERING'S TECHNICAL DIRECTION DURING MEDIA PLACEMENT.
 5. FILTER MEDIA BAGS MUST BE PROTECTED FROM THE WEATHER AND STACKED NOT MORE THAN 5 (FIVE) HIGH TO PREVENT BREAKAGE. WHEN BULK SHIPMENT IS USED THE FILTER MEDIA MUST BE PROTECTED FROM THE WEATHER AND COVERED TO PREVENT WIND-BLOWN LOSS DURING MEDIA PLACEMENT.
 6. APPROXIMATELY TWO BACKWASH AND SKIMMING OPERATIONS WILL BE REQUIRED DURING MEDIA PLACEMENT. EACH BACKWASH WILL BE ABOUT A 10 MINUTE DURATION.
 7. FILTER MEDIA PLACEMENT MUST BE DONE UNDER WESTECH ENGINEERING'S DIRECTION AFTER ALL ELECTRICAL, HYDRAULIC AND CONTROL SYSTEMS ARE INSTALLED AND/OR REPAIRED AND OPERABLE PRIOR TO ARRIVAL OF TECHNICAL DIRECTOR.
 8. MEDIA SHOULD BE PLACED IN ADSORPTION CLARIFIER AFTER ALL AIR WASH LATERALS AND SUPPORTS HAVE BEEN ASSEMBLED AND PRIOR TO INSTALLATION OF MEDIA RETAINER COVER. THERE IS TO BE NO UNSCREENED OPENINGS IN MEDIA RETAINING COVER. SEE PROJECT'S O&M MANUAL FOR MEDIA INSTALLATION PROCEDURES.

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TITLE: **MEDIA LOADING SCHEDULE**
 TRIDENT® TR-840A WATER TREATMENT SYSTEM

| | | | |
|---------------|-------------------|----------|------------|
| DESIGNER | CHECKER | APPROVER | DATE |
| PE84 | BA92 | DE111 | 2023-02-17 |
| JOB NUMBER | DOCUMENT NUMBER | SHEET | |
| 24862A | 0002885579 | 1 OF 1 | |

EQUIPMENT DESCRIPTION:

TYPE OF EQUIPMENT / TAG NUMBER(S): _____
SUBMERGED PROCESS EQUIPMENT (DOMESTIC)
ITEMS REQUIRING THIS COATING SYSTEM: _____
ALL PARTIALLY SUBMERGED OR TOTALLY SUBMERGED ITEMS
MATERIAL TO BE COATED: CARBON STEEL

PROCESS APPLICATION

DESIGN / OPERATING TEMPERATURE: _____
HUMIDITY: _____
0°F TO 120°F MAXIMUM
100%
SERVICE CONDITIONS: _____
SUBMERGED
UV EXPOSED: _____
NO
PROCESS ENVIRONMENT: _____
POTABLE WATER
pH LEVEL: _____
NEUTRAL (6-9)
IF pH IS NOT NEUTRAL,
WATER CHEMISTRY ANALYSIS IS REQUIRED:
COATINGS SHALL MEET NSF 61 CERTIFICATION:
MAXIMUM PPM CHLORIDES: _____
NO
NO
NO
 NOT REQUIRED / NOT BY WESTECH
NOT REQUIRED / NOT BY WESTECH
 YES
NOT REQUIRED / NOT BY WESTECH
 NOT REQUIRED / NOT BY WESTECH
NOT REQUIRED / NOT BY WESTECH
1,000 PPM
NACE 2 / SP10
2.0 mils

FINISHING

INSULATED: _____
FIREPROOFING: _____
NO
NO
NO
CATHODIC PROTECTION SYSTEM: _____

INSPECTION REQUIREMENTS

NACE CERTIFIED COATINGS INSPECTOR: _____
NACE CERTIFICATION LEVEL REQUIRED: _____
HOLIDAY TEST (NACE SP0188): _____
SOLUBLE SALT TEST: _____
MILLIGRAMS / METERS² ACCEPTABLE: _____
ADHESION TEST: _____
 NOT REQUIRED / NOT BY WESTECH
NOT REQUIRED / NOT BY WESTECH
 YES
NOT REQUIRED / NOT BY WESTECH
 NOT REQUIRED / NOT BY WESTECH
NOT REQUIRED / NOT BY WESTECH

SURFACE PREPARATION

NACE/SSPC SURFACE CLEANING STANDARD: _____
MINIMUM ANGULAR ANCHOR PROFILE RANGE: _____
NACE 2 / SP10
2.0 mils

COATING SYSTEM SPECIFICATION

COATING MANUFACTURER: _____
TNAMEC
TYPE OF COATING: _____
PHENALKAMINE
(EPOXY)
PRODUCT NAME/NUMBER: _____
 SERIES 21
DRY FILM THICKNESS (DFT) _____
5-7 mils
MINIMUM-MAXIMUM mils: _____
BEIGE (1255)
COLOR NAME/ NUMBER: _____
OFF WHITE (WH16)
OFF WHITE (WH16)

STRIPES COAT

TNAMEC
PHENALKAMINE
(EPOXY)
 SERIES 21
5-7 mils
OFF WHITE (WH16)
OFF WHITE (WH16)

COATING #2

TNAMEC
PHENALKAMINE
(EPOXY)
 SERIES 21
5-7 mils
OFF WHITE (WH16)
OFF WHITE (WH16)

TOTAL DRY FILM THICKNESS: _____
10-14 mils

NOTES:

1. FOLLOW THE LISTED WESTECH REFERENCE DOCUMENTS EXCEPT AS NOTED ON THIS DRAWING.
2. FIELD TOUCH-UP PAINT, LABOR AND COATINGS ARE NOT SUPPLIED BY WESTECH.
3. EPOXY COATINGS CHALK WHEN EXPOSED TO UV LIGHT AND WILL FADE.
4. SURFACE PREPARATION AND COATING APPLICATION:
 - a. SHALL BE IN ACCORDANCE WITH NACE/SSPC STANDARDS. COATING MANUFACTURER'S PRODUCT DATA SHEET AND WESTECH WORKMANSHIP STANDARD QR-00-063 (SECTION 3.1).
 - b. PRE-CLEANING - VERIFY THAT ALL SURFACES ARE FREE OF WELD SLAG, SPATTER, SHARP EDGES, AND BURRS PER QR-00-063 (SECTION 2.1).
 - c. CLEANING - PRIOR TO ABRASIVE BLAST CLEANING, SOLVENT WIPE PER SSPC SP1. REMOVE ALL VISUAL GREASE, OIL, WAX, AND ALL OTHER CONTAMINATION.
 - d. WHEN SSPC SP6 IS SPECIFIED AND NEW STEEL IS USED, PER NACE VIS 1 SURFACE CLEANING SHALL BE SP10.
5. FOR FIELD RECOAT WINDOWS, REFER TO THE COATING MANUFACTURER'S PRODUCT DATA SHEET, AND FOR EXACT SHOP COATING APPLICATION DATES, CONTACT WESTECH.
6. COATING THICKNESS RESTRICTION LEVEL SHALL BE IN ACCORDANCE WITH SSPC PA2, TABLE 1 - RESTRICTION LEVEL 3 (80%-120%).
7. MACHINED SURFACES AND FORGED (ANSI) PIPE FLANGE FACES SHALL BE PROTECTED FROM ABRASIVE BLAST CLEANING AND COATING APPLICATION IN ACCORDANCE WITH THE WESTECH WORKMANSHIP STANDARD QR-00-063 (SECTIONS 2.6 AND 3.1). AFTER COATING APPLICATION IS COMPLETE, APPLY LPS3, COSMOLINE OR EQUIVALENT RUST INHIBITOR TO PROTECT THESE SURFACES DURING SHIPPING.
8. FOR SUBMERGED APPLICATIONS: STRIPE COAT ALL WELDS, CUT EDGES, BOLT HOLES AND SLOTS USING A BRUSH. STRIPE COAT PER SSPC PA GUIDE 11 MAY BE COMPLETED AFTER PRIME COAT. STRIPE COAT 1" [25mm] BEYOND EDGE OR WELD.
9. PIPING 24" OR LESS IN DIAMETER IS ONLY COATED ON THE OUTSIDE SURFACES, EXCEPT FOR TANK AND VESSEL NOZZLES, WHICH REQUIRE COATINGS TO BE APPLIED BOTH INTERNALLY AND EXTERNALLY.
10. ALL BUYOUT ITEMS SUCH AS NON-WESTECH DRIVES, BEARING HOUSINGS, AND MOTORS RECEIVE MANUFACTURER'S STANDARD PROTECTIVE COATINGS.
11. NON-FERROUS MATERIALS, SUCH AS FIBERGLASS, ALUMINUM, PLASTIC, ETC. SHALL NOT BE COATED, EXCEPT WHEN SPECIFICALLY STATED ON DRAWINGS OR IN THE PURCHASE ORDER.
12. COATING THICKNESS SHALL BE MEASURED ABOVE THE PEAKS OF THE ANCHOR PROFILE. COATING SYSTEMS OF LESS THAN (15) mils DRY FILM THICKNESS (DFT) SHALL INCLUDE A "BASE METAL READING" ADJUSTMENT TO THE DRY FILM THICKNESS GAGE. WHEN THE ABRADED SURFACE IS INACCESSIBLE DUE TO COATING APPLICATION, AND NO REFERENCE SURFACE IS AVAILABLE, A MINIMUM OF (1) mil DRY FILM THICKNESS SHALL BE SUBTRACTED FROM THE DRY FILM THICKNESS GAGE READINGS.
13. USE A MAXIMUM OF 5% F041-0088 THINNER CLEAR BY VOLUME WITH TNAMEC SERIES 21.
14. REFERENCE NOTES: ONLY APPLICABLE WHEN SPECIFIC DATA IS LISTED UNDER "INSPECTION REQUIREMENTS"
NACE CERTIFIED COATING INSPECTION - (IF YES) - COATING SHALL BE INSPECTED BY A NACE CERTIFIED INSPECTOR, LEVEL 1 OR HIGHER.
SPECIFY LEVEL ON THE NEXT LINE.
HOLIDAY TEST - (IF YES) - HOLIDAY TESTING SHALL BE IN ACCORDANCE WITH THE COATING MANUFACTURER'S PRODUCT DATA SHEET (PREFERRED METHOD) OR PER NACE SP-0188.
SOLUBLE SALT TEST - (IF YES) - TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SSPC GUIDE-15. LIMITS SHALL BE DEFINED AS MILLIGRAMS/METER² (mg/m²). IF CLIENT DOES NOT SPECIFY, SEND REQUEST FOR INFORMATION.
ADHESION TEST - (IF YES) - TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM D3359 "X-CUT ADHESION" (TAPE) OR ASTM D4541 (PULL-OFF). IF PULL-OFF IS SPECIFIED, MINIMUM ADHESION SHALL BE SPECIFIED IN PSI AND BASED ON COATING MANUFACTURER'S RECOMMENDATIONS.
15. THE MAXIMUM TOTAL DRY FILM THICKNESS (DFT) FOR NSF 61 CERTIFIED COATINGS USING SERIES 21 IS 20 mils. DO NOT EXCEED.
16. STAINLESS STEEL COMPONENTS WELDED TO CARBON STEEL SHALL BE COATED EXCEPT WHERE NOTED ON DRAWING.

PREPARED FOR: OLIVER P. ROEMER WTF
RIALTO, CALIFORNIA

ENGINEER: STANTEC
PASADENA, CALIFORNIA

CONTRACTOR: PCL CONSTRUCTION
LONG BEACH, CALIFORNIA

PO/CONTRACT NUMBER: 03269401-0M



TITLE: COATING DATA SHEET
SUBMERGED WATER (MICROFLOC PACKAGE SYSTEM)

EQUIPMENT DESCRIPTION:

TYPE OF EQUIPMENT: NON-SUBMERGED PROCESS EQUIPMENT (DOMESTIC)
TAG NUMBER(S): N/A
ITEMS REQUIRING THIS COATING SYSTEM: ALL EXTERIOR ITEMS
MATERIAL TO BE COATED: CARBON STEEL

PROCESS APPLICATION

DESIGN / OPERATING TEMPERATURE: DRY 140°F MAXIMUM CONTINUOUS
HUMIDITY: 0 -100% ATMOSPHERIC
SERVICE CONDITIONS: NON-SUBMERGED
UV EXPOSED: NO
PROCESS ENVIRONMENT: PROCESS WATER
PH LEVEL: _____
IF pH IS NOT NEUTRAL, WATER CHEMISTRY ANALYSIS IS REQUIRED: NO

FINISHING

INSULATED: NO
FIREPROOFING: NO
CATHODIC PROTECTION SYSTEM: NO

INSPECTION REQUIREMENTS

NACE CERTIFIED COATINGS INSPECTOR: NOT REQUIRED / NOT BY WESTECH
NACE CERTIFICATION LEVEL REQUIRED: NOT REQUIRED / NOT BY WESTECH
HOLIDAY TEST (NACE SP0188): YES
SOLUBLE SALT TEST: NOT REQUIRED / NOT BY WESTECH
MILLIGRAMS / METERS² ACCEPTABLE: NOT REQUIRED / NOT BY WESTECH
ADHESION TEST: NOT REQUIRED / NOT BY WESTECH

SURFACE PREPARATION

NACE/SSPC SURFACE CLEANING STANDARD: NACE 2 / SP10
MINIMUM ANGULAR ANCHOR PROFILE RANGE: 2.0 mils

COATING SYSTEM SPECIFICATION

COATING MANUFACTURER: PRIMER COAT #1 COATING #2
TNEMEC TNEMEC
TYPE OF COATING: PHENALKAMINE ALAPHATIC ACRYLIC
(GENERIC): (EPOXY) POLYURETUANE
PRODUCT NAME/NUMBER: SERIES 21 SERIES 73
DRY FILM THICKNESS (DFT) 5-7 mils 3-5 mils
MINIMUM-MAXIMUM mils: BEIGE (1255) AQUA SKY (10GN)
COLOR NAME / NUMBER: 8-12 mils

TOTAL DRY FILM THICKNESS OF SYSTEM:

NOTES:

