



March 13, 2026

**INVITATION TO BID  
BL046-26**

The Gwinnett County Board of Commissioners is soliciting competitive sealed bids from qualified contractors for the **Replacement of Particle Counters at the Lanier and Shoal Creek Filter Plants** for the Department of Water Resources.

**Bid Submittal Date and Location:**

Bids should be typed or submitted in ink and returned in a sealed container marked on the outside with the BL# and Company Name. Bids will be received until 2:50 P.M. local time on **May 8, 2026** at the Gwinnett County Financial Services - Purchasing Division – 2nd Floor, 75 Langley Drive, Lawrenceville, Georgia 30046.. Any bid received after this date and time will not be accepted. Bids will be publicly opened and read at 3:00 P.M.

The bid opening will be virtual ONLY. To access the bid opening virtually, visit the following link:

<https://gwinnettgov.webex.com/gwinnettgov/j.php?MTID=m4f021e13657529b2834e7881f2773cbf>,

[or dial 408-418-9388 and enter Conference ID 23386881298##](https://gwinnettgov.webex.com/gwinnettgov/j.php?MTID=m4f021e13657529b2834e7881f2773cbf). Apparent bid results will be available the following business day on the website [www.GwinnettCounty.com](http://www.GwinnettCounty.com).

A pre-bid conference is scheduled for 10:00 A.M. on **April 16, 2026**, at the Gwinnett County Lanier Filter Plant Conference Room, located at 2590 S. Waterworks Road, Buford, GA 30518. All contractors are urged to attend.

**Pre-Bid Substitutions:**

Submit requests to include products of Manufacturer's not listed as acceptable Manufacturers under Section 40 91 02.01 to Purchasing **no later than 3:00PM, April 16, 2026**. Provide all the information required for a substitution including but not limited to technical data sheets and any other documentation to show equivalence. Gwinnett County Purchasing will issue Addenda as appropriate if any of the proposed substitutions to the Manufacturer's list are accepted or denied. A Bid submitted with manufacturers not included in the manufacturers list, except as modified by Addenda, will be considered non-responsive.

Questions regarding bids should be directed to Anna West, Purchasing Associate II, at [Anna.West@GwinnettCounty.com](mailto:Anna.West@GwinnettCounty.com) or by calling 770-822-7862, no later than **April 30, 2026**. Bids are legal and binding upon the vendor when submitted. All bids should be submitted in duplicate.

Successful contractors will be required to meet insurance requirements. The Insurance Company should be authorized to do business in Georgia by the Georgia Insurance Department and must have an A.M. Best rating of **A-7 or higher**

Gwinnett County does not discriminate on the basis of disability in the admission or access to its programs or activities. Any requests for reasonable accommodations required by individuals to fully participate in any open meeting, program or activity of Gwinnett County Government should be directed to the ADA Coordinator at the Gwinnett County Justice and Administration Center, 770-822-8165.

The written bid documents supersede any verbal or written prior communications between the parties.

Award will be made to the contractor submitting the lowest responsive and responsible bid. Gwinnett County reserves the right to reject any or all bids to waive technicalities and to make an award deemed in its best interest. Bids may be split or awarded in entirety. Gwinnett County reserves the option to negotiate terms, conditions and pricing with the lowest responsive, responsible vendor(s) at its discretion.

Award notification will be posted after award on the County website, [www.gwinnettcountry.com](http://www.gwinnettcountry.com) and companies submitting a bid will be notified via email.

We look forward to your bid and appreciate your interest in Gwinnett County.

Anna West  
Purchasing Associate II

**SECTION1: SCOPE OF WORK**

1. Procure and install replacement particle counters as specified. Gwinnett County Department of Water Resources (GCDWR) is requesting replacement units be Particle Counter PC3400 manufactured by Chemtrac or approved equal.
2. Supply all information requested on this bid.
3. Replacement particle counters should be installed in the locations of the existing particle counters with minimal structural, communications, or electrical power modifications. Particle counter configuration should be compatible with the existing water connections.
  - a. Modify electrical power supply at Shoal Creek Filter Plant (SCFP) instrumentation racks as needed to suit replacement units.
4. Drawings showing the location of the existing particle counters that are to be replaced at Lanier Filter Plant (LFP), and photos of the existing particle counters are shown in Attachment 1 to assist the contractor in assessing installation requirements of replacement particle counters. Drawings and photos of the existing particle counters at SCFP are shown in Attachment 2 to assist the contractor in assessing installation requirements of replacement particle counters.
5. Contractor representative to visit site to field verify and ensure that proposed replacement equipment will match existing installation, prior to submitting equipment submittals. Confirm that the existing instrumentation rack location can be reused or modified for the replacement particle counters to be mounted in existing area.
6. The intention is to
  - a. Replace twelve (12) particle counters in the LFP filter buildings and provide one (1) new particle counter as a spare to keep at LFP warehouse.
  - b. Replace six (6) particle counters in the SCFP filter building.
7. Supply all material and services for the 13 particle counters at LFP and 6 particle counters at SCFP in accordance with specifications.
8. Replacement of the particle counter units will be done one filter at a time. Contractor should demonstrate that each installed unit is operating correctly and has been calibrated before removing the next unit for replacement.
9. GCDWR may assist contractor with Lock-Out Tag-Out (LOTO) of existing particle counters prior to work commencement.
10. GCDWR may assist contractor with isolating flow to the existing particle counters prior to removal and introducing flow to the replacement units.
11. The contractor should disconnect existing units from power, communications, existing influent/effluent flow tubing.
12. The contractor should remove existing units and dispose of the removed units off-site.
13. The contractor should install replacement units as specified.
14. The contractor should provide startup services.
15. GCDWR to perform any modifications to the SCADA system needed.

**Facility Locations:**

Shoal Creek Filter Plant  
1755 Buford Dam Rd  
Buford, GA 30518

Lanier Filter Plant  
2590 S. Waterworks Rd  
Buford, GA 30518

The following particle counters have been identified for replacement:

Facility	Asset Description	Asset Tags
1 - Lanier Filter Plant	Filter 1A effluent	AIT-4901
2 - Lanier Filter Plant	Filter 1B effluent	AIT-4902
3 - Lanier Filter Plant	Filter 2A effluent	AIT-4903
4 - Lanier Filter Plant	Filter 2B effluent	AIT-4904
5 - Lanier Filter Plant	Filter 3A effluent	AIT-4905
6 - Lanier Filter Plant	Filter 3B effluent	AIT-4906
7 - Lanier Filter Plant	Filter 4A effluent	AIT-4907
8 - Lanier Filter Plant	Filter 4B effluent	AIT-4908
9 - Lanier Filter Plant	Filter 5A effluent	AIT-4909
10 - Lanier Filter Plant	Filter 5B effluent	AIT-4910
11 - Lanier Filter Plant	Filter 6A effluent	AIT-4911
12 - Lanier Filter Plant	Filter 6B effluent	AIT-4912
1 - Shoal Creek Filter Plant	Filter 1 effluent	AIT-2090-1
2 - Shoal Creek Filter Plant	Filter 2 effluent	AIT-2090-2
3 - Shoal Creek Filter Plant	Filter 3 effluent	AIT-2090-3
4 - Shoal Creek Filter Plant	Filter 4 effluent	AIT-2090-4
5 - Shoal Creek Filter Plant	Filter 5 effluent	AIT-2090-5
6 - Shoal Creek Filter Plant	Filter 6 effluent	AIT-2090-6

Bids are requested for the following services and should be provided upon request:

1. Supply of all information requested on this bid.
2. Supply of particle counters, 4-20mA output boards, and all components to match existing installations.
3. Complete design of any minor modifications to enable installation after removal of the existing particle counters.
4. Provide a manufacturing and delivery schedule and provide monthly progress updates.
5. Coordination and delivery of equipment to LFP and SCFP. Assembly of particle counters and components.
6. Installation and start up services. Note that it is intended to undertake the work at one plant at a time and the installation at each plant should be completed within the number of weeks listed below to minimize process interruptions. There will be a one week period between completion of the work at one plant and commencement of the installation at the next plant to ensure the completed installation is operating correctly. The start dates should be agreed upon with Plant staff.
  - a. Lanier Filter Plant: 2 weeks
  - b. Shoal Creek Filter Plant: 1 week
7. During each process interruption, GCDWR will isolate the flow to the work area. The remainder of the facility will be in operation.
8. Provision of Contractor's Certificate of Compliance
9. Provision of Contractor's Certificate of Proper Installation.
10. Provision of Manufacturer's Warranty.
11. Provision of two hard copies and one electronic copy (in searchable PDF format) of Operating and Maintenance instructions for all components, including shop drawings of equipment, spare parts list, preventative maintenance schedule, and troubleshooting information.
12. Supply of specified spare parts and special tools for future maintenance.

Drawings and photographs of the two facilities are provided in the Attachments and the following specifications are applicable:

## **SECTION 2: SPECIFICATIONS**

Equipment should comply with the following specifications:

Section 01 43 33 – Vendors' Field Services

Section 01 78 23 – Operation and Maintenance Data

Section 01 91 14 – Equipment Testing and Facility Startup

Section 40 91 02.01 – Analytical Measurement Components

The following information sheets should be submitted with the bid submittal.

1. Make, model, and weight of replacement unit.
2. Manufacturer's catalog information, dimension drawings, descriptive literature, specifications, and materials of construction.
3. Complete description of particle counters and other ancillary items.
4. A complete listing of materials for each particle counter component.
5. Typical mounting details.
6. List of any exceptions to this bid document and its contents.

**SECTION 3: ATTACHMENTS**

- Attachment 1: LFP Existing Drawings and Photos
- Attachment 2: SCFP Existing Drawings and Photos
- Attachment 3: Existing Equipment Specifications
- Attachment 4: Existing Equipment Drawings
- Attachment 5: Proposed Equipment Data Sheet

FAILURE TO RETURN THIS PAGE AS PART OF YOUR BID DOCUMENT MAY RESULT IN REJECTION  
**BID SCHEDULE**

BID ITEM NO.	DESCRIPTION	QTY	UNIT PRICE	TOTAL PRICE
<b>PART 1 – LANIER FILTER PLANT</b>				
1.1	<b>Equipment</b>			
1.1.1	Chemtrac PC 3400 Particle Counter, or approved equivalent	13 EA	\$	\$
1.1.2	34736 Chemtrac 4-20mA Board 2 channel 4-20mA output board card with 2 alarm relays, or approved equivalent	13 EA	\$	\$
1.1.3	Tools and spare parts for particle counters and 4-20mA output boards.	1 LS	\$	\$
1.2	Post bid contractor site visit for submittal preparation: Contractor representative to visit site to field verify and confirm replacement particle counters will be installed using existing configuration.	1 DAY	\$	\$
1.3	Submittal preparation and submissions.	1 LS	\$	\$
1.4	<b>Installation</b>			
1.4.1	Installation and field testing: Vendor representative to provide onsite installation services and inspect the final installation, and calibrate and supervise a test run/start-up of the equipment, including all travel, accommodation and ancillary expenses etc. (consecutive days, not including weekends and holidays).	2 WEEKS	\$	\$
1.4.2	Cost for separate onsite day visit of 8 hours if requested by Owner.	1 DAY	\$	\$
1.5	Provide two hard copies and one electronic copy of the operating and maintenance manuals.	1 LS	\$	\$
<b>PART 1 TOTAL</b>				<b>\$</b>
<b>PART 2 – SHOAL CREEK FILTER PLANT</b>				
2.1	<b>Equipment</b>			
2.1.1	Chemtrac PC 3400 Particle Counter, or approved equivalent	6 EA	\$	\$
2.1.2	34736 Chemtrac 4-20mA Board 2 channel 4-20mA output board card with 2 alarm relays, or approved equivalent	6 EA	\$	\$
2.1.3	Tools and spare parts for particle counters and 4-20mA output boards	1 LS	\$	\$

COMPANY NAME \_\_\_\_\_

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**BID SCHEDULE**

BID ITEM NO.	DESCRIPTION	QTY	UNIT PRICE	TOTAL PRICE
2.2	Post bid contractor site visit for submittal preparation: contractor representative to visit site to field verify and confirm replacement particle counters will be able to be installed using existing configuration.		\$	\$
2.3	Submittal preparation and submissions.	1 LS	\$	\$
2.4	<b>Installation</b>			
2.4.1	Installation and field testing: Vendor representative to provide onsite installation services and inspect the final installation, and calibrate and supervise a test run/start-up of the equipment, including all travel, accommodation and ancillary expenses etc. (consecutive days, not including weekends and holidays).	1 WEEK	\$	\$
2.4.2	Cost for separate onsite day visit of 8 hours if requested by Owner.	1 DAY	\$	\$
2.5	Provide two hard copies and one electronic copy of the operating and maintenance manuals.	1 LS	\$	\$
<b>PART 2 TOTAL</b>				<b>\$</b>
<b>TOTAL (PART 1 + PART 2)</b>				<b>\$</b>

Notes:

1. The unit price **MUST** include ALL charges, including but not limited to delivery and field and start up services per the specifications.
2. If submitting an approved equivalent, please submit product cut sheets or information documents as requested.
3. Reminder to include the Manufacturer/Product Number and the Delivery A.R.O (time to receive the product after receiving the purchase order).

