



AGENDA ITEM EXECUTIVE SUMMARY

Agenda Item:	Water Treatment Plant – Chemical Room Re-Coating		
Presenter & Title:	Pete Adams, Facilities Manager		
Date:	October 6, 2025		
<i>Please Check Appropriate Box:</i>			
<input checked="" type="checkbox"/>	Committee of the Whole Meeting	<input type="checkbox"/>	Special Committee of the Whole Meeting
<input checked="" type="checkbox"/>	City Council Meeting	<input type="checkbox"/>	Special City Council Meeting
<input type="checkbox"/>	Public Hearing	<input type="checkbox"/>	Other -
Associated Strategic Plan Goal/Objective: Quality Infrastructure and Services			
Estimated Cost: \$269,074		Budgeted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Other Funding? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>If "Other Funding," please explain how the item will be funded:</i>			
Executive Summary:			
<p>Due to the nature of the environment, we are experiencing significant oxidation and corrosion of most of the exposed surfaces in the Water Treatment Plant’s Chemical Room. The scope of work includes cleaning and re-coating the walls, ceilings, and a variety of ductwork, pipes, and tanks in the room to ensure all hold up over time.</p> <p>This project was unsuccessfully bid in 2024 (no bids were received by the deadline); fortunately, staff gained valuable information from the process used to update the budget request and project specifications. A new public bid was held and 3 qualified bids were received from experienced industrial coatings contractors on Monday September 8th. The lowest qualified bid was submitted by Clean Infusion LLC, of Columbia, MO. City Staff have reviewed the scope of work with Clean Infusion’s owner and have followed up with references to confirm they both understand and should be capable of performing the scope of work.</p> <p>Once approved, City Staff intend to contract Clean Infusion LLC to clean and re-coat all degraded surfaces in the Water Treatment Plant’s Chemical Room for the amount of \$269,074. Staff is recommending that a 10% contingency be included in the overall not-to-exceed amount to account for any unforeseen field changes that may occur. Any field changes (Change Orders) must be approved by the City Administrator to be applied to the contingency.</p>			
Attachments: <i>(please list)</i>			
<ul style="list-style-type: none"> • Chem Room Re-Coating (Re-Bid) Sept 2025 - Bid Tab Sheet • BID SUBMISSION - Chem Room Coating Re-bid - Clean Infusion LLCCOW 2025-09-02 • Geneva Water Treatment Plant - Chemical Room Re-Coating Re-Bid 2025 - Project Specifications 			
Voting Requirements:			

This motion requires a simple majority of affirmative votes for passage.

584

The Mayor may vote on three occasions: (a) when the vote of the aldermen or trustees has resulted in a tie; (b) when one half of the aldermen or trustees elected have voted in favor of an ordinance, resolution, or motion even though there is no tie vote; or (c) when a vote greater than a majority of the corporate authorities is required by state statute or local ordinance to adopt an ordinance, resolution, or motion.

Recommendation / Suggested Action: *(how the item should be listed on agenda)*

Recommend Approval of Resolution Authorizing the City Administrator to Execute Contract with Clean Infusion, LLC. for the re-coating of most of the Water Treatment Plant's Chemical Room and allow City Administrator to approve change orders not to exceed 10% of bid price for a total amount of \$295,981.40.

RESOLUTION NO. 2025-1200

**RESOLUTION AUTHORIZING EXECUTION OF THE
CONTRACT WITH CLEAN INFUSION, LLC.
FOR WATER TREATMENT PLANT CHEMICAL ROOM RE-COATING**

**BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GENEVA,
KANE COUNTY, ILLINOIS, as follows:**

SECTION 1: That the City Administrator is hereby authorized to execute, on behalf of the City of Geneva, a Contract with Clean Infusion, LLC. for the re-coating of most of the Water Treatment Plant’s Chemical Room and allow City Administrator to approve change orders not to exceed 10% of bid price for a total amount of \$295,981.40 as recommended by Staff.

SECTION 2: This Resolution shall become effective from and after its passage as in accordance with law.

PASSED by the City Council of the City of Geneva, Kane County, Illinois, this 3rd day of March, 2025.

AYES: __ NAYS: __ ABSENT: __ ABSTAINING: __ HOLDING OFFICE: __
Approved by me this 20TH day of October, 2025.

Mayor

ATTEST:

City Clerk

City of Geneva, IL
Water Treatment Plant - Chemical Room Re-Coating
Bid Tab Sheet

9/8/2025

Bidder	Base Bid (Structural, Architectural, & HVAC)	All EQ /Tanks/Rails, Etc.	Bid Deposit?
Pro Vantage Systems Inc.	\$189,450	\$85,642	✓
Clean Infusion LLC	\$218,724	\$50,350	✓
Thomas Industrial Coatings	\$254,795	\$122,595	✓

\$275,092
 \$269,074

PROPOSAL FORM

The following proposal is hereby made to the **City of Geneva, Illinois**, hereinafter called the Owner.
 Proposal is submitted in duplicate by Clean Infusion LLC

The undersigned hereby proposes and agrees to furnish all the necessary labor, materials, equipment, tools and services necessary to perform the Water Treatment Plant "CHEMICAL ROOM RE-COATING RE-BID 2025" in accordance with the Specifications and Procedural documents attached.

In submitting this proposal, the undersigned declares that the only persons or parties interested in the Proposal as principals are those named herein and that the Proposal is made without collusion with any other person, firm, or corporation.

The Undersigned acknowledges receipt of the following Addenda.

Addendum No.	Date	Initials
1	8/29/2025	WW

The Undersigned declares that they have examined the Contract Documents and are familiar with the local conditions at the site where the work is to be performed and with the conditions affecting the Contract requirements and understands that in making this Proposal, they waive all right to plead any misunderstanding regarding the same.

The undersigned further agrees to prosecute the work in such a manner and with sufficient materials, equipment, and labor as will ensure its completion by the 4/30/2026 completion date, it being understood and agreed that the completion within the time limit is an essential part of the Contract.

On (a) separate sheet(s), provide a written narrative explaining what products will be implemented, the preparation and installation/application process, and expected timeframe for when and how long work transpire.

INCOMPLETE SUBMISSIONS WILL BE CONSIDERED GROUNDS FOR DISQUALIFICATION

Total Bid Price to Prepare and Re-Coat	
Surface Preparation & Re-coating of ARCHITECTURAL & STRUCTURAL COMPONENTS & HAC Ductwork. This includes Walls, Ceilings, Structural Steel, Pedestrian Doors & Frames, Handrails & HVAC Ductwork.	\$ \$ 218,724
Surface Preparation & Re-coating of ALL Chemical Treatment Related Equipment, Pipes, Ducts, Tanks, Structural Supports, Conduit, etc. in the Chemical Room requiring coating(s).	\$ 50,350

Mil Wahn
 Owner
 Clean Infusion

Warrick Wadman
 wwadman@cleaninfusion.com
 347-949-1313

Lump Sum = 269,074



Water and Wastewater Services

Geneva, IL – Chemical Room Cleaning 2025

List of Products, Processes Used and Time Frame

SCOPE:

- ARCHITECTURAL & STRUCTURAL COMPONENTS & HAC Ductwork. This includes Walls, Ceiling, Structural Steel, Pedestrian Doors & Frames, Handrails & HVAC Ductwork.
 - This does not include Aluminum and Fiberglass handrails, floors, short tank retaining walls
- Chemical Treatment Related Equipment, Pipes, Ducts, Tanks (Pink and Blue, not fiberglass Tank), Structural Supports, Conduit, etc.
 - Stainless pipe supports are not to be coated.

Process and Materials Used:

- Surface preparation will include cleaning with simple green and wiping areas where needed to remove oil, residue, grit and grime.
- Surfaces where there is corrosion (pipe supports, etc)
 - All signs of corrosion to be power tool cleaned to SSPC-SP3 standards
 - Any corrosion spots as well as all flanges and valves not currently coated are to be primed with Sherwin Williams Macropoxy 5000 @ 1.0-1.5 mil DFT
 - All chipped/flaking paint areas (HVAC ducts, spots on ceiling and other) to be scraped, power tool cleaned to remove loose paint. These areas will have a primer coat of Sherwin Williams Macropoxy 646 applied to them.
- Apply Sherwin Williams Macropoxy 646 (5-10 mil DFT) coating on all surfaces.
- These materials and painting process covers both the Architectural & Structural Components, HAC Ductwork as well as Chemical Treatment related equipment, pipes, Ducts, Tanks, Structural Supports, conduit, etc.
- Color scheme will be similar to what is currently in place, however Clean Infusion and City of Geneva to review and confirm final color match.
- Clean Infusion estimates coating process will take approximately 3 weeks (M-F) complete. This is inclusive of both scopes.
- Clean Infusion would prefer that we would be awarded both scopes as opposed to one or the other.

Labor rates are based on prevailing wages for Kane County

CLEANINFUSION



Water and Wastewater Services

Water and Wastewater Services

A handwritten signature in black ink that reads "Warrick Wadman". The signature is written in a cursive style.

Warrick Wadman

Owner

Phone: 347-949-1313

WWadman@cleaninfusion.com



Water and Wastewater Services

Geneva, IL – Chemical Room Cleaning 2025

References

Customer: City of Winter Haven, FL

Contact Info: David Nicholson, 863-291-5763, dnicholson@mywinterhaven.com

Description/Scope: Rehab of South Clarifier, sandblasting and coating of concrete tank and clarifier equipment.

Customer: City of Aztec, NM

Contact Info: Albert Flores, 520-281-1832, Albert.flores@ibwc.gov

Description/Scope: Clarifier Rebuild and Coating

Customer: International Boundary and Water Commission – Nogales AZ

Contact Info: William Mazzeo, 505-793-9557, wmazzeo@aztecnm.gov

Description/Scope: Clean Water Plant, coating of clean water pipes to match state standards, several buildings

Customer: City of Palm Bay, FL

Contact Info: Robert Killen, 321-952-7479, Robert.killen@palmbayfl.gov

Description/Scope: Exterior, Clean Water Pipes, various mandated colors

CLEANINFUSION
Water and Wastewater Services

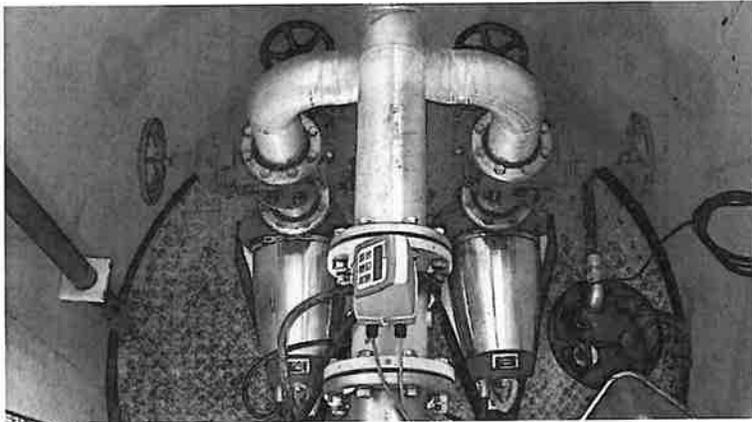
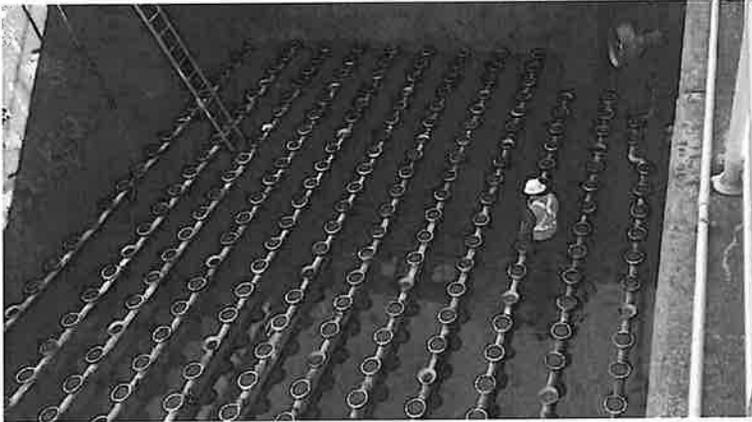
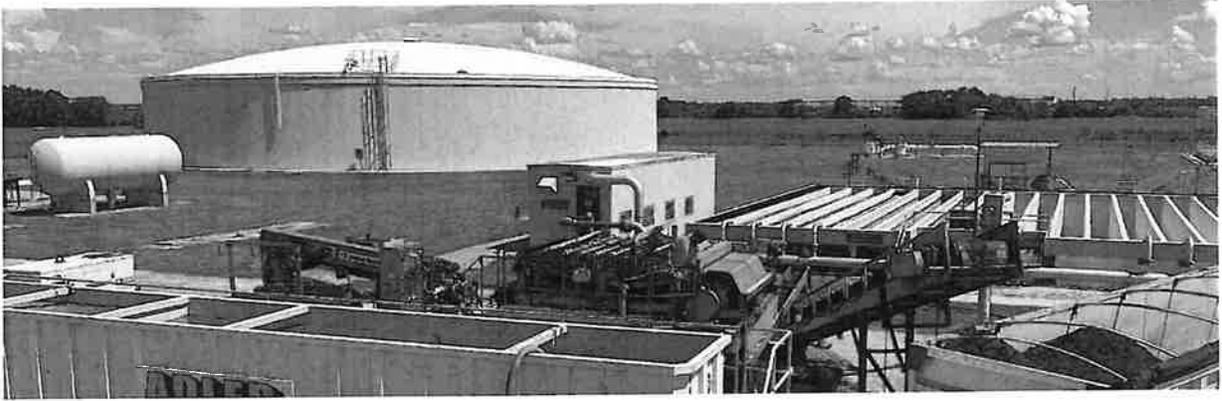
A handwritten signature in black ink that reads "Warrick Wadman". The signature is written in a cursive, flowing style.