- FOLLOW THE LISTED WESTECH REFERENCE DOCUMENTS EXCEPT AS NOTED ON THIS DRAWING.
- FIELD TOUCH-UP PAINT, LABOR AND COATINGS ARE NOT SUPPLIED BY WESTECH.
- EPOXY COATINGS CHALK WHEN EXPOSED TO UV LIGHT AND WILL FADE.
- SURFACE PREPARATION AND COATING APPLICATION:
 - SHALL BE IN ACCORDANCE WITH NACE/SSPC STANDARDS, COATING MANUFACTURER'S PRODUCT DATA SHEET AND WESTECH WORKMANSHIP STANDARD QR-00-063 (SECTION 3.1).
 - PRE-CLEANING - VERIFY THAT ALL SURFACES ARE FREE OF WELD SLAG, SPATTER, SHARP EDGES, AND BURRS PER QR-00-063 (SECTION 2.1).
 - CLEANING - PRIOR TO ABRASIVE BLAST CLEANING, SOLVENT WIPE PER SSPC SP1. REMOVE ALL VISUAL GREASE, OIL, WAX, AND ALL OTHER CONTAMINATION. WHEN SSPC SP6 IS SPECIFIED AND NEW STEEL IS USED, PER NACE VIS 1 SURFACE CLEANING SHALL BE SP10.
- FOR FIELD RECOAT WINDOWS, REFER TO THE COATING MANUFACTURER'S PRODUCT DATA SHEET, AND FOR EXACT SHOP COATING APPLICATION DATES, CONTACT WESTECH.
- COATING THICKNESS RESTRICTION LEVEL SHALL BE IN ACCORDANCE WITH SSPC PA2, TABLE 1 - RESTRICTION LEVEL 3 (80%-120%).
- MACHINED SURFACES AND FORGED (ANSI) PIPE FLANGE FACES SHALL BE PROTECTED FROM ABRASIVE BLAST CLEANING AND COATING APPLICATION IN ACCORDANCE WITH THE WESTECH WORKMANSHIP STANDARD QR-00-063 (SECTIONS 2.6 AND 3.1). AFTER COATING APPLICATION IS COMPLETE, APPLY LPS3, COSMOLINE OR EQUIVALENT RUST INHIBITOR TO PROTECT THESE SURFACES DURING SHIPPING.
- PIPING 24" OR LESS IN DIAMETER IS ONLY COATED ON THE OUTSIDE SURFACE, EXCEPT FOR TANK AND VESSEL NOZZLES, WHICH REQUIRE COATINGS TO BE APPLIED BOTH INTERNALLY AND EXTERNALLY.
- ALL BUYOUT ITEMS SUCH AS NON-WESTECH DRIVES, BEARING HOUSINGS, AND MOTORS RECEIVE MANUFACTURER'S STANDARD PROTECTIVE COATINGS.
- NON-FERROUS MATERIALS, SUCH AS FIBERGLASS, ALUMINUM, STAINLESS STEEL, PLASTIC, ETC. SHALL NOT BE COATED, EXCEPT WHEN SPECIFICALLY STATED ON DRAWINGS OR IN THE PURCHASE ORDER.
- COATING THICKNESS SHALL BE MEASURED ABOVE THE PEAKS OF THE ANCHOR PROFILE. COATING SYSTEMS OF LESS THAN (15) mils DRY FILM THICKNESS (DFT) SHALL INCLUDE A "BASE METAL READING" ADJUSTMENT TO THE DRY FILM THICKNESS GAGE. WHEN THE ABRADED SURFACE IS INACCESSIBLE DUE TO COATING APPLICATION, AND NO REFERENCE SURFACE IS AVAILABLE, A MINIMUM OF (1) mil DRY FILM THICKNESS SHALL BE SUBTRACTED FROM THE DRY FILM THICKNESS GAGE READINGS.
- USE A MAXIMUM OF 5% F041-0088 THINNER CLEAR BY VOLUME WITH TNEMEC SERIES 21.
- REFERENCE NOTES: ONLY APPLICABLE WHEN SPECIFIC DATA IS LISTED UNDER "INSPECTION REQUIREMENTS"
NACE CERTIFIED COATING INSPECTION - (IF YES) - COATING SHALL BE INSPECTED BY A NACE CERTIFIED INSPECTOR, LEVEL 1 OR HIGHER. SPECIFY LEVEL ON THE NEXT LINE.
HOLIDAY TEST - (IF YES) - HOLIDAY TESTING SHALL BE IN ACCORDANCE WITH THE COATING MANUFACTURER'S PRODUCT DATA SHEET (PREFERRED METHOD) OR PER NACE SP-0188.
SOLUBLE SALT TEST - (IF YES) - TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SSPC GUIDE-15. LIMITS SHALL BE DEFINED AS MILLIGRAMS/METER² (mg/m²). IF CLIENT DOES NOT SPECIFY, SEND REQUEST FOR INFORMATION.
ADHESION TEST - (IF YES) - TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM D3359 "X-CUT ADHESION" (TAPE) OR ASTM D4541 (PULL-OFF). IF PULL-OFF IS SPECIFIED, MINIMUM ADHESION SHALL BE SPECIFIED IN PSI AND BASED ON COATING MANUFACTURER'S RECOMMENDATIONS.
- EXTERIOR BOTTOM OF TANK UNCOATED. INSTALLING CONTRACTOR TO APPLY ASPHALTIC COATING TO EQUIPMENT BASE PAD PRIOR TO TANK PLACEMENT.
- IF RAW MATERIAL SHORTAGES OCCUR AT THE TIME OF PAINT APPLICATION, THEN TNEMEC HAS RECOMMENDED SERIES 1074UJ AS AN ALTERNATE TO SERIES 73. IF THIS CHANGE IS REQUIRED, THEN WESTECH WILL PROVIDE COMMUNICATION OF THE UPDATE AT THE TIME OF APPLICATION, UNLESS OTHER NOTED IN SUBSEQUENT COMMUNICATIONS. TNEMEC SERIES 73 WILL BE USED.

PREPARED FOR OLIVER P. ROEMER WTF
RIALTO, CALIFORNIA

ENGINEER STANTEC
PASADENA, CALIFORNIA

CONTRACTOR PCL CONSTRUCTION
LONG BEACH, CALIFORNIA

PO/CONTRACT NUMBER 03269401-OM



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TITLE **COATING DATA SHEET**
NON-SUBMERGED (TRIDENT®)

| | | | |
|------------|-----------------|----------|------------|
| DESIGNER | CHECKER | APPROVER | DATE |
| PE84 | DE111 | DE111 | 2023-02-03 |
| JOB NUMBER | DOCUMENT NUMBER | SHEET | REV |
| 24862A | 0003054288 | 1 OF 1 | A |

| REV | REVISION DESCRIPTION | ECON | DESIGNER | APPROVER | DATE | REFERENCE DOCUMENTS |
|-----|-------------------------------|------|----------|----------|------------|---------------------|
| A | EXTERIOR FINISH PAINT CHANGED | - | PE84 | DE111 | 2023-05-17 | QR-00-063 |

EXHIBIT B

**WEST VALLEY WATER DISTRICT
WATER TREATMENT FACILITY FILTER MEDIA REPLACEMENT & COATING PROJECT 2023-14 RESULTS**

| VENDOR | FINAL BID AMOUNT | Bid Acknowledgement | PW Contract Reg Certs | Iran Contracting Act Cert. | Inform of Bidders | Designation of Subcontractors | Noncollusion Declaration w/Notary Acknowledge | Originals |
|-----------------------|------------------|---------------------|-----------------------|----------------------------|-------------------|-------------------------------|---|-----------|
| ERS | \$1,147,660.00 | X | X | X | X | X | X | X |
| Carbon Activated Corp | \$1,263,489.00 | X | X | X | X | X | X | X |
| Karbonous, Inc | \$1,375,240.00 | X | X | X | X | X | X | X |

Lowest Bidder



**BOARD OF DIRECTORS
ENGINEERING, OPERATIONS AND PLANNING COMMITTEE
STAFF REPORT**

DATE: November 21, 2023
TO: Engineering, Operations and Planning Committee
FROM: Linda Jadeski, Director of Engineering
SUBJECT: CHANGE ORDER NO. 3 WITH PCL CONSTRUCTION, INC. FOR THE OLIVER P. ROEMER WATER FILTRATION FACILITY UPGRADE AND EXPANSION PROJECT

BACKGROUND:

In February 2023 the Board of Directors approved a \$3,000,000 construction contingency for the Oliver P. Roemer Water Filtration Facility Upgrade and Expansion project which was to be set aside for unexpected costs during construction. Construction contingency is a form of risk management used to avoid cutting costs, to keep the project's schedule on track and to ensure material and workmanship quality. It is also used to cover other costs such as:

- Unknown underground conflicts
- Unpredictable changes in the scope
- Unexpected costs that can arise
- Owner-requested changes
- Design upgrades/modifications

Unexpected costs are inevitable on a project of this magnitude and within the current unpredictable construction/procurement environment. Identifying the need for the unexpected cost through a change order and managing them as they arise are key to the project's success.

Attached as Exhibit A is Change Order No. 3 for the above referenced project. This change order includes the change in scope of work to modify the design and construction of the facility from Risk Category II to Risk Category III pursuant to the 2022 California Building Code. The changes include the reinforcement of the perimeter footing of the filter building, additional excavation, formwork, concrete and rebar for the effluent pump station, increased wall thickness, foundation and rebar for the retaining wall, an increase in the vertical wall reinforcement and roof sheathing due to the increased seismic load calculation of the operations building and the additional equipment and labor needed to support those efforts. It also includes a descope of the new UV transmittance for the new UV reactor that was originally part of PCL's scope of supply. No time impacts to the project schedule result from this change order.

FISCAL IMPACT:

The cost to perform the additional work as outlined in Change Order No. 3 is \$162,046.00. The cost for this change order is to be covered through the existing construction contingency which will leave \$2,782,507.79 available for any future change orders if needed. This change order will increase the contract amount to \$59,334,363.21.

STAFF RECOMMENDATION:

Staff recommends that the Committee forward a recommendation to the Board of Directors to:

1. Approve Change Order No. 3 with PCL Construction, Inc. in the amount of \$162,046.00 for the Oliver P. Roemer Water Filtration Facility Upgrade and Expansion Project and;
2. Authorize the General Manager to execute all necessary documents.

Respectfully Submitted,

John Thiel

John Thiel, General Manager

LJ:ls

ATTACHMENT(S):

1. Exhibit A - Change Order #3 - Risk Category Change and UVT Removal

EXHIBIT A

WEST VALLEY WATER DISTRICT

CHANGE ORDER

Order No. 3
Date 11/9/2023
Agreement Date 10/31/2022
Sheet 1 of 2

Owner: West Valley Water District

Project: Oliver P Roemer Water Filtration Facility Upgrade and Expansion

Contractor: PCL Construction, Inc

The following changes are hereby made to the Contract Documents:

| <u>ITEM NO.</u> | <u>EXTRA WORK DESCRIPTION</u> | <u>ADD</u> | <u>DEDUCT</u> | <u>CALENDAR DAYS</u> |
|--------------------------------------|---|-------------------|----------------------|-----------------------------|
| 1 | Delete: UV Transmittance for new UV reactors | - | (\$14,810) | - |
| | Add: Impacts associated with the Structural redesign from Risk Category II to Risk Category III | \$176,856 | | |
| | TOTALS | - | - | - |
| TOTALS FOR CHANGE ORDER NO. 3 | | | | \$162,046 |

JUSTIFICATION:

For item#1 - Owner-initiated change for descoping the new UV Transmittance for the UV reactors, which was originally part of PCL’s scope of supply.

For item#2 - Pre-proposal documentation directed the Contractor to design/build to Risk Category II, as the structural risk category for the project. This Change Order was the result of the structural redesign being revised to Risk Category 3 as directed by the West Valley Water District.

CHANGE TO CONTRACT PRICE

Original Contract Price \$ 59,116,871.00

Current Contract Price Adjusted by Previous Change Order(s) \$ 59,172,317.21

Contract Price due to this Change Order shall be increased

\$ 162,046

New Contract Price including this Change Order

\$ 59,334,363.21

CHANGE TO CONTRACT TIME

Contract Time will be

No time impacts
(Calendar Days)

Date for Completion of all Work

05/31/2025
(Date)

REQUIRED APPROVALS:

To be effective, this Change Order must be approved by the Owner, or as may otherwise be required by the Supplemental General Conditions.

Kevin Goetz

Digitally signed by Kevin Goetz
DN: CN=Kevin Goetz, OU=Users,
OU=Long Beach, OU=Civil
Infrastructure, OU=Districts,
DC=PCLINC, DC=Network, DC=ads
Date: 2023.11.14 20:49:04 -0800

Kevin Goetz

11/14/23

Requested By (Contractor)

(Print Name)

Date



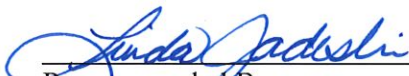
Paul Hermann

11/15/23

Recommended By
(Resident Project Representative)

(Print Name)

Date



Linda Jadeski

11/15/23
Date

Recommended By
(Director of Engineering)

(Print Name)

Date

Recommended By
(General Manager)

John Thiel

(Print Name)

Date

Accepted By (Owner)

(Print Name)

Date

ITEM 1

PCL Construction, Inc.
3900 Kilroy Airport Way, Ste 110, Long Beach, CA 90806

CHANGE ORDER PROPOSAL

PROJECT: Oliver P. Roemer WFF 2021 Expansion

PCO # TBD
DATE: 11/13/23
ESTIMATOR: KG

DESCRIPTION:

New UVT Descope

DIRECT ESTIMATE

| | | | |
|-----------------|--|-----------|-----------------|
| LABOR | | \$ | - |
| EQUIPMENT | | \$ | - |
| MATERIALS | | \$ | (14,810) |
| SUBCONTRACTOR | | \$ | - |
| SUBTOTAL | | \$ | (14,810) |

DIRECT MARKUP

| | | | |
|------------------------|----|-----------|----------|
| LABOR | | \$ | - |
| EQUIPMENT | | \$ | - |
| MATERIALS | 5% | \$ | - |
| SUBCONTRACTOR | | \$ | - |
| SUBTOTAL MARKUP | | \$ | - |

| | | | |
|------------------------------------|--|-----------|-----------------|
| SUBTOTAL WITH DIRECT MARKUP | | \$ | (14,810) |
|------------------------------------|--|-----------|-----------------|

TOTAL ADDITIONAL WORK \$ (14,810)

GRAND TOTAL THIS CHANGE \$ (14,810)



CONSTRUCTION

October 17, 2023

Paul Hermann
Water Market Leader
GHD
320 Goddard Way, Suite 200
Irvine, CA 92618

Linda Jadeski
Director of Engineering
West Valley Water District
855 W. Base Line P.O. Box 920
Rialto, CA 92377

Attn: Paul Hermann and Linda Jadeski

RE: Request for Change for Descope of new UV Transmittance for Oliver P Roemer Water Filtration Facility Upgrade and Expansion Project

Mr. Hermann and Mrs. Jadeski,

Please accept this correspondence as a Change request initiated by West Valley Water District regarding the price impacts associated with the descope of the new UVT (UV Transmittance) for the new UV reactors, which was originally part of PCL's scope of supply. The total pricing excludes installation, or any associated materials/equipment associated with the installation of the equipment.