The undersigned acknowledges receipt of the following addenda, listed by number and date appearing on each:

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

Certification Of Non-Collusion In Bid Preparation \_\_\_\_\_

Signature

Date

COMPANY NAME \_\_\_\_\_

*FAILURE TO RETURN THIS PAGE AS PART OF YOUR BID DOCUMENT MAY RESULT IN REJECTION*  
**BID SCHEDULE**

In compliance with the attached specifications, the undersigned acknowledges all requirements outlined in the "Instructions to Vendors" and all documents referred to therein, if this bid is accepted by the Board of Commissioners within ninety (90) days of the date of bid opening, to furnish any or all of the items upon which prices are bid, at the price set opposite each item bid, delivered to the designated point(s) within the time specified in the fee schedule. By submission of this bid, I understand that Gwinnett County uses Electronic Payments for remittance of goods and services. Vendors should select their preferred method of electronic payment upon notice of award. For more information on electronic payments, please refer to the Electronic Payment information in the Instructions to Vendors.

Legal Business Name \_\_\_\_\_

Address \_\_\_\_\_

Does your company currently have a location within Gwinnett County?  Yes  No

Representative Signature \_\_\_\_\_

Printed Name \_\_\_\_\_

Telephone Number \_\_\_\_\_ E-mail address \_\_\_\_\_

Contact Person (if someone other than the authorized representative listed above)

\_\_\_\_\_  
Telephone Number \_\_\_\_\_ E-mail address \_\_\_\_\_

**FAILURE TO RETURN THIS PAGE AS PART OF YOUR BID DOCUMENT MAY RESULT IN REJECTION OF BID.**

**REFERENCES**

Gwinnett County requests a minimum of three (3) references where work of a similar size and scope has been completed.

Note: References should be customized for each project, rather than submitting the same set of references for every project bid. The references listed should be of similar size and scope of the project being bid on. Do not submit a project list in lieu of this form.

1. Company Name \_\_\_\_\_

Brief Description of Project \_\_\_\_\_

Completion Date \_\_\_\_\_

Contract Amount \$ \_\_\_\_\_ Start Dates \_\_\_\_\_

Contact Person \_\_\_\_\_ Telephone \_\_\_\_\_

E-Mail Address \_\_\_\_\_

2. Company Name \_\_\_\_\_

Brief Description of Project \_\_\_\_\_

Completion Date \_\_\_\_\_

Contract Amount \$ \_\_\_\_\_ Start Date \_\_\_\_\_

Contact Person \_\_\_\_\_ Telephone \_\_\_\_\_

E-Mail Address \_\_\_\_\_

3. Company Name \_\_\_\_\_

Brief Description of Project \_\_\_\_\_

Completion Date \_\_\_\_\_

Contract Amount \$ \_\_\_\_\_ Start Date \_\_\_\_\_

Contact Person \_\_\_\_\_ Telephone \_\_\_\_\_

E-Mail Address \_\_\_\_\_

Company Name \_\_\_\_\_



**Bid # & Description** BL046-26, Replacement of Particle Counters at the Lanier and Shoal Creek Filter Plants

## CODE OF ETHICS AFFIDAVIT

**PLEASE RETURN THIS FORM COMPLETED WITH YOUR SUBMITTAL. SUBMITTED FORMS ARE REQUIRED PRIOR TO EVALUATION.**

In accordance with Section 54-33 of the Gwinnett County Code of Ordinances the undersigned bidder/proposer makes the following full and complete disclosure under oath, to the best of their knowledge, of the name(s) of all elected officials whom it employs or who have a direct or indirect pecuniary interest in or with the vendor, its affiliates or its subcontractors:

1. \_\_\_\_\_  
Company Submitting Bid/Proposal

2. Please select one of the following:
- No information to disclose (*complete only section 4 below*)
  - Disclosed information below (*complete section 3 & section 4 below*)

3. If additional space is required, please attach list:

\_\_\_\_\_  
Gwinnett County Elected Official Name

\_\_\_\_\_  
Gwinnett County Elected Official Name

\_\_\_\_\_  
Gwinnett County Elected Official Name

\_\_\_\_\_  
Gwinnett County Elected Official Name

4. BY: \_\_\_\_\_  
Authorized Officer or Agent Signature

Sworn to and subscribed before me this

\_\_\_\_\_  
Printed Name of Authorized Officer or Agent

\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
Title of Authorized Officer or Agent of Contractor

\_\_\_\_\_  
Notary Public

(seal)

Note: See Gwinnett County Code of Ethics Ordinance E02011, Sec. 54-33. The ordinance will be available to view in its' entirety at **GwinnettCounty.com**



**Solicitation Name & No. BL046-26 Replacement of Particle Counters at the Lanier and Shoal Creek Filter Plants**  
**CONTRACTOR AFFIDAVIT AND AGREEMENT**  
**(THIS FORM SHOULD BE FULLY COMPLETED AND RETURNED WITH YOUR SUBMITTAL)**

By executing this affidavit, the undersigned contractor verifies its compliance with The Illegal Immigration Reform Enhancements for 2013, stating affirmatively that the individual, firm, or corporation which is contracting with the Gwinnett County Board of Commissioners has registered with and is participating in a federal work authorization program\* [any of the electronic verification of work authorization programs operated by the United States Department of Homeland Security or any equivalent federal work authorization program operated by the United States Department of Homeland Security] to verify information of newly hired employees, pursuant to the Immigration Reform and Control Act, in accordance with the applicability provisions and deadlines established therein.

The undersigned further agrees that, should it employ or contract with any subcontractor(s) in connection with the physical performance of services or the performance of labor pursuant to this contract with the Gwinnett County Board of Commissioners, contractor will secure from such subcontractor(s) similar verification of compliance with the Illegal Immigration Reform and Enforcement Act on the Subcontractor Affidavit provided in Rule 300-10-01-.08 or a substantially similar form. Contractor further agrees to maintain records of such compliance and provide a copy of each such verification to the Gwinnett County Board of Commissioners at the time the subcontractor(s) is retained to perform such service.

\_\_\_\_\_  
E-Verify \* User Identification Number

\_\_\_\_\_  
Date Registered

\_\_\_\_\_  
Legal Company Name

\_\_\_\_\_  
Street Address

\_\_\_\_\_  
City/State/Zip Code

BY: \_\_\_\_\_  
Authorized Officer or Agent  
(Contractor Signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title of Authorized Officer or Agent of Contractor

\_\_\_\_\_  
Printed Name of Authorized Officer or Agent

SUBSCRIBED AND SWORN  
BEFORE ME ON THIS THE  
\_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

**For Gwinnett County Use Only:**  
**Document ID #** \_\_\_\_\_  
**Issue Date:** \_\_\_\_\_  
**Initials:** \_\_\_\_\_

\* As of the effective date of O.C.G.A. 13-10-91, the applicable federal work authorization program is "E-Verify" operated by the U.S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA).



**Insurance:**

Contractor shall provide evidence of insurance for at least the coverage and amounts set forth below. All insurance shall be maintained in the form and with a company (or companies) satisfactory to the Gwinnett County Board of Commissioners. The Contractor and their Subcontractor’s/vendor’s Certificates of Insurance shall require that the County be notified in writing thirty (30) days prior to cancellation, modification, or non-renewal of any insurance policy listed on the certificate(s). Upon request, the County will be provided certified copies of all required insurance policies.

**A. Minimum Coverage**

Commercial General Liability (Occurrence Form):

General Aggregate (other than Prod/Comp Ops Liability)	\$2,000,000
Products/Completed Operations Aggregate	\$2,000,000
Personal & Advertising Injury Liability	\$1,000,000
Each Occurrence	\$1,000,000

- Gwinnett County Board of Commissioners to be named as Additional Insured
- Additional Insured Endorsement CG 20 10 (edition dates of 07/04, 04/13, 12/19 or a substitute endorsement providing equivalent coverage) and CG 2037 (edition dates of 07/04, 04/13, 12/19 or a substitute endorsement providing equivalent coverage) must be provided with your Certificate of Insurance.
- Primary and Non-Contributory Endorsement to be specified in writing
- Contractual Liability
- Broad Form Property Damage
- Severability of Interest
- Underground, explosion, and collapse coverage
- Personal Injury (deleting both contractual and employee exclusions)
- Incidental Medical Malpractice
- Hostile Fire Pollution Wording
- Include Waiver of Subrogation in favor of Gwinnett County Board of Commissioners
- If project or operations are within 50 ft of a railroad, Contractor is required to name the specific Railroad as an Additional Insured and provide a copy of the Additional Insured Endorsement CG2417 or its equivalent.
- In the event the General Liability insurance required by this Contract is written on a claims-made basis, Contractor warrants that any retroactive date under the policy shall precede the effective date of this Contract; and that either continuous coverage will be maintained, or an extended discovery period will be exercised for a period of five (5) years or applicable statute of limitation period following completion of the work.

Automobile Liability to include:

Combined Single Limit – Each Accident	\$1,000,000
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- Comprehensive form providing coverage for bodily injury, death of any person, and property damage arising out of the ownership, maintenance, and use of all owned, non-owned, leased, hired, borrowed vehicles, and any other statutorily required automobile coverage.

- Gwinnett County Board of Commissioners to be named as Additional Insured
- Additional Insured Endorsements must be provided with the Certificate of Insurance
- Coverage to include loading and unloading
- Contractual Liability

Worker’s Compensation & Employer’s Liability Coverage to include:

Workers Compensation Employers Liability	Georgia State Statutory Limits
Bodily Injury by Accident – Each Accident	\$ 500,000
Bodily Injury by Disease – Policy Limit	\$ 500,000
Bodily Injury by Disease – Each Employee	\$ 500,000

- Waiver of Subrogation in favor of Gwinnett County Board of Commissioners

Umbrella/Excess Liability Insurance with policy limits as determined by Contract Sums (higher limits may be required depending on the extent of contract):

Contract Sums:

Contracts up to \$999,999

Each Occurrence and Aggregate Limit	\$1,000,000
Contracts from \$1,000,000 to \$1,999,999	
Each Occurrence and Aggregate Limit	\$3,000,000
Contracts from \$2,000,000 to \$4,999,999	
Each Occurrence and Aggregate Limit	\$5,000,000
Contracts Over \$5,000,000	
Each Occurrence and Aggregate Limit	\$10,000,000

- Concurrency of Effective Dates with Primary
- Blanket Contractual Liability
- Drop Down Feature
- Umbrella Policy must be as broad as the primary policy.
- Coverage excess over General Liability, Business Auto Liability, and Employers Liability
- In the event the Umbrella/Excess Liability insurance required by this Contract is written on a claims-made basis, Contractor warrants that any retroactive date under the policy shall precede the effective date of this Contract; and that either continuous coverage will be maintained or an extended discovery period will be exercised for a period of five (5) years or applicable statute of limitation period following completion of the work.
- Evidence of coverage in the form of a Certificate of Insurance shall be provided to the County prior to start of work.
- Gwinnett County Board of Commissioners shall be Additional Insureds.
- Contractor shall be liable for money, securities, or other property of the County.
- Such coverage shall include an owner coverage endorsement for County and County shall be included as a loss payee.
- Additional Insured Endorsements must be provided with the Certificate of Insurance

Cyber Liability Insurance: Applies if scope of work includes the storage or transfer of any County data or sensitive data (including but not limited to personally identifiable, health, or payment card data) or the related hosting of database(s) or internet site(s):

Limit of Insurance per Claim	\$1,000,000
Aggregate Limit	\$1,000,000

The Contractor shall maintain insurance coverage for network security and privacy risks, including, but not limited to, insurance for data breach or introduction of virus or malicious codes, consumer notification, whether or not required by law, forensic investigation, public relations and crisis management and credit or identity monitoring or similar remediation services, unauthorized access, failure of security information theft, damage to destruction of or alteration of electronic information, breach of privacy perils, wrongful disclosure and release of private information, collection, or other negligence in the handling of confidential information, and including coverage for related regulatory fines, defenses, and penalties allowed by law.

Property Insurance:

The Contractor is fully and solely responsible for any physical loss or damage to all tools, equipment, construction office trailers and their contents, vehicles or any other personal property utilized in the performance of the Contractor's work. Contractor agrees to waive its rights of recovery and cause its insurers, if any, to waive their rights of subrogation against Owner and Company for any such damage or loss, however caused.