Warrick Wadman

Owner

Phone: 347-949-1313

WWadman@cleaninfusion.com



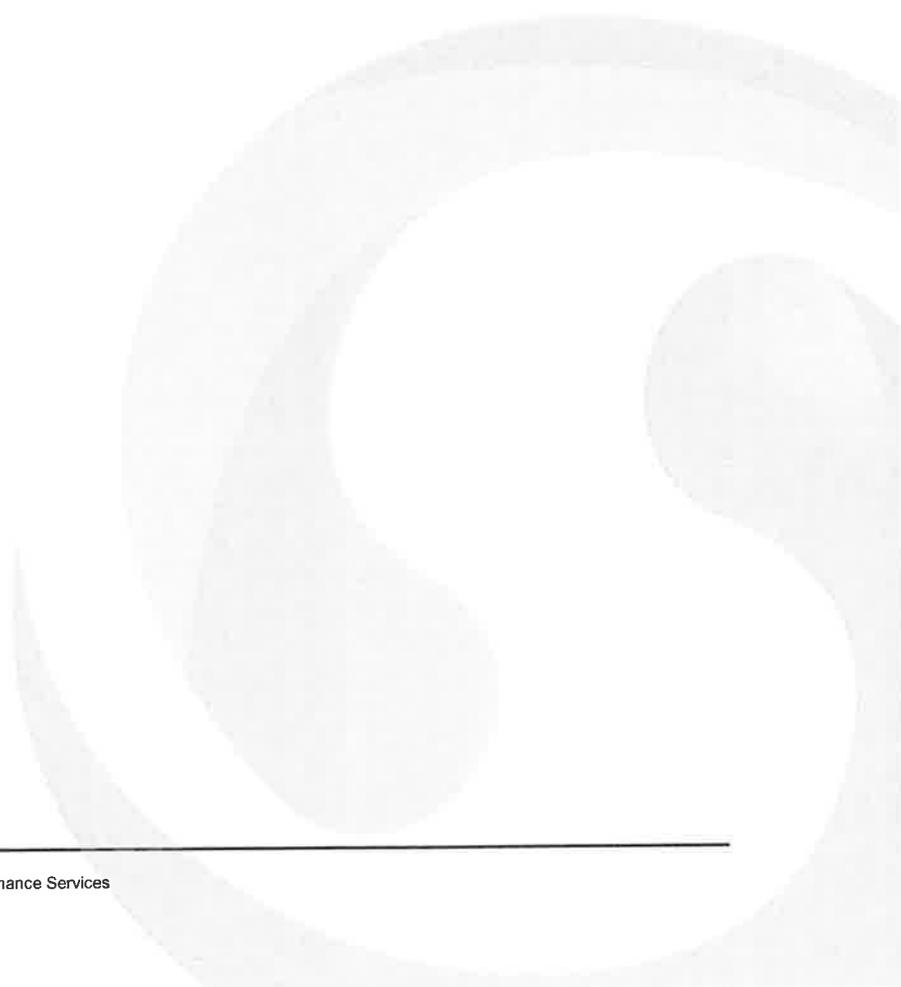
Statement of Qualifications

Water & Wastewater Operation and Maintenance Services



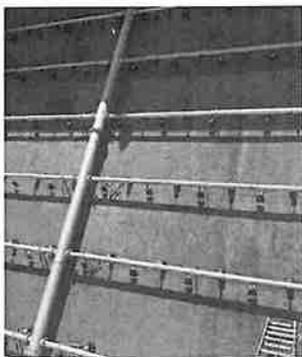
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Introduction

Clean Infusion is an international water and wastewater services company that operates from coast to coast in the United States as well has partnered operations in India. There are very few companies that encompass all of the services that Clean Infusion can provide to our clients.



In supplying, maintaining and servicing both public and private sector facilities, Clean Infusion has become recognized as a leader in providing cost-effective solutions, maintenance and services while guaranteeing the highest level of service and regulatory compliance.

Clean Infusion embodies the stability and strength of a multi-million dollar global organization while providing the commitment and attention to detail of a small, local company through its network of suppliers, customers and knowledge. Our philosophy embraces customer centric, total quality management and dedication to maintaining the highest possible service standards.

Clean Infusion is extensively involved in public and private wastewater operations and maintenance providing services that include:

- Cleaning Services
 - In-Situ, sludge, dredge, tank, scale removal, aeration
- Mechanical equipment repair, service, maintenance and replacement
- Equipment start up and inspection
- Aeration and aerator equipment
- Long Term Service and Maintenance Contracts
- Pumps: service, repair, rebuild, replacement
- Clarifier: Rebuild, Maintenance, Repair, Inspection, Installation
- Coatings: Complete concrete and steel tank repairs, prep and coatings
- DAF, MBR, Bar Screens, Filtration: Installation, repair, maintenance, replacement
- Dive Teams: Underwater Repairs and Emergency Services
- Lagoon Systems: Specialized boats and equipment to perform work on active lagoons such as aeration, mixers, liners.
- Pipe Work: Welding equipment and skilled craftsmen, fitters, supply of, installation, system builds, stainless, ductile, HDPE, PVC.
- Elevated, In-Tank/Basin and below grade work
- Lift Station: Cleaning, maintenance, installation and repair
- In-house Computational Fluid Dynamic (CFD) modeling
- Design-Build of coarse bubble check valve diffuser systems.
- Artificial Intelligence Maintenance (AIM) Program; Maintenance custom engineering to provide predictive asset management and protection

In addition to our capabilities here in the United States mentioned above, our partnered operations in India provide us access to an array of wastewater equipment machining capabilities, parts and equipment with much shorter lead times, cost conscious and overseen by technical tradesman from the US and Germany. With our partnerships in India, we're also expanding our services in the India and Southeast Asian markets. This allows us to support our international clients who wish to optimize our knowledge, breadth of scope and match the expectations of leading international organizations.

Our philosophy of enhancing our clients' existing resources has enabled us to provide improved service quality to growing communities at lower costs for 8 years. Clean Infusion's success can be verified through an uncommonly long reference list of clients – and the enthusiasm of its employees – around the globe. Our dedication to innovation, efficiency and high quality creates the perfect combination for optimally managing your facilities.

This document provides an overview of our qualifications. During the last 8 years, we have developed into one of the best and most innovative wastewater service providers in the United States.

For more information about our qualifications and capabilities, please contact:

Michael Russell – Director Inside Sales
Clean Infusion, LLC
2505 Shepard Blvd.
Columbia, MO 65201
Phone: 573-489-2710
Email: MRussell@CleanInfusion.com

About the Company

Clean Infusion is a leading supplier of wastewater treatment services and solutions. The company's broad range of products and services is concentrated around Cleaning, Mechanical Equipment Services, aeration, rehabilitation, and repair services.

Clean Infusion has provided contract operation services in the U.S. continuously for more than 8 years. The company began operations in 2016 performing In-Situ acid cleaning of aeration equipment. Since that time, Clean Infusion has expanded its presence across the United States and has expanded its operations to incorporate many other critical services to the water industry. We have performed services in 20 states and continue to grow to serve clients in additional states and expand our types of services each year based on customer demands.



The Clean Infusion Services organization is focused across four divisions:

- Sludge and Cleaning Services
- Aeration
- Piping, Filtration and Mechanical Services
- Long Term Maintenance Contracts

Today, we continue to build on our core business of providing specialized knowledge and skill sets in these 4 main areas to numerous communities and industrial customers.

Clean Infusion continues to be recognized as an industry leader in the national marketplace.

In addition, Clean Infusion remains a very rare entity in that we are able to perform a variety of tasks under the same scope without the necessity of outsourcing our services. This allows the owner to rely on us to perform a variety of services while dealing with just one vendor.

Clean Infusion has an established operational presence throughout the entire United States. Clean Infusion has several crews deployed throughout the US simultaneously on multiple projects. Examples are provided on the following pages.

Technical Experience

Facility: Town of Marion MA wastewater treatment plant

Contacts: Frank Cooper – Wastewater Treatment Plant Superintendent

Phone #: 508-748-3540 ext. 105

Thomas Tran – Construction Coordinator, CDM Smith

Phone #: 401-457-0379

Email: trantv@cdmsmith.com

Facility Address: 50 Benson Brook Rd, Marion, MA 02738

Facility Type: SBR Aeration System with predominately Domestic Waste

Clean Infusion Service: Tank cleaning, sludge removal and membrane replacement for two SBR tanks. Public bid project.

NPDES Permit #: MA0100030

Product Type: 1,224 EPDM 9" Flexible Membrane

Summary: Removed sludge, cleaned tanks and replaced membranes followed by leak and level check. One tank taken off-line at a time to perform service. Each tank took approximately 4 days to complete service. Customer very happy with efficient project completion and competent staff.

Satellite Image:



Facility: Oxford MS wastewater treatment plant

Contact: Mike Carbins – site contact, George Malouf Jr – Malouf
Construction Phone #: Mike Carbins: 662-299-6680, George Malouf Jr: 601-856-1044

Email: gmaloufjr@maloufconstruction.com

Facility Address: 559A, Highway 7, Oxford, MS 38655

Facility Type: Coarse bubble system treating Domestic Waste

Clean Infusion Service: Complete installation of new aeration equipment in newly constructed concrete lagoon.

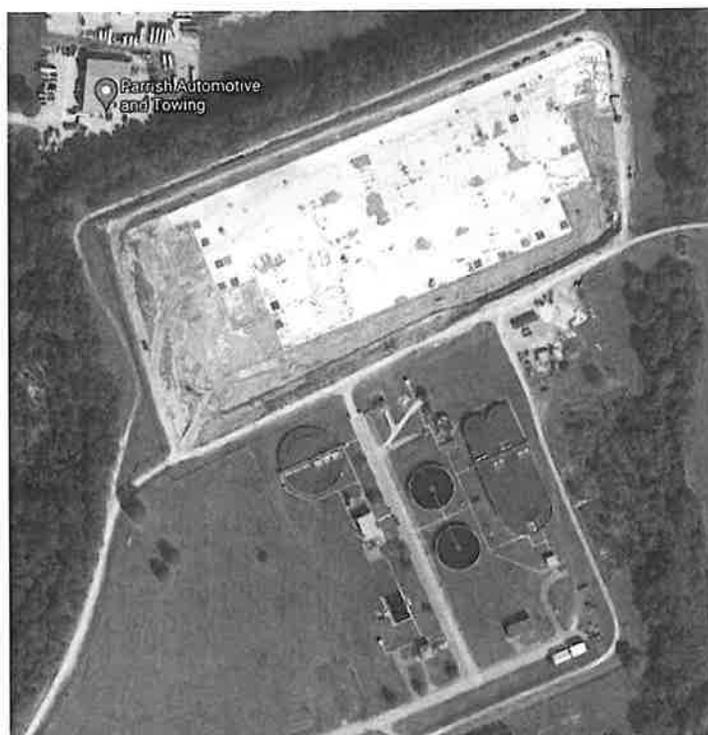
NPDES Permit #: MS0029017

Design Flow (MGD): 6.5

Product Type: Stainless Steel Coarse Bubble System

Summary: Installation and commissioning of new aeration equipment.

Satellite Image (during lagoon construction):



Facility: Quincy WA WWTP

Contact: Jon Himlan – Woodard and Curran

Phone #: 781-613-0528

Email: jhimlan@woodardcurran.com

Facility Address: 18605 Road 9 NW, Quincy, WA 98848

Facility Type: Fine bubble disc aeration, industrial waste (food processing)

Clean Infusion Service: Demolition and installation of ~25,000 fixed grid disc aeration system in two basins

Product Type: Sanitaire 9" EPDM aeration system



Facility: Winter Haven FL

Contact: Terry Carver – Operations Manager

Phone #: 863-291-5766

Email: tcarver@mywinterhaven.com

Facility Address: 4400 Pollard Rd., Winter Haven, FL 33883

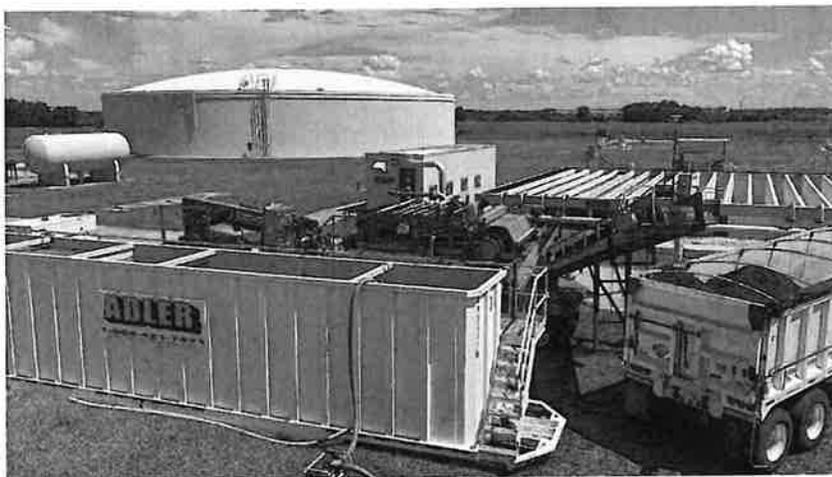
Facility Type: Fine bubble disc aeration, municipal waste, digester

Clean Infusion Service: Sludge removal, replacement/repair fixed grid disc aeration system in concrete digester tank.

Sludge Process: Diving, Belt Press Operation.

