DOCUMENT 00 00 11

ADDENDUM NO. 1
February 16, 2026

Wilderness WWTF Clarifier Refinishing Project
Rapidan Service Authority
Locust Grove, Virginia

SEH No. RAPSA 187118

From: Short Elliott Hendrickson Inc.
400 Locust Drive, Suite 2
Charlottesville, VA 22901
434.202.3780

To: Document Holders

DOCUMENT HOLDERS on the above-named project are hereby notified that this document shall be appended to, take precedence over and become part of the original bidding documents dated January 20, 2026 for this work. Bids submitted for the construction of this work shall conform to this document.

This addendum consists of two (2) pages plus the following:

- Pre-bid Meeting Agenda and sign in sheet.
- Revised Drawing C001
- Revised Specification 09 97 20 Coating System for Wastewater Facilities

Pre-Bid Meeting (Mandatory): In person meeting at Wilderness WWTF on February 6, 2025, at 1:00 AM EST.

1. Prebid meeting agenda is attached to this addendum for reference.
2. Prebid meeting attendance information provided below:

	Contact Name	Company Name	Email Address
1	Nate Nickerson	SEH	nnickerson@sehinc.com
2	David Jarrell	Rapidan Service Authority	djarrell@rapidan.org
3	Frank Barnett	CMS	frank@cmsolutionsus.com
4	Nick Osmann	CMS	nosmann@cmsolutionsus.com
5	Patrick McBreen	EWR	pmcbreen@ewrvirginia.com
6	Clayton Jewell	Poly Coating Systems	cjewell@polycoatingsolutions.com
7	Austin Windham	Tnemic/TSG	austinwindham@tsecoatings.com

Bidder Questions:

1. Question: Provide quantities for unit price repairs

   Response: Estimated quantities for unit price items provided on C-410 Bid Form.

2. Question: Can Owner handle removal, reinstallation and adjustment of clarifier weir brushes.

   Response: Owner will handle all labor, cost and coordination associated with removal, installation and adjustment of clarifier weir brushes. Drawing C001 Note 6 has been updated as follows: "Owner shall be responsible for removal, reinstallation and adjustment of Weir Wolf clarifier brush cleaning system"

3. Question: Is replacement of hardware required to be stainless steel, even in situations where there could be dissimilar materials?

   Response: Drawings and Specifications do not specifically call out hardware material. Drawing C001 Note 3 has been updated as follows for clarity "All hardware removed shall be replaced with the same type and grade of hardware as removed unless otherwise noted on these drawings and specifications."

4. Question: Coating Representative presented an alternative coating recommendation for consideration.

   Response: Specification Section 09 97 20 – Coating System for Wastewater Facilities – Remove in its entirety and replace with updated 09 97 20 Coating System for Wastewater Facilities specification that incorporates recomendation.

Note: Receipt of this Addendum No. 1 (dated February 16, 2026) shall be acknowledged on the submitted Bid Form. Failure to do so may subject Bidder to disqualification.

END OF ADDENDUM

PRE-BID MEETING AGENDA
WILDERNESS WWTF CLARIFIER REFINISHING PROJECT
LOCUST GROVE, VA
RAPIDAN SERVICE AUTHORITY
SEH PROJECT NO. 187118

DATE: Friday February 6th, 2026
TIME: 1:00PM
LOCATION: Wilderness WWTF, Wilderness Shores Way, Locust Grove, VA, 22508

1. Sign-in / Introduction

2. Owner: Rapidan Service Authority
    a. Project Manager: David Jarrell, Assistant General Manager
    Phone: 434.409.2801

3. Engineer: SEH
    a. Project Manager: Nate Nickerson
    Phone 434.989.7945
    b. Project Engineer: Meghan O'brien
    Phone: 434.202.3199

4. Bid Time/Date: 3:00 PM EST, Tuesday, March 3, 2026

5. Bid Location:
    a. Bids to be turned into:
    Rapidan Service Authority
    3849 Germanna Highway, Locust Grove, VA 22508

6. Questions and interpretations:
    a. Questions shall be submitted no less than six (6) days prior to bid opening.
        i. Questions submitted less than six (6) days prior to bid opening may not be answered.
        ii. Only questions answered by Addenda will be binding.

7. Project Location:
    a. Wilderness WWTF
    b. Located at Wilderness Shores Way, Locust Grove, VA, 222508

8. Basic Contract: EJCDC Standard Contract Documents

9. Project Schedule:
    a. Start: Following Notice to Proceed.
    b. Substantial Completion: October 1st, 2026
    c. Final Completion: Within 30 calendar days after the date of Substantial Completion.
    d. Additional Schedule Related Items
        i. Contractor shall be familiar with specific Coatings requirements related to weather, temperature, etc… and schedule shall reflect this consideration.
10. Project Permits:

i. No permits anticipated for this project

11. Basic Project Scope includes cleaning, surface preparation and coatings of ferrous and concrete surfaces indicated on the construction documents as follow:
    a. Concrete
        i. Surface preparation and coating of surfaces
        ii. Concrete repair of surfaces to be refinished as needed.
    b. Ferrous Metal
        i. Surface Preparation and coating of surfaces
    c. Miscellaneous
        i. Protection of all items not being refinished
        ii. Contractor Responsible to remove and reintall any equipment they deem necessary to refinish surfaces in accordance with construction documents.
        iii. Hardware removed shall be replaced with Stainless Steel.

12. Project Coordination:
    a. Coordinate with Rapidan Service Authority minimum 1 week prior to beginning work on clarifier to coordinate isolation, and draining.

13. Use of site
    a. Active WWTF – to remain in service throughout project.
        i. Construction efforts should consider WWTF activities such as, but limited to deliveries, staff parking, solid waste collection, etc.
    b. Non-Smoking Facilities.