Riggers Liability Insurance:

If any work to be performed involves the rigging, lifting, lowering or moving of property or equipment, then those parties performing such work shall carry Rigger's Liability Insurance in an amount adequate to insure against the physical loss or damage to the property or equipment in its care

Aviation Insurance: Applies if scope of work requires the use of aircraft, including helicopters, unmanned aircraft systems (e.g., drones) and/or fixed-wing aircraft:

Maintain (or require aircraft owner or operator to maintain), and Contractor shall furnish proof of, Aircraft Liability insurance with minimum limits of \$10,000,000 per occurrence for bodily injury and property damage of all aircraft.

Unmanned aircraft systems, minimum limits of \$2,000,000 for bodily injury, property damage, and personal injury (including invasion of privacy) for unmanned aircraft systems, and guest voluntary settlement bodily injury coverage (for any aircraft except unmanned aircraft systems)

- Such policy shall include contractual liability covering all owned and non-owned aircraft
- If the party providing the Aircraft Liability insurance is not Contractor, then Contractor shall require such party to (a) waive any subrogation rights of recovery they and/or their insurance carriers may have against County and any other indemnified parties and (b) name County and such other parties as Additional Insureds
- The Contractor shall (or shall require aircraft owner or operator) to hire, employ, and utilize pilots certified by the Federal Aviation Administration to operate any such aircraft.

- B. Gwinnett County Board of Commissioners (and any applicable Authority) must be specified in writing as an Additional Insured on General Liability, Auto Liability and Umbrella Liability policies.
- C. Gwinnett County should be provided with a minimum of 30 days advance written notice of cancellation, material change, or non-renewal of policies required by the contract.

D. Certificate Holder should read:  
Gwinnett County Board of Commissioners 75 Langley Drive  
Lawrenceville, GA 30046-6935

- E. Insurance Company, except Worker' Compensation carrier, must have an A.M. Best Rating of A-7 or higher. Certain Workers' Comp funds may be accepted subject to the approval of the Gwinnett County Insurance Unit. European markets including those based in London and domestic surplus lines markets that operate on a non-admitted basis are exempt from this requirement provided that the Contractor's broker/agent can provide financial data to establish that a market is equal to or exceeds the financial strengths associated with the A.M. Best's rating of A-7 or better.
- F. Insurance companies providing coverage should be licensed, and authorized to do business by the Office of the Insurance and Safety Fire Commissioner of Georgia ("Insurance Commissioner"), with the exception of non-admitted carriers, in which case the broker placing coverage should be licensed by the Insurance Commissioner. All agents placing coverage should be licensed by the Insurance Commissioner, either as a resident or non-resident.
- G. Certificates of Insurance, and any subsequent renewals, must reference each corresponding bid/contract by project name and project/bid number, if applicable.
- H. The Contractor shall agree to provide complete certified copies of current insurance policy(ies) or a certified letter from the insurance company(ies) if requested by the County to verify compliance with these insurance requirements.
- I. All insurance coverage required to be provided by the Contractor shall state that it is primary over any insurance program carried by the County.
- J. Contractor shall incorporate a copy of the insurance requirements as herein provided in each and every subcontract with each and every subcontractor in any tier and shall require each and every subcontractor of any tier to comply with all such requirements. The Contractor agrees that if for any reason a subcontractor fails to procure and maintain insurance as required, all such required Insurance shall be procured and maintained by Contractor at Contractor's expense.
- K. No Contractor or Subcontractor shall commence any work of any kind under this Contract until all insurance requirements contained in this Contract have been complied with and until evidence of such compliance satisfactory to Gwinnett County as to form and content has been filed with Gwinnett County. The ACORD Certificate of Insurance or a preapproved substitute is the required form in all cases where reference is made to a Certificate of Insurance or an approved substitute.
- L. The Contractor and its insurer(s) shall agree to waive all rights of subrogation against the County, the Board of Commissioners, its officers, officials, employees, and volunteers from losses arising from work performed by the Contractor for the County.
- M. Special Form Contractors' Equipment and Contents Insurance covering owned, used, and leased equipment, tools, supplies, and contents is required to perform the services called for in the Contract. The coverage must be on a replacement cost basis. The County will be included as a Loss Payee in this coverage for County owned equipment, tools, supplies, and contents.
- N. The Contractor shall make available to the County, through its records or the records of its insurer, information regarding any claim related to a County project. Any loss run information relating to a County project will be made available to the County upon its request.
- O. Compliance by the Contractor and Subcontractors with the foregoing insurance requirements shall not relieve the Contractor and Subcontractors of liability under the Contract and any applicable law.
- P. The Contractor and all Subcontractors are to comply with the Occupational Safety and Health Act of 1970, Public Law 91-956, and any other laws that may apply to this Contract.
- Q. The Contractor shall at a minimum apply risk management practices accepted by the Contractors' industry.
- R. The Contractor shall advise the County if required limits of insurance become eroded or impaired.

Surety Bonds (if required)

All of the surety requirements will stay the same except the Surety Company must have the same rating as set forth in item E above.

FAILURE TO RETURN THIS PAGE MAY RESULT IN REMOVAL OF YOUR COMPANY FROM COMMODITY LISTING.

**BL046-26**

**Buyer Initials: AW**

IF YOU DESIRE TO SUBMIT A "NO BID" IN RESPONSE TO THIS PACKAGE, PLEASE INDICATE BY CHECKING ONE OR MORE OF THE REASONS LISTED BELOW AND EXPLAIN.

- Do not offer this product or service; remove us from your bidder's list for this item only.
- Specifications too "tight"; geared toward one brand or manufacturer only.
- Specifications are unclear.
- Unable to meet specifications
- Unable to meet bond requirements
- Unable to meet insurance requirements
- Our schedule would not permit us to perform.
- Insufficient time to respond.
- Other

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COMPANY NAME \_\_\_\_\_

AUTHORIZED REPRESENTATIVE \_\_\_\_\_

SIGNATURE

**GWINNETT COUNTY  
DEPARTMENT OF FINANCIAL SERVICES – PURCHASING DIVISION  
GENERAL INSTRUCTIONS FOR VENDORS, TERMS AND CONDITIONS**

**\*\*\*ATTENTION\*\*\***

FAILURE TO RETURN THE FOLLOWING DOCUMENTS MAY RESULT IN SUBMITTAL BEING DEEMED NON-RESPONSIVE AND AUTOMATIC REJECTION. THE COUNTY SHALL BE THE SOLE DETERMINANT OF TECHNICALITY VS. NON-RESPONSIVE SUBMITTAL:

1. FAILURE TO USE COUNTY FEE SCHEDULE.
2. FAILURE TO RETURN OR ACKNOWLEDGE APPLICABLE COMPLIANCE/SPECIFICATION SHEETS.
3. FAILURE TO RETURN OR ACKNOWLEDGE APPLICABLE ADDENDA.
4. FAILURE TO PROVIDE INFORMATION ON ALTERNATES OR EQUIVALENTS.
5. FAILURE TO PROVIDE BID BOND, WHEN REQUIRED, WILL RESULT IN SUBMITTAL BEING DEEMED NON-RESPONSIVE AND AUTOMATIC REJECTION. BID BONDS ARE NOT REQUIRED ON ALL SOLICITATIONS. BOND REQUIREMENTS ARE CLEARLY STATED ON THE INVITATION PAGE. IF CLARIFICATION IS NEEDED, CONTACT THE PURCHASING ASSOCIATE LISTED IN THE INVITATION. **IF BONDS ARE REQUIRED, FORMS WILL BE PROVIDED IN THIS SOLICITATION DOCUMENT.**
6. FAILURE TO PROVIDE CONTRACTOR AFFIDAVIT AND AGREEMENT, WHEN REQUIRED, MAY RESULT IN SUBMITTAL BEING DEEMED NON-RESPONSIVE AND REJECTED. THE CONTRACTOR AFFIDAVIT AND AGREEMENT IS NOT REQUIRED ON ALL SOLICITATIONS. IF CLARIFICATION IS NEEDED, CONTACT THE PURCHASING ASSOCIATE LISTED IN THE INVITATION.
7. FAILURE TO PROVIDE AN ETHICS AFFIDAVIT WHEN REQUIRED, MAY RESULT IN SUBMITTAL BEING DEEMED NON-RESPONSIVE AND REJECTED. THE ETHICS AFFIDAVIT IS REQUIRED ON ALL FORMAL SOLICITATIONS OVER \$100,000.00. IF CLARIFICATION IS NEEDED, CONTACT THE PURCHASING ASSOCIATE LISTED IN THE INVITATION.

**I. PREPARATION OF SUBMITTAL**

- A. Each vendor shall examine the drawings, specifications, schedule, and all instructions. Failure to do so will be at the vendor's risk, as the vendor will be held accountable for their submittal.
- B. Each vendor shall furnish all information required by the solicitation form or document. Each vendor shall sign the submittal and print or type his or her name on the fee schedule. The person signing the submittal should initial erasures or other changes. An authorized agent of the vendor must sign the submittal.
- C. Fee schedule pricing should have only two decimal places unless otherwise stated. In the event of a calculation error in total price, the unit pricing prevails.
- D. Except for solicitations for the sale of real property, individuals, firms, and businesses seeking an award of a Gwinnett County contract may not initiate or continue any verbal or written communications regarding a solicitation with any County officer, elected official, employee, or other County representative other than the Purchasing Associate named in the solicitation between the date of the issuance of the solicitation and the date of the final award. The Purchasing Director will review violations. If determined that such communication has compromised the competitive process, the offer submitted by the individual, firm or business may be disqualified from consideration for award. Solicitations for the sale of real property may allow for verbal or written communications with the appropriate Gwinnett County representative.
- E. Sample contracts (if pertinent) are attached. These do NOT have to be filled out with the submittal but are contained for informational purposes only. If awarded, the successful vendor(s) will be required to execute these documents prior to County execution.
- F. Effective July 1, 2013 and in accordance with the Georgia Illegal Immigration Reform Enhancements for 2013, an original signed, notarized and fully completed Contractor Affidavit and Agreement should be included with vendor's submittal, if the solicitation is for the physical performance of services for all labor or service contract(s) that exceed \$2,499.99 (except for services performed by an individual who is licensed pursuant to Title 26, Title 43, or the State Bar of Georgia). Failure to provide the Contractor Affidavit and Agreement with your submittal may result in being deemed non-responsive and automatic rejection.

**II. DELIVERY**

- A. Each vendor should state time of proposed delivery of goods or services.
- B. Words such as "immediate," "as soon as possible," etc. should not be used. The known earliest date or the minimum number of calendar days required after receipt of order (delivery A.R.O.) should be stated. If calendar days are used, include Saturday, Sunday, and holidays in the number.

**III. EXPLANATION TO VENDORS**

Any explanation desired by a vendor regarding the meaning or interpretation of the solicitation, drawings, specifications, etc. must be requested by the question cutoff deadline stated in the solicitation for a reply to reach all vendors before the deadline of the solicitation. Any information given to a prospective vendor concerning a solicitation will be furnished to all prospective vendors as an addendum to the solicitation if such information is necessary or if the lack of such information would be prejudicial to uninformed vendors. The written

solicitation documents supersede any verbal or written communications between the parties. Receipt of addenda should be acknowledged in the submittal. **It is the vendor's responsibility to ensure they have all applicable addenda prior to their submittal.** This may be accomplished by contacting the assigned Purchasing Associate prior to the submittal or visiting the Gwinnett County website.

#### IV. SUBMISSION OF FORMAL OFFERS/SUBMITTALS

- A. Formal bid and proposal submittals shall be enclosed in a sealed package or envelope, addressed to the Gwinnett County Purchasing Division with the name of the vendor, the date and hour of opening and the solicitation number on the face of the package or envelope. Facsimile or emailed submittals will not be considered. Any addenda should be enclosed in the sealed envelopes as well.
- B. ADD/DEDUCT: Add or deduct amounts indicated on the outside of the envelope are allowed and will be applied to the lump sum amount. Amount shall be clearly stated and should be initialed by an authorized representative.
- C. Samples of items, when required, must be submitted within the time specified and, unless otherwise specified by the County, at no expense to the County. Unless otherwise specified, samples will be returned at the vendor's request and expense, if items are not destroyed by testing.
- D. Items offered must meet required specifications and must be of a quality that will adequately serve the use and purpose for which intended.
- E. Full identification of each item submitted, including brand name, model, catalog number, etc. must be furnished to identify exactly what the vendor is offering. Manufacturer's literature may be furnished but vendor should not submit excessive marketing material.
- F. The vendor must certify that items to be furnished are new and that the quality has not deteriorated to impair its usefulness.
- G. Unsigned submittals will not be considered except in cases where it is enclosed with other documents that have been signed. The County will determine acceptability in these cases.
- H. Gwinnett County is exempt from federal excise tax and Georgia sales tax regarding goods and services purchased directly by Gwinnett County. Vendors are responsible for federal excise tax and sales tax, including taxes for materials incorporated in county construction projects. Vendors should contact the State of Georgia Sales Tax Division for additional information. Agreements where there is a cost-plus mark-up, mark-up will not be paid on taxes.
- I. Information submitted by a vendor in the solicitation process shall be subject to disclosure after the public opening in accordance with the Georgia Open Records Act.