Sincerely,

Kevin Goetz
Project Manager
kgoetz@pcl.com

PCL CONSTRUCTION INC.
3900 Kilroy Airport Way, Suite 110
Long Beach, CA 90806
Telephone: (858) 657-3400 ♦ Website: www.pcl.com

Kevin Goetz

From: Kevin Goetz
Sent: Tuesday, October 17, 2023 12:15 PM
To: Kevin Goetz
Subject: FW: West Valley Water District - Trojan PO

From: Karahalios, Gus <gkarahalios@trojantechnologies.com>
Sent: Thursday, June 1, 2023 10:12 AM
To: Richard Aguilar <RAguilar@pcl.com>
Cc: Kevin Goetz <KGoetz@pcl.com>
Subject: RE: West Valley Water District - Trojan PO

Hi Richard,
The price for the Optiview is \$14,810 usd.

If you can send me a negative change order I can then proceed to process internally to have it removed from the project scope.

Gus Karahalios

ITEM 2



CONSTRUCTION

October 4, 2023

Paul Hermann
Water Market Leader
GHD
320 Goddard Way, Suite 200
Irvine, CA 92618

Linda Jadeski
Director of Engineering
West Valley Water District
855 W. Base Line P.O. Box 920
Rialto, CA 92377

Attn: Paul Hermann and Linda Jadeski

RE: Structural Redesign Impacts – Oliver P Roemer Water Filtration Facility Upgrade and Expansion Project – Request for Change

Mr. Hermann and Ms. Jadeski,

Please accept the attached package as a Change Request due to the cost impacts related to the structural redesign for the Oliver P Roemer Water Filtration Upgrades and Expansion Project. The structural redesign revised the original design from using Risk Category 2 to Risk Category 3, in order to adhere to code requirements.

Below is a summary of the main impacts as a result of the redesign:

➤ **New Filter Building 2**

- 1) The reinforcement of thickened perimeter footing is increased from (6)#7 T&B to (8)#7 T&B (longitudinal). No changes on the foundation size (thickness and width).
- 2) Impacts to the building: The Risk Category update significantly increased the loads to the structure and adds additional design and fabrication consideration to the building. For instance, the weight of the building increased approximately 15%.

➤ **New Effluent Pump Station 2**

- 1) Excavation got 4" deeper
- 2) The foundation was thickened by 4"
- 3) Additional formwork(material and labor), concrete (material and labor) and concrete pumping
- 4) #7 continuous chord reinforcement around the perimeter was upsized to #8

PCL CONSTRUCTION INC.

3750 Schaufele Ave, Suite 270
Long Beach, CA 90808
Telephone: (858) 657-3400 ♦ Website: www.pcl.com



CONSTRUCTION

➤ **Retaining Wall**

- 1) The retaining wall (shored portion) wall thickness was increased from 8" to 10"
- 2) The retaining wall (non-shored portion/section C) wall thickness was increased from 8" to 10"
- 3) Foundation for section B (12" thick wall section) was enlarged from 11' wide to 12' wide
- 4) Foundation for section C (12" thick wall section) was enlarged from 5'-8" wide to 6' wide
- 5) #5 vertical reinforcement was revised from 8" O.C. to 10" O.C.

➤ **Operation Building:**

- 1) Increase in seismic loads specified in truss schedule (axial and shear)
- 2) Increase in wall vertical reinforcement for greater wall out-of-plane loads
 - a. GL 1 increased to #9@8" from #8@8"
 - b. GL B and E increased to #5@8" from #5@16
 - c. GL 3 increased to #5@8 from #5@16
- 3) Increase in roof sheathing size to 23/32" (from 19/32") thick sheathing over entire roof to handle higher loads into the diaphragm (including wall anchorage loads).
- 4) Decrease in spacing of shear wall fasteners from 3" to 2" at panel edges.
- 5) Upsized (thicker Gauge Studs) box beam over the windows at GL 1

➤ **General Impacts**

- 1) Stantec redesigning efforts
- 2) PCL's engineering time

The impacts above were determined based on the current design level. Furthermore, since equipment anchorage calculations to be supplied by vendors are still not completed, its potential impacts are unknown at this time. If additional revisions are required in the future due to different site conditions, design revisions, and/or impacts to the overall equipment anchorage system, PCL reserves the right to request an adjustment to the contract price if additional cost impacts are incurred.

Sincerely,

Kevin Goetz
Project Manager
kgoetz@pcl.com

PCL CONSTRUCTION INC.
3750 Schauffele Ave, Suite 270
Long Beach, CA 90808
Telephone: (858) 657-3400 ♦ Website: www.pcl.com

Kevin Goetz

From: Paul Hermann <Paul.Hermann@ghd.com>
Sent: Wednesday, July 12, 2023 2:16 PM
To: Kevin Goetz
Cc: Linda Jadeski; Jamal Awad; Shamia Salih
Subject: Risk Category & City approvals

[External Email]

Kevin,

The District would like to clarify that all design activities are to adhere to code requirements. As such, as the Stantec team has indicated, Risk Category 3 is required by code. Accordingly, the District requires the PCL / Stantec team to be code compliant. Understanding that the previous advice was to build to Risk Category 2, please be specific in documenting any changes.

Further, the District would like to confirm that per Government Code 53000, the District is not required to seek Building Permit approvals from the City of Rialto, for this project.

Let me know if you have any questions.

Regards
Paul

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PCL Construction, Inc.
3750 Schauffele Ave., Suite 270, Long Beach, CA 90808

CHANGE ORDER PROPOSAL

PROJECT: Oliver P. Roemer WFF 2021 Expansion

PCO # TBD
DATE: 11/1/23
ESTIMATOR: KG

DESCRIPTION:

DIRECT ESTIMATE

| | | | |
|-----------------|--|-----------|----------------|
| LABOR | | \$ | 8,821 |
| EQUIPMENT | | \$ | 357 |
| MATERIALS | | \$ | 4,255 |
| SUBCONTRACTOR | | \$ | 152,865 |
| SUBTOTAL | | \$ | 166,298 |

DIRECT MARKUP

| | | | |
|------------------------|-----|-----------|---------------|
| LABOR | 25% | \$ | 2,205 |
| EQUIPMENT | 20% | \$ | 71 |
| MATERIALS | 15% | \$ | 638 |
| SUBCONTRACTOR | 5% | \$ | 7,643 |
| SUBTOTAL MARKUP | | \$ | 10,558 |

| | | | |
|------------------------------------|--|-----------|----------------|
| SUBTOTAL WITH DIRECT MARKUP | | \$ | 176,856 |
|------------------------------------|--|-----------|----------------|

TOTAL ADDITIONAL WORK \$ 176,856

GRAND TOTAL THIS CHANGE \$ 176,856

DATE 11/01/23

Structural Redesign from Risk Category II to Risk Category III

| DESCRIPTION | QTY | UNIT | EQUIP | | MANHOURS | | LABOR EXPENSE | | VENDOR SUPPLIED MATERIALS | | SUBCONTRACTOR | | TOTAL |
|---|------|------|----------|--------|----------|-------|---------------|-----------|---------------------------|-------|---------------|-----------|------------|
| | | | U.P. | TOTAL | MH/UNIT | TOTAL | U.P. | TOTAL | U.P. | TOTAL | U.P. | TOTAL | |
| | | | | | | | | | | | | | |
| LABOR | | | | | | | | | | | | | |
| Foreman - Excavate extra volume = 20 CY @ 0.024MNHRS/CY | 20.0 | CY | | | 0.02 | | \$ 83.28 | \$ 40 | | | | | \$ 40 |
| Laborer Group 4 - Excavate extra volume = 20 CY | 20.0 | CY | | | 0.02 | | \$ 80.84 | \$ 39 | | | | | \$ 39 |
| Equipment Op Group 8 - Excavate extra volume = 20 CY | 20.0 | CY | | | 0.02 | | \$ 102.22 | \$ 49 | | | | | \$ 49 |
| Carpenter - F/S additional formwork = 40SF @ 0.5 MNHRS/SF | 40.0 | SF | | | 0.50 | | \$ 85.44 | \$ 1,709 | | | | | \$ 1,709 |
| Foreman - Place additional concrete 16CY @ 0.667 | 16 | CY | | | 0.67 | | \$ 83.28 | \$ 500 | | | | | \$ 500 |
| Laborer Group 4 - Place additional concrete 16CY @ 0.667 | 16 | CY | | | 0.67 | | \$ 80.84 | \$ 485 | | | | | \$ 485 |
| Engineering Time 8HOURS PER WEEK (TOTAL OF 5 WEEKS) | 40 | HRS | | | | | \$ 150.00 | \$ 6,000 | | | | | \$ 6,000 |
| EQUIPMENT | | | | | | | | | | | | | |
| Backhoe CAT 416C w/ Backhoe 20 CY @ 0.024 MNHRS/CY = 0.5 HRS | 1 | HRS | \$ 60.33 | \$ 60 | | | | | | | | | \$ 60 |
| Foreman's Truck - Ford F-150 | 7 | HRS | \$ 42.39 | \$ 297 | | | | | | | | | \$ 297 |
| Vendor | | | | | | | | | | | | | |
| 3/4" Plywood \$2.48/SF | 40.0 | SF | | | | | \$ 2.48 | \$ 99 | | | | | \$ 99 |
| 2x4s - \$1.72/SF | 40.0 | SF | | | | | \$ 1.72 | \$ 69 | | | | | \$ 69 |
| Concrete 4500 PSI - additional 16CY | 1.0 | LS | | | | | \$ 3,532 | \$ 3,532 | | | | | \$ 3,532 |
| Increase in roof sheathing (Operations Building) | 1.0 | LS | | | | | \$ 555 | \$ 555 | | | | | \$ 555 |
| Subcontractor | | | | | | | | | | | | | |
| Additional Rebar - Quality Rebar (Operations Building, EPS2 and FB2) | 1.0 | LS | | | | | | | | | \$ 15,753 | \$ 15,753 | \$ 15,753 |
| Additional Shotcrete - Condon & Johnson (Retaining Wall) | 1.0 | LS | | | | | | | | | \$ 5,000 | \$ 5,000 | \$ 5,000 |
| Additional Concrete Pumped - JLS Concrete Pumping (EPS2) | 1.0 | LS | | | | | | | | | \$ 580.14 | \$ 580 | \$ 580 |
| Impacts on Pre-engineered Building - All American (FB2) | 1.0 | LS | | | | | | | | | \$ 71,197 | \$ 71,197 | \$ 71,197 |
| Structural Redesign - Stantec (All) | 1.0 | LS | | | | | | | | | \$ 57,135 | \$ 57,135 | \$ 57,135 |
| Additional anchors and steel for the beam anchoring. (Operations Building | 1.0 | LS | | | | | | | | | \$ 2,500 | \$ 2,500 | \$ 2,500 |
| Upsized (thicker Gauge Studs) box beam over the windows at GL 1 | 1.0 | LS | | | | | | | | | \$ 700 | \$ 700 | \$ 700 |
| TOTAL DIRECT COST | | | | | | | | \$ 8,821 | | | | | \$ 8,821 |
| MARKUPS | | | | | | | | | | | | | |
| EQUIPMENT | 20% | | | | | | | | | | | | |
| OTHER ITEMS | 5% | | | | | | | | | | | | |
| LABOR | 25% | | | | | | | \$ 2,205 | | | | | \$ 2,205 |
| MATERIALS | 15% | | | | | | | | | | | | \$ 638 |
| SUBCONTRACTS | 5% | | | | | | | | | | | | \$ 7,643 |
| SUBTOTALS WITH MARKUP | | | | | | | | \$ 11,027 | | | | | \$ 11,027 |
| | | | | | | | | | | | | | \$ 4,893 |
| | | | | | | | | | | | | | \$ 160,508 |
| | | | | | | | | | | | | | \$ 176,856 |
| Notes: | | | | | | | | | | | | | |

IMPACTS TO FILTER BUILDING #2 SLAB

GENERAL SHEET NOTES

1. SEE DRAWINGS S-201 FOR NOTES.



Stantec
3001 C Street, Suite 1000
Sacramento, California 95816
Tel: +1 (916) 664-6343
www.stantec.com

Consultant

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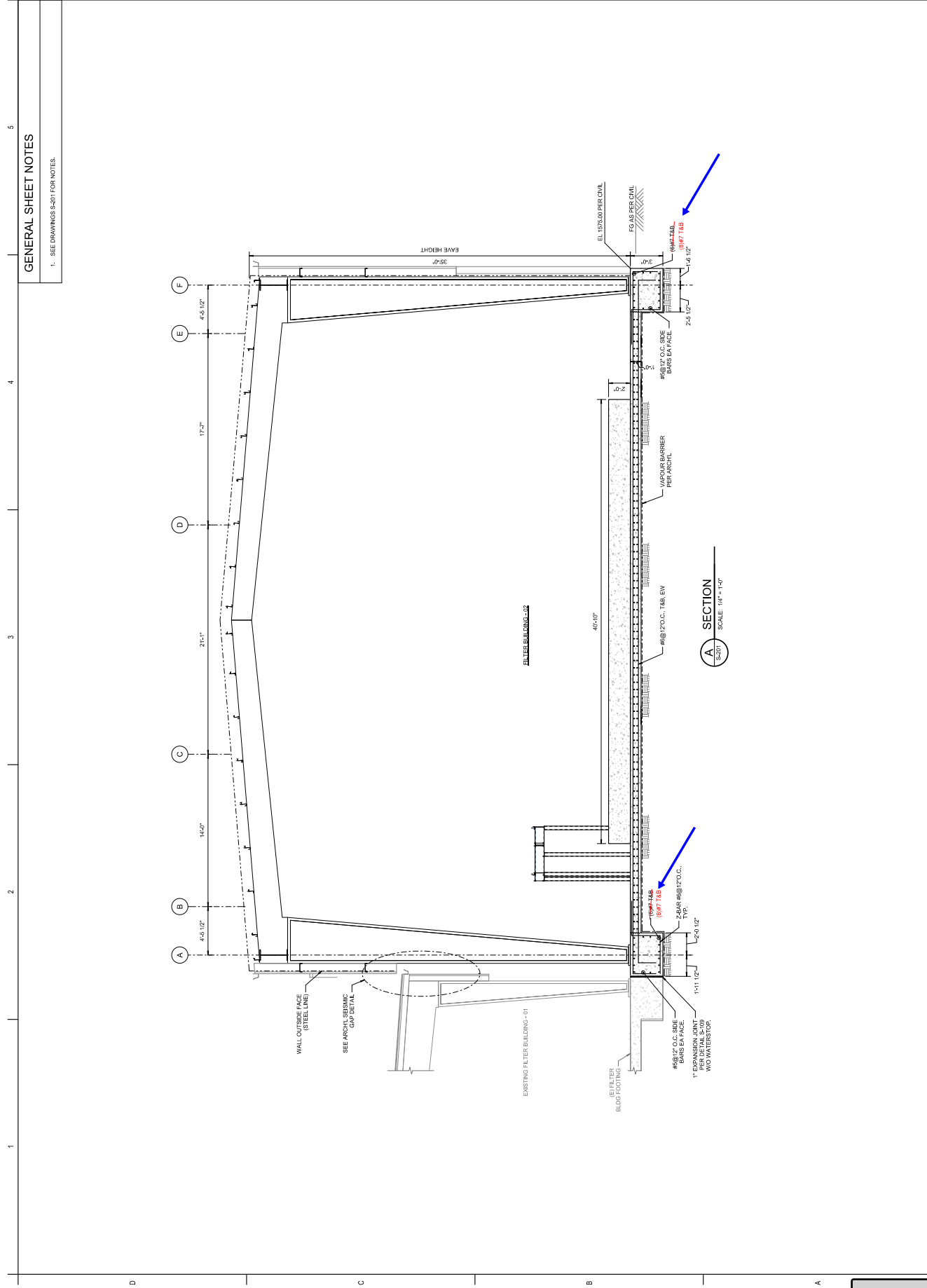
| Permit/Spec | Issued | By | App'd |
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**PRELIMINARY
NOT FOR
CONSTRUCTION**
Not for permit, purchase order or other official purposes. This document has not been reviewed for compliance with applicable laws and regulations. It is provided for informational purposes only.