14. Work Sequence and Schedule
    a. Construct work in phases to allow for only one clarifier to be out of service at a time
    b. Specific sequencing requirements
    c. Contractor to submit a detailed project schedule to Owner/Engineer

15. Site Use, Access Roads, Parking, and Staging:
    a. Any staging/storage areas will need to be coordinated with owner.
    b. On-site parking will be limited due to site constraints

16. Hours of Work:
    a. Normal business working hours of 7:00 a.m. to 4:00 p.m. Monday through Friday.
    b. No onsite construction activities area allowed during weekends or RSA holidays.
    c. Hours for Utility Shutdowns: Coordinate with Owner's activities.

17. Site Cleanliness, Debris, Garbage and Sanitary Facilities
    a. Keep sites clean at all times.
    b. Pick up debris and keep all garbage in containers that prevent blowing.
    c. Provide portable sanitary facilities at each site.

18. Others?

ATTENDANCE ROSTER

RE: Rapidan Service Authority Wilderness WWTF
Clarifier Refinishing Project

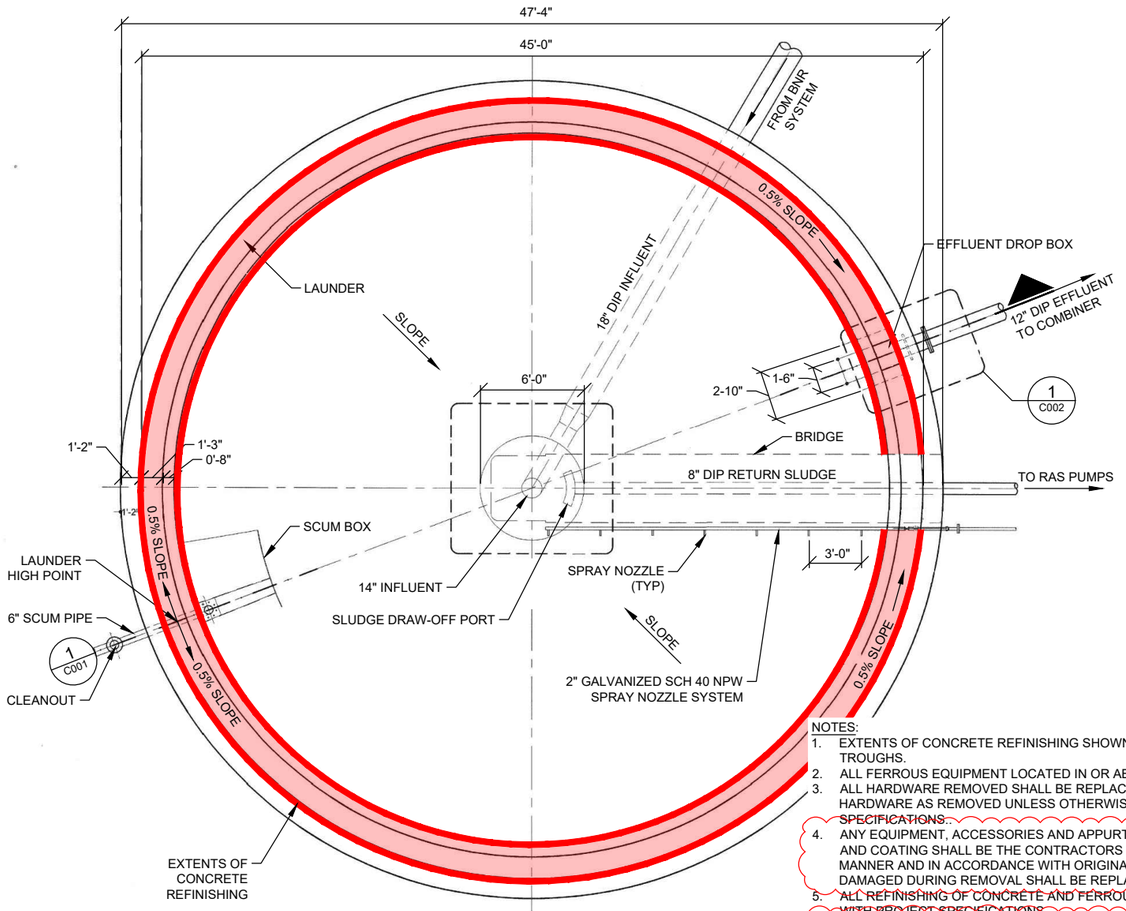
Project Manager: Nate Nickerson

Date of Meeting: February 6, 2026
Time of Meeting: 1:00 PM
Location: Wilderness WWTF
SEH No.: 187118 16.00