#### V. WITHDRAWAL DUE TO ERRORS

Vendors must give Gwinnett County Purchasing Division written notice within two (2) business days of completion of the opening stating that they wish to withdraw their submittal without penalty for an obvious clerical or calculation error. Submittal may be withdrawn from consideration if the price was substantially lower than the other submittals due solely to a mistake therein, provided pricing was submitted in good faith, and the mistake was a clerical mistake as opposed to a judgment mistake and was due to an unintentional arithmetic error or

an unintentional omission of a quantity of work, labor or material made directly in the compilation of the submittal. The unintentional arithmetic error or omission can be clearly proven through inspection of the original work papers, documents, and materials used in preparing the submittal sought to be withdrawn. The vendor's original work papers shall be the sole acceptable evidence of error and mistake if a vendor elects to withdraw their submittal. If a quote or bid submittal is withdrawn under the authority of this provision, the lowest remaining responsive offer shall be deemed to be low bid.

No vendor who is permitted to withdraw their submittal shall, for compensation, supply any material or labor or perform any subcontract or other work agreement for the person or firm to whom the contract is awarded or otherwise benefit, directly or indirectly, from the performance of the project for which the withdrawn bid or proposal was submitted.

Vendors who fail to request withdrawal by the required forty-eight (48) hours may automatically forfeit bid bond if a bond was required. Bid may not be withdrawn otherwise.

Withdrawal is not automatically granted and will be allowed solely at Gwinnett County's discretion.

#### VI. TESTING AND INSPECTION

Since tests may require several days for completion, the County reserves the right to use a portion of any supplies before the results of the tests are determined. Cost of inspections and tests of any item that fails to meet the specifications, shall be borne by the vendor.

#### VII. F.O.B. POINT

Unless otherwise stated in the request for invitation and any resulting contract, or unless qualified by the vendor, items shall be shipped F.O.B. Destination, Freight Prepaid and Allowed. The seller shall retain title for the risk of transportation, including the filing for loss or damages. The invoice covering the items is not payable until items are delivered and the contract of carriage has been completed. Unless the F.O.B. clause states otherwise, the seller assumes transportation and related charges either by payment or allowance.

#### VIII. PATENT INDEMNITY

The vendor guarantees to hold the County, its agents, officers, or employees harmless from liability of any nature or kind for use of any copyrighted or uncopyrighted composition, secret process, patented or unpatented invention, articles or appliances furnished or used in the performance of the contract, for which the vendor is not the patentee, assignee, or licensee.

#### IX. BID BONDS AND PAYMENT AND PERFORMANCE BONDS (IF REQUIRED, FORMS WILL BE PROVIDED IN THIS DOCUMENT)

A five percent (5%) bid bond, a one hundred percent (100%) performance bond, and a one hundred percent (100%) payment bond must be furnished to Gwinnett County for any solicitation as required in the solicitation package or document. **Failure to submit a bid bond with the proper rating will result in submittal being deemed non-responsive.** Bonding company must be authorized to do business in Georgia by the Georgia Insurance Commission, listed in the Department of the Treasury's publication of companies holding certificates of authority as acceptable surety on Federal bonds and as acceptable reinsuring companies, and have an A.M. Best rating as stated in the insurance requirement of the solicitation. **The bid bond, payment bond, and performance bond must have the proper A.M. Best rating as stated in the solicitation document.**

#### X. DISCOUNTS

- A. Time payment discounts may be considered in arriving at net prices and in award of solicitations. Offers of discounts for payment within ten (10) days following the end of the month are preferred.
- B. In connection with any discount offered, time will be computed from the date of delivery and acceptance at destination, or from the date correct invoice or voucher is received, whichever is the later date. Payment is deemed to be made for the purpose of earning the discount on the date of the County check.

## **XI. AWARD**

- A. Award will be made to either the highest scoring firm (for proposals) or the lowest responsive and responsible vendor (for quotes/bids). The quality of the articles to be supplied, their conformity with the specifications, their suitability to the requirements of the County, and the delivery terms will be taken into consideration in making the award. The County may make such investigations as it deems necessary to determine the ability of the vendor to perform, and the vendor shall furnish to the County all such information and data for this purpose as the County may request. The County reserves the right to reject any submittal if the evidence submitted by, or investigation of such vendor fails to satisfy the County that such vendor is properly qualified to carry out the obligations of the contract.
- B. The County reserves the right to reject or accept any or all offers and to waive technicalities, informalities and minor irregularities in the submittals received.
- C. The County reserves the right to make an award as deemed in its best interest, which may include awarding to a single vendor or multiple vendors; or to award the whole solicitation agreement, only part of the agreement, or none of the agreement, based on its sole discretion of its best interest.
- D. In the event of proposal scores rounded to the nearest whole number result in a tie score, the award will be based on lowest cost.
- E. If proposal negotiations with the highest ranked firm are unsuccessful, the County may then negotiate with the second ranked firm and so on until a satisfactory agreement has been reached.

## **XII. DELIVERY FAILURES**

Failure of a vendor to deliver within the time specified or within reasonable time as interpreted by the Purchasing Director, or failure to make replacement of rejected articles/services when so requested, immediately or as directed by the Purchasing Director, shall constitute authority for the Purchasing Director to purchase in the open market articles/services of comparable grade to replace the articles/services rejected or not delivered. On all such purchases, the vendor shall reimburse the County within a reasonable time specified by the Purchasing Director for any expense incurred in excess of the contract prices, or the County shall have the right to deduct such amount from monies owed the defaulting vendor. Alternatively, the County may penalize the vendor one percent (1%) per day for a period of up to ten (10) days for each day that delivery or replacement is late. Should public necessity demand it, the County reserves the right to use or consume articles/services delivered which are substandard in quality, subject to an adjustment in price to be determined by the Purchasing Director.

## **XIII. COUNTY FURNISHED PROPERTY**

No material, labor or facilities will be furnished by the County unless so provided in the solicitation package.

**XIV. REJECTION OF SUBMITTALS**

Failure to observe any of the instructions or conditions in this solicitation package may constitute grounds for rejection.

**XV. CONTRACT**

Each submittal is received with the understanding that the acceptance in writing by the County of the offer to furnish any or all the commodities or services described therein shall constitute a contract between the vendor and the County which shall bind the vendor on his part to furnish and deliver the articles quoted at the prices stated in accordance with the conditions of said accepted submittal. The County, on its part, may order from such vendor, except for cause beyond reasonable control, and to pay for, at the agreed prices, all articles specified and delivered.

Upon receipt of a solicitation package containing a Gwinnett County "Sample Contract" as part of the requirements, it is understood that the vendor has reviewed the documents with the understanding that Gwinnett County requires that all agreements between the parties must be entered into via this document. If any exceptions are taken to any part, each must be stated in detail and submitted as part of the vendor's submittal. If no exceptions are stated, it is assumed that the vendor fully agrees to the provisions contained in the "Sample Contract" in its entirety.

Any Consultant as defined in O.C.G.A. §36-80-28 that is engaged to develop or draft specifications/requirements or serve in a consultative role during the procurement process for any County procurement method, by entering into such an arrangement or executing a contract, the consultant agrees to abide by the current state law and: 1) Avoid any appearance of impropriety and shall follow all policies and procedures of the County, 2) Disclose to the County any material transaction or relationship pursuant to §36-80-28, that is considered a conflict of interest, any involvement in litigation or other dispute, relationship, or financial interest not disclosed in the ethics affidavit, and 3) Acknowledge that any violation or threatened violation of the agreement may cause irreparable injury to the County, entitling the County to seek injunctive relief in addition to all other legal remedies.

When the vendor has performed in accordance with the provisions of this agreement, Gwinnett County shall pay to the vendor, within thirty (30) days of receipt of any department approved payment request and based upon work completed or service provided pursuant to the contract, the sum so requested, less the retainage stated in this agreement, if any. If Gwinnett County fails to pay the vendor within sixty (60) days of receipt of a pay request based upon work completed or service provided pursuant to the contract, the County shall pay the vendor interest at the rate of ½% per month or pro rata fraction thereof, beginning the sixty-first (61<sup>st</sup>) day following receipt of pay requests. The vendor's acceptance of progress payments or final payment shall release all claims for interest on said payment.

The parties agree that this Contract shall be governed and construed in accordance with the laws of the State of Georgia.

**XVI. NON-COLLUSION**

Vendor declares that the submittal is not made in connection with any other vendor's submittal for the same commodity or commodities, and that the submittal is bona fide and is in all respects fair and without collusion or fraud. An affidavit of non-collusion shall be executed by each vendor. Collusion and fraud in submittal preparation shall be reported to the State of Georgia Attorney General and the United States Justice Department.

**XVII. DEFAULT**

The contract may be canceled or annulled by the Purchasing Director in whole or in part by written notice of default to the vendor upon non-performance or violation of contract terms. An award may be made to the next low responsive and responsible vendor, or the next highest scoring responsive and responsible proposer, or articles specified may be purchased on the open market similar to those so terminated. In either event, the defaulting vendor (or their surety) shall be liable to the County for costs to the County in excess of the defaulted contract prices; provided, however, that the vendor shall continue the performance of this contract to the extent not terminated under the provisions of this clause. Failure of the vendor to deliver materials or services within the time stipulated on their offer, unless extended in writing by the Purchasing Director, shall constitute contract default.

**XVIII. TERMINATION FOR CAUSE**

The County may terminate this agreement for cause upon ten days prior written notice to the vendor of the vendor's default in the performance of any term of this agreement. Such termination shall be without prejudice to any of the County's rights or remedies by law.

**XIX. TERMINATION FOR CONVENIENCE**

The County may terminate this agreement for its convenience at any time upon 30 days written notice to the vendor. In the event of the County's termination of this agreement for convenience, the vendor will be paid for those services actually performed. Partially completed performance of the agreement will be compensated based upon a signed statement of completion to be submitted by the vendor, which shall itemize each element of performance.

**XX. SUBSTITUTIONS**

Vendors offering substitutions or who are deviating from the attached specifications shall list such deviations on a separate sheet to be submitted with their offer. The absence of such a substitution list shall indicate that the vendor has taken no exception to the specifications contained herein.

**XXI. INELIGIBLE VENDORS**

The County may choose not to accept the offer by an individual, firm, or business who is in default on the payment of taxes, licenses, or other monies owed to the County. Additionally, vendors or persons placed on an Ineligible Source List for reasons listed in Part 6, Section II of the Gwinnett County Purchasing Ordinance shall not be eligible to provide any commodities or services to the County during the period such person remains on the Ineligible Source List.

**XXII. PENDING LITIGATION**

An individual, firm, or business that has litigation pending against the County, or anyone representing a firm or business in litigation against the County, not arising out of the procurement process, will be disqualified.

**XXIII. OCCUPATION TAX CERTIFICATE**

Each successful vendor must have a valid Gwinnett County occupation tax certificate if the vendor maintains an office within the unincorporated area of Gwinnett County. Incorporated, out of County, and out of State vendors are required to have any and all certificates necessary to do business in any town, County or municipality in the State of Georgia, or as otherwise required by County ordinance or resolution. Vendors may be required to provide evidence of valid certificates. Out of State vendors are required to have a certificate in the Georgia jurisdiction where they receive the most revenue.

**XXIV. PURCHASING POLICY AND REVIEW COMMITTEE**

The Purchasing Policy & Review Committee has been established to review purchasing procedures and make recommendations for changes; resolve problems regarding the purchasing process; make recommendations for standardization of commodities, schedule buying, qualified products list, annual contracts, supplier performance (Ineligible Source List), and other problems or requirements related to purchasing. The Purchasing Policy & Review Committee has authority to place vendors on the Ineligible Source List for reasons listed in Part 6, Section II of the Gwinnett County Purchasing Ordinance, for a period not to exceed three (3) years.