Client/Project: **Remer WFF Expansion**
Rialto, California
Project No.: 184433.1687
Scale: 1/4" = 1'-0"
Date: 08/23/2018
Title: **SECTION**

Revision: Sheet: **S-204**
Drawing No.:

3.8.a

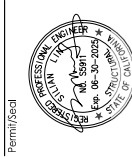


A SECTION
SCALE: 1/4" = 1'-0"

IMPACTS TO RETAINING WALL

| Revision | By | App'd | YYYY-MM-DD |
|----------|----|-------|------------|
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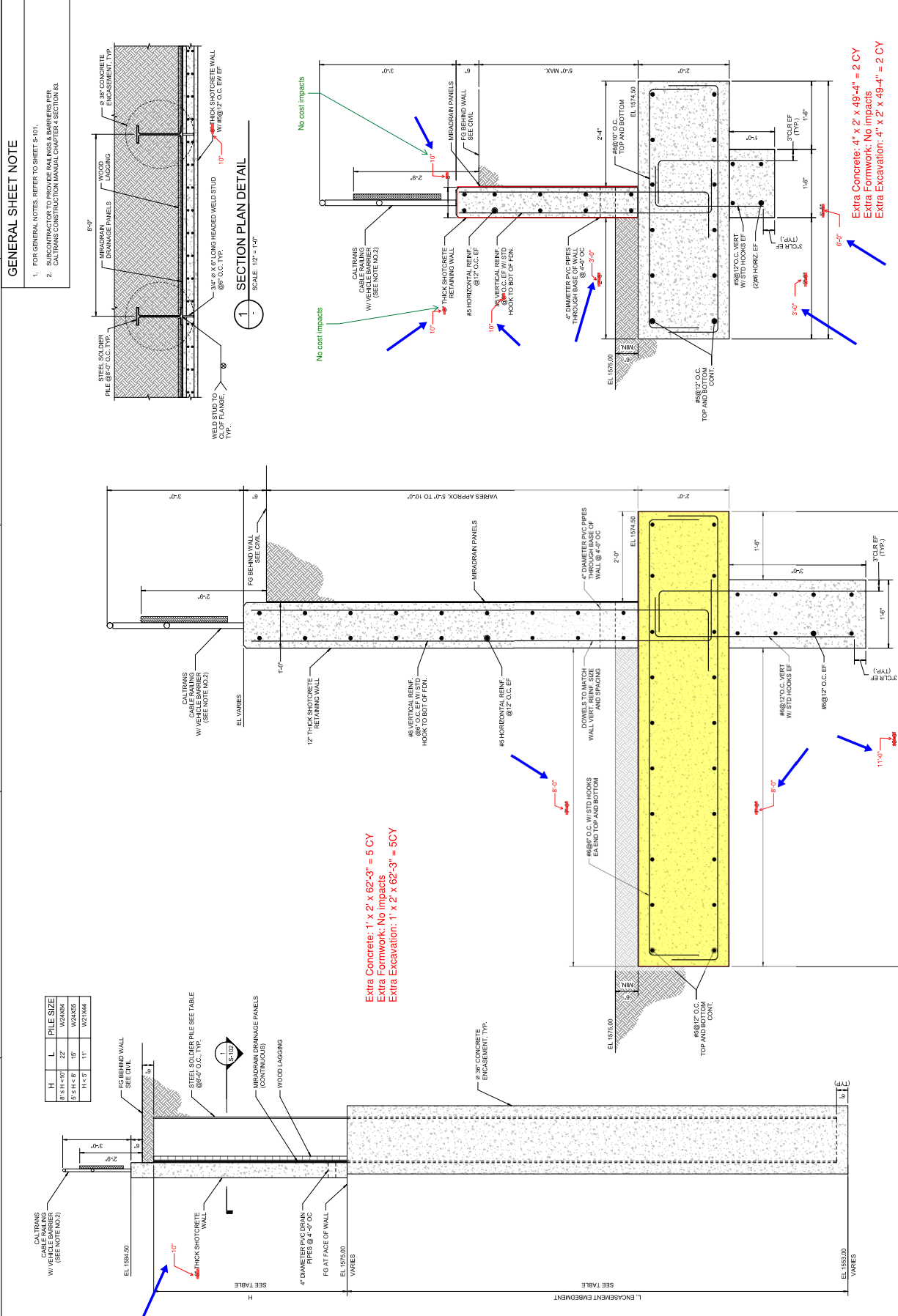


Client/Project: Remer WFF Expansion
 Project: Remer WFF Expansion
 Project No.: 184031487
 Scale: As Indicated
 Date: 02/15/2018
 Title: RETAINING WALL SECTIONS

Revision: 95 of 93
 Drawing No.: S-101
 Sheet: 95 of 93

S-102

3.8.a





Consultant

| Issue | Date | By | App'd | Y/M/D |
|-------|----------|----|-------|----------|
| 1 | 10/20/23 | MM | MM | 10/20/23 |
| 2 | 11/01/23 | MM | MM | 11/01/23 |
| 3 | 11/01/23 | MM | MM | 11/01/23 |
| 4 | 11/01/23 | MM | MM | 11/01/23 |
| 5 | 11/01/23 | MM | MM | 11/01/23 |
| 6 | 11/01/23 | MM | MM | 11/01/23 |
| 7 | 11/01/23 | MM | MM | 11/01/23 |
| 8 | 11/01/23 | MM | MM | 11/01/23 |
| 9 | 11/01/23 | MM | MM | 11/01/23 |
| 10 | 11/01/23 | MM | MM | 11/01/23 |

| Issue | Date | By | App'd | Y/M/D |
|-------|----------|----|-------|----------|
| 1 | 10/20/23 | MM | MM | 10/20/23 |
| 2 | 11/01/23 | MM | MM | 11/01/23 |
| 3 | 11/01/23 | MM | MM | 11/01/23 |
| 4 | 11/01/23 | MM | MM | 11/01/23 |
| 5 | 11/01/23 | MM | MM | 11/01/23 |
| 6 | 11/01/23 | MM | MM | 11/01/23 |
| 7 | 11/01/23 | MM | MM | 11/01/23 |
| 8 | 11/01/23 | MM | MM | 11/01/23 |
| 9 | 11/01/23 | MM | MM | 11/01/23 |
| 10 | 11/01/23 | MM | MM | 11/01/23 |

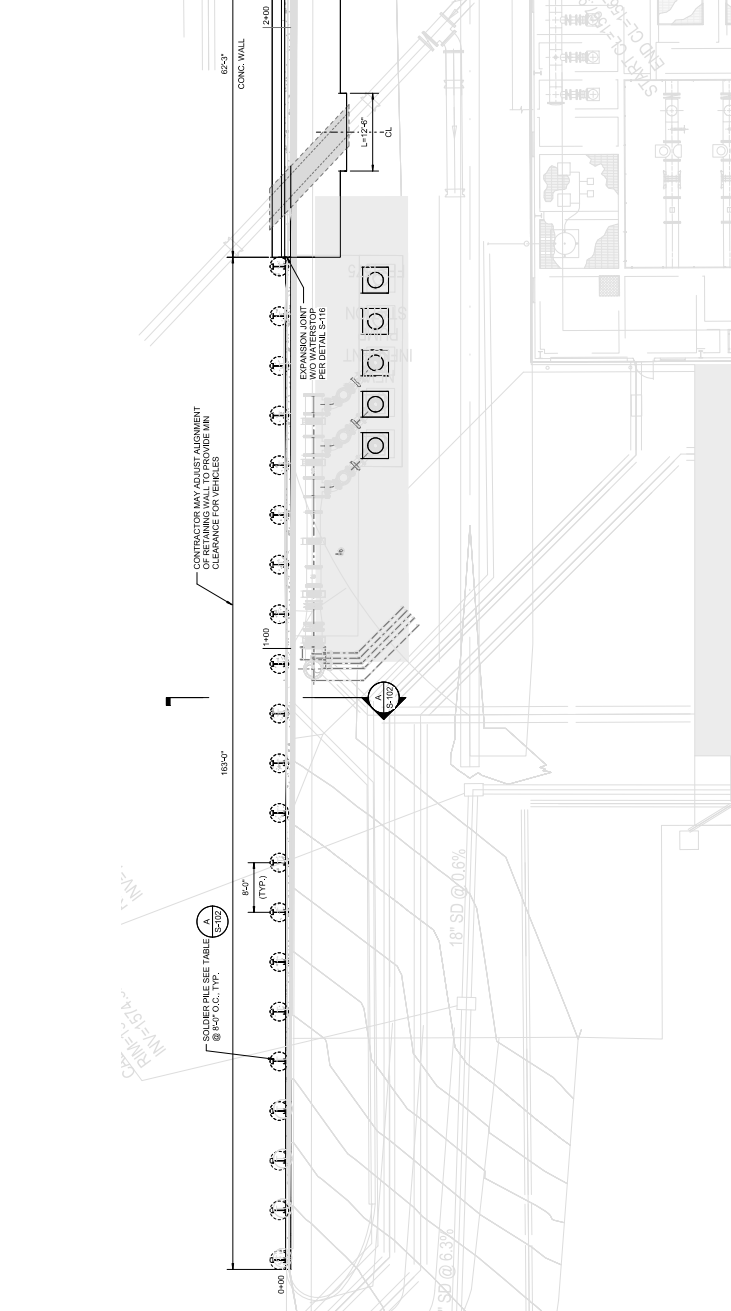
Permitted



Client/Project: **Remer WFF Expansion**
 Project: **Remer WFF Expansion**
 Project No.: **184031487**
 Date: **10/20/23**
 Scale: **1" = 10'-0"**
 Title: **RETAINING WALL PLAN AND PROFILE**

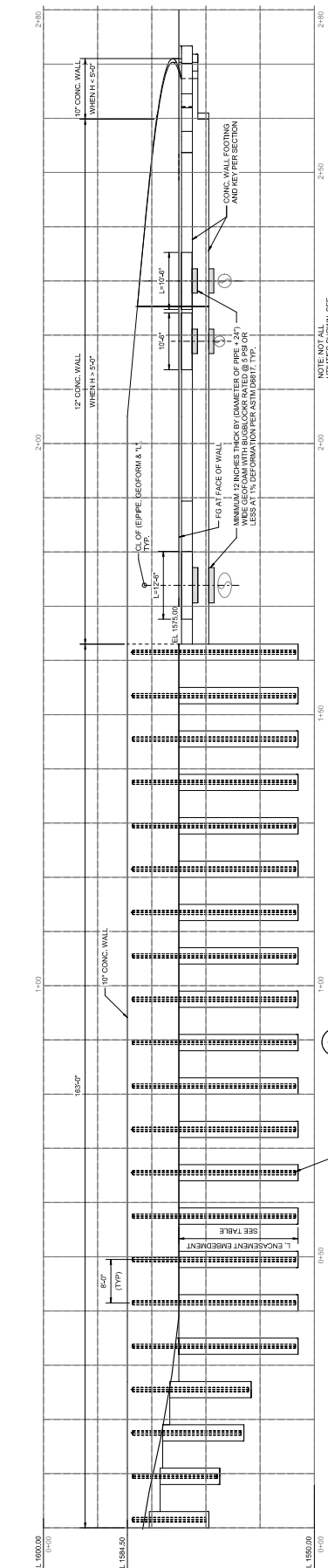
Revision: **Sheet: 94 of 293**
 Drawing No.: **S-101**

- GENERAL SHEET NOTE**
- CONTRACTOR SHALL COORDINATE WITH CIVIL DRAWING AND VERIFY ALL THE DIMENSIONS AND ELEVATIONS.
 - SEE SPECIFICATION 31.10.06 AND GEOTECHNICAL REPORT FOR EARTHWORK, EXCAVATION, SUBGRADE PREPARATION AND BACK FILL.
 - RETAINING WALL DRAINAGE SHALL BE PROVIDED PER GEOTECHNICAL REPORT RECOMMENDATIONS. CIVIL DRAWINGS AND SECTION DETAILS ON S-102.
 - SEE SPECIFICATION 03.37.03 FOR ADDITIONAL SHOTCRETE REQUIREMENTS AND SPECIFICATION 31.02.10 FOR ADDITIONAL STEEL PILE REQUIREMENTS.