Product Type: Wilfley Weber Diffusers

Length of Relationship: 4 years



Facility: Ft Myers, FL

Contact: Joe Jamison

Phone #: 239-810-4483

Email: Joe@GPConstruction.com

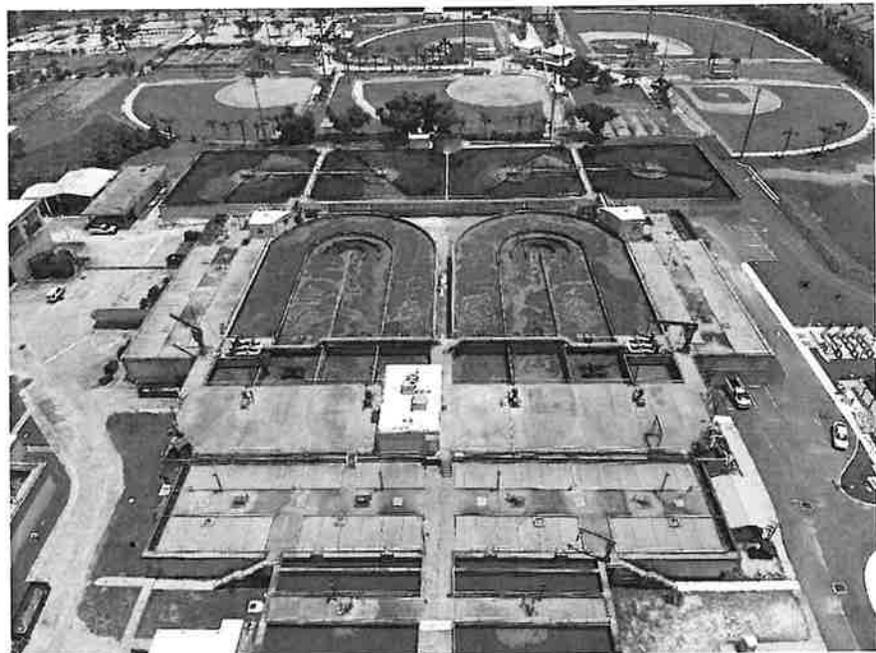
Facility Address: 1618 Matthews Dr., Fort Myers, FL 33907

Facility Type: Oxidation Ditch

Clean Infusion Service: In-Situ Sludge removal (remove sand/grit overnight while tanks were full and in operation, diving operation)

Sludge Process: Shaker Operation – only remove sand grit while bio mass sent back to plant.

Length of Relationship: 3 years



Facility: Winter Haven, FL

Contact: David Nicholson

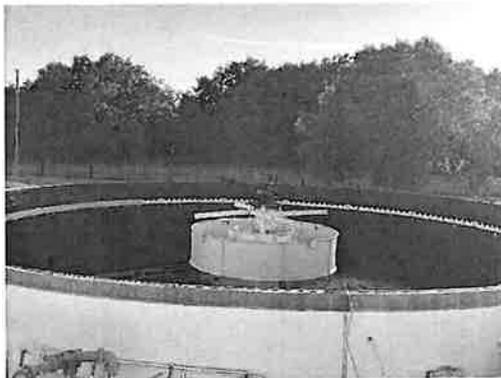
Phone #: 863-291-5763

Email: DNicholson@mywinterhaven.com

Facility Address: 4400 Pollard Rd., Winter Haven, FL 33884

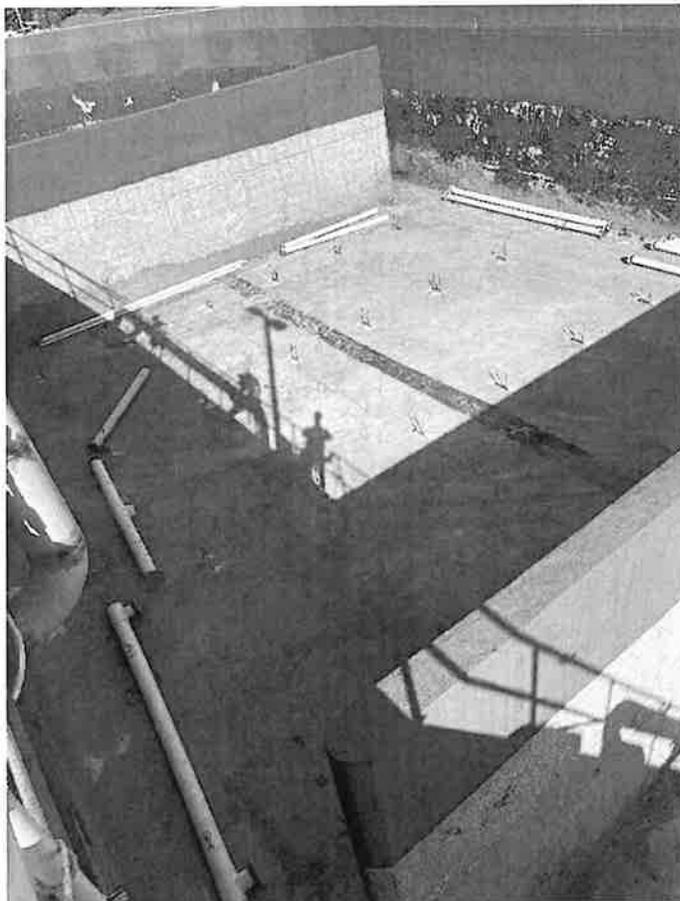
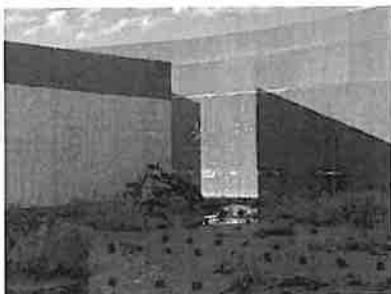
Clean Infusion Services: Complete Clarifier rebuild and tank coating: Gear box/motor rebuild, arms, wipers, weirs. Sand blasting and application of coating system to all metal parts and concrete walls.

Length of Relationship: 4 years



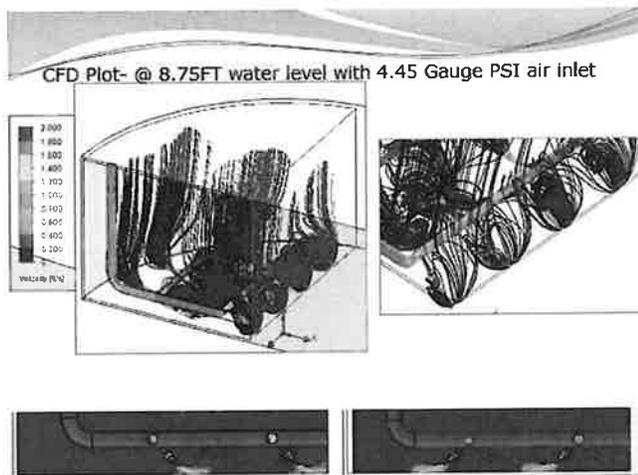
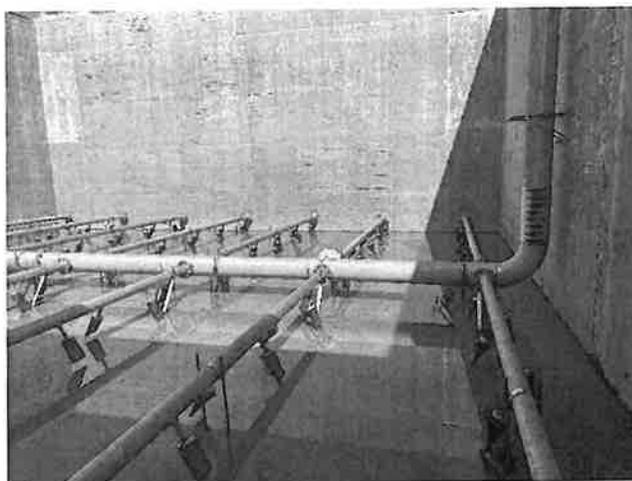
Facility: Kissimmee, FL

Contact: John Disanto
Phone #: 319-520-5797
Email: John.industrialmarineservices@yahoo.com
Facility Address: 1622 S John Young Parkway, Kissimmee FL 34741
Clean Infusion Services: Complete Clarifier rebuild and tank coating: Gear box/motor rebuild, arms, wipers, weirs. Sand blasting and application of coating system to all metal parts and concrete walls.
Length of Relationship: 2 years



Facility: Wolcott WWTP, KS

Contact: Jared Keating
Phone #: 913-515-4982
Email: JKeating@garney.com
Facility Address: 9404 Main St., Kansas City, KS 66109
Clean Infusion Services: Design and build coarse bubble check valve diffuser system with CFD modeling.



Facility: American Crystal Sugar - East Grand Forks, MN

Contact: Joel Downs

Phone #: 218-773-5229

Email: JDowns@crystalsugar.com

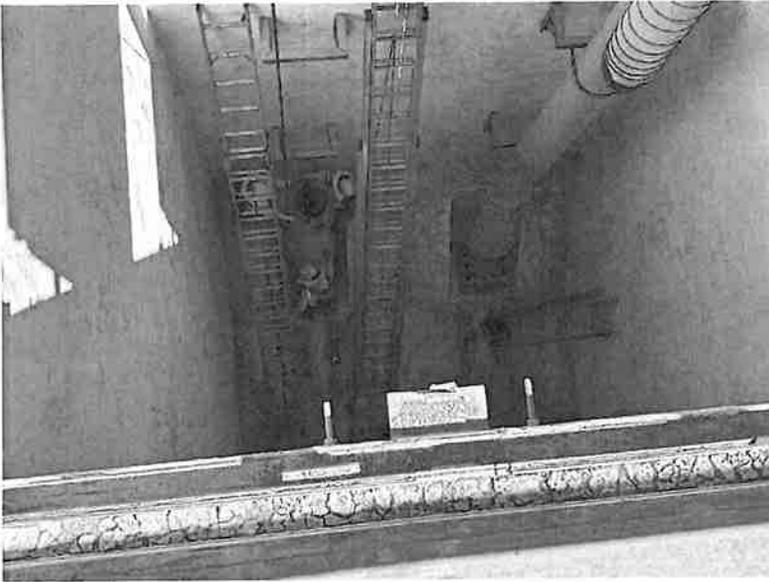
Facility Address: 712 4th St NE., East Grand Forks, MN 56721

Infusion Services: Installation of floating lateral aeration system

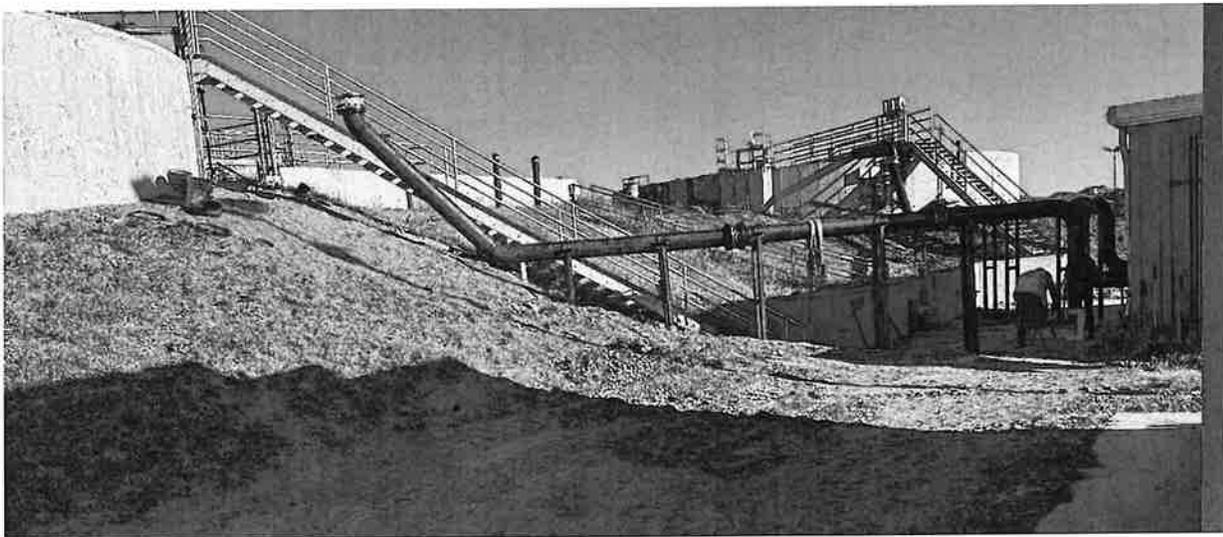
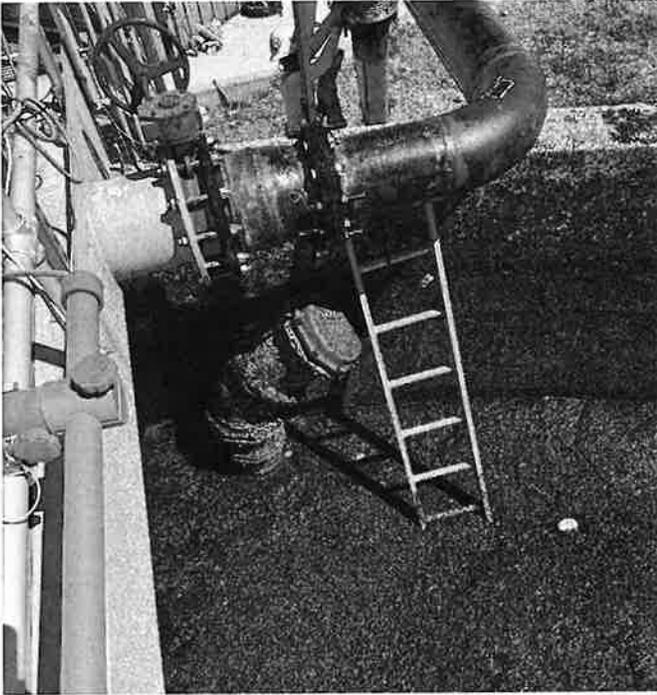