**XXV. AMERICANS WITH DISABILITIES ACT**

All vendors for Gwinnett County are required to comply with all applicable sections of the Americans with Disabilities Act (ADA) as an equal opportunity employer. In compliance with the Americans with Disabilities Act (ADA), Gwinnett County provides reasonable accommodations to permit a qualified applicant with a disability to enjoy the privileges of employment equal to those employees without disabilities. Disabled individuals must satisfy job requirements for education background, employment experience, and must be able to perform those tasks that are essential to the job with or without reasonable accommodations. Any requests for the reasonable accommodations required by individuals to fully participate in any open meeting, program or activity of Gwinnett County should be directed to the ADA Coordinator, 75 Langley Drive, Lawrenceville, Georgia 30046, 770-822-8165.

**XXVI. ALTERATIONS OF SOLICITATION AND ASSOCIATED DOCUMENTS**

Alterations of County documents are strictly prohibited and will result in automatic disqualification of the vendor's solicitation response. If there are "exceptions" or comments to any of the solicitation requirements or other language, then the firm may make notes to those areas, but may not materially alter any document language.

**XXVII. TAX LIABILITY**

Local and state governmental entities must notify vendors of their use tax liability on public works projects. Under Georgia law, private vendors are responsible for paying a use tax equal to the sales tax rate on material and equipment purchased under a governmental exemption that is incorporated into a government construction project: excluding material and equipment provided for the installation, repair, or expansion of a public water, gas, or sewer system when the property is installed for general distribution purposes. To the extent the tangible personal property maintains its character (for example, the installation of a kitchen stove), it remains tax-exempt. However, if the installation incorporates the tangible personal property into realty (for example, the installation of sheetrock), it becomes taxable to the private vendor. See O.C.G.A. §48-8-3(2) and O.C.G.A. §48-8-63.

**XXVIII. STATE AND FEDERAL LAW REGARDING WORKER VERIFICATION**

Effective July 1, 2013 State Law requires that all who enter into a contract for the physical performance of services for all labor or service contract(s) that exceed \$2,499.99 (except for services performed by an individual who is licensed pursuant to Title 26, Title 43, or the State Bar of Georgia) and that all who enter into a contract for public works as defined by O.C.G.A. §36-91-2(12) for the County, must satisfy the Illegal Immigration Reform Enhancements for 2013 in conjunction with the Federal Immigration Reform and Control Act (IRCA) of 1986, in all manner, and such are conditions of the contract.

The Purchasing Division Director with the assistance of the Internal Audit Division shall be authorized to conduct random audits of a vendor's or subcontractors' compliance with the Illegal Immigration Reform Enhancements for 2013 and the rules and regulations of the Georgia Department of Labor. The vendor and subcontractors shall retain all documents and records of

its compliance for a period of five (5) years following completion of the contract or shall abide by the current time requirements at the time of the contract. This requirement shall apply to all contracts for all public works, labor or service contracts that exceed \$2,499.99 except for services performed by an individual who is licensed pursuant to Title 26, Title 43, or the State Bar of Georgia.

Whenever it appears that a vendor's or subcontractor's records are not sufficient to verify the work eligibility of any individual in the employment of such vendor or subcontractor, the Purchasing Director shall report same to the Department of Homeland Security and may result in termination of the contract if it is determined at any time during the work that the vendor or subcontractor is no longer in compliance with worker verification.

By submitting an offer to the County, vendor agrees that, in the event the vendor employs or contracts with any subcontractor(s) in connection with the covered contract, the vendor will secure from the subcontractor(s) such subcontractor(s)' indication of the employee-number category applicable to the subcontractor, as well as attestation(s) from such subcontractor(s) that they follow the Illegal Immigration Reform Enhancements for 2013 in conjunction with all federal requirements. Original signed, notarized Subcontractor Affidavits and Agreements must be maintained by the vendor awarded the contract.

A vendor's or subcontractor's failure to participate in the federal work authorization program as defined above shall be subject to termination of the contract. A vendor's failure to follow Gwinnett County's instruction to terminate a subcontractor that is not participating in the federal work authorization program may be subject to termination of the contract.

**XXIX. SOLID WASTE ORDINANCE**

No individual, partnership, corporation, or other entity shall engage in solid waste handling except in such a manner as to conform to and comply with the current Gwinnett County Solid Waste Ordinance and all other applicable local, state and federal legislation, rules, regulation, and orders.

**XXX. GENERAL CONTRACTORS LICENSE**

Effective July 1, 2008: All General Contractors must have a current valid license from the State Licensing Board for Residential and General Contractors, unless specifically exempted from holding such license pursuant to Georgia law (O.C.G.A. §43-41-17).

**XXXI. PRODUCTS MANUFACTURED IN GEORGIA**

When contracting for or purchasing supplies, materials, equipment, or agricultural products that exceeds \$100,000.00, excluding beverages for immediate consumption, Gwinnett County shall give preference as far as may be reasonable and practicable to such supplies, materials, equipment, and agricultural products as may be manufactured or produced in this state. Such preference shall not sacrifice quality. Gwinnett County Board of Commissioners shall consider, among other factors, information submitted by the vendor which may include the vendor's estimate of the multiplier effect on gross state domestic product and the effect on public revenues of the state and the effect on public revenues of political subdivisions resulting from acceptance of an offer to sell Georgia manufactured or produced goods as opposed to out-of-state manufactured or produced goods. Any such estimates shall be in writing. (O.C.G.A. §36-84-1).

**XXXII. INDEMNIFICATION**

To the fullest extent permitted by law, the vendor shall, at his sole cost and expense, indemnify, defend, satisfy all judgments, and hold harmless the County, its commissioners, officers, agents, and employees from and against all claims, damages, actions, judgments, costs, penalties,

liabilities, losses and expenses, including, but not limited to, attorney's fees arising out of or resulting from the performance of the work, provided that any such claim, damage, action, judgment, cost, penalty, liability, loss or expense (1) is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the work itself) including the loss of use resulting therefrom, and (2) is caused in whole or in part by the negligent acts, errors by any act or omission of the vendor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless whether such claim is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or otherwise reduce any of the rights or obligations of indemnity which would otherwise exist as to any party or person described in this agreement. In any and all claims against the County, its commissioners, officers, agents, and employees by any employee of the vendor, any subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the indemnification obligation contained herein 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 vendor or any subcontractor under Worker's Compensation Acts, disability benefit acts, or other employee benefit acts.

Vendor shall also indemnify, hold harmless, insure, and defend the County for damages, losses, or expenses to the extent caused by or resulting from the negligence, recklessness, or intentionally wrongful conduct of the vendor or other persons employed or utilized by the vendor in the performance of a contract that utilizes survey services.

### **XXXIII. CODE OF ETHICS**

Vendors shall disclose under oath the name of all elected officials whom it employs or who have a direct or indirect pecuniary interest in the business entity, its affiliates, or its subcontractors. (This shall not apply to informal purchases as defined by the Purchasing Ordinance.) The vendor shall execute a Code of Ethics affidavit. Failure to submit the affidavit during the procurement process shall render the offer non-responsive.

Any business entity holding a contract with Gwinnett County that after execution of the contract or issuance of the purchase order employs, subcontracts with, or transfers a direct or indirect pecuniary interest in the business entity to an elected official shall within five (5) days disclose such fact in writing under oath to the Clerk of the Board of Commissioners. Failure to comply, or vendors submitting false information or omitting material information shall be referred to the Purchasing Policy & Review Committee for action pursuant to the Purchasing Ordinance or to the District Attorney for possible criminal prosecution. Note: See Gwinnett County Code of Ethics Ordinance EO2011, Sec. 54-33. The ordinance is available to view in its entirety at [www.gwinnettcountry.com](http://www.gwinnettcountry.com).

### **XXXIV. ELECTRONIC PAYMENT**

Vendors accepting procurements should select one of Gwinnett County's electronic payment options.

- A. A vendor may select ePayables payment process which allows acceptance of Gwinnett County's virtual credit card as payment for outstanding invoices. The authorized vendor representative must send an email to: [vendorelectronicpayment@gwinnettcountry.com](mailto:vendorelectronicpayment@gwinnettcountry.com) and indicate the desire to enroll in Gwinnett County's virtual credit card payment process.
- B. A vendor may select Direct Deposit payment process and the payment will be deposited directly into an account at their designated financial institution. To securely enroll in Direct Deposit, either access your online [Vendor Login and Registration](#) on the County's web site

and update the requested information on the Direct Deposit tab or mail a [Direct Deposit Authorization Agreement](#) form.

County staff are required to verify receipt of goods and submit proof of delivery of services with invoice before payment is processed. Failure to provide proof of delivery of goods and/or services may result in delayed payment.

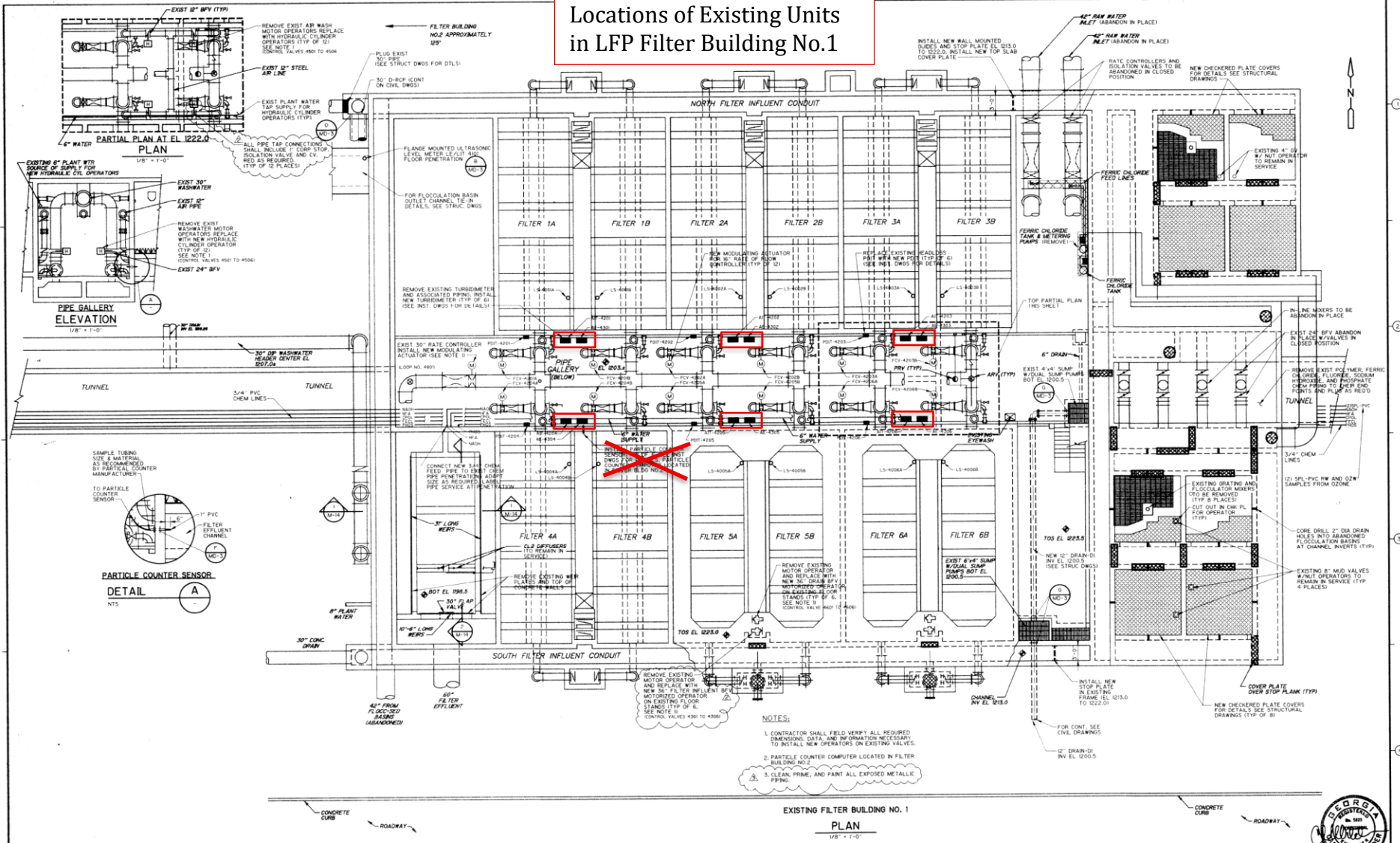
The County will send a Payment Advice notification via email for both payment types. For more information about Electronic Payments, please visit the Gwinnett County Treasury Division page or click here -> [Gwinnett County Electronic Payments](#).