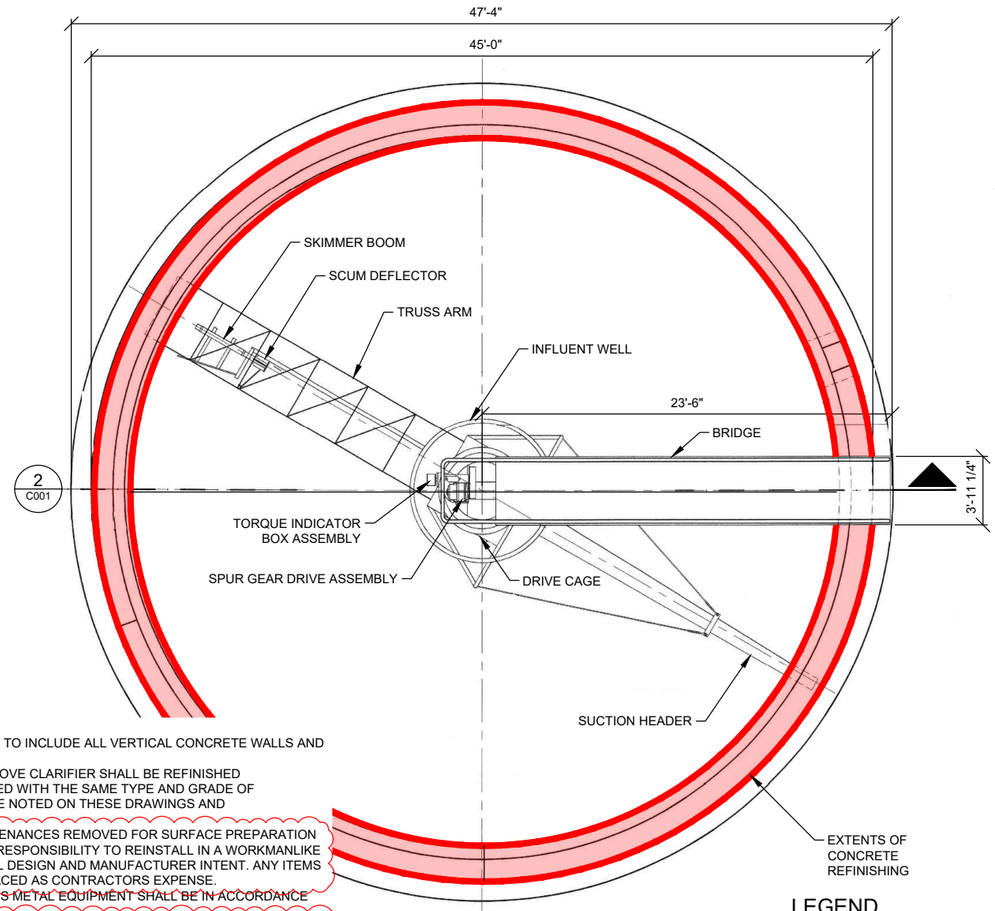
Please Print

Name:	Frank Barnett	Name:	Austin Windham
Representing:	CMS	Representing:	Inemec/TSC
Address:	317 TISINGERRD MT. JACKSON, VA	Address:	209 Wood Duck Rd Columbia, SC 29223
Phone:	540-984-8172	Phone:	(336) 482-5738
Mobile:	540-421-7401	Mobile:	Jane
Email:	FRANK@CMSOLUTIONS US.COM	Email:	Austinwindham@tscoatings.com
Name:	NieRGsmann	Name:	
Representing:	CMS	Representing:	
Address:	317 Tisinger Rd	Address:	
Phone:	828-222-9858	Phone:	
Mobile:	" "	Mobile:	
Email:	NGsmann@CMSRelzone.com	Email:	
Name:	Patric McBreen	Name:	
Representing:	EWR	Representing:	
Address:	8018 Hanking Road Toano V.A 23168	Address:	
Phone:	757-566-4441	Phone:	
Mobile:	757-634-9193	Mobile:	
Email:	PMcbreen@EWRVirginia.com	Email:	
Name:	CLAYTON JENSEN	Name:	
Representing:	POLY COATING SOLUTIONS	Representing:	
Address:	1116 E REFUGE CHURCH RD STEPHENS CITY, VA 22655	Address:	
Phone:	540-277-7316	Phone:	
Mobile:		Mobile:	
Email:	cjensell@polycoatingsolutions.com	Email:	

SEH, Inc., 400 Locust Avenue, Suite 2, Charlottesville, VA 22902-4858
434.202.3780 | 888.908.8166 fax | **sehinc.com**
Affirmative Action–Equal Opportunity Employer