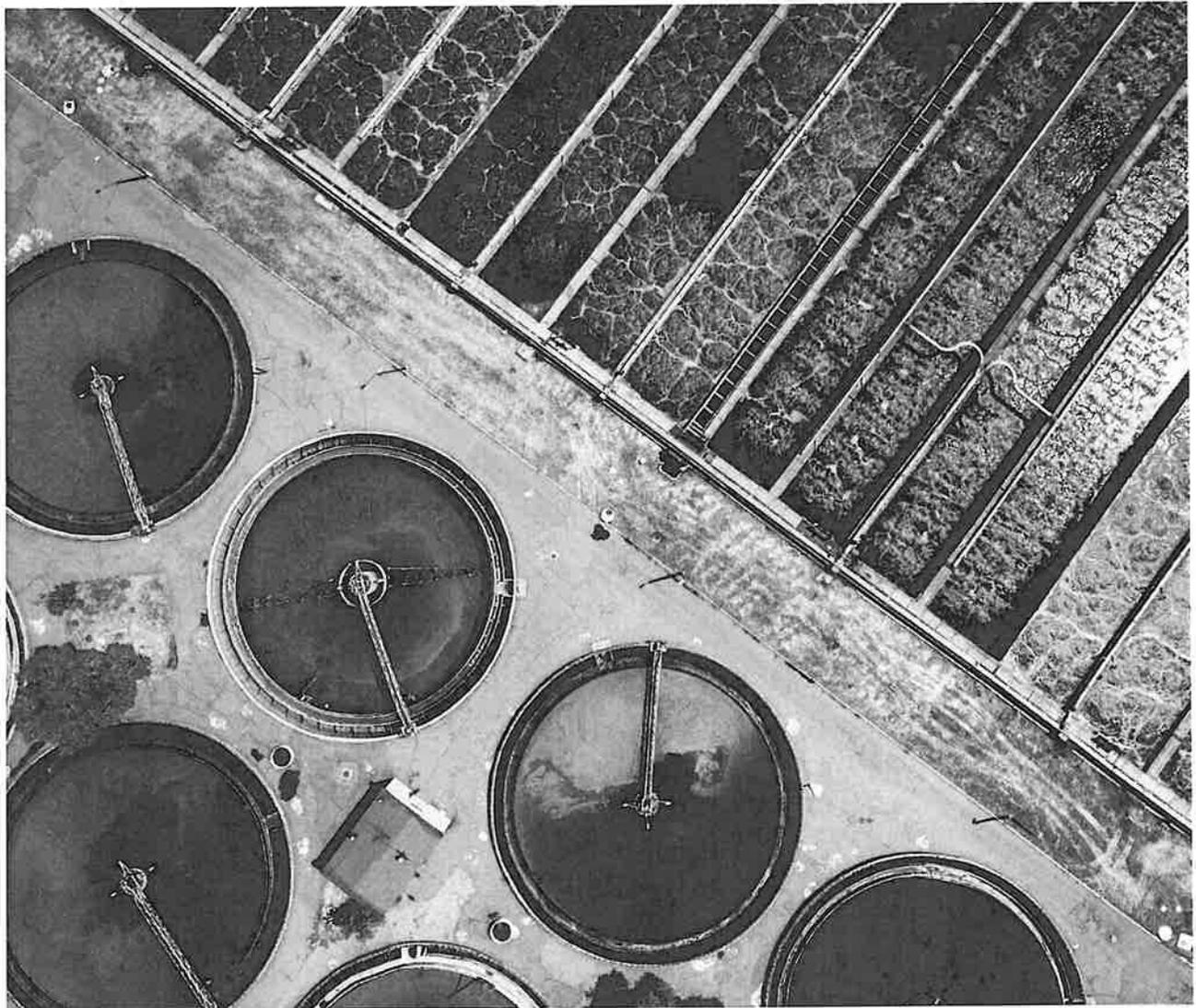
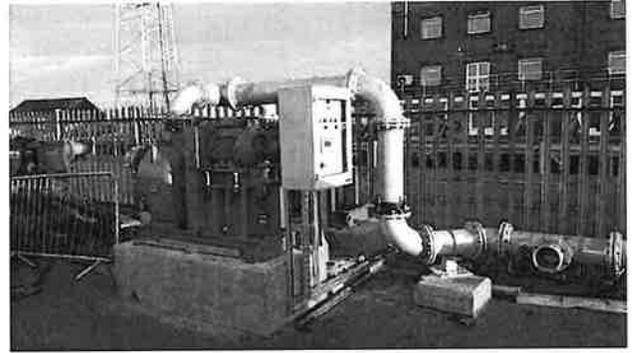
Additional Service Scopes

Lift Stations, Sluice/Slide Gates:



Various Piping (Iron, SS, HDPE, PVC), Fitting, Welding Applications:





✉ Sales@CleanInfusion.com

☎ 267-698-1176



Bid Bond

CONTRACTOR:

(Name, legal status and address)
Clean Infusion LLC

2505 Shepard Blvd
Columbia, MO 65201

OWNER:

(Name, legal status and address)
City of Geneva

22 South First Street
Geneva, IL 60134

SURETY:

(Name, legal status and principal place of business)
The Ohio Casualty Insurance Company

175 Berkeley Street
Boston, MA 02116

MAILING ADDRESS FOR NOTICES:

Liberty Mutual Surety Claims
P.O. Box 34526
Seattle, WA 98124

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

BOND AMOUNT: 10% of Bid Amount Ten Percent of Bid Amount

PROJECT:

(Name, location or address, and Project number, if any)
Water Treatment Plant Chemical Room Re-Coating 2025 Re-Bid

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 5th day of September, 2025.

[Signature]
(Witness)

Clean Infusion LLC *Warrick Wadmon*
(Contractor as Principal) (Seal)
Walt Weber
Owner
(Title)

Kiana M. Pumfrey
(Witness) Kiana M. Pumfrey



The Ohio Casualty Insurance Company
(Surety)
Timothy A. Mikolajewski
(Title) Timothy A. Mikolajewski, Assistant Secretary



BID-0032107

Liberty Mutual Surety vouches that the original text of this document conforms exactly to the text in AIA Document A310-2010 Edition Bid Bond.



POWER OF ATTORNEY

The Ohio Casualty Insurance Company

Principal: Clean Infusion LLC
 Agency Name: Nomad Insurance Agency Inc Bond Number: BID-0032107
 Obligor: City of Geneva
 Bid Bond Amount: (10% of Bid Amount) Ten Percent of Bid Amount

KNOW ALL PERSONS BY THESE PRESENTS: that The Ohio Casualty Insurance Company, a corporation duly organized under the laws of the State of New Hampshire (herein collectively called the "Company"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint Timothy A. Mikolajewski in the city and state of Seattle, WA, each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Company in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Company and the corporate seal of the Company has been affixed thereto this 5th day of September, 2025.



The Ohio Casualty Insurance Company

By: *Nathan J. Zangerle*
 Nathan J. Zangerle, Assistant Secretary

STATE OF PENNSYLVANIA SS
 COUNTY OF MONTGOMERY

On this 5th day of September, 2025, before me personally appeared Nathan J. Zangerle, who acknowledged himself to be the Assistant Secretary of The Ohio Casualty Insurance Company and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
 Teresa Pastella, Notary Public
 Montgomery County
 My commission expires March 28, 2029
 Commission number 1126044
 Member, Pennsylvania Association of Notaries

By: *Teresa Pastella*
 Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-law and Authorizations of The Ohio Casualty Insurance Company, which is now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Nathan J. Zangerle, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature or electronic signatures of any assistant secretary of the Company or facsimile or mechanically reproduced or electronic seal of the Company, wherever appearing upon a certified copy of any power of attorney or bond issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, of The Ohio Casualty Insurance Company do hereby certify that this power of attorney executed by said Company is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Company this 5th day of September, 2025.



By: *Renee C. Llewellyn*
 Renee C. Llewellyn, Assistant Secretary

NOT VALID FOR PURCHASE, ISSUE, RATE, LETTER OF CREDIT, CURRENCY RATE, INTEREST RATE OR RESIDUAL VALUE GUARANTEES.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

PROJECT DOCUMENTS
FOR
Water Treatment Plant
Chemical Room Re-Coating 2025 Re-bid



August 2025

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ADVERTISEMENT

The City of Geneva (City) is seeking a qualified proposals for re-coating all currently coated surfaces in the approximately 3000 SF Chemical Room at the City of Geneva’s Water Treatment Plant, located at 4000 W Keslinger Rd, in Geneva, IL.

Proposals to be submitted in **duplicate**, in a sealed envelope with the words "Chemical Room Re-Coating” clearly marked on it, will be received by the City of Geneva, Illinois until **10:00 a.m. on Monday, September , 2025** at the office of the City Administrator located at 22 South First Street, Geneva, IL 60134; immediately following, they will be publicly opened and read aloud in the City’s Council Chambers. To attend the public opening, please use the public entrance on the James Street side (south) of the building.

Instructions and specifications are available on the City of Geneva web site: www.geneva.il.us/bids.aspx.

All persons working on this project shall be paid no less than current prevailing wages stipulated by the Illinois Department of Labor in the County of Kane and/or as determined by a Court of Law having Jurisdiction.

The City of Geneva, Illinois reserves the right to reject any or all proposals and waive technicalities.

GENERAL OVERVIEW & TERMS

The City of Geneva (City) is seeking a qualified proposals for re-coating all currently coated surfaces in the approximately 3000 SF Chemical Room at the City of Geneva's Water Treatment Plant, located at 4000 W Keslinger Rd, in Geneva, IL.

The most pressing concern is to re-coat the walls and ceilings and the City will be asking vendors to price the re-coating of the Walls/Ceilings and then Pipes/Ducts/Equipment/Rails/Etc. Separately. The City's preference is to award both scopes together if budget allows.

PLANS & PRODUCT SPECIFICATIONS

Since no significant facility alterations have taken place, the city will be utilizing the original plans, specifications, and submittals from construction in 2006 to support this project. Coated surfaces include, but are not limited to walls, ceilings, doors, fixtures, tanks, various equipment, pipes, ductwork, and other exposed infrastructure; most have an assigned color or pattern for easier identification.

INQUIRIES:

All inquiries are to be submitted in writing via email to the Facilities Manager at Padams@geneva.il.us.

Deadline for inquiries is Friday August 29, 2025.

FACILITY INSPECTIONS

The Contractor shall complete a thorough, initial inspection prior to submitting their proposal. The Facility will be available for review on Friday August 22nd, 2025 from 9:00 to 10:00 am.

If unable to make this date you may contact the Facilities Manager to request an appointment at Padams@geneva.il.us or the Plant Supervisor (Mike Anderson) at (630)232-1551.

***The pre-submission inspection/review is a requirement for bid eligibility. Failure to attend and sign-in may be grounds for dismissal of bid submission.

During these reviews only general clarifying questions will be answered. Any specific or term clarifying questions are to be submitted in writing via email to the Facilities Manager at padams@geneva.il.us by no later than Friday August 29th, 2025.

SCHEDULE:

The City is seeking for work to be completed by no later than April 30th 2026.

Daily work is to be performed during the plant's operational hours, Monday to Friday from 7:00 am to 3:30 pm.

Project Schedule Important Dates:

Plant Available for Site Review	Friday August 22nd @ 9:00 am
Deadline for Inquiries	Friday August 29th
Deadline for any Addenda to be posted	Wednesday September 3rd @ 4:00 pm
Bid Opening	Monday September 8th @ 10:00 am
Anticipated Council Approval	Monday October 20th
Anticipated Award	Wednesday October 22nd

The plant will be closed and unavailable for work for the following scheduled City Holidays:

Thanksgiving	Thursday, Nov. 27, 2025
Day after Thanksgiving	Friday, Nov. 28, 2025

GENERAL OVERVIEW & TERMS

Christmas Eve	Wednesday, Dec. 24, 2025
Christmas Day	Thursday, December 25, 2025
New Year's Day	Thursday, Jan. 1, 2026
Martin Luther King, Jr. Day	Monday, Jan. 19, 2026
Presidents' Day	Monday, Feb. 16, 2026
Spring Holiday	Friday, April 3, 2026

COLOR SELECTIONS: The 2006 Specifications include surface identifying color assignments that were largely followed, but some field alterations were made and unfortunately not well documented. Identifying Colors &/or Patterns are to be verified with FM or onsite designated staff prior to application. If applied incorrectly Contractor will be responsible to re-coat to the correct color or pattern for the specific surface at their cost.

INSTALLATION WARRANTY: The Contractor/Installer shall provide at least a ONE-year workmanship warranty for the installation.

SECURITY: Upon entering the premises, Contractors' personnel must check in with the designated site contact and will follow any facility required sign in in procedures. Before departing, site contact will be notified of pending departure and any applicable sign-out procedures will be followed.

PAYMENTS/INVOICING: Contractor should invoice for services in a timely fashion after work has been performed, no more than 30 calendar days whenever possible. Invoices are to be submitted to Accounts Payable at: AP@geneva.il.us. At the conclusion of the project, the City will hold a 10% retention until a Manufacturers' Warranty certificate or other formal confirmation of the installation having been deemed acceptable by the Manufacturer.

MSD: After proposals have been opened and reviewed by the FM, the presumed awarded contractor shall provide current labels and material safety data sheets for all products or materials noted in the proposal's narrative for the FM to review prior to formal award. **ONLY INCLUDE** products or material data for items noted in the Proposal Form Narrative.

TERMS: The Contractor shall be responsible for carrying out work according to the terms outlined in the proposal and per manufacturer specifications. The Contractor shall receive the concurrence of the Facilities Manager or designee prior to implementing any subsequent changes to the approved terms.

QUALIFICATIONS: Throughout the term of this contract, the organization and all Contractor personnel performing work on-site must maintain all applicable licenses, certifications or other formal requirements to be in compliance with applicable business operation or contractor requirements and any Manufacturer required certifications as required for the terms of the Manufacturers' Specifications.

USE OF CITY FACILITIES: Any staging space needed on-site and/or use of City utilities (power/water), restrooms, breakroom should be clarified in the proposal's written narrative. Pricing should reflect any savings to be expected by the City for allowing use of city facilities and/or dumpsters for waste disposal.

JOB SITE CLEAN-UP: Contractor is responsible to safely remove and legally dispose of all roof related debris.

WASTE AND SURPLUS MATERIALS: Any waste or surplus material generated from the project shall be removed by the Contractor from the site of the Project as rapidly as practicable as the work progresses at the contractor's expense.

GENERAL OVERVIEW & TERMS

FACILITY OPERATIONS DURING EXECUTION: The Water Treatment Plant is required to be capable of full operations 24/7. Efforts should be made with execution plans to minimize operational impacts on City Staff to the extent possible.

PROTECTION TO PERSONS AND PROPERTY

The Contractor shall at all times take all reasonable precautions for the safety of employees on the work site and of any persons present, and shall comply with all applicable provisions of Federal, State, and Municipal safety laws and building and construction codes, as well as the safety rules and regulations of the Owner.