WALL PLAN
SCALE: 1" = 10'-0"

NOTE: GUARDRAIL NOT SHOWN FOR CLARITY



WALL PROFILE
SCALE: 1" = 10'-0"

NOTE: GUARDRAIL NOT SHOWN FOR CLARITY

IMPACTS TO EFFLUENT PUMP STATION

| Issued | By | App'd | Revision | By | App'd |
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| 1 | REDAK | REDAK | FOR CONSTRUCTION | | |
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Permit/Seal



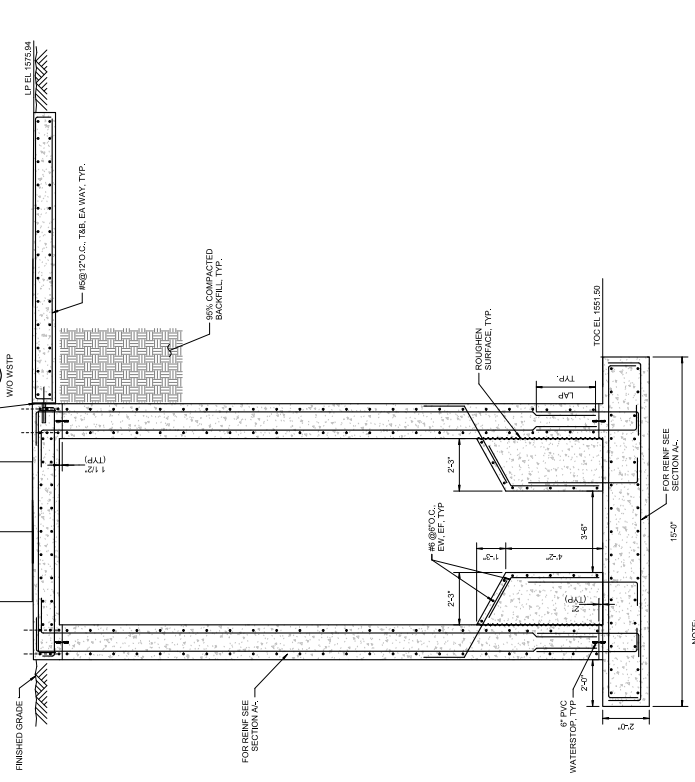
Client/Project: **Remerf WFF Expansion**
 Project No.: 184031487
 Project: **Remerf WFF Expansion**
 Location: **Rialto, California**

Scale: AS BIDDING
 Date: 02/15/18
 Status: PTT/ALTD

Title: **EFFLUENT PUMP STATION SECTIONS AND DETAILS**
 Revision: **Sheet: 110 of 293**
 Drawing No.: **S-402**

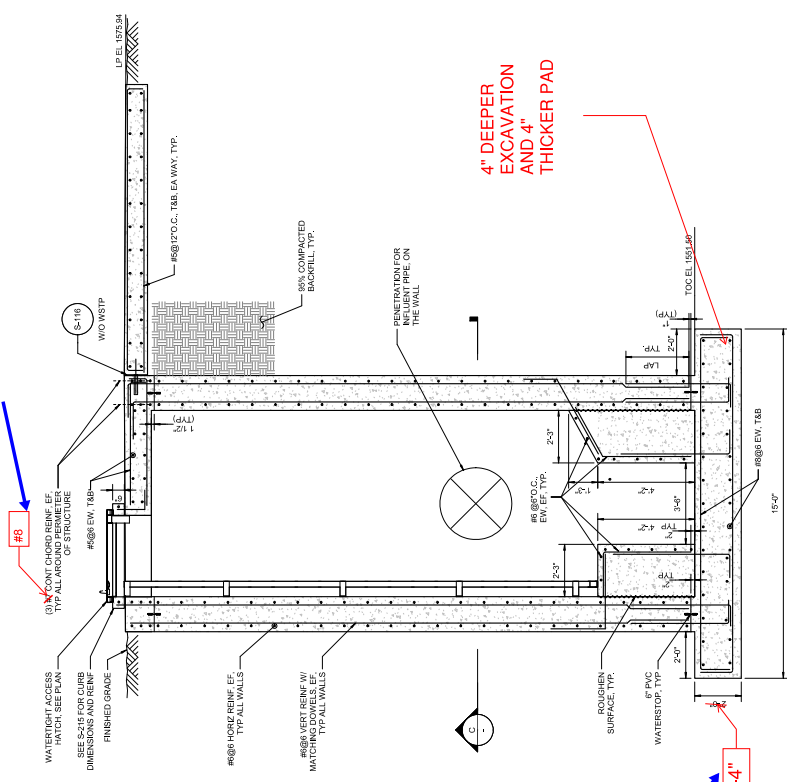
GENERAL SHEET NOTES

- FOR GENERAL NOTES, REFER TO SHEET S-401.
- SEE SPECIFICATION 31.05 AND GEOTECHNICAL REPORT FOR EARTHWORK. STRUCTURE EXCAVATION, SUB-BASE AND BACKFILL WITH 85% COMPACTION.



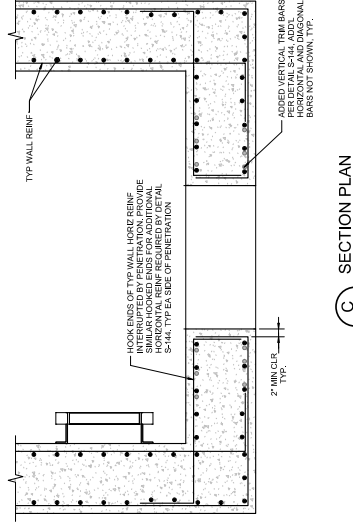
NOTE:
 1. SEE SECTION A-A FOR INFORMATION NOT SHOWN.

(B) SECTION A-A
 SCALE: 3/8" = 1'-0"



4" DEEPER EXCAVATION AND 4" THICKER PAD

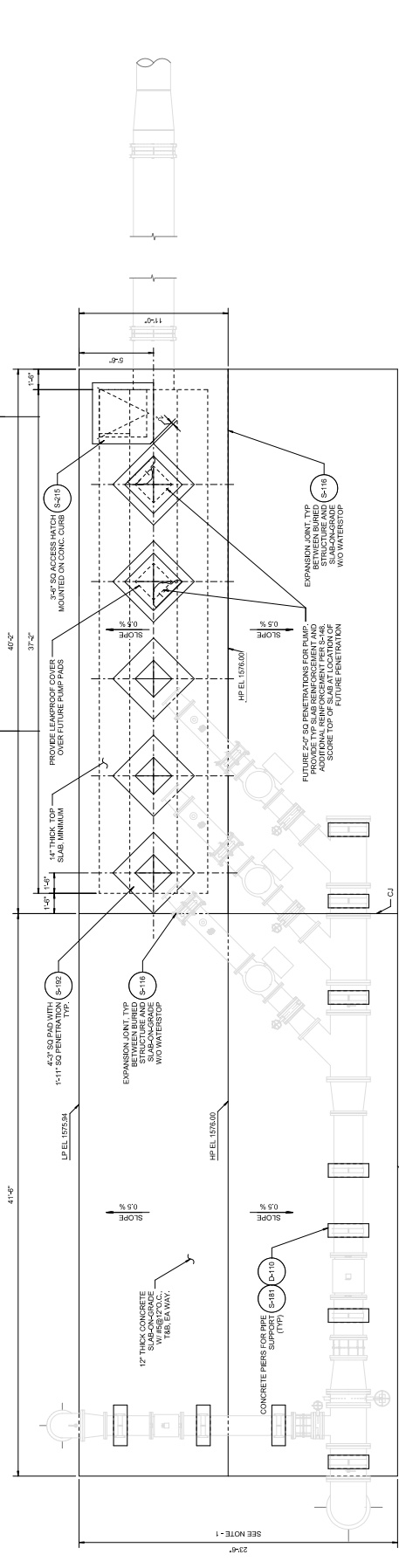
(A) SECTION B-B
 SCALE: 3/8" = 1'-0"



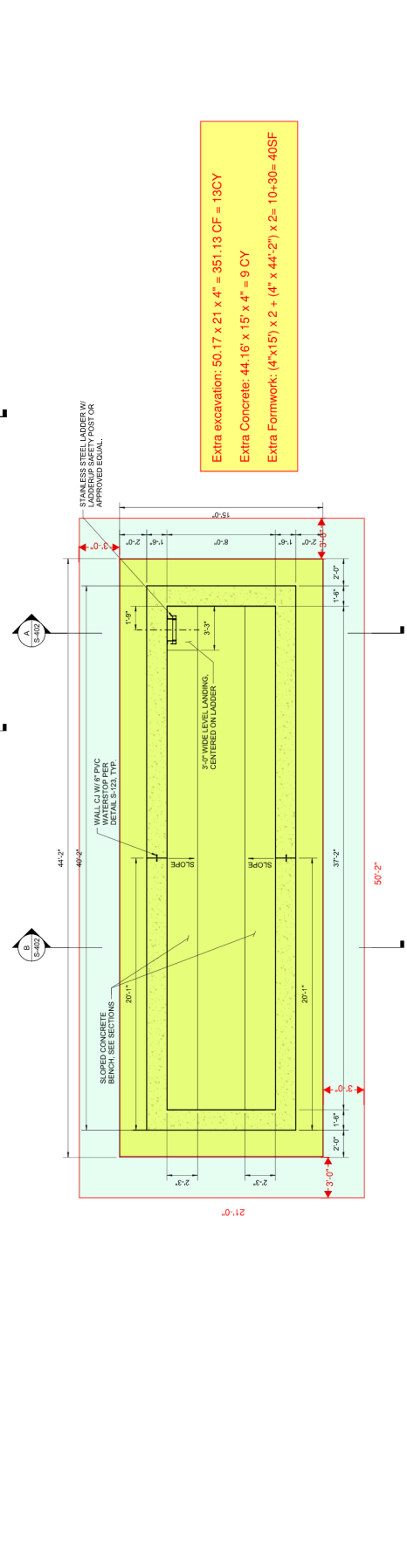
(C) SECTION PLAN
 SCALE: 3/8" = 1'-0"

GENERAL SHEET NOTES

- COORDINATE SUB-GRADE DIMENSIONS WITH FIELD-VERIFIED PIPE AND PRE-SUPPORT LOCATIONS AND FINALIZED ANCHORAGE DESIGN.
- CONTRACTOR TO CONFIRM AND COORDINATE SIZE AND LOCATION OF EQUIPMENT AND PIPING WITH CIVIL AND MECHANICAL DRAWINGS.
- REFER TO SPECIFICATION SECTION 31.00 AND GEOTECHNICAL INVESTIGATION REPORT FOR SUBGRADE REQUIREMENTS.
- SUB-GRADE DIMENSIONS SHALL BE DESIGNED BY EQUIPMENT MANUFACTURER PER SPECIFICATION SECTION 01.33.11.



TOP - PLAN
SCALE: 1/4" = 1'-0"



BOTTOM - PLAN
SCALE: 1/4" = 1'-0"

Extra excavation: $50.17 \times 21 \times 4' = 351.13 \text{ CF} = 13 \text{ CY}$
 Extra Concrete: $44.16 \times 15 \times 4' = 9 \text{ CY}$
 Extra Formwork: $(4' \times 15') \times 2 + (4' \times 44'-2'') \times 2 = 10+30 = 40 \text{ SF}$

Storage
 3000 C Street, Suite 1000
 Sacramento, California 95816
 Tel: +1 916 804 4243
 Fax: +1 916 804 4243
 www.stantec.com
 10/23/2024 10:58:00 AM
 The information contained on this drawing is the property of Stantec. It is to be used only for the project and location specified. It is not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written consent of Stantec.

| Issue | By | App'd | Rev | Date |
|----------------------------|----|-------|-----|----------|
| 1. ISSUED FOR CONSTRUCTION | MM | MM | 1 | 10/23/24 |
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Permit/Seal



Client/Project: Remer WYF Expansion
 Project No.: 184031487
 Date: 10/23/24
 Scale: 1/4" = 1'-0"
 Title: EFFLUENT PUMP STATION TOP AND BOTTOM PLANS
 Revision: Sheet: 109 of 293
 Drawing No.: S-401

PRODUCTION RATES USED FOR ESTIMATING LABOR COSTS

| 1.01 | Sitework / Excavation | | 1.00 |
|---------------------------|-----------------------|-------|------|
| EPS - Excavation | CY | | |
| EPS | | | |
| Grade Foreman | CY | 0.024 | |
| 2. Earthwork - Labor | CY | 0.024 | |
| Ex Cat 336 (36mt) | CY | 0.024 | |
| Ldr 966G RT w/GP-4.5cy -O | CY | 0.024 | |
| | | | 1.00 |

| | | | |
|------------------------|----|-------|--|
| 1. Inflow Pump Station | SF | | |
| 1. Inflow Pump Station | SF | 0.500 | |
| Lower SOG (1 Pour) | | | |

| | | | |
|--------------------------|----|------|--|
| Edge Materials | SF | | |
| Form Ply 3/4" | SF | 2.48 | |
| Dimen. Lumber (2x4-2x10) | BF | 1.72 | |

| | | | |
|------------------------|----|-------|--|
| 1. Inflow Pump Station | CY | | |
| 1. Inflow Pump Station | CY | 0.667 | |
| Lower SOG (1 Pour) | | | |

VENDOR/SUBCONTRACTORS QUOTES

QUALITY REBAR, INC.

EPS AND RETAINING WALL

P.O. Box 501877
San Diego, CA
92150-1877
*WOSB-WOMAN OWNED
SMALL BUSINESS ENTERPRISE

Change Order Request

23092A — Oliver Roemer
Water Filtration Fac. Ph.1-PCL

COR Subject: Structural changes - new drawings dated 6-26-23 - Cost for retaining wall footing length revised , added expansion joints, wall & footing reinforcing revised

To Edy Ortega
PCL Construction Services, Inc.

COR Number: 23092A-04
COR Revision Number: 0

COR Date: 9/20/2023
Price / Do Not
Work Type: Proceed

Return To Julia Vaughn
Quality Rebar, Inc.
rfis@qualityrebarinc.com

Days Valid: 30

RE

Structural changes - new drawings dated 6-26-23 - Cost for retaining wall footing length revised , added expansion joints, wall & footing reinforcing revised

Details

| Description | Cost / Rate | Qty / Hrs | Workers | Ext |
|-------------|-------------|---------------------------|---------|-----------|
| Detailing | \$60.00 | 4.00 <i>Hrs</i> | 1.00 | \$240.00 |
| Man Hours | \$96.00 | 32.00 <i>Hrs</i> | 1.00 | \$3072.00 |
| Material | \$0.80 | 4,212.00 <i>POUNDS</i> | - | \$3369.60 |

Breakout

Labor : \$3,312.00
Overhead and Profit @ 15%: \$496.80
Material : \$3,369.60
Sales Tax @ 7.75%: \$261.14
Overhead and Profit @ 15%: \$544.61
Total: \$7,984.00

Reservation of Rights

This COR does not include any amount for impacts such as interference, disruptions, rescheduling, changes in the sequence of work, delays and/or associated acceleration. We expressly reserve the right to submit our request for any of these items.

**-\$560 (not resulting from Redesign)
\$7,424**

Direction to proceed with work noted above will be interpreted as an acknowledgment and approval of said cost.

If work was already completed then cost is net 30 days and will be billed as such.

Signed By: 
Tim Pitner
Operations Manager

Dated: 9/20/2023

Kevin Goetz

From: RFIS <rfis@qualityrebarinc.com>
Sent: Tuesday, October 3, 2023 10:40 AM
To: Edy Ortega; Tim Pitner
Cc: Kevin Goetz; Aaron Harwood
Subject: Re: Roemer- Retaining wall footing extension/Ductbank Re-route

Edy,

The 1-0 pop out extensions at retaining wall footing make up roughly \$560 of our CO #04. They add 273#'s a couple of Man Hours and 1 hour detailing.