CLARIFIER - PLAN
NOT TO SCALE

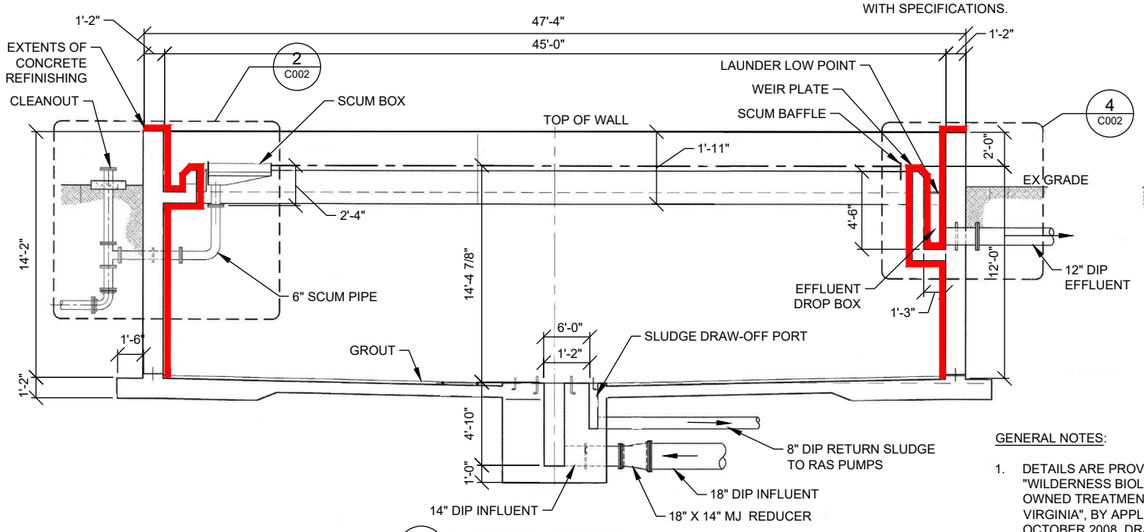


CLARIFIER MECHANISM - PLAN
NOT TO SCALE

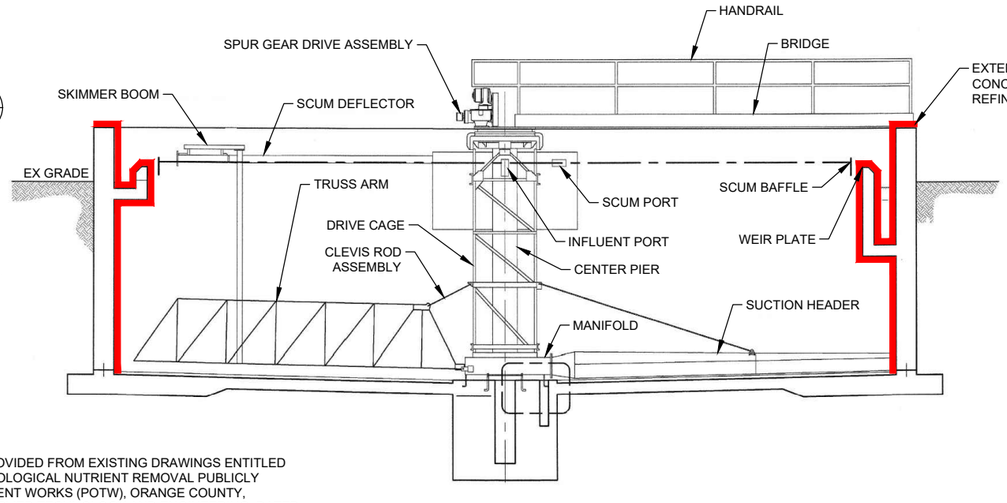
NOTES:
1. EXTENTS OF CONCRETE REFINISHING SHOWN TO INCLUDE ALL VERTICAL CONCRETE WALLS AND TROUGHS.
2. ALL FERROUS EQUIPMENT LOCATED IN OR ABOVE CLARIFIER SHALL BE REFINISHED
3. ALL HARDWARE REMOVED SHALL BE REPLACED WITH THE SAME TYPE AND GRADE OF HARDWARE AS REMOVED UNLESS OTHERWISE NOTED ON THESE DRAWINGS AND SPECIFICATIONS..
4. ANY EQUIPMENT, ACCESSORIES AND APPURTENANCES REMOVED FOR SURFACE PREPARATION AND COATING SHALL BE THE CONTRACTORS RESPONSIBILITY TO REINSTALL IN A WORKMANLIKE MANNER AND IN ACCORDANCE WITH ORIGINAL DESIGN AND MANUFACTURER INTENT. ANY ITEMS DAMAGED DURING REMOVAL SHALL BE REPLACED AS CONTRACTORS EXPENSE.
5. ALL REFINISHING OF CONCRETE AND FERROUS METAL EQUIPMENT SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
6. OWNER SHALL BE RESPONSIBLE FOR REMOVAL, REINSTALLATION AND ADJUSTMENT OF WEIR WOLF CLARIFIER BRUSH CLEANING SYSTEM.
7. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND/OR DISASSEMBLE EQUIPMENT AS NEEDED TO BE ABLE TO PROPERLY PREPARE SURFACES AND APPLY COATINGS IN ACCORDANCE WITH SPECIFICATIONS.

LEGEND

CONCRETE TO BE REFINISHED



1 C001 CLARIFIER - SECTION
NOT TO SCALE



2 C001 CLARIFIER MECHANISM - SECTION
NOT TO SCALE

GENERAL NOTES:

1. DETAILS ARE PROVIDED FROM EXISTING DRAWINGS ENTITLED "WILDERNESS BIOLOGICAL NUTRIENT REMOVAL PUBLICLY OWNED TREATMENT WORKS (POTW), ORANGE COUNTY, VIRGINIA", BY APPLIED TECHNOLOGY AND ENGINEERING, DATED OCTOBER 2008. DRAWINGS ARE PROVIDED FOR REFERENCE ONLY AND CONTRACTOR SHALL FIELD VERIFY PRIOR TO REFINISHING.
2. SUCTION HEADER & TRUSS ARM SHOWN ROTATED FOR CLARITY.

SEH

COMMONWEALTH OF VIRGINIA
NATHANIEL D. NICKERSON
Lic. No. 0402047945
2/16/2026
PROFESSIONAL ENGINEER

Project Owner
RAPIDAN SERVICE AUTHORITY
3489 GERMANNA HWY
LOCUST GROVE, VA 22508

RAPIDAN SERVICE AUTHORITY
WILDERNESS WASTEWATER TREATMENT PLANT
CLARIFIER REFINISHING
LOCUST GROVE, VA 22508

SEH Project	RAPSA 187118
Checked By	MAO
Drawn By	WSW

Project Status	Issue Date
BID SET	1/20/2026
ADDENDUM 1	2/16/2026

REVISION SCHEDULE

REV. #	DESCRIPTION	DATE

EXISTING CLARIFIER - PLAN & SECTIONS

C001

SECTION 09 97 20

COATING SYSTEMS FOR WASTEWATER FACILITIES

PART 1 GENERAL

1.01 SUMMARY

A. Provide surface preparation and application of high performance industrial coatings.

B. Related Sections:
   1. Section 40 23 20 - Process Piping Valves
   2. Section 40 23 40 - Process Piping Hangers and Supports
   3. Section 46 73 17 - Radial Beam Floating Gas-holding Digester Cover

1.02 REFERENCES

A. ASTM - American Society for Testing Materials

B. International Association of Corrosion Engineers (NACE)

C. International Concrete Repair Institute (ICRI)

D. Society for Protective Coatings (SSPC):
   1. Volume 1: Good Painting Practice
   2. Volume 2: Systems and Specifications

1.03 DEFINITIONS

A. Applicator: Person applying the product in the field at Site.

B. Dry Film Thickness (DFT): Minimum dry coating thickness.

C. SFPG: Square feet per gallon.

D. VOC: Volatile Organic Compounds.

E. Regional: The state in which the Project is located and surrounding states.

F. LEL: Lower Explosion Limit.

G. Containment: Equipment, supports, screens, tarps, or shrouds that prevent airborne debris generated during surface preparation and coating application from entering the environment and also facilitates controlled collection of debris for disposal in compliance with current regional and federal regulations.