#### **DIRECTIONS TO GJAC BUILDING FROM I-85**

Take I-85 to Georgia Highway 316 (Lawrenceville/Athens exit). Exit Highway 120 (Lawrenceville/Duluth exit) and turn right. At seventh traffic light, turn right onto Langley Drive. Cross Highway 29 through the traffic light and proceed through the roundabout. Visitors can either proceed to the front parking area on the left or to the parking deck behind the building. Click [here](#) for additional information about parking. **The Purchasing Division is located on second floor of the Gwinnett Justice and Administration Center at 75 Langley Drive, Lawrenceville, Georgia 30046. WE HAVE MOVED BACK TO OUR PERMANENT LOCATION.**

**ATTACHMENT 1: LFP Existing Drawings and Photos**

# Locations of Existing Units in LFP Filter Building No.1



3-30-95	TMM	MCN	CONFIRMED DWGS	DESIGNED BY: A. J. JIM
7-10-95	TMM	MCN	REVISED PER ADDENDUM NO. 3	DRAWN BY: D. BRIDGEMAN
3-30-95	TMM	MCN	REVISED PER ADDENDUM NO. 2	CROSS CHECK BY: M. PITTS
REV.	DATE	DRWN	CHKD	APPROVED BY: C. WILDER
				DATE: JUNE 1995

CAMP DRESSER & MCKEE, INC.

environmental engineers, architects, planners & management consultants

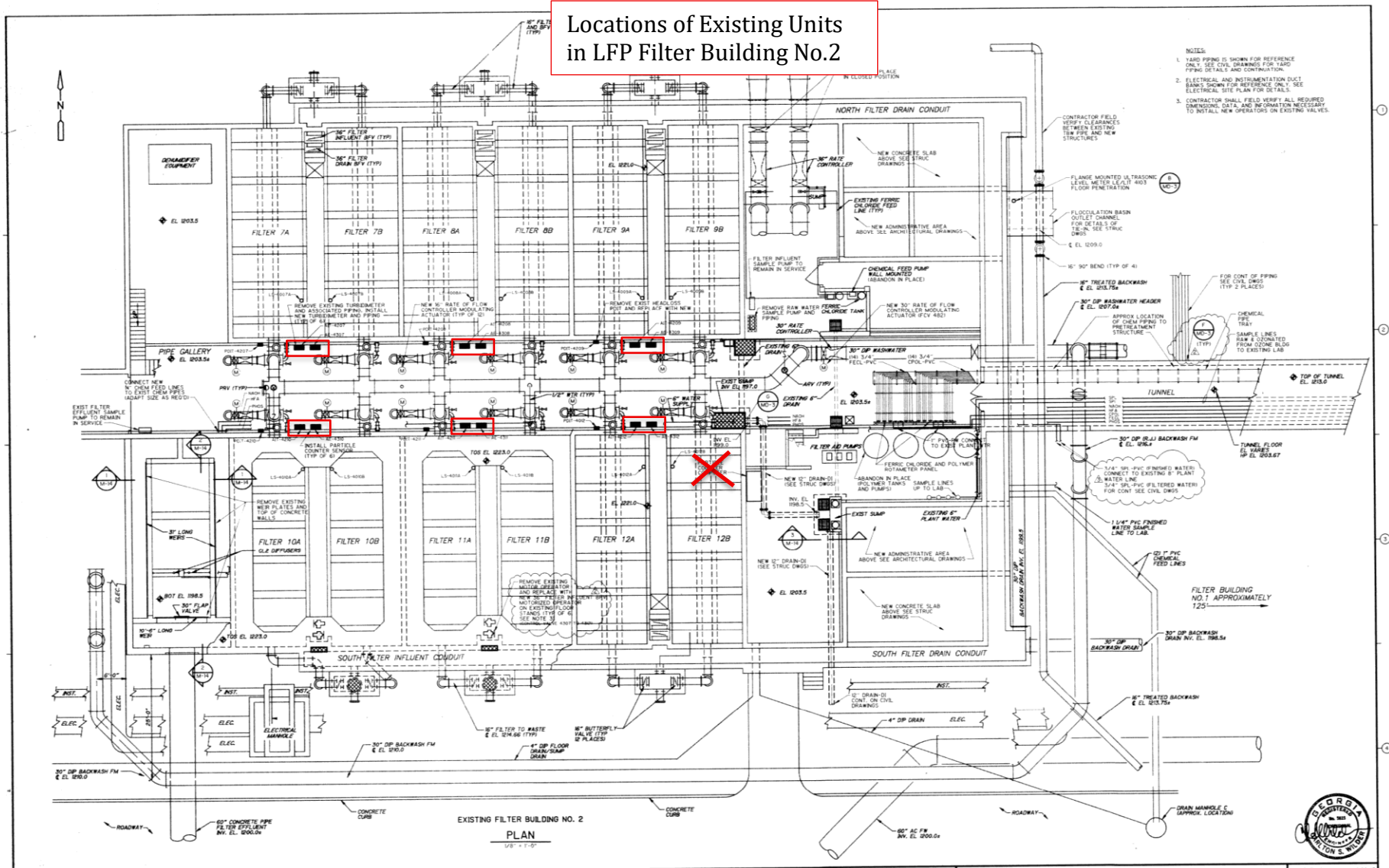
DEPARTMENT OF PUBLIC UTILITIES  
GWINNETT COUNTY, GEORGIA

LANIER FILTER PLANT  
EXPANSION AND UPGRADE

EXISTING FILTER BUILDING NO.1  
DEMOLITION AND MODIFICATIONS  
PLANS AND SECTIONS

PROJECT NO.	6150-15
FILE NAME:	6150LM2
SHEET NO.	M-12

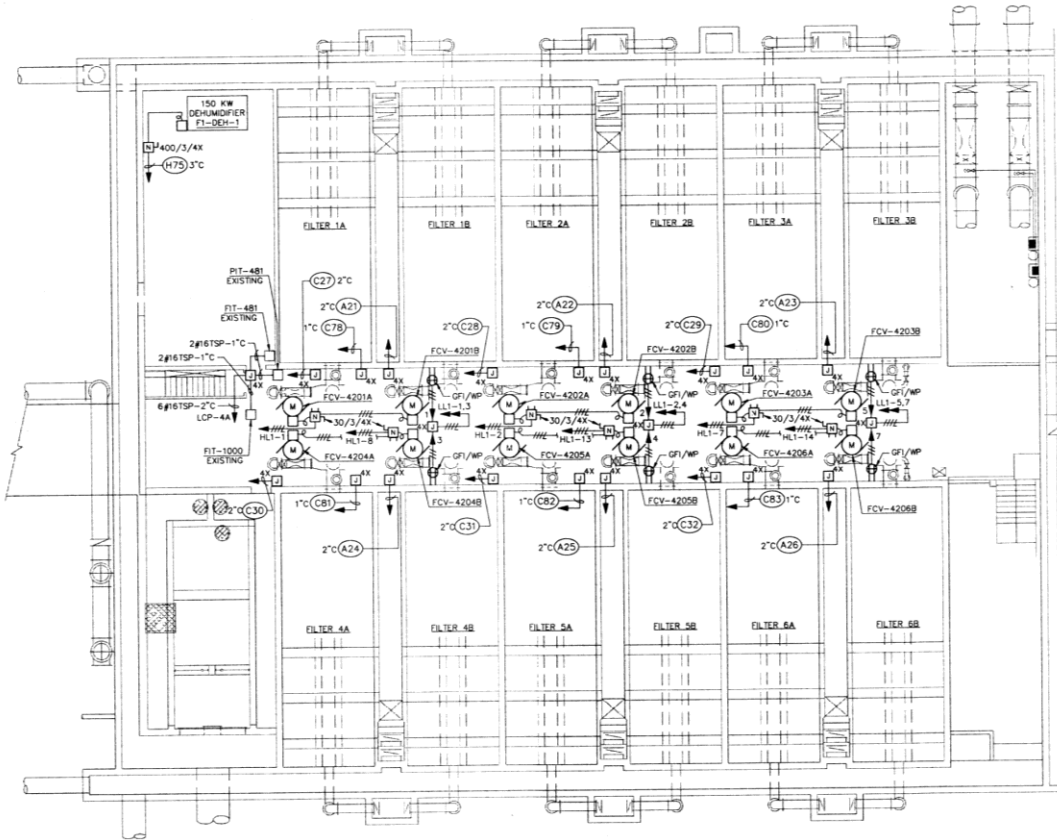
Locations of Existing Units  
in LFP Filter Building No.2



- NOTES:
1. YARD PIPING IS SHOWN FOR REFERENCE ONLY. SEE CIVIL DRAWINGS FOR YARD PIPING DETAILS AND CONTINUATION.
  2. ELECTRICAL AND INSTRUMENTATION DUCT BANKS SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL SEE PLAN FOR DETAILS.
  3. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED DIMENSIONS, DATA AND INFORMATION NECESSARY TO INSTALL NEW OPERATORS ON EXISTING VALVES.

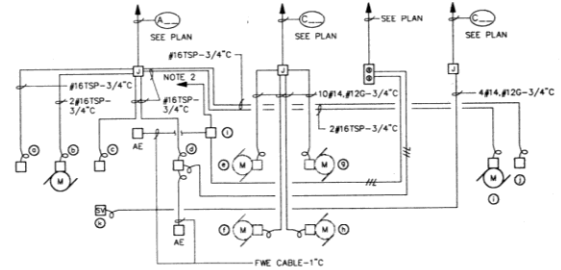
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REV. NO.</th> <th>DATE</th> <th>DRWN.</th> <th>CHKD.</th> <th>REMARKS</th> </tr> <tr> <td>1</td> <td>7-10-95</td> <td>TMM</td> <td>MCH</td> <td>REVISED PER ADDENDUM NO. 3</td> </tr> <tr> <td>2</td> <td>5-30-96</td> <td>TMM</td> <td>MCH</td> <td>REVISED PER ADDENDUM NO. 2</td> </tr> </table>	REV. NO.	DATE	DRWN.	CHKD.	REMARKS	1	7-10-95	TMM	MCH	REVISED PER ADDENDUM NO. 3	2	5-30-96	TMM	MCH	REVISED PER ADDENDUM NO. 2	DESIGNED BY: J. KIM DRAWN BY: J. BURGESS CHECKED BY: M. JONES CROSSLING BY: M. JONES APPROVED BY: C. WILDER DATE: JUNE 1995	CAMP DRESSER & MCKEE, INC.  	DEPARTMENT OF PUBLIC UTILITIES GWINNETT COUNTY, GEORGIA  <b>LANIER FILTER PLANT                  EXPANSION AND UPGRADE</b>	<b>EXISTING FILTER BUILDING NO.2                  DEMOLITION AND MODIFICATIONS PLAN</b>	PROJECT NO. 650-15 FILE NAME: 670LM13  SHEET NO. <b>M-13</b>
REV. NO.	DATE	DRWN.	CHKD.	REMARKS																
1	7-10-95	TMM	MCH	REVISED PER ADDENDUM NO. 3																
2	5-30-96	TMM	MCH	REVISED PER ADDENDUM NO. 2																

Existing Electrical Plan in LFP Filter Building No.1



NOTES:

- ALL EXPOSED CONDUIT, FITTINGS, ETC. SHALL BE PVC COATED GALVANIZED RIGID STEEL IN ALL AREAS EXCEPT ELECTRICAL ROOM.  
ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL HAVE A MINIMUM RATING OF NEMA 4X IN ALL AREAS EXCEPT ELECTRICAL ROOM.  
ALL SUPPORTING MATERIALS AND HARDWARE SHALL BE STAINLESS STEEL IN ALL AREAS EXCEPT ELECTRICAL ROOM.
- HOMERUN FWE CABLE IN 1" TO EACH RESPECTIVE FILTER CONSOLE (TYPICAL FOR SIX THIS DRAWING).