Thanks,

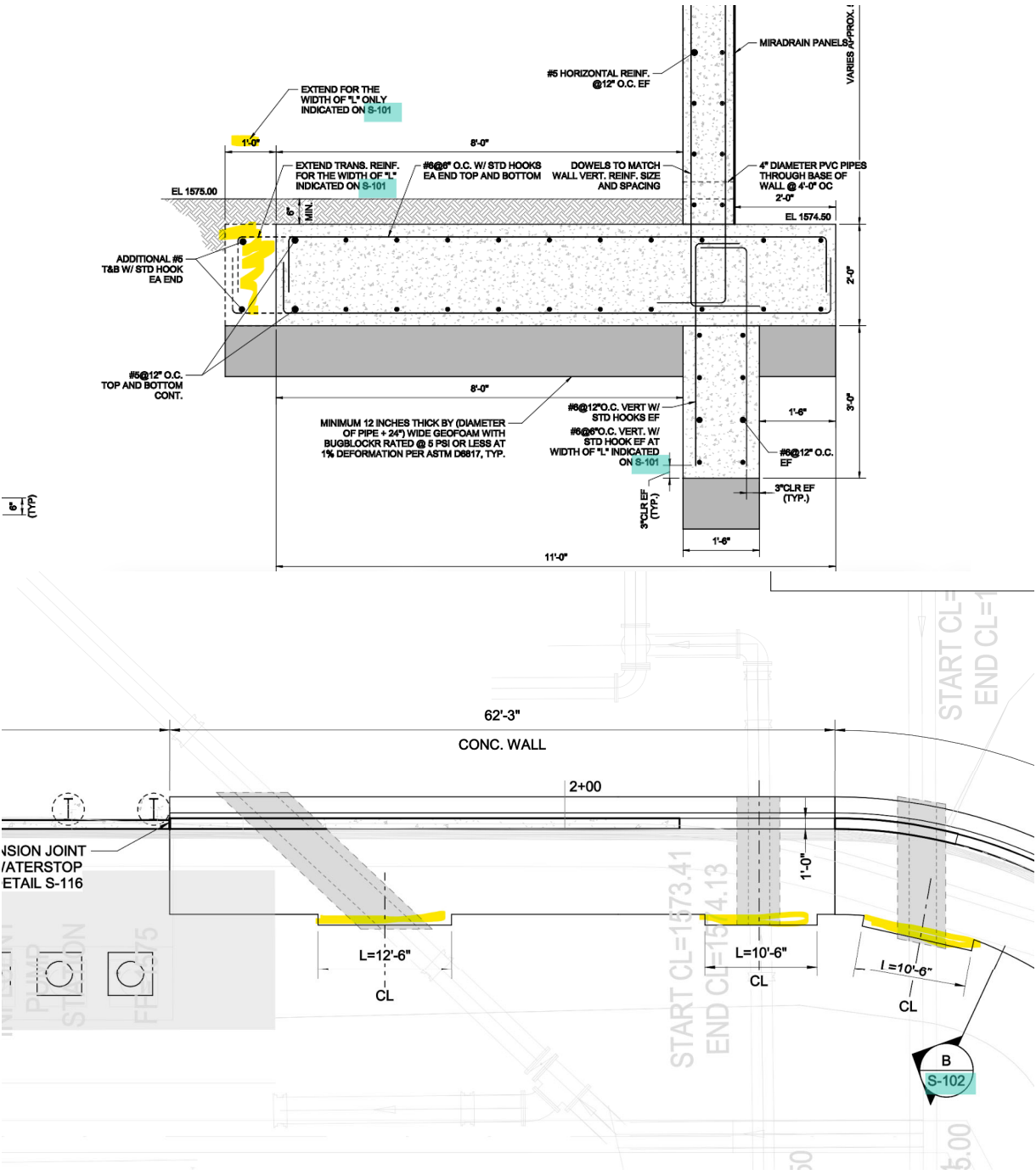
Julia Vaughn
Quality Rebar, Inc.
858-679-3934 ext. 112

From: Edy Ortega <EdyOrtega@pcl.com>
Sent: Monday, October 2, 2023 3:49:37 PM
To: RFIS; Tim Pitner
Cc: Kevin Goetz; Aaron Harwood
Subject: RE: Roemer- Retaining wall footing extension/Ductbank Re-route

[CAUTION] This message originated outside of the organization, Do not click links or open attachments if you do not recognize the sender and know the content is safe

Julia,

Understood the pricing was included in the \$7k change order you sent over. With that being said we are trying to understand how much was the pricing (\$) for the 1' extension of the footing x the "L". Please see snips below for area. Just provide us pricing for the 1' extension by its corresponding "L" we have marked out below.



Thanks,

Edy Ortega
Project Engineer

PCL Construction Inc.
3900 Kilroy Airport Way, Ste 110
Long Beach, CA 90806
M: (562) 681-2821
edyortega@pcl.com

www.pcl.com
TOGETHER WE BUILD SUCCESS

QUALITY REBAR, INC.

P.O. Box 501877
San Diego, CA
92150-1877

OPERATIONS BUILDING

***WOSB-WOMAN OWNED
SMALL BUSINESS ENTERPRISE**

Change Order Request

23092A — Oliver Roemer
Water Filtration Fac.
Ph.1-PCL

COR Subject: 60% design - multiple masonry vertical reinforcements for the operations building - GL 1 increased #9 @ 8" from #8 @ 8", GL B & E increased from #5 @ 8" from #5 @ 16", GL 3 increased #5 @ 8" from #5 @ 16".

To Edy Ortega
PCL Construction Services, Inc.

COR Number: 23092A-03
COR Revision Number: 0

COR Date: 9/15/2023

Return To Julia Vaughn
Quality Rebar, Inc.
rfis@qualityrebarinc.com

Price / Do Not
Work Type: Proceed
Days Valid: 30

RE

60% design - multiple masonry vertical reinforcements for the operations building - GL 1 increased #9 @ 8" from #8 @ 8", GL B & E increased from #5 @ 8" from #5 @ 16", GL 3 increased #5 @ 8" from #5 @ 16".

Details

| Description | Cost / Rate | Qty / Hrs | Workers | Ext |
|-------------|-------------|---------------------------|---------|-----------|
| Detailing | \$60.00 | 1.00 <i>Hrs</i> | 1.00 | \$60.00 |
| Man Hours | \$96.00 | 32.00 <i>Hrs</i> | 1.00 | \$3072.00 |
| Material | \$0.80 | 4,769.00 <i>POUNDS</i> | - | \$3815.20 |

Breakout

Labor : \$3,132.00
Overhead and Profit @ 15%: \$469.80
Material : \$3,815.20
Sales Tax @ 7.75%: \$295.68
Overhead and Profit @ 15%: \$616.63
Total: \$8,329.00

Reservation of Rights

This COR does not include any amount for impacts such as interference, disruptions, rescheduling, changes in the sequence of work, delays and/or associated acceleration. We expressly reserve the right to submit our request for any of these items.

Direction to proceed with work noted above will be interpreted as an acknowledgment and approval of said cost.

If work was already completed then cost is net 30 days and will be billed as such.

Signed By:



Tim Pitner
Operations Manager

Dated: 9/15/2023



July 31, 2023
(Via E-mail Only)

CJA-23043-SL-001

PCL Construction
1711 W. Greentree Dr. Suite 201
Tempe, AZ 94621

Attn: Kevin Goetz
KGoetz@pcl.com

RE: Oliver P. Roemer Water Filtration Facility Expansion
RCO#001 Wall Thickness Increase.

Kevin,

Please refer to the email from Wednesday 7/26 that structural changes have been made to the plans.

This change order covers the added costs for shotcrete and crew duration increase.

Please issue a change order for the amount of \$5,000.

If you have any questions, please do not hesitate to call.

Sincerely,
Condon-Johnson & Assoc., Inc.

Briton Williams
Project Engineer

480 Roland Way, Suite 200
Oakland, CA 94621
Tel: (510) 636-2100
Fax: (510) 568-9316

1100 Wilshire Boulevard, Suite 400
Los Angeles, CA 90017
Tel: (909) 390-0268
Fax: (909) 605-7629

9012 South 208th Street
Kent, WA 98031
Tel: (425) 988-2150
Fax: (425) 988-2151

3434 Grove Street
Lemon Grove, CA 91945
Tel: (858) 530-9165
Fax: (858) 530-9171

1239 NE 92nd Avenue
Portland, OR 97220
Tel: (503) 455-8550
Fax: (503) 647-1968

Re: WVWD ROEMER- Concrete Retaining Wall



Steve Jimenez <steve@boulderscape.com>

To Edy Ortega

Cc Kevin Goetz; Kevin Harlow

Reply

Reply All

Forward



Fri 7/21/2023 8:35 AM

General

[External Email]

Edy,

The small end wall switching to a 10" thickness from an 8" thickness will not affect our pricing.

Thanks,

Steve



Steve Jimenez

Senior V.P. Commercial Sales

Boulderscape, Inc.

1050 Calle Negocio

San Clemente, CA 92673

949.661.5087 office

704.438.9963 Direct Line

949.661.3397 fax

949.370.8952 mobile

steve@boulderscape.comwww.boulderscape.com [boulderscape.com]

"Installers of more than 12 million square feet of structural/architectural shotcrete nationwide"

ALL AMERICAN IRON WORKS

CHANGE ORDER

| | | | | |
|------------|-----------------------------------|--|---------------------|----------------------|
| TO: | pcl construction | | CO # | 1 |
| | 1711 w green tree drive suite 201 | | DATE | 7/24/2023 |
| | tempe | | PROJECT NAME | oliver p romer water |
| | az 85284 | | PROJECT # | 5403269 |

3010 n cedar ave rialto ca 92377

Change Order Title:

1. update scope to match current conditions nucor building materials change from category 2 to category 3

Impacts to the building: The Risk Category update significantly increased the loads to the structure and adds additional design and fabrication consideration to the building. For instance, the weight of the building went up about 15%.

see attached

| | | | |
|----------------------|-------------------|-----------|------------------|
| Cost Summary: | Material | \$ | 56,929.00 |
| | Shop Labor | | |
| | Field Labor | | |
| | tax and oh/profit | \$ | 14,267.83 |
| | Total | \$ | 71,196.83 |

PER THE PRIME

If you have any questions, feel free to contact me at (951) 830-2828.

Sincerely,

ALAN SRADER

ALL AMERICAN IRON WORKS

P.O.BOX 840 pmb 144

HELENDALE CA 92342

Attached Files:

cost increase from nucor



ROBERTSON'S

ROCK • BASE MATERIALS • SAND
READY MIX CONCRETE



3.8.a

800-834-7557

800-232-3695

March 9, 2023 - REVISED

| | | | | |
|--|--|----------------|--------------|----------------------|
| P C L CONSTRUCTION SVC'S INC. | | Acct. #: 70700 | Plant: 24 | Dir # BIDDING |
| Attn: EDY | | Mp Pg: 575D2 | C/Qt. 230309 | Agg./Qt. |
| E-mail: EDYORTEGA@PCL.COM | | Yards: 241 | Dodge #: NDF | Prevailing Wage: YES |
| Re: ROEMER PRJ. - 3010 CEDAR AVE., RIALTO | | | | |

| CONCRETE MIX DESIGN | DESCRIPTION | PRICE PER YARD |
|---------------------|-------------------|----------------|
| | <i>PER SPECS:</i> | |

EPS

Retaining Wall: assuming a +\$5/CY increase after 12/31/23

9CY x \$174.43/CY = \$1,569.87
 AB219 Fee= \$19.50 x 9Y=\$175.50
 Environmental Fee= \$70/load x 1 = \$70
 Tax @ 7.75%= \$140.69

7CY x \$179.43/CY = \$1,256.01
 AB219 Fee/load = 7CY x \$19.50=\$136.50
 Environmental Fee= \$70/load x 1 = \$70
 Tax @ 7.75%= \$113.34

Total: \$1,956.06

Total: \$1,575.85

Grand total: \$3,531.91

PART OF THE WORK TO BE COMPLETED AFTER 12/31/23

| | | |
|------|--|----------|
| GPC1 | 5000 P/PL .38 W/C W/ ADVA (Added on 8/11/23) | \$174.43 |
| | ** Shrinkage not indicated ** | |

Robertson's will not be responsible for delays due to NSF61 testing. There will not be NSF61 testing available for flyash. All other NSF61 testing can take 3-6 months and will only be started with a signed contract for this project. All charges for this service will be the responsibility of the Buyer. COST PER MIX MAY REACH \$20,000.00.

**** Please Note: For the mixes quoted above if the compressive age breaks, flexural age breaks, aggregate tests or any other data is not current enough & testing is required. The cost of the tests will be the responsibility of the buyer. ****

PREVAILING WAGE: For this job, a \$2,500.00 one-time fee will be billed and an additional \$19.50 per yard premium has been included to the prices above.

THE ABOVE PRICES INCLUDE ALL INCREASES AND ARE VALID UNTIL: 12/31/23.

**** Cement Powder & Fly-ash are currently experiencing a shortage and may experience supply interruptions. These interruptions could make this material unavailable for use in concrete at certain times. Please contact your sales representative should you have any questions. ****

ROBERTSON'S DIR #: 1000039563

**** CUSTOMER MUST NOTIFY ROBERTSON'S OF ANY JOB REQUIRING PREVAILING WAGES ADVERTISED ON OR AFTER JULY 1, 2016, IN ACCORDANCE WITH AB219. JOBS WITH 200 YARDS OR MORE WILL BE BILLED A \$2,500.00 ONE TIME FEE PER CONTRACT AND AN ADDITIONAL \$19.50 PER YARD PREMIUM. JOBS WITH LESS THAN 200 YARDS WILL BE BILLED AN ADDITIONAL \$28.50 PER YARD PREMIUM. ****

The purchaser shall ensure that Robertson's is provided copies of all reports of tests performed on concrete samples taken to determine compliance with specification requirements, please e-mail copies to qc@rrmca.com. Costs for testing, inspection and/or mix designs, when required, are the responsibility of the buyer. The above prices are net; discounts are included.

Environmental Fee: All concrete loads will be charged a fee of \$35.00 per load regardless of amount delivered.

Energy Surcharge: All concrete loads will be charged a fee of \$35.00 per load regardless of amount delivered.

Sales Tax: Sales Tax is not included, please add appropriate sales tax to above prices.

Standing Time: Four minutes per yard are allowed for each individual load for waiting and unloading at the jobsite. Additional time will be charged at a rate of \$2.00 per minute.

Short Loads: One short load will be allowed daily per order after TWO full loads have been delivered. Please refer to our current short load table for all other short load fees.

Saturday Rates: Add \$8.00 per cubic yard. **Sunday Rates:** Add \$15.00 per cubic yard with an additional \$2,000.00 plant opening fee.

Plant Opening/Truck Time Fee: A \$2,000 Plant Opening Fee + \$450/truck will be charged to any orders to be delivered beyond the normal business hours of 5:00 a.m. to 3:00 p.m., M-F. Please call for off-hour and holiday rates.