H. Moderate Service: Surfaces subject to normal exposure and moderate humidity. Includes concrete, concrete masonry, structural steel, miscellaneous metals, doors, and frames.

I. Severe Service: Surfaces subject to frequent splashing, spilling, and exposure to high humidity and condensation. Includes structural steel, miscellaneous metals, piping, valves, and equipment.

J. Immersion Service: Surfaces subject to immersion, or constant exposure to high humidity and condensation.

1.04 SUBMITTALS

A. Manufacturers' current Product Data sheets.
   1. Coatings
   2. Abrasive(s)
   3. Additives (as applicable)
   4. Containment System
   5. All miscellaneous fillers, caulks, sealants and resurfaces, etc.

B. Provide list of equipment to be used on this Project for review by Engineer.

C. Safety Data Sheets (SDS) for each product specified.

D. Samples:
   1. Color chips of available colors.
   2. Recommended colors for color code marking.

E. Post-construction Contract Closeout:
   1. Daily application records using Engineer's provided format, or Contractor's form pre-approved by Engineer.

F. Written plan for containment of fugitive airborne particles complaint with current state and/or federal regulations.

1.05 QUALITY ASSURANCE

A. Single Source Responsibility: Provide coating products from a single manufacturer.

B. Applicator Qualifications:
   1. Contractor shall be a provide a written statement from the coating manufacturer's authorized representative attesting that the on-site Contractor Superintendent has been instructed on proper preparation, mixing, and application procedures for all the coatings specified for this project.
   2. Contractor shall provide all necessary equipment to monitor and record the information required on the Daily Application Record.
      a. Equipment shall be in good condition.
      b. Operational within its design range.
      c. Calibrated as required by the specified standard for use of each device.
   3. Applicator to establish quality control procedures and practices to monitor phases of surface preparation, storage, mixing, application, and inspection throughout the duration of the project. Contractor to provide a full-time, on-site person whose dedicated responsibilities will include quality control of the corrosion protection linings.
   4. Applicators' quality control procedures and practices must include the following items:
      a. Training of personnel in the proper surface preparation requirements.
      b. Training personnel in the proper storing, mixing, and application and quality control testing of the linings.

C. Pre-Installation Conference (Contractor Led):
   1. Before applying any materials, the Contractor, Installer and qualified technical representative of the corrosion protection lining manufacturer shall meet on-site with Engineer to discuss approved products and workmanship to ensure proper application of the corrosion protection lining components and substrate preparation requirements.
   2. The contractor-run pre-application meeting shall include a joint observation of the substrate by the coating manufacturer & coating applicator to verify that the specified coatings are suitable for the environment, substrate type, and all anticipated ambient conditions, movement, and exposures.
   3. Review foreseeable methods and procedures related to the corrosion protection lining of coating Work including but not necessarily limited to the following:
      a. Review Project requirements and the Contract Documents.
      b. Review required submittals, both completed and yet to be completed.

c. Review status of substrate Work, including approval of surface preparations and similar considerations.
d. Review requirements of on-Site quality control testing and requirements for preparing Site Quality Control Report as specified herein.
e. Review availability of materials, tradesmen, equipment and facilities needed to make progress and avoid delays.
f. Review required inspection and testing.
g. Review environmental conditions, other Project conditions, and procedures for coping with unfavorable conditions.
h. Review regulations concerning code compliance, environmental protection, health, safety, fire and similar considerations.
i. Review procedures required for the protection of the corrosion protection lining during the remainder of the construction period.
j. Contractor to provide a minimum of seven (7) days notice to all parties required for attendance at the Pre-Installation conference.

4. Contractor Shall Record the discussions of the Pre-Installation Conference and the decisions and agreements or disagreements reached and furnish a copy of the minutes to each party attending. Record any revision or changes agreed upon, reasons therefore, and parties agreeing or disagreeing with them.
5. Reconvene the conference at the earliest opportunity if additional information must be developed to conclude the subjects under consideration.

D. Performance Criteria: The surfaces to receive the protective lining shall be capable of withstanding under constant exposure to raw wastewater, permeation from hydrogen sulfide and other sewer gases, and attack from organic acids generated by microbial sources. Products must have sufficient field history to substantiate product viability for these exposures.

E. Source Quality Control: Provide each component of protective lining produced by a single manufacturer; including recommended repair mortar, repair overlay (resurfacer), base coat and topcoat materials.

F. Reference Standards: Comply with applicable provisions and recommendations of all standards listed in Section 1.2 except as otherwise shown or specified.

G. Qualifications:
1. Applicator shall have minimum of 5 years application experience on projects of similar size and scope.
2. Provide written statement from coating manufacturer's authorized representative attesting that Applicator has been instructed on proper preparation, mixing, and application procedures for coating specified.
3. Provide regional references for coating contractor for a minimum of 5 different projects of similar size and scope completed in the last 5 years, including:
a. Contact person and phone number.
b. Project location.
c. Cost of coating work.
d. Start/finish dates.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to Site in original, factory-sealed containers bearing manufacturer's intact name and legible label with the following information.
1. Material identification by name or number.
2. Manufacturer's stock number, batch number, and date of manufacture.
3. Color name and number.

B. Storage:
1. Store materials in an environmentally controlled location as recommended by coating manufacturer's product information guidelines.
2. Store materials not in actual use in tightly covered containers.