The following provisions shall not limit the generality of the above requirements:

- The Contractor shall so conduct work over the course of the Project as to cause the least possible obstruction of daily operations at the Water Treatment Plant.
- While performing work, the Contractor shall provide and maintain protection for the any City Employees onsite as may be required by applicable statutes, ordinances and regulations or by local conditions.
- The Contractor shall do all things necessary or expedient to properly protect any and all City property from damage while performing work, and in the event that any such property are damaged in the course of execution of the Project, the Contractor shall at its own expense restore any or all of such damaged property immediately to as good a state as before such damage occurred.
- The Project, from the commencement of work to completion, or to such earlier date or dates when the Owner may take possession and control in whole or in part as hereinafter provided shall be under the charge and control of the Contractor and during such period of control by the Contractor all risks in connection with the execution of the Project and the materials to be used therein shall be borne by the Contractor. The Contractor shall make good and full repair all injuries and damages to the Project or any portion thereof under the control of the Contractor by reason of any act of God or other casualty or cause whether or not the same shall have occurred by reason of the Contractor's negligence. The Contractor shall hold the Owner harmless from any and all claims for injuries to persons or for damage to property happening by reason of any negligence on the part of the Contractor or any of the Contractor's agents or employees during the control by the Contractor of the Project or any part thereof.
- Upon violation by the Contractor of any of the provisions of this section, after written notice of such violation given to the Contractor by the Owner, the Contractor shall immediately correct such violation. Upon failure of the Contractor so to do the Owner may correct such violation at the Contractor's expense: Provided, however, that the Owner may, if it deems it necessary or advisable, correct such violation at the Contractor's expense without such prior notice to the Contractor.
- **Safety and Health:** The contractor shall observe all safety precautions throughout the performance of this contract. All work shall be in strict accordance with all applicable Federal, State and local safety and health requirements. Where there is a conflict between applicable regulations, the most stringent will apply.
- **Uniforms and Protective Clothing:** The contractor shall determine the need for and provide any personal protective items required for the safe performance of work. Protective clothing, equipment and devices shall, as a minimum, conform to U.S. Occupational Safety and Health Administration (OSHA) standards for the products being used.
- **Vehicles:** Vehicles used by the contractor shall be properly licensed, registered and insured to operate in the State of Illinois and Kane County.

INSURANCE

The Contractor shall take out and maintain throughout the construction period insurance in the following minimum requirements:

GENERAL OVERVIEW & TERMS

- Workmen's Compensation & Employer's Liability. This insurance shall protect Contractor and the Company against all claims under applicable state workmen's compensation laws. The Contractor shall also be protected against all claims for injury, disease, or death of employees which, for any reason, may not fall within the provisions of a workmen's compensation law. This policy shall include "All States" endorsement.

The liability limits shall not be less than:

Workmen's Compensation	Statutory
Employer's Liability	\$1,000,000 each employee

- Comprehensive Automobile Liability. This insurance shall be written in comprehensive form and shall protect the Contractor against all claims for injuries to members of the public and damage to property of others arising from the use of motor vehicles, and shall cover operation on or off the site of all motor vehicles licensed for highway use, whether they are owned, non-owned, or hired.

The General Liability limits shall be not less than:

Bodily Injury	\$2 Million (each person) \$2 Million (each occurrence)
Property Damage	\$2 Million

- Comprehensive General Liability. This insurance shall be written in comprehensive form and shall protect the Contractor against all claims arising from injuries to persons other than his employees or damage to property of the Owner or others arising out of any act of omission of the vendor or his agents, employees, or Sub-Contractors. The policy shall also include protection against claims insured by usual personal injury liability coverage a "protective liability" endorsement to insure the Contractual liability assumed by the Contractor, and "Completed Operations and Products Liability" coverage (to remain in force during the correction period).

The liability limits shall be not less than:

Bodily Injury	\$2 Million (each person) \$2 Million (each occurrence)
Property Damage	\$2 Million (each occurrence) \$3 Million (aggregate)

- Installation Floater. The Contractor shall secure and maintain installation floater insurance on all materials and equipment installed under the Contract. This insurance shall protect the Contractor and the Owner from all risks of physical loss or damage to materials and equipment not otherwise covered under builder's risk insurance, while in warehouse or storage areas during installation, during testing, and after the work is completed. Installation floater insurance shall be of the "all risks" type, with coverage designed for the circumstances that may occur in the particular work included in the Contract. No exclusions shall be permitted with respect to this policy unless specifically authorized by the Owner in writing. The coverage shall be for an amount not less than the insurable value of the work at completion, less the value of the materials and equipment insured under builder's risk insurance. The value shall include the aggregate value of the Owner-furnished equipment and materials to be erected or installed by the Contractor not otherwise insured under builder's risk insurance.

Installation floater insurance shall provide for losses to be payable to the Contractor and the Owner as their interests may appear. The policy shall contain a provision that in the event of payment for any loss

GENERAL OVERVIEW & TERMS

under the coverage provided, the insurance company shall have no rights of recovery against the Contractor or the Owner.

- Additional Named Insured. The Owner and its employees, agents, and representatives shall be named additional insured on all insurance certificates.
- Cancellation Notice. The standard ACCORD will not be accepted as proof of insurance unless the cancellation provisions have been altered to assure the Owner a minimum ten (10) days' notice of cancellation.

Certificates of insurance shall be filed and approved by the Owner before commencing work or within ten (10) days after the execution of the Contract, whichever date is reached first.

The Owner shall have the right at any time to require public liability insurance and property damage liability insurance greater than those required in subsections b and c of this Section. In any such event, the additional premium or premiums payable solely as the result of such additional insurance shall be added to the Contract price.

The Contractor shall furnish a certificate evidencing compliance with the foregoing requirements.

INDEMNIFICATION

To the fullest extent permitted by laws and regulations, the Contractor shall defend, indemnify, and hold harmless the Owner and their officers, directors, partners, consultants, agents, and employees from and against all claims, damages, losses, and expenses direct, indirect, or consequential (including but not limited to fees and charges of engineers, architects, attorneys, and other professionals and court and arbitration costs) arising out of or resulting from the performance of the work by the Contractor, any Sub-Contractor, any person or organization directly or indirectly employed by any of them to perform or furnish any of the work or anyone for whose acts any of them may be liable.

In any and all claims against the Owner or any of their officers, directors, partners, consultants, agents, or employees by any employee of the Contractor, any Sub-Contractor, any person or organization directly or indirectly employed by any of them to perform or furnish any of the work by anyone for whose acts any of them may be liable, this indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Contractor or any such Sub-Contractor or other person or organization under workers or workmen's compensation acts, disability benefit acts, or other employee benefit acts, nor shall this indemnification obligation be limited in any way by any limitation on the amount or type of insurance coverage provided by the Owner, the Contractor, or any of his Sub-Contractors.

RELEASE OF LIABILITY

Acceptance by the Contractor of the last payment shall be a release to the Owner and every officer and agent thereof from all claims and liability hereunder for anything done or furnished for or relating to the work, or for any act or neglect of the Owner or of any person relating to or affecting the work.

PREVAILING WAGE

This contract calls for the construction of a "public work," within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/.01 et seq. ("the Act"). The Act requires contractors and subcontractors to pay laborers, workers and mechanics performing services on public works projects no less than the "prevailing rate of wages" (hourly cash wages plus fringe benefits) in the county where the work is performed. For information regarding current prevailing wage rates, please refer to the Illinois Department of Labor's website at: <http://www.state.il.us/agency/idol/rates/rates.HTM>. All contractors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage, notice and record keeping duties.

GENERAL OVERVIEW & TERMS

Contractor or his Sub-Contractor shall pay all mechanics and laborers employed directly upon the site of the work, unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account, the full amount accrued at the time of payment, computed at wage rates not less than those stated in the advertised Specifications, regardless of any contractual relationship which may be alleged to exist between the Contractor or Sub-Contractor and such laborers and mechanics;

The scale of wages to be paid shall be posted by the Contractor in a prominent and easily accessible place at the site of the work; and

There may be withheld from the Contractor so much of accrued payment as may be considered necessary by the city controller to pay to laborers and mechanics employed by the Contractor or any Sub-Contractor on the work for the difference between the rates of wages required by such laborers and mechanics except those amounts properly deducted or refunded pursuant to the terms of the Davis-Bacon Act (USC, Title 40, Sec. 276a) and interpretations thereof.

The overtime pay to which a laborer or mechanic working on the contract is entitled shall be that overtime pay to which he is entitled by any agreement he may have made with the Contractor or Sub-Contractor, or by any applicable provision of law, but in no such event shall such amount be less than the prevailing wage for such overtime.

The minimum wages to be paid to the various laborers and mechanics, have been determined to be prevailing for the corresponding classes of laborers and mechanics employed on projects of a character similar to the Contract work in the vicinity.

Please be aware of the following requirements of the Illinois Department of Labor for the Contractor and every Subcontractor working on public improvement projects in Illinois. There will be no exception to these public acts under this contract. Starting from the date the notice to proceed is issued the Contractor and the subcontractor will submit certified payroll records every calendar month for work that was completed and paid for as stated below.

CERTIFIED PAYROLL REQUIREMENTS (PUBLIC ACT 94-0515): Effective August 10, 2005 Contractors and Subcontractors on public works projects must submit certified payroll records on a monthly basis to the public body in charge of the construction project, along with a statement affirming that such records are true and accurate, that the wages paid to each worker are not less than the required prevailing rate and that the Contractor is aware that filing records he or she knows to be false is a Class B misdemeanor.

The certified payroll records must include for every worker employed on the public works project the name, address, telephone number, social security number, job classification, hourly wages paid in each pay period, number of hours worked each day, and starting and ending time of work each day. These certified payroll records are considered public records and public bodies must make these records available to the public under the Freedom of Information Act, with the exception of the employee's address, and telephone number. Demographic information required as part of PA 1-3=347 (HB3400) is also required. Any Contractor who fails to submit a certified payroll or knowingly files a false certified payroll is guilty of a Class B misdemeanor.

PREVAILING WAGES FOR KANE COUNTY:

<https://idol.aem-int.illinois.gov/content/dam/soi/en/web/idol/laws-rules/conmed/documents/fy24/20230815/Kane.pdf>

INSTRUCTIONS FOR PROPOSALS

The successful Vendor shall submit a copy of his/her insurance policy listing the City of Geneva as an additional insured.

If any Vendor is in doubt as to the true meaning of any part of the specifications, or other contract documents, he may submit to the Facilities Manager (FM) a written request for an interpretation. The FM will give an interpretation of the matter in question by issuing an "Addenda". The FM will not respond to written requests for interpretation that are received less than 5 business days before the opening.

Proposals, which are not signed by individuals making them, should have attached thereto a power of attorney evidencing authority to sign the proposal on behalf of the person for whom it is signed.

Proposals which are signed for a partnership should be signed by all of the partners or by an attorney-in-fact. If signed by an attorney-in-fact, there should be attached to the proposal a power of attorney evidencing authority to sign the proposal, executed by the partners.

Proposals which are signed for a corporation should give the correct corporate name thereof and the signature of the president or other authorized officer of the corporation manually written below the corporate name following the word "By _____". If such a proposal is manually signed by an official other than the president of the corporation, a certified copy of a resolution of the board of directors evidencing the authority of such official to sign the proposal should be attached to it. Such a proposal should also bear the attesting signature of the secretary of the corporation and the impression of the corporate seal.

Submission of a proposal is conclusive assurance and warranty that the Bidder and any subcontractors have examined the materials, visited the site and understood all requirements for the performance of the work. The Bidder will be responsible for all errors in the proposal resulting from failure or neglect to conduct an in-depth examination. The City of Geneva will, not be responsible for any additional cost, expenses, losses or changes in anticipated profits resulting from such failure or neglect found in the submission.

Bidders are to alert the City of any errors or omissions observed in the specifications prior to submission.

Any errors discovered in the proposals received may be corrected using the unit price submitted. The contract will be awarded after these adjustments are made.

1. REFERENCES: To demonstrate qualifications to perform the Work, each vendor must prepare to submit no less than three to five (3-5) customer references for similar work performed; preferably from other government or public sector organizations. References should include:
 - Customer/Organization name,
 - Primary contact name & title or role, with phone number and email address.
 - Brief description of the scope of the similar project performed.

2. INTERPRETATIONS AND ADDENDA: All questions about the meaning or intent of the Contract Documents are to be directed to the Facilities Manager (FM) at padams@geneva.il.us. Interpretations or clarifications considered necessary by the FM in response to such questions will be issued by Addenda and posted on the City of Geneva web site www.Geneva.il.us. **Questions should be submitted by Friday August 29th.** Questions received after may not be answered. Only questions answered by formal written addenda will be binding. Oral and other interpretations or clarifications will be without legal effect. Addenda may also be issued to modify the Project Documents as deemed advisable by Owner.

INSTRUCTIONS FOR PROPOSALS

3. **CONTRACT TIME & DURATION:** Formal Award will be following formal approval at the soonest available City Council Meeting following the opening of proposals; Council meetings are held the 1st and 3rd Monday of each month.

The City seeking for work to be performed over the winter months, but requires work to be completed by no later than April 30th 2026.

4. **LIQUIDATED DAMAGES:** n/a
5. **SUBSTITUTE OR “OR-EQUAL” ITEMS:** Any substitutions from the Vendor’s proposal or documents for consumable products implemented and scope &/or schedule of services are subject to the approval of the by the City’s FM at padams@geneva.il.us.
6. **SUBMISSION:** All proposals must include the required PROPOSAL form included with the Project Documents and the required written narrative explanation of the bidder’s submission. All blanks on the Form must be completed using the fillable PDF version, by ink, or typewriter. The Bidder’s proposal shall contain an acknowledgement of receipt of all Addenda (the numbers of which must be filled in on the Proposal Form).
7. **MODIFICATION AND WITHDRAWL OF PROPOSALS:** Proposals may be modified or withdrawn by an appropriate document duly executed (in the manner the proposal must be executed) and delivered to the place where proposals are to be submitted at any time prior to the opening of proposals.