Night Pours: A 13-hour notice is required for all pours scheduled between 8pm - Midnight.

Delivery: There is no guarantee as to time or rate of delivery and there is no liability on the part of the seller for costs accrued by buyer due to delays.

Delivery Restrictions: Due to the distance from the plant to jobsite, certain areas are subject to delivery restrictions. Please call for availability.

Costs for testing, inspection and/or mix designs, when required, are the responsibility of the buyer.

Cancellations: Must be done 24-hours before scheduled delivery. Orders not cancelled within guidelines may be subject to a \$2,000.00 fee.

Testing Data: If the compressive age breaks, flexural age breaks, aggregate tests or any other data is not current enough & testing is required. The cost of the tests will be the responsibility of the buyer.

Temperature: Prices above do not include cost associated with chilling or heating to meet project temperature specifications.

200 S. Main St., Ste. 200 • Corona, CA 92882

P.O. Box 3600 • Corona, CA 92878-3600

(800) 834-7557 • Fax (951) 493-6462



Customer: PCL Construction
Address: 3750 Schaufele Ave. Long Beach Ca.
Contact: Edy Ortega
Contact Phone: 951-515-1230
Email: edyortega@pcl.com

Date: 2/17/2023
Project Name: WVWD Roemer Project
Jobsite Address: 3010 N. Cedar Ave. Rialto Ca.
Quotation Expires: **7/1/2023**

THESE ARE THE INDIVIDUAL MACHINE RATES. LABOR RATES ARE LISTED BELOW & MUST BE ADDED TO QUOTED AMOUNTS

16CYx \$2.35/CY= \$37.60
2HRs x \$90/HR = \$180
2HRs x \$164.85 (5% increase start July 1st) = \$329.70
Environmental Fee: 6% = 547.30 x 1.06 = \$580.14

40 Meter-125' Boom Pump: \$ 90.00 per hour with a (5) hour minimum, plus \$2.35 per cubic yard.

*****TELEBELTS*****

TB-110 (110') Telebelt: \$150.00 per hour with a (5) hour minimum, plus .. \$3.00 per cubic yard/ton.

| LABOR | STRAIGHT TIME | OVERTIME | DOUBLE TIME |
|-----------|---------------|----------|-------------|
| Operators | \$157.00 | \$221.00 | \$261.00 |
| Oilers | \$152.00 | \$208.00 | \$249.00 |

Conditions:

- ❖ The labor rates are in accordance with SCCA Local 12 Union Labor Agreement and will be billed accordingly, with a four (4) or eight (8) hour minimum on labor charges.
- ❖ Labor and equipment rates are charged for set-up and washout.
- ❖ Set-up time One (1) hour on all equipment. Washout time for all pumps is One (1) hour, minimum. Telebelt washout time is One and One Half (1-1/2) hours, minimum.
- ❖ Washout time starts when ALL perishable material is out of the boom or off the belts.
- ❖ All Labor, including travel time "portal to portal", will be billed at applicable labor rates. Overtime rates are charged between 4:00 PM and 3:00 AM & Saturday. Sundays, Holidays and after 12 consecutive hours on jobsite, are double time labor rates per SCCA Local 12 union agreements. Should an overriding IUOE Local 12 labor agreement apply to a project, labor will be billed according to the agreement in force for compliance.
- ❖ Oilers are required on 46 Meter boom pumps and larger, when the operator cannot see the pour from the pump or when safety is an issue.
- ❖ Two men are required on hard rock pours with over 200 feet of system.
- ❖ There will be a charge of \$1.00 per foot for system over 50 feet on boom pumps and over 200 feet on trailer pumps.
- ❖ The 4-yard hopper delivery & pickup, any system delivery and/or set-up and any pipe welding needed will be billed at applicable labor rates.
- ❖ Pours requiring a caisson jib section will be billed an additional \$75.00 daily rental fee plus a total of four hours' labor to install and remove the jib section.

- ❖ Contractor is required to provide a safe area for pump to set up.
- ❖ Contractor is required to provide a washout area that is environmentally acceptable to any and all appropriate government agencies.
- ❖ A \$375.00 fee will be added to all invoices on jobs requiring an off-site washout.
- ❖ Special city permits or clearances required for pumps and/or labor, not supplied by contractor, will be obtained by JLS at applicable fees or labor rates.
- ❖ Customers are advised that all afternoon pours are subject to delay from morning pours.
- ❖ Labor rates good until June 30th, 2023 & not to exceed 5% on July 1st, annually.
- ❖ A \$30.00 permit/compliance fee will be added to each invoice.
- ❖ A 6% fuel/environmental/CARB fee will be added to each invoice. There will be a 1% increase added for every \$.50 in excess of \$5.00 per Gal. baseline. Please refer to <https://www.ttnews.com/2022-doe-regional-diesel-fuel-prices>.
- ❖ Payment terms are Net 30.
- ❖ A 3% fee will be added to all credit card transactions.
- ❖ Cancellation Charges: 4-Hour Minimum on equipment and labor unless cancellation is received three (3) hours before scheduled arrival/on job time.
- ❖ JLS does not accept back charges. Concrete pumps are subject to occasional mechanical failures. If assured performance is required, stand-by pumps are offered at above quoted rates.
- ❖ Contractor is required to notify JLS of OCIP, CCIP, certified payroll and payment system requirements prior to arrival on site. JLS will not accept fees, fines or deducts for work performed prior to notice of requirements. Should lack of notice necessitate accelerated reporting, additional administrative fees will apply.

Please reply with your acceptance. If our services are scheduled through dispatch, we will treat this as your acceptance.

JLS Concrete Pumping

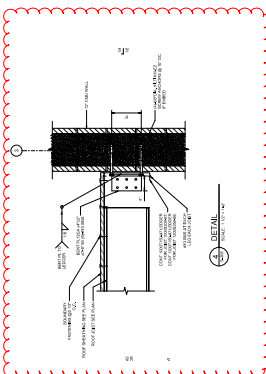
Accepted By:
Company name:

Wayne Caylor
JLS Sales/Service Rep.

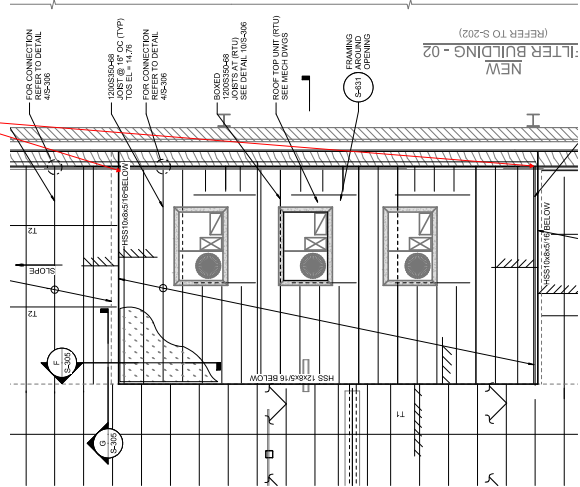
Customer's name
Title

Additional
anchors and
steel for the
beam
anchoring.

60% Drawings

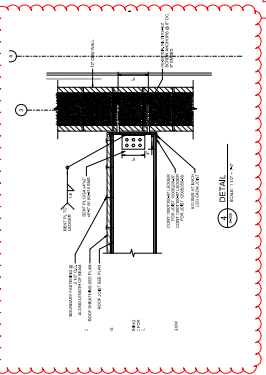


It was assumed the connection for the HSS 10x35x16 Beam would be similar to this detail

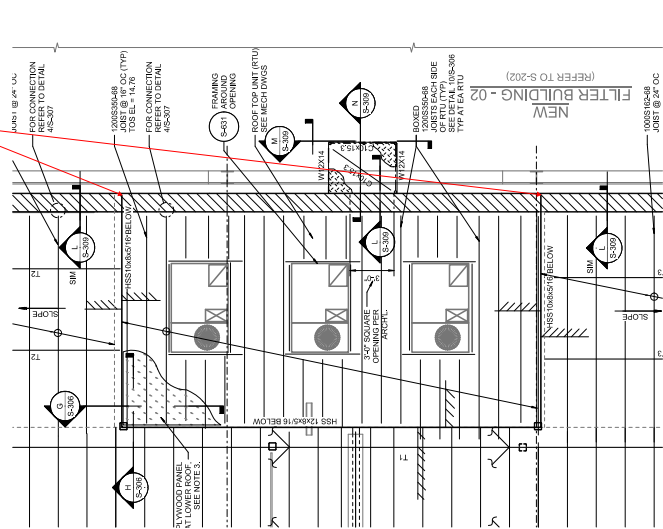


Early sets of drawings didn't have a connection Detail for this beam, and during the time our sub bid the supply and install, it was assumed that the connection would be similar to the framing joist connection above.

90% Drawings

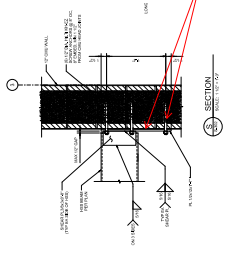


It was assumed the connection for the HSS 10x35x16 Beam would be similar to this detail

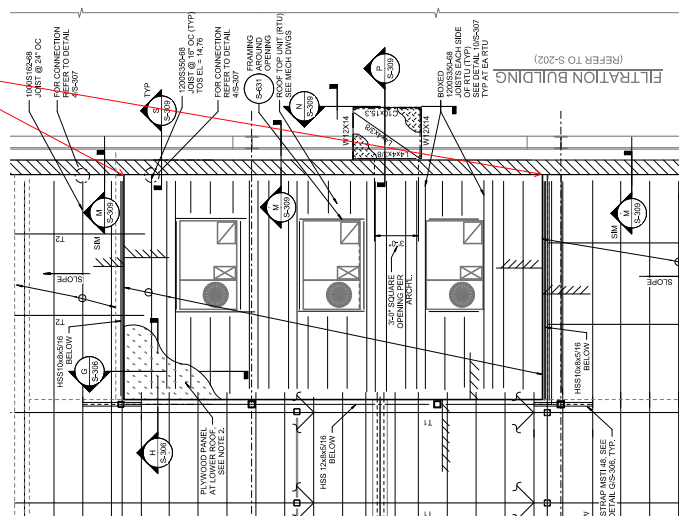


The 90% drawings still didn't have a connection Detail for this beam, and we still assumed the connection would be similar to the framing joist connection above.

100% Drawings



New Detail not in previous drawings prior to risk category. Steel for the base plate and more anchors than what was assumed for this location.



The 100% drawings provided a connection Detail for this beam, and there was an increase in the anchors needed for the mounting plate and in the overall size of the plate to accommodate the anchors based on the changes in risk level. This was confirmed with Simon at Stantec.

INCREASE IN ROOF SHEATHING AT THE
OPERATIONS BUILDING



SQUIRES LUMBER COMPANY, INC.
 333 EAST F ST
 PO BOX 431
 COLTON, CA 92324
 PHONE: (909) 825-1882

| | | | | | | |
|-------------------|----------------|--------------------------|---------------------|----------------------|------------------|-------------------------------|
| CUST NO: 62379 | JOB NO: 000 | PURCHASE ORDER: QUOTE | REFERENCE: GRANT | TERMS: NET 30 ADI | CLERK: TAMARA | DATE / TIME: 9/13/23 11:59 |
|-------------------|----------------|--------------------------|---------------------|----------------------|------------------|-------------------------------|

SOLD TO:
 PCL CONSTRUCTION - ARIZONA
 1711 W. GREENTREE DR.
 SUITE 201
 TEMPE AZ 85284

SHIP TO:

EXP. DATE: 9/18/23
 TERMINAL: 431

SALESPERSON: CP CHRIS PAXSON
 TAX: AZ ARIZONA-NON TAX

ESTIMATE: 644031/1

ALL SPECIAL ORDERS ARE FINAL & NON-REFUNDABLE

| LINE | SHIPPED | ORDERED | UM | SKU | DESCRIPTION | UNITS | PRICE/ PER | EXTENSION | TAX |
|------|---------|---------|----|---------|-------------------------------------|-------|------------|-----------|-----|
| 1 | | 100 | PC | 5848ACX | 5/8 4X8 AC EXT. PLYWOOD | 100 | 44.50 /PC | 4,450.00 | N |
| 2 | | 1 | EA | NCF | Thanks for the Business! | 1 | /EA | N/C | N |
| | | | | | Total Plywood/Wallboard: 3200.00/SF | | | | |
| | | | | | Energy Surcharge | | | 150.00 | |
| | | | | | L01 | | | 105.00 | |
| | | | | | Taxes at 7.75% | | | 364.64 | |
| | | | | | Total | | | 5069.64 | |

REPRINT

| | |
|----------|------------|
| TAX CODE | TAX AMOUNT |
| L01 | 0.00 |
| AZ | 0.00 |

| | |
|--------------|----------------|
| TAX AMOUNT | 0.00 |
| TOTAL | 4450.00 |



TOT WT: 5500.00

X _____
 Received By

Tax Codes L01 1% CA LUMBER ASSESSM
 AZ ARIZONA-NON TAX



SQUIRES LUMBER COMPANY, INC.
 333 EAST F ST
 PO BOX 431
 COLTON, CA 92324
 PHONE: (909) 825-1882

| | | | | | | |
|-------------------|----------------|--------------------------|---------------------|----------------------|------------------|-------------------------------|
| CUST NO: 62379 | JOB NO: 000 | PURCHASE ORDER: QUOTE | REFERENCE: GRANT | TERMS: NET 30 ADI | CLERK: TAMARA | DATE / TIME: 9/13/23 11:54 |
|-------------------|----------------|--------------------------|---------------------|----------------------|------------------|-------------------------------|

SOLD TO:
 PCL CONSTRUCTION - ARIZONA
 1711 W. GREENTREE DR.
 SUITE 201
 TEMPE AZ 85284

SHIP TO:

TERMINAL: 431
 EXP. DATE: 9/18/23
 SALESPERSON: CP CHRIS PAXSON
 TAX: AZ ARIZONA-NON TAX

ESTIMATE: 644030/1

ALL SPECIAL ORDERS ARE FINAL & NON-REFUNDABLE

| LINE | SHIPPED | ORDERED | UM | SKU | DESCRIPTION | UNITS | PRICE/ PER | EXTENSION | TAX |
|------|---------|---------|----|---------|-------------------------------------|-------|------------|-----------|-----|
| 1 | | 100 | PC | 3448ACX | 3/4 4X8 AC EXT. PLYWOOD | 100 | 49.65 /PC | 4,965.00 | N |
| 2 | | 1 | EA | NCF | Thanks for the Business! | 1 | /EA | N/C | N |
| | | | | | Total Plywood/Wallboard: 3200.00/SF | | | | |
| | | | | | Energy Surcharge | | | 150.00 | |
| | | | | | L01 | | | 105.00 | |
| | | | | | Taxes at 7.75% | | | 404.55 | |
| | | | | | Total | | | 5624.55 | |