3. Comply with health and fire regulations of governing authorities having jurisdiction.

C. Handling:
1. Handle materials in a manner that precludes the possibility of contamination or incorrect product catalyzation.
2. Do not open containers or mix components until surface preparation has been completed and approved by Engineer.
3. Maintain containers used for storage, mixing, and application in a clean condition, free of foreign materials and residue.

1.07 PROJECT CONDITIONS

A. Site Facilities:
1. As necessary to maintain required ambient conditions and contract scheduling, the contractor shall provide all required equipment for supplemental heating, dehumidification and power.
2. Maintain environmental conditions, including temperature, dew point and humidity within range recommended by coating manufacturer.
3. Do not use heat sources that emit carbon dioxide or carbon monoxide into areas being coated.
4. Properly locate and vent all such heat sources to the exterior such that coating systems are unaffected by exhaust products.
5. Provide lighting to the satisfaction of Engineer to illuminate the complete workspace during blasting, coating, and inspection operations.

B. Environmental Conditions:
1. Coating shall not be applied in rain, snow, fog, or mist.
2. Conduct surface preparation and coating operations only when the following conditions are met.
a. Ambient air temperature is within limits recommended by coating manufacturer.
b. Steel surface temperature is more than 5 degrees above the dew point of the ambient air.
c. Surfaces to be painted are clean and completely dry.
3. Immersion Service: Continuous forced ventilation in accordance with manufacturer’s recommendation.
a. At a minimum provide 3 to 5 air exchanges per hour for 12 hours after application of the prime coat and for the first 24 hours following final finish coat application.
b. Maintain exhaust in compliance with state standards.
c. Provide containment during abrasive blasting operations to prevent emission of abrasives, existing coatings, and contaminants onto adjacent property, street, structures, or equipment.

C. Drawings do not purport to show actual field dimensions, but are intended only to establish location and scope of Work. Field-verify dimensions and assume full responsibility for their accuracy.

1.08 SEQUENCING AND SCHEDULING

A. Schedule blasting, cleaning, and painting so that contaminants from cleaning process will not come in contact with wet, newly painted surfaces.

B. Do not apply coatings until surface preparation has been approved by Engineer.

C. Do not apply finish coats until:
1. All prime coat application is completed.
2. All surfaces have been cleaned.
3. All surfaces have been approved for coating by Engineer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Coatings:
   1. Acceptable Manufacture: Subject to compliance with specified requirements, acceptable manufacturers and products are:
      a. BASF www.basfbuildingsystems.com
      b. CIM Industries (CIM) www.cimind.com
      c. General Polymers Corporation (GPC) www.generalpolymers.com
      d. L&M Construction (LMC) www.lmcc.com
      e. Sherwin Williams (SWC) www.sherwin.com
      f. Tnemec (TCI) www.tnemec.com

B. Sealant Caulking:
   1. Thiokol Polysulfide Caulk
   2. Or approved equivalent if approved by the single source manufacturer of all other submitted and approved coatings for this project.

C. Corrosion Inhibitor
   1. Holdtight 102 by HoldTight, Houston, TX www.holdtight.com

D. Lead Abatement Additive
   1. Blastox by TDJ Group, Cary, IL www.blastox.com

E. Substitutions: Manufacturer of comparable products submitted in compliance with Section 01 25 13.

F. Substitution of fast-cure products or acceleration additives must receive prior approval by Engineer.

2.02 BASIS OF DESIGN – TNEMEC

A. The coating systems specified herein are based on products manufactured by Tnemec Company, Inc. (TCI). The coating system design, material compatibility, thickness requirements, and performance criteria have been established using Tnemec products.

B. The intent of this specification is to establish a standard of quality, performance, and durability suitable for wastewater treatment environments, including exposure to hydrogen sulfide (H_2S), microbiologically induced corrosion (MIC), and immersion conditions.

C. Products by other listed manufacturers may be submitted for consideration, provided they meet or exceed all specified requirements.

2.03 SUBSTITUTION REQUIREMENTS

A. Requests for substitution shall comply with Section 01 25 13 and the following:
   1. Each substitution request shall include complete and verifiable documentation demonstrating equivalency, including:
      a. Product Data Sheets and Safety Data Sheets (SDS)
      b. Independent laboratory testing demonstrating compliance with specified performance criteria
      c. Chemical resistance data for wastewater immersion and H_2S vapor exposure
      d. Adhesion test data for intended substrates
      e. Manufacturer's written certification of suitability for the specified service environment
      f. Application instructions, including surface preparation and curing requirements
      g. Minimum and maximum dry film thickness (DFT) requirements
      h. A minimum of five (5) completed projects of similar size, scope, and exposure conditions within the last five (5) years
   2. Incomplete submissions will not be considered.

2.04 BASIS OF ACCEPTANCE

A. Proposed substitution systems must meet or exceed the performance characteristics of the Basis of Design system, including but not limited to:
   1. Resistance to hydrogen sulfide (H_2S) and sulfuric acid attack
   2. Resistance to microbiologically induced corrosion (MIC)
   3. Abrasion and impact resistance
   4. Permeability and moisture resistance
   5. Adhesion to prepared substrates
   6. Compatibility between coating layers
   7. Proven performance in wastewater environments
B. The Engineer or Owner shall be the sole judge of equivalency.
C. Approval of a substitution does not relieve the Contract of responsibility for coating system performance.

2.05 SINGLE SOURCE REQUIREMENTS

A. All coatings and associated materials for each coating system shall be supplied by a single manufacturer.
B. Mixing of products from different manufacturers within a single coating system is strictly prohibited.
C. All primers, intermediate coats, finish coats, fillers, resurfacers, and repair materials shall be recommended by the coating manufacturer as part of a complete system.