If, within twenty-four hours after proposals are opened, any Vendor files a duly signed, written notice with Owner and promptly thereafter demonstrates to the reasonable satisfaction of Owner that there was a material and substantial mistake in the preparation of its proposal, that Vendor may withdraw its proposal and the vendor’s security will be returned.

8. All proposals shall remain open for sixty days after the day of the opening of proposals.
9. **BID BOND/DEPOSIT:** Each Proposal must be accompanied by a Bid Bond or a certified check issued by a bank that is a member of the Federal Deposit Insurance Corporation, payable to the order of the City of Geneva, in an amount equal to ten percent (10%) of the maximum Bid price. Each Bidder agrees, provided its Proposal is one of the three low Proposals, that, by filing its Proposal together with such Bid Bond or check in consideration of the Owner's receiving and considering such Proposal, said Proposal shall be firm and binding upon each such Bidder and such Bid Bond or check shall be held by the Owner until a Proposal is accepted and a satisfactory Contractor's bond is furnished by the successful Bidder, or for a period not to exceed sixty (60) days from the date hereinbefore set for the opening of Proposals, whichever period shall be the shorter. If such Proposal is not one of the three low Proposals, the Bid Bond or check will be returned in each instance within a period of ten (10) days to the Bidder furnishing same.
10. **CONTRACTOR'S BOND:** The successful vendor will be required to compute three additional counterparts of the Proposal and to furnish a Contractor's Bond (Performance and Payment) in triplicate in the form attached hereto with sureties listed by the United States Treasury Department as Acceptable Sureties, in a penal sum not less than the Contract price. Should the successful vendor fail or refuse to compute such counterparts or to furnish a Contractor's Bond within ten (10) days after written notification of the acceptance of the Proposal by the Owner, the Vendor will be considered to have abandoned the Proposal.

INSTRUCTIONS FOR PROPOSALS

11. **AWARD OF CONTRACT:** Owner reserves the right to reject any and all Proposals, to waive any and all informalities and to negotiate contract terms with the Successful Vendor, and the right to disregard all nonconforming, non-responsive or conditional proposals. Discrepancies between words and figures will be resolved in favor of words. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.

12. **EVALUATION:** Owner shall consider the qualifications of the Vendors, whether or not the Proposals comply with the prescribed requirements, and alternates and unit prices if requested in the proposal.

Owner may consider the qualifications and experience of Subcontractors and other persons and organizations (including those who are to furnish the principal items of material or equipment) proposed for those portions of the Work as to which the identity of Subcontractors and other persons and organizations must be submitted as provided in the Supplementary Conditions. Operating costs, maintenance considerations, performance data and guarantee of materials and equipment may also be considered by Owner.

Owner may conduct such investigations as deemed necessary to assist in the evaluation of any proposal and to establish the responsibility, qualifications and financial ability of the Vendors, proposed Subcontractors and other persons and organizations to do the work in accordance with the Contract Documents to Owner's satisfaction within the prescribed time.

Owner reserves the right to reject the proposal of any Vendor who does not pass any such evaluation to Owner's satisfaction.

A conditional or qualified proposal will not be accepted.

13. **AWARD:** If the contract is to be awarded it will be awarded to the low, responsive, responsible Vendor whose evaluation by Owner indicates that the award will be in the best interests of the Owner.

If the contract is to be awarded, Owner will give the Successful Vendor a Notice of Award within sixty days after the day of the proposal's opening.

14. **SIGNING OF AGREEMENT:** When Owner gives a Notice of Award to the Successful Vendor, at least three unsigned counterparts of the Agreement and all other Contract Documents will accompany it. Within fifteen days thereafter Contractor shall sign and deliver at least three counterparts of the Agreement to Owner with all other Contract Documents attached. Within ten days thereafter Owner will deliver all fully signed counterparts to Contractor.

PROPOSAL FORM

The following proposal is hereby made to the **City of Geneva, Illinois**, hereinafter called the Owner.
 Proposal is submitted in duplicate by _____

The undersigned hereby proposes and agrees to furnish all the necessary labor, materials, equipment, tools and services necessary to perform the Water Treatment Plant “CHEMICAL ROOM RE-COATING RE-BID 2025” in accordance with the Specifications and Procedural documents attached.

In submitting this proposal, the undersigned declares that the only persons or parties interested in the Proposal as principals are those named herein and that the Proposal is made without collusion with any other person, firm, or corporation.

The Undersigned acknowledges receipt of the following Addenda.

Addendum No.	Date	Initials
_____	_____	_____
_____	_____	_____
_____	_____	_____

The Undersigned declares that they have examined the Contract Documents and are familiar with the local conditions at the site where the work is to be performed and with the conditions affecting the Contract requirements and understands that in making this Proposal, they waive all right to plead any misunderstanding regarding the same.

The undersigned further agrees prosecute the work in such a manner and with sufficient materials, equipment, and labor as will ensure its completion by the 4/30/2026 completion date, it being understood and agreed that the completion within the time limit is an essential part of the Contract.

On (a) separate sheet(s), provide a written narrative explaining what products will be implemented, the preparation and installation/application process, and expected timeframe for when and how long work transpire.

INCOMPLETE SUBMISSIONS WILL BE CONSIDRED GROUNDS FOR DISQUALIFICATION

Total Bid Price to Prepare and Re-Coat	
Surface Preparation & Re-coating of ARCHITECTURAL & STRUCTURAL COMPONENTS & HAC Ductwork. This includes Walls, Ceilings, Structural Steel, Pedestrian Doors & Frames, Handrails & HVAC Ductwork.	
Surface Preparation & Re-coating of ALL Chemical Treatment Related Equipment, Pipes, Ducts, Tanks, Structural Supports, Conduit, etc. in the Chemical Room requiring coating(s).	

PRODUCT AND APPLICATION SPECIFICATIONS

Section 09940

PROTECTIVE COATINGS

PART 1 - GENERAL

1-1. SCOPE. This section covers field applied protective coatings, including surface preparation, protection of surfaces, inspection, and other appurtenant work for equipment and surfaces designated to be coated with heavy duty maintenance coatings. Regardless of the number of coats previously applied, at least two field coats in addition to any shop coats or field prime coats shall be applied to all surfaces unless otherwise specified.

1-1.01. Terminology. When the phrase "as required" is stated in this section it shall mean "as required in the attached Data Sheet".

1-2. GENERAL. Cleaning, surface preparation, coating application, and thickness shall be as specified herein and shall meet or exceed the coating manufacturer's recommendations. When the manufacturer's minimum recommendations exceed the specified requirements, CONTRACTOR shall comply with the manufacturer's minimum recommendations. When equivalent products are acceptable to ENGINEER, CONTRACTOR shall comply with this specification and the coating manufacturer's recommendations.

1-2.01. Governing Standards. All cleaning, surface preparation, coating application, thickness, testing, and coating materials (where available) shall be in accordance with the referenced standards of the following American Water Works Association (AWWA), American National Standard Institute (ANSI), NACE International (NACE), SSPC: The Society for Protective Coating (SSPC), NSF International (NSF), and ASTM requirements.

1-2.02. Delivery and Storage. All coating products shall be received and stored in accordance with the coating manufacturer's recommendations.

1-3. SUBMITTALS. CONTRACTOR shall submit color cards for all coatings proposed for use, together with complete descriptive specifications and the completed Coating System Data Sheets, to ENGINEER for review and color selection. Requests for review submitted directly to ENGINEER by coating suppliers will not be considered.

When the proposed products will be in contact with treated or raw water in potable water treatment facilities, CONTRACTOR shall submit certifications that the proposed systems are in compliance with ANSI/NSF 61.

PRODUCT AND APPLICATION SPECIFICATIONS

CONTRACTOR shall submit a Coating System Data Sheet for each separately identified surface in the Coating Schedule that will be used on the contract, ~~using the appropriate Coating System Data Sheet forms (Figures 1-09940 and 2-09940) at the end of this section.~~ Each field coating system shall be acceptable to the coating material manufacturer. Each Coating System Data Sheet shall include application temperature requirements including recoat window requirements for the ambient conditions at the site, including elevated temperatures up to 130°F [54°C]. Temperature requirements shall be specified by the coating manufacturer.

Each proposed coating system shall be assigned a unique number with a prefix letter based on the following:

Prefix	Surfaces	Figure
A	Iron and steel	2
C	Concrete and concrete block	1
E	Equipment - submerged nonsubmerged	1 2
F	Nonferrous metal	1
G	Galvanized	1
H	High temperature	1
P	PVC and FRP	1

Each coating system that will be applied entirely in the field shall be assigned only a prefix letter and no suffix letter. When appropriate under the indicated conditions, the following suffix shall be added to the coating system numbers:

- F Each shop-applied coating system that includes a finish coat applied in the field.

A separate Coating System Data Sheet shall be developed and submitted for each variation or change in a coating system or surface to be coated.

The manufacturer's standard colors will be acceptable for all coatings.

PRODUCT AND APPLICATION SPECIFICATIONS

1-4. QUALITY ASSURANCE.

1-4.01. Coating System Data Sheet Certifications. The coating applicator and coating manufacturer shall review and approve in writing the coating manufacturer's written recommendations for the coating system and the intended service. Any variations from the specifications or the coating manufacturers published recommendations shall be submitted in writing and approved by the coating manufacturer. The coating manufacturer shall observe the surface preparation, mixing, and application of the protective coating systems and submit a written report of what has been observed and any additional recommendations.

1-4.02. Special Interior Coating Systems. Not Used

PART 2 - PRODUCTS

2-1. ACCEPTABLE MANUFACTURERS.

2-1.01. Alternative Manufacturers. In addition to the coatings listed herein, equivalent coatings of the following manufacturers will also be acceptable:

ICI Devoe	Rust-Oleum
Plasite	PPG
Sigma	

2-1.02. Equivalent Coatings. Whenever a coating is specified by the name of a proprietary product or of a particular manufacturer or vendor, the specified coating shall be understood as establishing the type and quality of coating desired. Other manufacturers' coatings will be accepted, provided that sufficient information is submitted to enable ENGINEER to determine that the proposed coatings are equivalent to those named. Information on proposed coatings shall be submitted for review in accordance with the submittals section. Requests for review of equivalency will be accepted only from CONTRACTOR, and will be considered only after the contract has been awarded.

2-2. MATERIALS. All coatings shall be delivered to the job in original unopened containers with labels intact. Coatings shall be stored indoors and shall be protected against freezing. No adulterant, unauthorized thinner, or other material not included in the coating formulation shall be added to the coating for any purpose.

PRODUCT AND APPLICATION SPECIFICATIONS

All coatings shall conform to the air quality regulations applicable at the location of use. Coating materials that cannot be guaranteed by the manufacturer to conform, whether or not specified by product designation, shall not be used.

CONTRACTOR shall be responsible for ensuring the compatibility of field coatings with each other or with the coatings on shop coated or previously coated surfaces. Coatings used in successive field coats shall be produced by the same manufacturer. Coatings used in the first field coat over shop coated or previously coated surfaces shall cause no wrinkling, lifting, or other damage to underlying coats.

All coatings used on surfaces that will be in contact with potable or treated water shall be certified as being in compliance with ANSI/NSF 61. Coatings that cannot be so certified, whether or not specified by manufacturer and by product designation, shall not be used.

2-2.01 Primers.

Universal Primer	Ameron "Amercoat 385 Epoxy", Carboline "Carboguard 888 Primer", Tnemec "Series 27 F.C. Typoxy", or Sherwin-Williams "Macropoxy 646".
Epoxy Concrete Block Filler	Ameron "Amerlock 400BF Epoxy Block Filler", Plasite "9029 Filler", Tnemec "Series 54-660", or Sherwin-Williams "Kem Cati-Coat HS".
Epoxy Concrete Filler and Surfacer	Tnemec "Series 63-1500", Ameron NuKlad 114A.

PRODUCT AND APPLICATION SPECIFICATIONS

2-2.02. Intermediate and Finish Coatings.

Epoxy Enamel (NSF certified systems)

<p>Ferrous Metal Surfaces, and Concrete Surfaces in Contact with Treated or Raw Water in Potable Water Facilities</p>	<p>Ameron "Amerlock 400 High-Solids Epoxy Coating", Carboline "Carboguard 891", Tnemec "Series N140 Pota-Pox Plus", or Sherwin-Williams "Macropoxy 646NSF"; immersion service.</p>
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Epoxy Enamel

<p>Concrete Floors</p>	<p>Ameron "Amercoat 385 Epoxy", Carboline "Carboguard 890", or Tnemec "Series N69 Hi-Build Epoxoline II", or Sherwin-Williams "Armorseal 1000HS"; nonskid.</p>
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<p>Ferrous Metal Surfaces, and Masonry or Concrete Surfaces Other Than Floors</p>	<p>Ameron "Amercoat 385 Epoxy", Carboline "Carboguard 890", Tnemec "Series N69 Hi-Build Epoxoline II", or Sherwin-Williams "Macropoxy 646".</p>
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Aliphatic Polyurethane

Ameron "Amercoat 450HS", Carboline "Carbothane 134HG", Tnemec "Series 1074 Endura-Shield II", or Sherwin-Williams "Acrolon 218HS".

Coal Tar Epoxy

High-build coal tar epoxy; Ameron "Amercoat 78HB Coal Tar Epoxy", Carboline "Bitumastic 300 M", Tnemec "46H-413 Hi-Build Tneme-Tar", or Sherwin-Williams "Hi-Mil Sher-Tar Epoxy".

Medium Consistency Coal Tar

Carboline "Bitumastic 50" or Tnemec "46-465 H.B. Tnemecol".

Vinyl Ester

Tnemec "Series 120 Vinester" or Sherwin-Williams "Magnalux 304FF".