FILTER CONTROLS ELECTRICAL INSTRUMENT RISER (TYPICAL FOR FILTERS 1-6)

- LEGEND:
- ⊖ - FLOW TRANSMITTER A (FIT)
  - ⊖ - FLOW TRANSMITTER B (FIT)
  - ⊖ - FLOW CONTROL VALVE A (FCV)
  - ⊖ - FLOW CONTROL VALVE B (FCV)
  - ⊖ - FILTER TURBIDITY (AIT)
  - ⊖ - WASHWATER INFLUENT VALVE A (CV)/EXISTING
  - ⊖ - AIRWASH INFLUENT VALVE A (CV)/EXISTING
  - ⊖ - WASHWATER INFLUENT VALVE B (CV)/EXISTING
  - ⊖ - AIRWASH INFLUENT VALVE B (CV)/EXISTING
  - ⊖ - FLOW CONTROL VALVE B (FCV)
  - ⊖ - FLOW TRANSMITTER B (FIT)
  - ⊖ - SV- /POIT
  - ⊖ - AIT/PARTICLE COUNTER

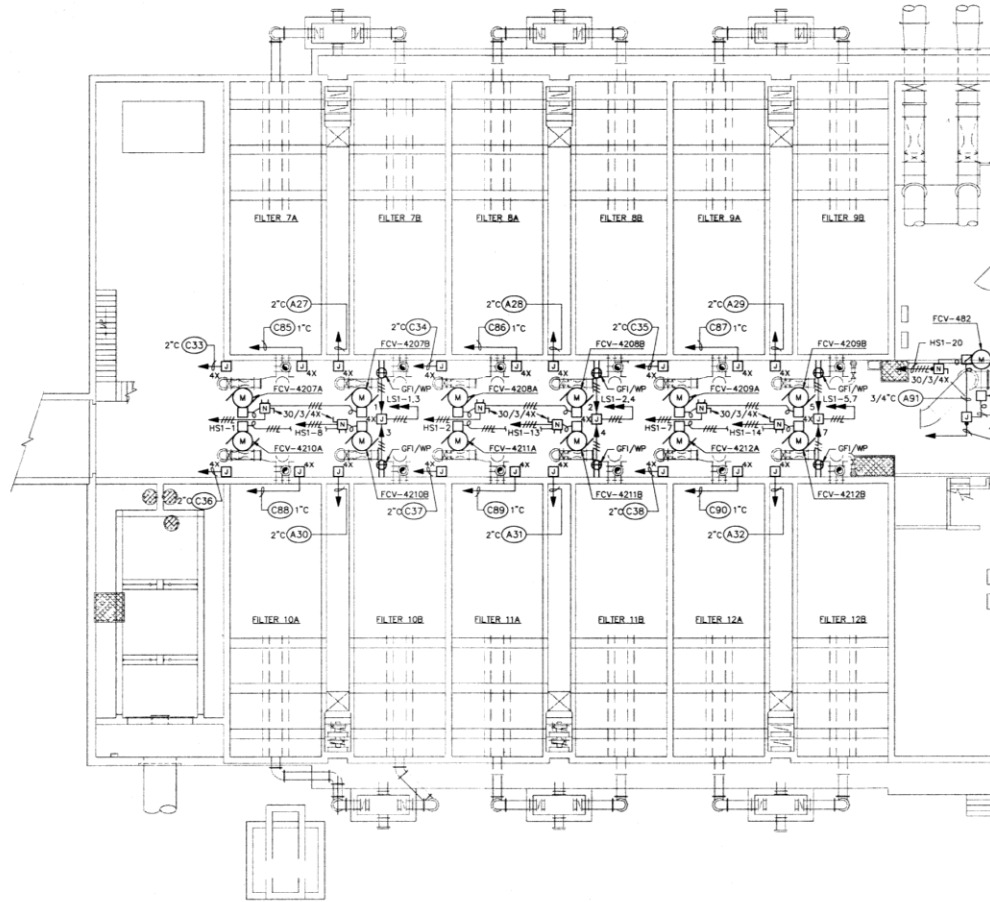
FILTER BUILDING NO. 1 FILTER GALLERY DEVICE/LOOP NO. SCHEDULE												
FILTER NO.	FIT-	FCV-	POIT-	AIT-	CV-	CV-	CV-	FCV-	FIT-	SV-	AIT-	
1	4201A	4201A	4201	4201	4401A	4501A	4401B	4501B	4201B	4201	4901	
2	4202A	4202A	4202	4202	4402A	4502A	4402B	4502B	4202B	4202	4902	
3	4203A	4203A	4203	4203	4403A	4503A	4403B	4503B	4203B	4203	4903	
4	4204A	4204A	4204	4204	4404A	4504A	4404B	4504B	4204B	4204	4904	
5	4205A	4205A	4205	4205	4405A	4505A	4405B	4505B	4205B	4205	4905	
6	4206A	4206A	4206	4206	4406A	4506A	4406B	4506B	4206B	4206	4906	

BOTTOM PLAN  
1/8" = 1'-0"  
NOTE 1

DESIGNED BY: WMO DRAWN BY: JSC CHECKED BY: WMO APPROVED BY: SELH DATE: JUNE, 1995		CAMP DRESSER & MCKEE, INC. environmental engineers, architects, planners, & management scientists		DEPARTMENT OF PUBLIC UTILITIES OAKBERRY COUNTY, GEORGIA LANIER FILTER PLANT EXPANSION AND UPGRADE		FILTER BUILDING NO.1 LOWER LEVEL ELECTRICAL MODIFICATION PLAN		PROJECT NO: 7027.003 SHEET NO: E-30		
REV. NO.	DATE	BY	CHKD.	REMARKS						
1	8/28/95	JSC		REVISED AND REISSUED PER ADDENDUM NO. 2						

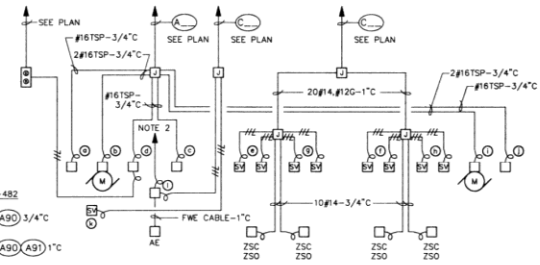


Existing Electrical Plan in  
LFP Filter Building No.2



NOTES:

- ALL EXPOSED CONDUIT, FITTINGS, ETC. SHALL BE PVC COATED GALVANIZED RIGID STEEL IN ALL AREAS EXCEPT ELECTRICAL ROOM. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL HAVE A MINIMUM RATING OF NEMA 4X IN ALL AREAS EXCEPT ELECTRICAL ROOM. ALL SUPPORTING MATERIALS AND HARDWARE SHALL BE STAINLESS STEEL IN ALL AREAS EXCEPT ELECTRICAL ROOM.
- HOMERUN FWE CABLE IN 1" TO EACH RESPECTIVE FILTER CONSOLE (TYPICAL FOR SIX THIS DRAWING).



FILTER CONTROLS ELECTRICAL/INSTRUMENT RISER  
(TYPICAL FOR FILTERS 7-12)

- LEGEND
- ⊙ - FLOW TRANSMITTER A (FIT)/EXISTING
  - ⊙ - FLOW CONTROL VALVE A (FCV)
  - ⊙ - FILTER PRESSURE DIFFERENTIAL (PDI)
  - ⊙ - FILTER TURBIDITY (AIT)
  - ⊙ - WASHWATER INFLUENT VALVE A (CV)/EXISTING
  - ⊙ - AIRWASH INFLUENT VALVE A (CV)/EXISTING
  - ⊙ - WASHWATER INFLUENT VALVE B (CV)/EXISTING
  - ⊙ - AIRWASH INFLUENT VALVE B (CV)/EXISTING
  - ⊙ - FLOW CONTROL VALVE B (FCV)
  - ⊙ - FLOW TRANSMITTER B (FIT)/EXISTING
  - ⊙ - SW - /PDI
  - ⊙ - AIT/PARTICLE COUNTER

FILTER BUILDING NO. 2 FILTER GALLERY DEVICE/LOOP NO. SCHEDULE															
FILTER NO.	FIT-	FCV-	PDI-	AIT-	CV-	CV-	CV-	CV-	FCV-	FIT-	SW-	AIT-			
7	4207A	4207A	4207	4207	4407A	4507A	4407B	4507B	4207B	4207B	4207	4907			
8	4208A	4208A	4208	4208	4408A	4508A	4408B	4508B	4208B	4208B	4208	4908			
9	4209A	4209A	4209	4209	4409A	4509A	4409B	4509B	4209B	4209B	4209	4909			
10	4210A	4210A	4210	4210	4410A	4510A	4410B	4510B	4210B	4210B	4210	4910			
11	4211A	4211A	4211	4211	4411A	4511A	4411B	4511B	4211B	4211B	4211	4911			
12	4212A	4212A	4212	4212	4412A	4512A	4412B	4512B	4212B	4212B	4212	4912			

BOTTOM PLAN  
1/8" = 1'-0"  
NOTE 1

REV. NO.	DATE	BY	CHKD.	REMARKS
1	6/28/95	DJC		REVISED AND REISSUED PER ADDENDUM NO. 2
2				
3				

DESIGNED BY: JMO  
DRAWN BY: ADL  
SHEET CHECKED BY: JSC  
CHECKED BY: JMO  
APPROVED BY: DCM  
DATE: JUNE, 1995

CAMP DRESSER & MCKEE, INC.



DEPARTMENT OF PUBLIC UTILITIES  
GWINNETT COUNTY, GEORGIA

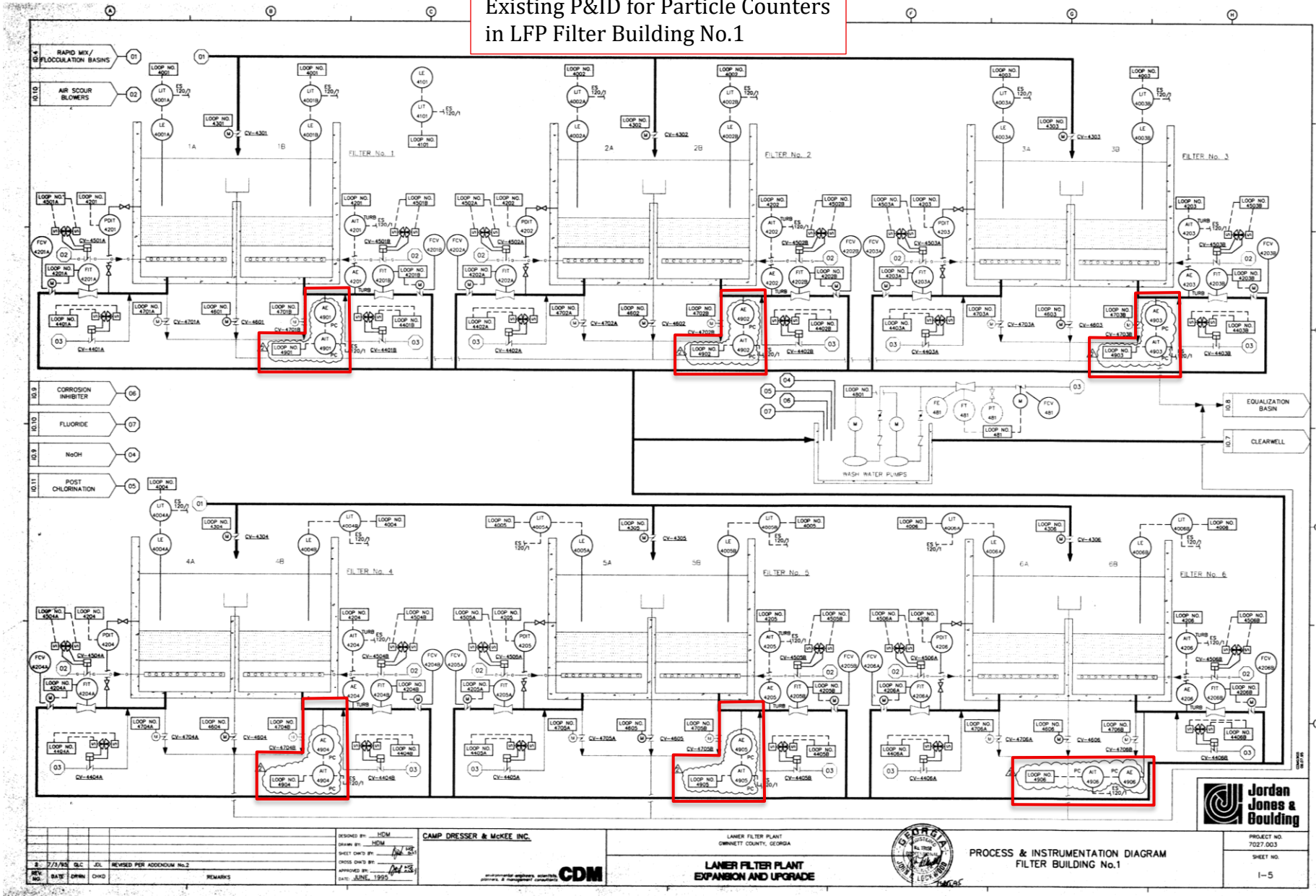
LANIER FILTER PLANT  
EXPANSION AND UPGRADE

FILTER BUILDING NO.2  
LOWER LEVEL  
ELECTRICAL MODIFICATION PLAN



PROJECT NO. 7027.003  
SHEET NO. E-34

Existing P&ID for Particle Counters  
in LFP Filter Building No.1



REV. NO.	DATE	BY	CHKD.	REVISION	REMARKS
1	7/7/92	SLC	JL	REVISED PER ADDENDUM No.2	
2					
3					

DESIGNED BY: MCM  
 DRAWN BY: SEM  
 CHECKED BY: [Signature]  
 APPROVED BY: [Signature]  
 DATE: JUNE, 1993