2.06 MANUFACTURER REPRESENTATION

A. A qualified technical representative of the coating manufacturer shall attend the pre-installation conference.

2.07 REGULATORY COMPLIANCE

A. All coating materials shall comply with applicable federal, state, and local regulations, including:
   1. United States Clean Air Act for VOC content
   2. Applicable environmental and occupational safety regulations
   3. Requirements of authorities having jurisdiction

2.08 MATERIALS

A. Regulatory Requirements:
   1. Products shall comply with the United States Clean Air Act for maximum VOC content.
   2. Products shall comply with state environmental and health standards.
   3. All products shall be lead, chromate, mercury and heavy metals free.

B. Thinners: Use thinners approved by coating manufacturer and within their recommended limits.

C. Abrasives:
   1. Abrasive materials must be in compliance with state environmental and health standards.
   2. Properly size abrasives to provide the specified surface profile.
   3. The use of abrasives exceeding 1 percent free silica is prohibited.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions for compliance with requirements for application and notify Engineer in writing of conditions detrimental to proper and timely completion of Work. Do not proceed with Work until unsatisfactory conditions have been corrected.

B. Notify Engineer in writing of anticipated problems using specified systems with substrates primed by others.

C. Prepare existing materials or substrates to be coated to meet the requirements of specified coating system.

D. Starting of painting Work will be construed as Contractor's acceptance of surfaces and conditions within any particular area.

3.02 PREPARATION

A. Coating manufacturer shall verify surface preparation is completed prior to coating placement.

B. Any residue or buildup should be thoroughly cleaned from the surface being coated prior to placement of coatings as to prevent residue from affecting the ability of the coating to adhere.

C. Remove hardware, hardware accessories, machined surfaces, plates, and similar items not to be painted, or provide surface-applied protection prior to surface preparation and painting. Following completion of painting, reinstall removed items.

D. Clean and remove all rust, slag, weld splatter, weld scabs, mill scale, loose paint, and surface contaminants

C. Chip or grind off flux, spatter, slag or other laminations left from welding. Grind welds and other sharp projects smooth.

D. Re-blast all Surfaces:
   1. Where rusting has recurred.
   2. That do not meet the requirements of this Section.

E. Feather edges of existing coating to form a smooth transition prior to spot priming.

F. Scarify previously applied coatings in accordance with coating manufacturer's recommendations.

G. All substrates: Prepare surface profiles in accordance with manufacturer's recommendations.

H. Prime all bare metal and touch-up damaged shop-applied prime coat with specified primer. Prepare and coat in accordance with this Section.

I. Mix corrosion inhibitor and apply in accordance with manufacturer's recommendations.

J. Concrete:
   1. Allow new concrete to cure 28 days.
   2. Verify dryness by testing in accordance with ASTM D4263.
      a. Floors: If moisture is detected, perform Moisture Vapor Emission Testing in accordance with ASTM F1869.
      b. Moisture content not to exceed 3 pounds per 1,000 square feet in a 24-hour period.

K. Fill cracks and voids according to coating manufacturer's recommendations.

L. Surface Preparation Classifications:
   1. P1: SSPC-SP1 - Solvent Cleaning.
      a. Scarify surface by sanding.
      b. Brush blast if recommended by coating manufacturer.
   2. P2: SSPC-SP2 - Hand Tool Cleaning.
   3. P3: SSPC-SP3 - Power Tool Cleaning
   4. P4: SSPC-SP13 - Surface Preparation of Concrete
      a. Prepare concrete, concrete block, cement plaster, and drywall by removing all efflorescence, chalk, dust, dirt, grease, and other oils, and by roughening as required to remove glaze.
      b. Scrap and grind fins and protrusions flush with surface.

c. Rake mortar joints clean.
d. Brush blast if recommended by coating manufacturer.
5. P5: SSPC-SP5 - White Metal Blast Cleaning.
6. P6: SSPC-SP6 - Commercial Blast Cleaning.
7. P7: SSPC-SP7 - Brush Off Blast Cleaning.
8. P9:
a. Clean wood surfaces to be painted of all dirt, oil, or other foreign substances with scrapers, mineral spirits, and sandpaper, as required.
b. Sandpaper smooth those finished surfaces exposed to view.
9. P10: SSPC-SP10 - Near White Blast Cleaning.
10. P11: SSPC-SP11 - Power Tool Cleaning to Bare Metal.
11. P12: SSPC-SP12 - LP-WC/WJ-4: Pressure Wash
12. P13: SSPC-SP13 - Surface Preparation of Concrete:
a. 4.3.1.: Abrasive Blast.
b. 4.3.2.: High Pressure Water Cleaning.
13. P14: SSPC-SP16 - Brush-Off Blast Cleaning of Coated and Uncoated Galvanized Steel, Stainless Steels, and Non-Ferrous Metals
14. P15: NAPF 500-03-04 Abrasive Blast Cleaning.

M. Re-blast all Surfaces:
1. Where rusting has recurred.
2. That do not meet the above requirements.

3.03 MATERIALS PREPARATION

A. Mix and prepare materials in accordance with manufacturer's directions.

B. Maintain containers used in mixing and application in a clean condition, free of foreign materials and residue.

C. The following is prohibited:
1. Field mixing of partial containers.
2. Field mixing of lead abatement additive.
3. Field tinting.

3.04 APPLICATION

A. Surface preparation and coating system are as indicated in the "Coating Schedule" at the end of this Section, or noted on Drawings.

B. Use equipment and techniques best suited for substrate and type of material being applied.

C. Apply in accordance with manufacturer's directions.
1. Do not apply in snow, rain, fog, mist, or damp surfaces.
2. Allow wet surfaces to dry thoroughly and attain the temperature and conditions specified before proceeding with or continuing the painting operation.
3. Work may continue during inclement weather only if areas and surfaces are enclosed and temperatures within the area can be maintained within limits specified during application and drying periods.