PRODUCT AND APPLICATION SPECIFICATIONS

Heat-Resistant	Suitable for temperatures up to 400°F [207°C]; Ameron "Amerlock 400", Tnemec "43-38H Diffused Aluminum", or Sherwin-Williams "Silver-Brite Aluminum".
High Heat-Resistant	Suitable for temperatures up to 1000°F [537°C]; Ameron "Amercoat 878". Tnemec "Series 39 Silicone Aluminum" or Sherwin-Williams "Silver-Brite Hi-Heat Silicone Aluminum".

PART 3 - EXECUTION

3-1. SURFACE PREPARATION. All surfaces to be coated shall be clean and dry and shall meet the recommendations of the coating manufacturer for surface preparation. Freshly coated surfaces shall be protected from dust and other contaminants. Oil and grease shall be completely removed by use of solvents or detergents before mechanical cleaning is started. The gloss of previously coated surfaces shall be dulled if necessary for proper adhesion of topcoats.

Surfaces shall be free of cracks, pits, projections, or other imperfections that would interfere with the formation of a smooth, unbroken coating film, except for concrete block construction where a rough surface is an inherent characteristic.

When applying touchup coating or repairing previously coated surfaces, the surfaces to be coated shall be cleaned as recommended by the coating manufacturer and the edges shall be sanded or wire brushed to provide a feathered or otherwise smoothed so that they will not be noticeable after they are coated. All coatings made brittle or otherwise damaged by heat of welding shall be completely removed.

3-1.01. Galvanized Surfaces. Galvanized surfaces shall be prepared for coating in conformity with the instructions of the manufacturer of the epoxy enamel. Any chemical treatment of galvanized surfaces shall be followed by thorough rinsing with clean water.

3-1.02. Ferrous Metal Surfaces. Ungalvanized ferrous metal surfaces shall be prepared for coating by cleaning using one or more of the following methods as specified: solvents (SSPC-SP1); blasting (SSPC-SP5, -SP6, -SP7, or -SP10); power tools (SSPC-SP3 or -SP11); or hand tools (SSPC-SP2). Oil and grease shall be completely removed in accordance with SSPC-SP1 before beginning any other cleaning method. Surfaces of welds shall be scraped and ground as

PRODUCT AND APPLICATION SPECIFICATIONS

necessary to remove all slag and weld spatter. Tools which produce excessive roughness shall not be used.

All components of equipment that can be properly prepared and coated after installation shall be installed prior to surface preparation. Components of equipment that will be inaccessible after installation shall have the surfaces prepared and coated prior to installation. Motors, drive trains, and bearings shall be protected during surface preparation in accordance with the equipment manufacturer's recommendations.

All cut or sheared edges shall be ground smooth to a 1/8 inch [3 mm] minimum radius for all material 1/4 inch [6 mm] thickness and larger. For material thickness less than 1/4 inch [6 mm] all cut or sheared edges shall be ground smooth to a radius equal to 1/2 the material thickness. Grinding of rolled edges on standard shapes with a minimum radius of the 1/16 inch [1.5 mm] will not be required.

All ferrous metal surfaces shall have all welds ground smooth and free of all defects in accordance with NACE Standard RPO178, Appendix C, Designation C and sharp edges ground smooth, if not previously prepared in the shop. Instead of blending of the weld with the base metal as required by the NACE standard, it will be acceptable to furnish a welded joint that has a smooth transition of the weld to the base metal. All welds shall be ground smooth to ensure satisfactory paint adhesion.

The cleaning methods and surface profiles specified herein are minimums, and if the requirements printed in the coating manufacturer's data sheets exceed the limits specified, the value printed on the data sheets shall become the minimum requirement.

3-1.02.01. Ferrous Metal Surfaces - Nonimmersion Service. Ferrous metal surfaces, including fabricated equipment, in nonimmersion service shall be cleaned to the degree recommended by the coating manufacturer for surfaces to be coated with coal tar epoxy, epoxy enamel, and heat-resistant coatings, except galvanized surfaces. Blast cleaning to at least SSPC-SP6 shall be used where recommended by the coating manufacturer, and may be used elsewhere at the option of CONTRACTOR, provided that no dust is permitted to settle on adjacent wet coating. Surface profile shall be as recommended by coating manufacturer, but not less than 2 mils [50 µm].

3-1.02.02. Ferrous Metal Surfaces - Immersion Service. Surface preparation of ferrous metal surfaces in immersion service shall consist of blast cleaning to at least SSPC-SP10 and the first application of coating shall be performed on the same day. If more surface area is prepared than can be coated in one day, the uncoated area shall be blast cleaned again to the satisfaction of ENGINEER.

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Surface profile shall be as recommended by coating manufacturer, but not less than 3.5 mils [88 μm].

3-1.03. Concrete Surfaces. All concrete surfaces shall be free of objectionable substances and shall meet the coating manufacturer's recommendations for surface preparation. Any other surface preparation recommended by the coating material manufacturer shall be brought to ENGINEER's attention and may be incorporated into the work if acceptable to ENGINEER.

All concrete surfaces shall be dry when coated and free from dirt, dust, sand, mud, oil, grease, and other objectionable substances. Oil and grease shall be completely removed by use of solvents or detergents before mechanical cleaning is started.

New concrete shall have cured for at least 4 weeks before coating is applied as recommended by the material manufacturer. Concrete surfaces shall be tested for capillary moisture in accordance with ASTM D4263. There shall be no capillary moisture when coatings are applied on concrete.

All surfaces to be coated shall be cleaned in accordance with ASTM D4258 and abraded in accordance with ASTM D4259. Surface profile shall be at least 25 percent of the dry film thickness specified for the coating system. Prior to application of the coating, the surfaces shall be thoroughly washed or cleaned by air blasting to remove all dust and residue. Spalled areas, voids, and cracks shall be repaired in accordance with the concrete section and as acceptable to the ENGINEER. Fins and other surface projections shall be removed to provide a flush surface before application of coating.

Except where epoxy enamel is applied as dampproofing, the concrete surfaces, including those with bug holes less than 1 inch [25 mm] in any dimension, shall be prepared when required and as recommended by the manufacturer, using an epoxy concrete filler and surfacer.

3-1.04. Concrete Block Surfaces. Voids and openings in concrete block surfaces shall be pointed. All exposed exterior surfaces and surfaces to be coated with epoxy enamel, including the joints, shall be filled so that a continuous unbroken coating film is obtained.

3-1.05. Copper Tubing. All flux residue shall be removed from joints in copper tubing. Immediately before coating is started, tubing shall be wiped with a clean rag soaked in xylol.

3-1.06. Plastic Surfaces. All wax and oil shall be removed from plastic surfaces that are to be coated, including PVC and FRP, by wiping with a solvent compatible with the specified coating.

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3-1.07. Hardware. Hardware items such as bolts, screws, washers, springs, and grease fittings need not be cleaned prior to coating if there is no evidence of dirt, corrosion, or foreign material.

3-1.08. Aluminum. When a coating system is required, remove all oil or deleterious substance with neutral detergent or emulsion cleaner or blast lightly with fine abrasive.

3-2. MIXING AND THINNING. Coating shall be thoroughly mixed each time any is withdrawn from the container. Coating containers shall be kept tightly closed except while coating is being withdrawn.

Coating shall be factory mixed to proper consistency and viscosity for hot weather application without thinning. Thinning will be permitted only as necessary to obtain recommended coverage at lower application temperatures. In no case shall the wet film thickness of applied coating be reduced, by addition of coating thinner or otherwise, below the thickness recommended by the coating manufacturer. Thinning shall be done in compliance with all applicable air quality regulations.

3-3. APPLICATION. Coating shall be applied in a neat manner that will produce an even film of uniform and proper thickness, with finished surfaces free of runs, sags, ridges, laps, and brush marks. Each coat shall be thoroughly dry and hard before the next coat is applied. In no case shall coating be applied at a rate of coverage greater than the maximum rate recommended by the coating manufacturer.

Coating failures will not be accepted and shall be entirely removed down to the substrate and the surface recoated. Failures include but are not limited to sags, checking, cracking, teardrops, fat edges, fisheyes, or delamination.

3-3.01. Priming. Edges, corners, crevices, welds, and bolts shall be given a brush coat (stripe coat) of primer before application of the primer coat. The stripe coat shall be applied by a brush and worked in both directions. Special attention shall be given to filling all crevices with coating.

Abraded and otherwise damaged portions of shop-applied coating shall be cleaned and recoated as recommended by the manufacturer of the finish coating. Welded seams and other uncoated surfaces, heads and nuts of field-installed bolts, and surfaces where coating has been damaged by heat shall be given a brush coat of the specified primer. Before the specified spot or touchup coating of metal surfaces, edges, corners, crevices, welds, and bolts in the area of the spot or touchup coating shall be given a brush coat of primer. This patch, spot, or touchup coating shall be completed, and the paint film shall be dry and hard, before additional coating is applied.

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3-3.02. Epoxy Enamel. When used, epoxy enamel shall be applied in accordance with the coating manufacturer's recommendations, including temperature limitations and protection from sunlight until topcoated.

When concrete is to be coated, coatings shall not be applied to concrete surfaces in direct sunlight or when the temperature of the concrete is rising. Preferably the coating shall be applied when the temperature of the concrete is dropping.

When applying high build epoxy coatings with a roller or brush and where a dry film thickness of at least 4-6 mils [100-150 μm] per coat is required, two or more coats shall be applied to achieve the recommended dry film thickness equal to a spray applied coating.

3-3.03. Coal Tar Epoxy. When used, the application of coal tar epoxy, including time limits for recoating, shall conform to the recommendations of the coating manufacturer.

When concrete is to be coated, coatings shall not be applied to concrete surfaces in direct sunlight or when the temperature of the concrete is rising. Preferably the coating shall be applied when the temperature of the concrete is dropping.

3-3.04. Vinyl Ester. When used, the application of vinyl ester coating system, including time limits for recoating and temperature requirements of the materials, shall conform to the recommendations of the coating manufacturer.

3-3.05. Film Thickness. The total coating film thickness including intermediate coats and finish coat, shall be not less than the following:

<u>Type of Coating</u>	<u>Minimum Dry Film Thickness</u>
Medium consistency coal tar	20 mils [500 μm].
Coal tar epoxy	15 mils [375 μm].
Epoxy enamel	
Floors	5 mils [125 μm].
Surfaces with first coat of epoxy enamel and final coat of aliphatic polyurethane	7 mils [175 μm] (5 mils [125 μm] DFT for epoxy plus 2 mils [50 μm] DFT for aliphatic polyurethane).

PRODUCT AND APPLICATION SPECIFICATIONS

<u>Type of Coating</u>	<u>Minimum Dry Film Thickness</u>
Surfaces with first and second coat of epoxy enamel and final coat of aliphatic polyurethane	12 mils [300 μm] (10 mils [250 μm] DFT for epoxy plus 2 mils [50 μm] DFT for aliphatic polyurethane).
Other surfaces (two coats)	10 mils [250 μm].
Immersion service (three coats)	15 mils [375 μm].
Vinyl ester	30 mils [750 μm].
Heat-resistant	3 mils [75 μm].
High heat-resistant	3 mils [75 μm].
Other surfaces (one coat)	5 mils [125 μm].
Other surfaces (two coats)	10 mils [250 μm].

3-3.06. Weather Conditions. Coatings shall not be applied, except under shelter, during wet, damp, or foggy weather, or when windblown dust, dirt, debris, or insects will collect on freshly applied coating.

Coatings shall not be applied at temperatures lower than the minimum temperature recommended by the coating manufacturer, or to metal surfaces such as tanks or pipe containing cold water, regardless of the air temperature, when metal conditions are likely to cause condensation. When necessary for proper application, a temporary enclosure shall be erected and kept heated until the coating has fully cured.

Coatings shall not be applied at temperatures higher than the maximum temperature recommended by the coating manufacturer. Where coatings are applied during periods of elevated ambient temperatures, CONTRACTOR and the coatings manufacturer shall be jointly responsible to ensure that proper application is performed including adherence to all re-coat window requirements. Precautions shall be taken to reduce the temperature of the surface application, especially for metal, at elevated temperatures above 100°F [38°C] including shading application area from direct sunlight, applying coating in the evening or at night, and ventilating the area to reduce the humidity and temperature,

Vinyl ester coating materials, when required, shall be maintained during transportation, storage, mixing, and application at the temperature required by the coating manufacturer, 35°F [2°C] to 90°F [32°C].

PRODUCT AND APPLICATION SPECIFICATIONS

3-4. REPAIRING FACTORY FINISHED SURFACES. Factory finished surfaces damaged prior to acceptance by OWNER shall be spot primed and recoated with materials equivalent to the original coatings. If, in the opinion of ENGINEER, spot repair of the damaged area is not satisfactory, the entire surface or item shall be recoated.

3-5. PROTECTION OF SURFACES. Throughout the work CONTRACTOR shall use drop cloths, masking tape, and other suitable measures to protect adjacent surfaces. CONTRACTOR shall be responsible for correcting and repairing any damage resulting from its or its subcontractors' operations. Coatings spilled or spattered on adjacent surfaces which are not being coated at the time shall be immediately removed. Exposed concrete or masonry not specified to be coated which is damaged by coatings shall be either removed and rebuilt or, where authorized by OWNER, coated with two coats of masonry coating.

3-6. FIELD QUALITY CONTROL. The following inspection and testing shall be performed: visual inspection, surface profile, and wet and dry film thickness. All inspection and testing shall be witnessed by ENGINEER.

3-6.01. Surface Profile Testing. The surface profile for ferrous metal surfaces shall be measured for compliance with the specified minimum profile. The surface profile for concrete shall comply with SSPC 13/NACE 6 Table 1 for severe service.

3-6.02. Visual Inspection. The surface of the protective coatings shall be visually inspected.

3.6.03. Film Thickness. Coating film thickness shall be verified by measuring the film thickness of each coat as it is applied and the dry film thickness of the entire system. Wet film thickness shall be measured with a gauge that will measure the wet film thickness within an accuracy of ± 0.5 mil [$12.5 \mu\text{m}$]. Dry film thickness shall be measured in accordance with SSPC-PA 2.