REPRINT

| | |
|----------|------------|
| TAX CODE | TAX AMOUNT |
| L01 | 0.00 |
| AZ | 0.00 |

| | |
|--------------|----------------|
| TAX AMOUNT | 0.00 |
| TOTAL | 4965.00 |

Delta: \$554.91



TOT WT: 6600.00

X _____
 Received By

Tax Codes L01 1% CA LUMBER ASSESSM
 AZ ARIZONA-NON TAX

STANTEC TIME SHEETS

184031687: Oliver P. Roemer Water Filtration Facility Upgrades and Expansion Project

Hours spent for Structural Redesign - Change from Risk Category II to Risk Category III
7/12/23 to 8/14/2023

| Project | Code | Category | Subcode | Discipline | Type | Date | Number of Hours | Unit | Name | Rate | Total | Task Description |
|-----------|------|----------------------|---------|---------------------|--------------|-----------|-----------------|-------|--------------------|--------|-----------|--|
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 8/8/2023 | 0.50 | HOURS | Yoon, Debbie (332) | \$ 240 | \$ 120 | Compile calculations for retaining walls (Risk Category updates) |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 8/9/2023 | 2.00 | HOURS | Yoon, Debbie (332) | \$ 240 | \$ 480 | Compile calculations for retaining walls (Risk Category updates) |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 8/10/2023 | 2.00 | HOURS | Yoon, Debbie (332) | \$ 240 | \$ 480 | Compile calculations for FB2 & Operations Bldg.(Risk Category updates) |
| | | | | | | | 4.50 | HOURS | | | \$ 1,080 | Week of 8/7 |
| | | | | | | | 39.50 | HOURS | | | \$ 7,950 | Week of 7/31 |
| | | | | | | | 97.00 | HOURS | | | \$ 23,280 | Week of 7/24 |
| | | | | | | | 102.25 | HOURS | | | \$ 24,540 | 7/1/2023 to 7/23/2023 |
| | | | | | | | 243.25 | HOURS | | | \$ 58,410 | Totals as of 8/14/2023 |

184031687: Oliver P. Roemer Water Filtration Facility Upgrades and Expansion Project

Hours spent for Structural Redesign - Change from Risk Category II to Risk Category III
7/12/23 to 8/7/2023

| Project | Code | Category | Subcode | Discipline | Type | Date | Number of Hours | Unit | Name | Rate | Total | Task Description |
|-----------|------|----------------------|---------|---------------------|--------------|-----------|-----------------|-------|---------------------------|--------|-----------|---|
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 7/31/2023 | 2 | HOURS | Lin, Simon (153) | \$ 300 | \$ 600 | Risk category updates redesign review |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 8/1/2023 | 2 | HOURS | Lin, Simon (153) | \$ 300 | \$ 600 | Risk category updates redesign review |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 8/2/2023 | 1 | HOURS | Lin, Simon (153) | \$ 300 | \$ 300 | Risk category updates redesign review |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 8/3/2023 | 1 | HOURS | Lin, Simon (153) | \$ 300 | \$ 300 | Risk category updates redesign review |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 8/4/2023 | 1 | HOURS | Lin, Simon (153) | \$ 300 | \$ 300 | Risk category updates redesign review |
| 184031687 | 7 | Risk Category Update | 7.5 | Structural Engineer | Direct Labor | 8/3/2023 | 1.5 | HOURS | Yoon, Debbie (332) | \$ 240 | \$ 360 | Risk category update-Respond to 90% Review comment pm wall anchorage detail in Operation Building & markups |
| 184031687 | 7 | Risk Category Update | 7.4 | Architecture | Direct Labor | 8/4/2023 | 1 | HOURS | Navarro, Elizabeth (164) | \$ 240 | \$ 240 | energy calc review for eric |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 7/31/2023 | 7.5 | HOURS | Kate, Sameer (331) | \$ 175 | \$ 1,313 | Update Roemer model and 2d sheets as per markup |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 8/2/2023 | 3 | HOURS | Kate, Sameer (331) | \$ 175 | \$ 525 | Update Roemer model and 2d sheets as per markup |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 8/3/2023 | 8 | HOURS | Kate, Sameer (331) | \$ 175 | \$ 1,400 | Update Roemer model and 2d sheets as per markup |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 8/4/2023 | 8 | HOURS | Kate, Sameer (331) | \$ 175 | \$ 1,400 | Update Roemer model and 2d sheets as per markup |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 7/31/2023 | 1.5 | HOURS | Sakhalkar, Jidnyasa (155) | \$ 175 | \$ 263 | Risk Category updates Drawing checking |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 8/4/2023 | 2 | HOURS | Sakhalkar, Jidnyasa (155) | \$ 175 | \$ 350 | Risk Category updates Drawing checking. Coordination. |
| | | | | | | | 39.50 | | | | \$ 7,950 | Week of 7/31 |
| | | | | | | | 97.00 | | | | \$ 22,793 | Week of 7/24 |
| | | | | | | | 102.25 | | | | \$ 25,312 | 7/1/2023 to 7/23/2023 |
| | | | | | | | 238.75 | HOURS | | | \$ 56,055 | Totals as of 8/7/2023 |

184031687: Oliver P. Roemer Water Filtration Facility Upgrades and Expansion Project

Hours spent for Structural Redesign - Change from Risk Category II to Risk Category III
7/12/23 to 7/28/23

| Project | Code | Category | Subcode | Discipline | Type | Date | Number of Hours | Unit | Name | Rate | Total | Task Description |
|-----------|------|----------------------|---------|---------------------|--------------|------------|-----------------|-------|----------------------------|--------|-----------|---|
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-24 | 4.00 | HOURS | Lin, Simon (153) | \$ 300 | \$ 1,200 | redesign review, coordination and issuing- earlywork |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-25 | 6.00 | HOURS | Lin, Simon (153) | \$ 300 | \$ 1,800 | redesign review, coordination and issuing- earlywork |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-26 | 4.00 | HOURS | Lin, Simon (153) | \$ 300 | \$ 1,200 | redesign review, coordination and issuing- overall |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-27 | 4.00 | HOURS | Lin, Simon (153) | \$ 300 | \$ 1,200 | redesign review, coordination and issuing- overall |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-28 | 4.00 | HOURS | Lin, Simon (153) | \$ 300 | \$ 1,200 | redesign review, coordination and issuing- overall |
| 184031687 | 7 | Risk Category Update | 7.5 | Mechanical | Direct Labor | 2023-07-27 | 0.50 | HOURS | Neprud, Sean (923) | \$ 330 | \$ 165 | Drawing final check, issue date revisions and uploading revised Early Works IFC package |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-26 | 0.50 | HOURS | Spiro, Jeffrey (257) | \$ 185 | \$ 93 | Filtration Building platform design |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-24 | 1.00 | HOURS | Spiro, Jeffrey (257) | \$ 185 | \$ 185 | Filtration Building platform design |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-25 | 0.50 | HOURS | Spiro, Jeffrey (257) | \$ 185 | \$ 93 | Filtration Building platform design |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-26 | 4.50 | HOURS | Spiro, Jeffrey (257) | \$ 185 | \$ 833 | Filtration Building platform design |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-22 | 12.00 | HOURS | Wong, Steven (811) | \$ 240 | \$ 2,880 | OPB Update Shear Wall and Diaphragm Design |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-22 | 11.00 | HOURS | Wong, Steven (811) | \$ 240 | \$ 2,640 | OPB Update Shear Wall and Diaphragm Design |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-23 | 5.00 | HOURS | Wong, Steven (811) | \$ 240 | \$ 1,200 | OPB Update Foundation Design and Wall Detailing |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-23 | 8.00 | HOURS | Wong, Steven (811) | \$ 240 | \$ 1,920 | OPB Update Foundation Design and Wall Detailing |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-23 | 1.00 | HOURS | Yoon, Debbie (332) | \$ 240 | \$ 240 | Revise Wall Anchor force on Grid 3 of Operation Building |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-24 | 5.00 | HOURS | Yoon, Debbie (332) | \$ 240 | \$ 1,200 | Revise Wall Anchor design on Grid 3 of Operation Building |
| 184031687 | 7 | Risk Category Update | 7.5 | Structural Engineer | Direct Labor | 2023-07-25 | 3.00 | HOURS | Yoon, Debbie (332) | \$ 240 | \$ 720 | Revise Wall Anchor design on Grid 3 of Operation Building |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-24 | 4.00 | HOURS | Kate, Sameer (331) | \$ 175 | \$ 700 | Update model and drawings as per markup. |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-26 | 2.00 | HOURS | Kate, Sameer (331) | \$ 175 | \$ 350 | Update model and drawings as per markup. |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-27 | 8.00 | HOURS | Kate, Sameer (331) | \$ 175 | \$ 1,400 | Update model and drawings as per markup. |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-28 | 8.00 | HOURS | Kate, Sameer (331) | \$ 175 | \$ 1,400 | Update model and drawings as per markup. |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-26 | 0.50 | HOURS | Sakthalkar, Jitnyasa (155) | \$ 175 | \$ 88 | Drawing Checking and coordination. |
| 184031687 | 7 | Risk Category Update | 7.1 | Structural Engineer | Direct Labor | 2023-07-27 | 0.50 | HOURS | Sakthalkar, Jitnyasa (155) | \$ 175 | \$ 88 | Drawing Checking and coordination. |
| | | | | | | | 97.00 | | | | \$ 22,793 | Week of 7/24 |
| | | | | | | | 102.25 | | | | \$ 25,312 | 7/12/2023 to 7/23/2023 |
| | | | | | | | 199.25 | | | | \$ 48,105 | Totals as of 7/31/2023 |

184031687: Oliver P. Roemer Water Filtration Facility Upgrades and Expansion Project

Hours spent for Structural Redesign - Change from Risk Category II to Risk Category III
7/12/23 to 7/23/23

| Project | Code | Category | Subcode | Discipline | Type | Date | Number of Hours | Unit | Name | Rate | Total | Task Description |
|-----------|------|----------------------|---------|---------------------|--------------|------------|-----------------|-------|---------------------------|--------|------------------|--|
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-12 | 1 | HOURS | Lin, Simon (153) | \$ 300 | \$ 300 | structural redesign for Risk Category Change |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-13 | 6.5 | HOURS | Yoon, Debbie (332) | \$ 240 | \$ 1,560 | Update Calcs-FBZ Foundation and retaining walls for Risk Category adjustment. |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-13 | 4 | HOURS | Wong, Steven (811) | \$ 240 | \$ 960 | Revised and updated EPS hydrodynamic and seismic loads |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-13 | 4 | HOURS | Lin, Simon (153) | \$ 300 | \$ 1,200 | structural redesign for Risk Category Change |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-14 | 6.5 | HOURS | Yoon, Debbie (332) | \$ 240 | \$ 1,560 | Update Calcs-retaining walls for Risk Category adjustment. |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-14 | 6 | HOURS | Wong, Steven (811) | \$ 240 | \$ 1,440 | Revised EPS seismic loads and top slab design |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-14 | 3.5 | HOURS | Lin, Simon (153) | \$ 300 | \$ 1,050 | structural redesign for Risk Category Change |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-15 | 4 | HOURS | Wong, Steven (811) | \$ 240 | \$ 960 | Revised EPS Wall Out-of-plane design and Diaphragm Design |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-16 | 1 | HOURS | Spiro, Jeffrey (257) | \$ 185 | \$ 185 | Updated SAFE model for the filter building PEIMB Foundation design |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-16 | 1 | HOURS | Wong, Steven (811) | \$ 240 | \$ 240 | Revised EPS Shear Wall Designs |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-17 | 2 | HOURS | Yoon, Debbie (332) | \$ 240 | \$ 480 | Operation Building: Wall out-of-plane calc - Grid 3 |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-17 | 1 | HOURS | Lin, Simon (153) | \$ 300 | \$ 300 | structural redesign for Risk Category Change |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-17 | 5.75 | HOURS | Spiro, Jeffrey (257) | \$ 185 | \$ 1,064 | Updated SAFE model for the filter building PEIMB Foundation design |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-17 | 4 | HOURS | Wong, Steven (811) | \$ 240 | \$ 960 | Revised EPS Foundation Design |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-18 | 0.5 | HOURS | Wong, Steven (811) | \$ 240 | \$ 120 | Internal QC Coordination for EPS effluent pump station Calc. Revisions |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-18 | 4 | HOURS | Lin, Simon (153) | \$ 300 | \$ 1,200 | structural redesign for Risk Category Change |
| 184031687 | 7 | Risk Category Update | 7.5 | Mechanical | Direct Labor | 2023-07-18 | 1.5 | HOURS | Neprud, Sean (923) | \$ 330 | \$ 495 | Review of structural changes required for effects on the mechanical design |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-19 | 4 | HOURS | Yoon, Debbie (332) | \$ 240 | \$ 960 | Retaining wall re-design: calcs and update drawings S-101 & 102, QC meeting |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-19 | 6 | HOURS | Lin, Simon (153) | \$ 240 | \$ 1,440 | structural redesign for Risk Category Change |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-19 | 1 | HOURS | Wong, Steven (811) | \$ 240 | \$ 240 | Revised EPS Shear Wall Designs |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-20 | 3 | HOURS | Kate, Sameer (311) | \$ 175 | \$ 525 | update drawings as per comment |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-20 | 5 | HOURS | Lin, Simon (153) | \$ 240 | \$ 1,200 | structural redesign for Risk Category Change |
| 184031687 | 7 | Risk Category Update | 7.1 | PM and PTL | Direct Labor | 2023-07-20 | 1 | HOURS | Murthy, Umesh (616) | \$ 338 | \$ 338 | Risk category update work: internal coordination meeting to discuss status and schedules with discipline lead Simon Lin. Attend 0.5 hr meeting with WWWD and PCL at 1 pm |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-21 | 2 | HOURS | Yoon, Debbie (332) | \$ 240 | \$ 480 | Retaining wall re-design: calcs & markups Operation Building: Wall out-of-plane calc grid 3 |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-21 | 6 | HOURS | Lin, Simon (153) | \$ 300 | \$ 1,800 | structural redesign for Risk Category Change |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-21 | 1 | HOURS | Sakhalkar, Jitnyasa (155) | \$ 175 | \$ 175 | Drawing checking |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-22 | 12 | HOURS | Wong, Steven (811) | \$ 240 | \$ 2,880 | OPB operations building Update Shear Wall and Diaphragm Design |
| 184031687 | 7 | Risk Category Update | 7.2 | Structural Engineer | Direct Labor | 2023-07-23 | 5 | HOURS | Wong, Steven (811) | \$ 240 | \$ 1,200 | OPB operations building Update Foundation Design and Wall Detailing |
| | | | | | | | 102.25 | | | | \$ 25,312 | |