D. Avoid degradation and contamination of surfaces and avoid intercoat contamination.
1. Surfaces shall be free from grease, oil, abrasives, and other contaminants that may have an adverse affect on coating application, bonding, curing, or performance.
2. Clean contaminated surfaces before applying next coat.
3. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions otherwise detrimental to formation of a durable system.

E. Brush-apply primer or intermediate on all welds and edges prior to general application of finish coat.

F. Apply caulking to flange interfaces, gaps, and intermittent weld seams.

G. Provide finish coats that are compatible with primers used. Prime and intermediate coats shall be lighter than subsequent coat.

H. Provide application thickness to specific mil requirements. Mil thicknesses referenced are in dry mil thickness.

I. All paint systems are “full coverage.” Where discrepancies between manufacturer’s square foot coverage and mil thickness occur, use mil thickness requirements.

J. Where voids are present exposing the substrate or undercoats, apply additional coats until a uniform color and finish is obtained. Give special attention to insure that surfaces, including edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.

K. Do not apply additional coats until Engineer has had the opportunity to inspect and approve previous coat.

L. Unless otherwise indicated, match color of adjacent walls or equipment when painting conduit, miscellaneous brackets, hangers, and supports.

M. Smooth out runs or sags immediately, or remove and recoat entire surface.

N. Allow preceding coats to dry before recoating. Recoat within time limits specified by coating manufacturer.

O. Do not apply coatings to the following surfaces:
   1. Factory or installer-finished items.
   2. Anodized aluminum, stainless steel, or other pre-finished metal.
   3. Moving parts of operating devices.
   4. Sprinkler heads or other fire detection/suppression elements.
   5. Code required labels or equipment nameplates.

3.05 QUALITY CONTROL

A. Contractor shall provide all necessary equipment to monitor and record the information required on the Daily Application Record.
   1. Equipment shall be in good condition.
   2. Operational within its design range.
   3. Calibrated as required by the specified standard for use of each device.

B. Maintain a copy of the following information at the site:
   1. Product Data Sheets.
   2. Safety Data Sheets (SDS).
   3. Contract Document and submittals.
   4. Daily Application Record.
      a. Record information (in English) on form located at the end of this Section.

C. Coating systems shall be installed in strict accordance with the manufacturer’s written recommendations. Where conflicts occur between manufacturer requirements and this specification, the more stringent requirement shall govern.

D. Owner’s representative may be on site to observe the application of each coating, and the preparation of each substrate.

E. Provide safe and complete access to all surfaces for observation by Owner and/or Engineer.

F. Prepare rigging so that all surfaces are within arm’s reach of observer.

G. Measure wet paint with wet film thickness gages.

H. Provide DFT measurements for all coatings in accordance with SSPC-PA2.

I. Perform Holiday testing in accordance with NACE RPO 188 as directed by Engineer.

J. Correct any deficiencies observed or detected by field testing as directed by Engineer.

3.06 CLEANING AND PROTECTION

A. During progress of Work, remove discarded materials, rubbish, cans, and rags at end of each workday from the Site.

B. Furnish drop cloths, shields, and protective methods to prevent spray or droppings from disfiguring other surfaces.

C. Upon completion of Work:
   1. Clean window glass and spattered surfaces.
   2. Remove spattered paint by washing and scraping, using care not to scratch or otherwise damage finished surfaces.

D. Protect Work of other trades against damage. Correct any damage by cleaning, repairing or replacing, and repainting.

E. Provide “Wet Paint” signs as required to protect newly-painted finishes. Remove temporary protective wrappings provided for protection of Work, after completion of painting operations.

F. At completion of Work of other trades, touch-up and restore damaged or defaced surfaces.

3.07 SCHEDULES

A. See the following pages.

Coating Schedule

SYSTEM NUMBER	TYPE	SUBSTRATE / SERVICE	SURFACE PREP	MFG	FIRST COAT	DFT (Mils)	SECOND COAT	DFT (Mils)	FINISH COAT	DFT (Mils)	NOTES
C1a	Chemical Resistant	Existing Concrete Immersion Severe	P13 4.3.1	TCI	Series 1	2.5 – 3.5	Series N69	6.0 – 8.0	Series 141	10.0 – 14.0	Fill all bugholes and voids with Series 217 or Series 218.
S4	Epoxy Chemical Resistant	Steel Immersion (Municipal wastewater & H2S Vapor Exposure)	P10	TCI	Series N140	3.0 - 5.0	Series G435	30.0 – 40.0	-	-	-
S4E	Epoxy Chemical Resistant	Steel Immersion (Municipal wastewater, H2S Vapor, and Exterior Exposure)	P10	TCI	Series N140	3.0 - 5.0	Series G436	60.0 – 80.0	-	-	-
S7	Epoxy/Acrylic Urethane	Steel Exterior Exposure	P6	TCI	Series N69	3.0 - 5.0	Series N69	2.0 – 3.0	Series 1095	2.0 – 3.0	-

DAILY APPLICATION RECORD

DATE				----------RECORD EVERY 3 HOURS----------					
				Surface Temperature (Deg. F.)	Air Temperature (Deg. F.)	Material Temperature (Deg. F.)	Relative Humidity (%)	Dew Point (Deg. F.)	Weather Conditions
TIME START		AM	PM						
		AM	PM						
		AM	PM						
		AM	PM						
		AM	PM						
TIME STOP		AM	PM						

Area Prepared
Area Coated
Type of Material & Quantity Applied:

SIGNED

PROJECT NAME:	**SEH FILE #:**
OWNER:	**CONTRACTOR:**