3-6.04. Spark Testing. Not Used

3-6.05. Adhesion Testing. Not Used

3-7. FIELD PRIMING SCHEDULE. In general, steel and cast iron surfaces of equipment are specified to be shop primed. Any such surfaces which have not been shop primed shall be field primed. Damaged or failed shop coatings which have been determined unsuitable by ENGINEER shall be removed and the surfaces shall be field coated, including prime coat (if any). Galvanized, aluminum, stainless steel, and insulated surfaces shall be field primed. Primers used for field priming, unless otherwise required for repair of shop primers, shall be:

PRODUCT AND APPLICATION SPECIFICATIONS

<u>Surface To Be Primed</u>	<u>Material</u>
Equipment, surfaces to be coated with	
Aliphatic polyurethane	Universal primer.
Epoxy enamel	Same as finish coats.
Coal tar coating	Same as finish coats.
Vinyl ester	Same as finish coats.
Steel and cast iron, surfaces to be coated with	
Epoxy enamel	Same as finish coats.
Coal tar coating	Same as finish coats.
Aluminum	Epoxy enamel.
Galvanized	Epoxy enamel.
Copper	Epoxy enamel.
Stainless steel	Epoxy enamel.
Plastic surfaces, including PVC and FRP	Same as finish coats.
Insulated piping	As recommended by manufacturer of finish coats.
Concrete, surfaces to be coated with epoxy enamel	
For dampproofing	Epoxy enamel.
For all other surfaces	Epoxy concrete filler and surfacer.
Concrete block exposed in exterior locations	Epoxy concrete block filler.
Concrete block to be coated with epoxy enamel	Epoxy concrete block filler.

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Unless otherwise recommended by the coating manufacturer or specified herein, priming will not be required on concrete, or concrete block, nor on metal surfaces specified to be coated with epoxy enamel, coal tar epoxy, and heat-resistant coatings. Concrete surfaces to be coated with epoxy enamel shall be filled with epoxy concrete filler and surfacer so that a continuous film is obtained, except where concrete is dampproofed with epoxy enamel.

3-8. FINISH COATING SYSTEMS. The following schedule lists coatings systems and coating system designations.

No.	Finish Coating Systems	Coating System Designation						
		A	C	E	F	G	H	P
1.	Epoxy enamel – One coat	x			x	x		
2.	Epoxy enamel – Two coats	x	x	x	x	x		x
3.	Epoxy enamel / NSF – Two coats		x	x				
4.	Epoxy enamel – Three coats	x	x	x				
5.	Epoxy enamel / NSF – Three coats		x	x				
6.	Epoxy enamel – First coat Aliphatic polyurethane – Finish coat	x	x	x	x	x		x
7.	Epoxy enamel – First and second coat Aliphatic polyurethane – Finish coat			x	x	x		
8.	Universal primer – First coat Aliphatic polyurethane – Finish coat	x		x				
9.	Medium consistency coal tar – Two coats	x	x	x				
10.	Coal tar epoxy – One coat	x		x				
11.	Vinyl ester – Two coats			x				
12.	Heat resistant – Two coats						x	
13.	High heat resistant – Two coats						x	

PRODUCT AND APPLICATION SPECIFICATIONS

3-8.01. Surfaces Not To Be Coated. Unless otherwise specified, the following surfaces shall be left uncoated:

Exposed aluminum, except ductwork.

Polished or finished stainless steel. Unfinished stainless steel, except flashings and counter flashings, shall be coated.

Nickel or chromium.

Galvanized surfaces, except piping, conduit, ductwork, and other items specifically noted.

Rubber and plastics, except as specified.

Exterior concrete.

Surfaces specified to be factory finished.

3-8.02. Shop Finishing. Items to be shop finished include the following. Shop finishing shall be in accordance with the coating schedule and the manufacturer's recommendations.

- a. All slide gates.
- b. All conveyors.
- c. Other surfaces where blast cleaning cannot be or is not recommended to be performed in the field.
- d. Other items as otherwise specified.

3-8.03. Field Coating. Items to be field coated include the following. Field coating shall be in accordance with the field priming schedule, the coating schedule, and the manufacturer's recommendations.

- a. Exterior surface of the sludge hopper.
- b. Surfaces not indicated to be shop finished and surfaces where blast cleaning can be performed in the field.
- c. All interior ferrous metal surfaces except stainless steel on the digester cover.
- d. Other items as otherwise specified.

PRODUCT AND APPLICATION SPECIFICATIONS

3-9. PIPING IDENTIFICATION SCHEDULE. Exposed piping and piping in accessible chases shall be identified with lettering or tags designating the service of each piping system, shall be marked with flow directional arrows, and shall be color coded as required. **Color Schedule to be Verified with On-Site City Personnel**

Piping scheduled to be color coded shall be completely coated with the indicated colors, except surfaces specified to remain uncoated shall include sufficiently long segments of the specified color to accommodate the lettering and arrows. All other piping shall be coated to match adjacent surfaces, unless otherwise directed by ENGINEER.

3-9.01. Location. Lettering and flow direction arrows shall be provided on pipe near the equipment served, adjacent to valves, on both sides of wall and floor penetrations, at each branch or tee, and at least every 50 feet [15 m] in straight runs of pipe. If, in the opinion of ENGINEER, this requirement will result in an excessive number of labels or arrows, the number required shall be reduced as directed.

3-9.02. Metal Tags. Where the outside diameter of pipe or pipe covering is 5/8 inch [15 mm] or smaller, aluminum or stainless steel tags shall be provided instead of lettering. Tags shall be stamped as specified and shall be fastened to the pipe with suitable chains. Pipe identified with tags shall be color coded as specified.

3-9.03. Lettering. Lettering shall be painted or stenciled on piping or shall be applied as snap-on markers. Snap-on markers shall be plastic sleeves, Brady "Bradysnap-On B-915" or Seton "Setmark". Letter size shall be as follows:

<u>Outside Diameter of Pipe or Covering</u>	<u>Minimum Height of Letters</u>
5/8 inch [15 mm] and smaller	Metal tags -1/4 inch [6 mm]
3/4 to 4 inches [20 to 100 mm]	3/4 inch [20 mm]
5 inches [125 mm] and larger	2 inches [50 mm]

3-9.04. Color Coding and Lettering. As required, all piping for the following services shall be color coded. Bands shall be 6 inches [150 mm] wide spaced along the pipe at 5 foot [1,500 mm] intervals. For services not listed, the color coding and lettering shall be as directed by the ENGINEER.

PRODUCT AND APPLICATION SPECIFICATIONS

Piping Identification		
Service	Color of Pipe	Color of Letters
Potable Water (hot or cold)	Light blue	Black
Nonpotable or Raw Water	Light blue with white bands	Black
Distilled Water	Light Blue with white bands	Red
Service Water (lines downstream from an air gap repump system)	Dark blue with red bands	White
Settled Sewage Service Water	Dark blue with orange bands	White
Compressed Air	Light green	Black
Low Pressure Air (aeration supply)	Light green	Black
Instrument Air	Light green with dark green bands	Black
Combustion Air	Dark green	White
Laboratory Vacuum	Dark green with light green bands	Red
Odor Control	Dark green with light brown bands	White
Vacuum Pump Discharge	Aluminum	Black
Fuel Oil	Black	White
Gasoline	Black with red bands	White
Oil - Hydraulic	Black with white bands	White
Grease	Black with yellow bands	White
Other Hydrocarbons (identify)	Black	White

PRODUCT AND APPLICATION SPECIFICATIONS

Piping Identification		
Service	Color of Pipe	Color of Letters
Heating Water (supply)	Light gray with black bands	Black
Steam	Light gray with orange bands	Black
Condensate	Light gray with brown bands	Black
Steam Vent	Light gray with red bands	Black
Chilled Water (return)	Dark brown with red bands	White
Sewage	Light gray	Black
Settled Sewage	Light gray with brown bands	Black
Sludge	Light brown	White
Heated Sludge	Light brown with yellow bands	White
Scum	Dark brown	White
Filtrate	Dark gray with red bands	White
Drain	Dark gray	White
Ash	Dark gray with green bands	White
Sample	Light gray with green bands	Black
Electrolyte	Aluminum with red bands	Black
Lime Sludge	Light brown with white bands	White
Lime Slurry	Light brown with green bands	White
Polymer	Light brown with red bands	White
Polyphosphate	Light brown with gray bands	White
Sodium Silica (solution)	Light brown with orange bands	White
Activated Silica (solution)	Light brown with blue bands	White

PRODUCT AND APPLICATION SPECIFICATIONS

Piping Identification		
Service	Color of Pipe	Color of Letters
Soda Ash (solution)	Light brown	Black
Chlorine (gas, liquid, or vent)	Yellow	Black
Chlorine (solution)	Yellow with red bands	Black
Liquid Alum	Yellow with orange bands	Black
Alum (solution)	Yellow with green bands	Black
Ammonia	Yellow with brown bands	Black
Hydrofluosilicic Acid	Yellow with blue bands	Black
Carbon Dioxide (liquid or gas)	Yellow with gray bands	Black
Carbon Dioxide (solution)	Yellow with black bands	Black
Refrigerant	Yellow with white bands	Black
Ferric Chloride	Orange	Black
Sulfur Dioxide	Orange with brown bands	Black
Sulfur Dioxide (solution)	Orange with blue bands	Black
Ozone	Orange with green bands	Black
Sodium Chlorite	Orange with red bands	Black
Potassium Permanganate	Orange with white bands	Black
Carbon	Black	White

Electrical conduit shall be coated to match adjacent ceiling or wall surfaces as directed by ENGINEER. Vent lines shall be coated to match surfaces they adjoin.

PRODUCT AND APPLICATION SPECIFICATIONS

In addition, special coating of the following items will be required:

<u>Item</u>	<u>Color</u>
Valve handwheels and levers	Red
Hoist hooks and blocks	Yellow and black stripes

Numerals at least 2 inches [50 mm] high shall be painted on or adjacent to all accessible valves, pumps, flowmeters, and other items of equipment which are identified on the drawings or in the specifications by number.

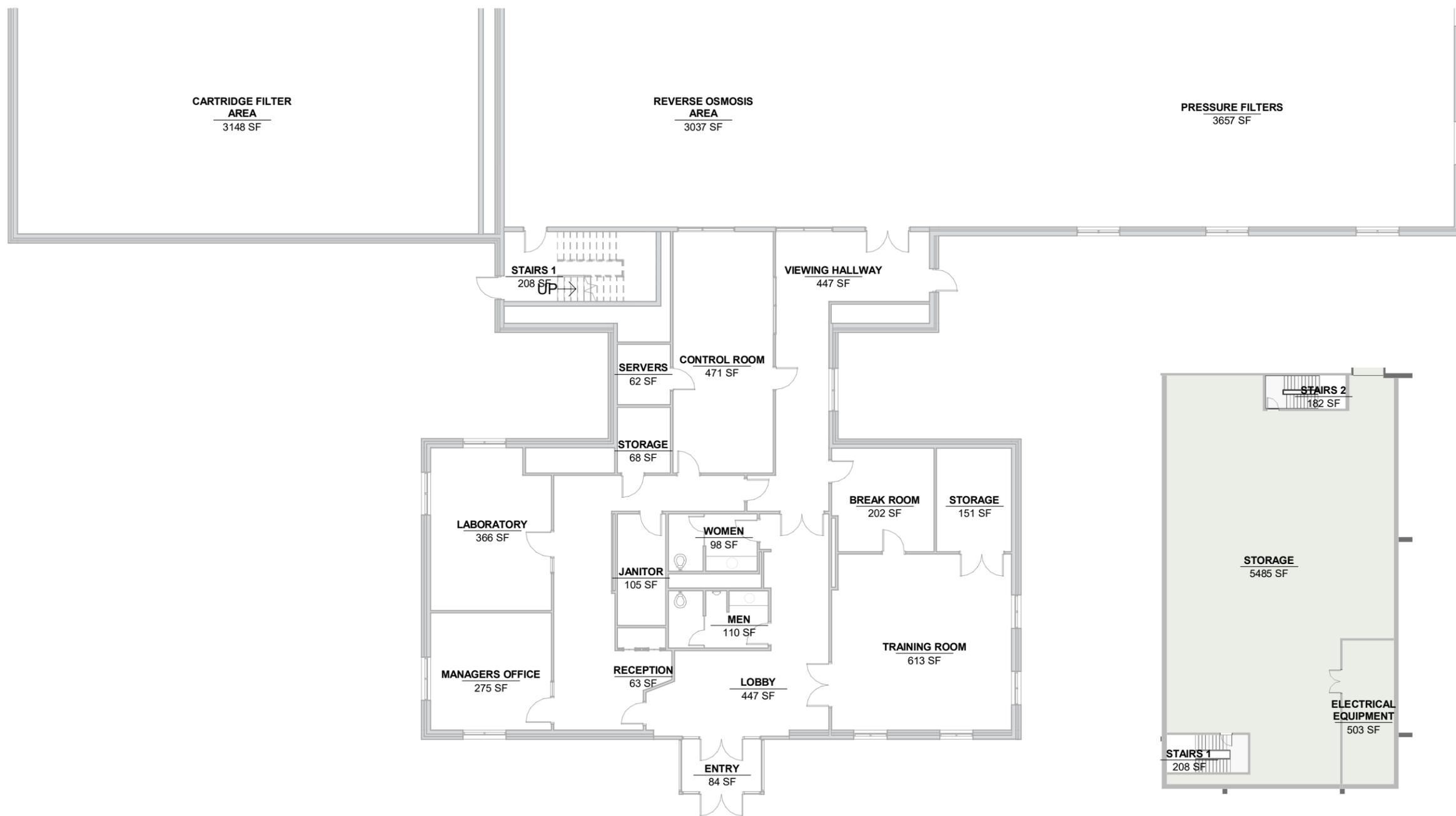
End of Section



① OPERATING FLOOR 1A - PROGRAM
 1/16" = 1'-0"

GENEVA - WATER TREATMENT PLANT
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① OPERATING FLOOR 1B - PROGRAM
1/16" = 1'-0"

② SECOND FLOOR - PROGRAM
1" = 30'-0"

FIRST FLOOR 1B & SECOND FLOOR - PROGRAM
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