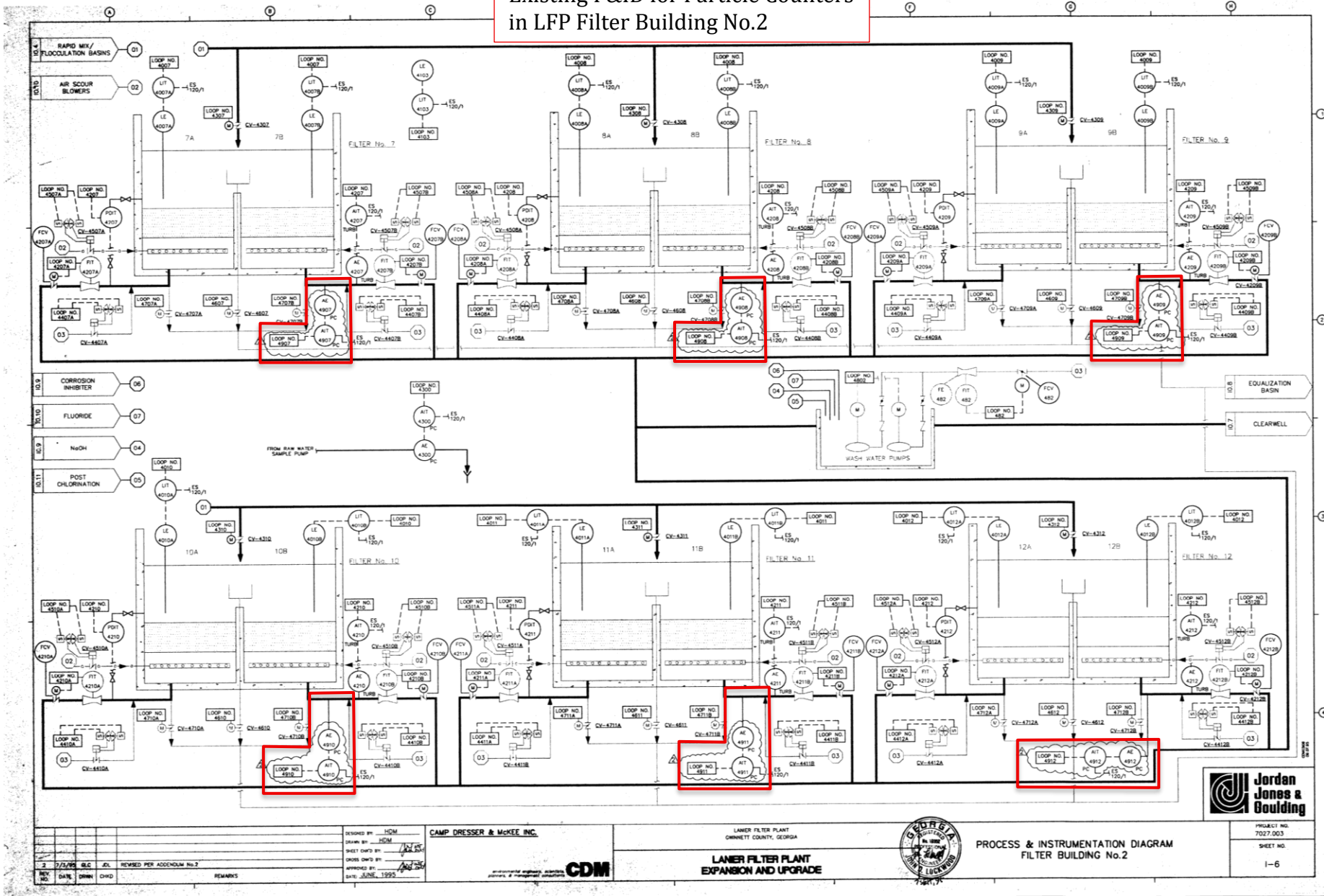
CAMP DRESSER & MCKEE, INC.  
**CDM**

LANIER FILTER PLANT  
 DUNNETT COUNTY, GEORGIA  
**LANIER FILTER PLANT  
 EXPANSION AND UPGRADE**

PROCESS & INSTRUMENTATION DIAGRAM  
 FILTER BUILDING No.1

PROJECT NO. 7027.003  
 SHEET NO. I-5

Existing P&ID for Particle Counters  
in LFP Filter Building No.2



REV. NO.	DATE	BY	CHKD.	REVISIONS
2	7/7/00	ELC	JL	REVISED PER ADDENDUM No. 2

DESIGNED BY: JDM  
 DRAWN BY: JDM  
 CHECKED BY: JDM  
 APPROVED BY: JDM  
 DATE: JUNE, 1995

CAMP DRESSER & MCKEE, INC.  
 10000 W. 11th Street, Suite 100  
 Overland Park, KS 66211  
 (913) 666-1100  
**CDM**

LANIER FILTER PLANT  
 GWINNETT COUNTY, GEORGIA  
**LANIER FILTER PLANT  
 EXPANSION AND UPGRADE**

PROCESS & INSTRUMENTATION DIAGRAM  
 FILTER BUILDING No. 2

PROJECT NO. 7027.003  
 SHEET NO. I-6

Photographs for Existing Installations at Lanier Filter Plant

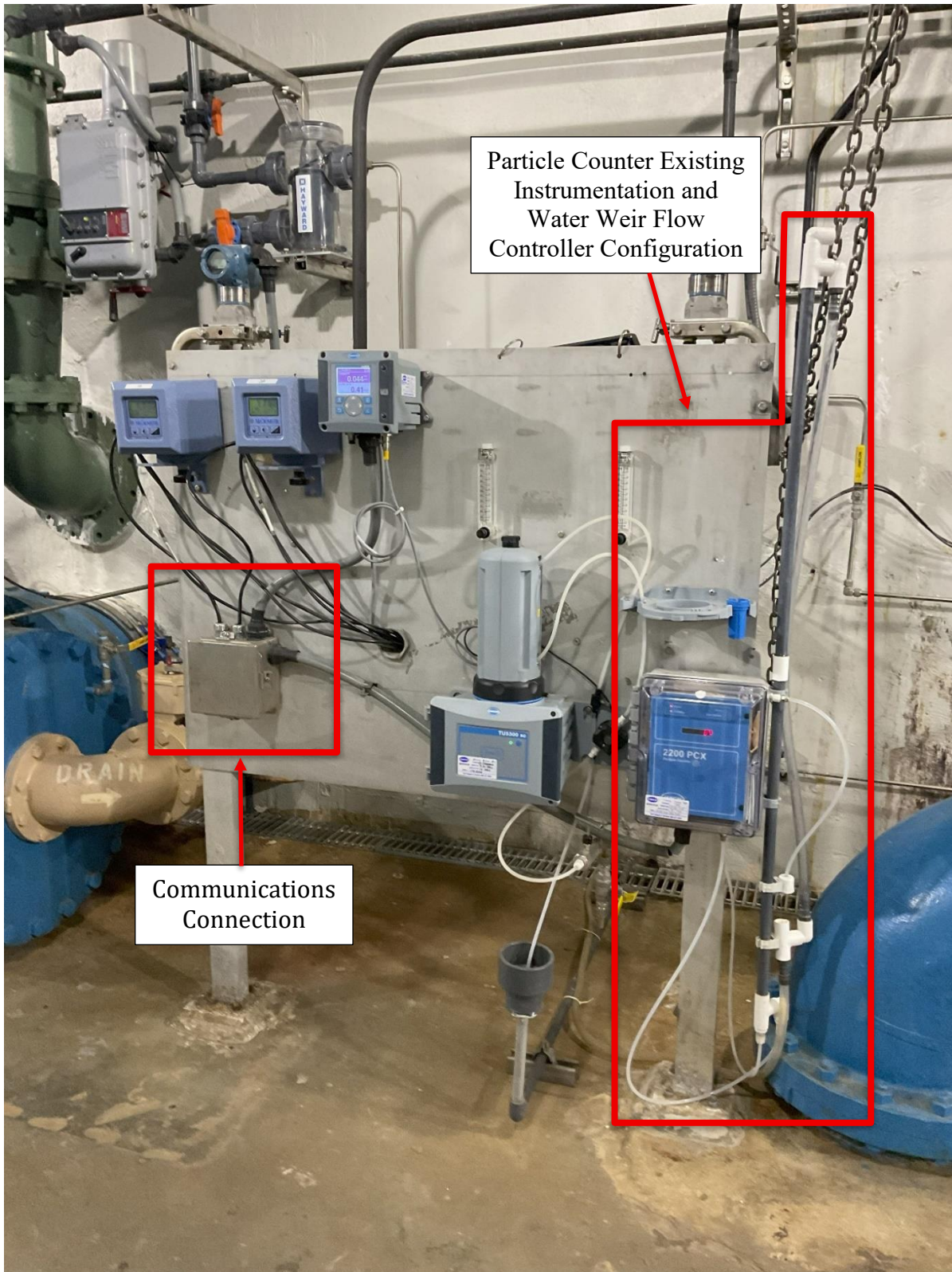
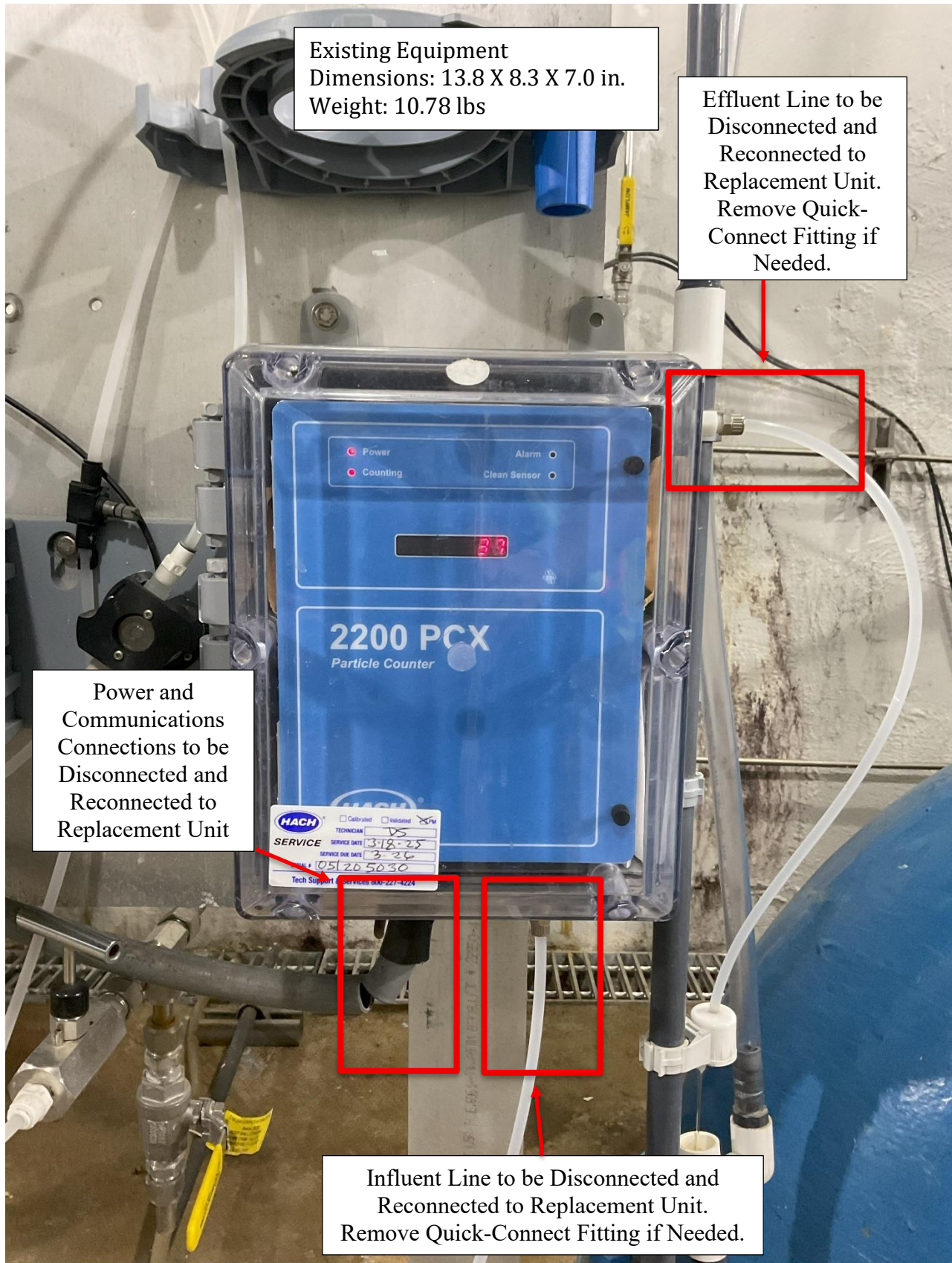
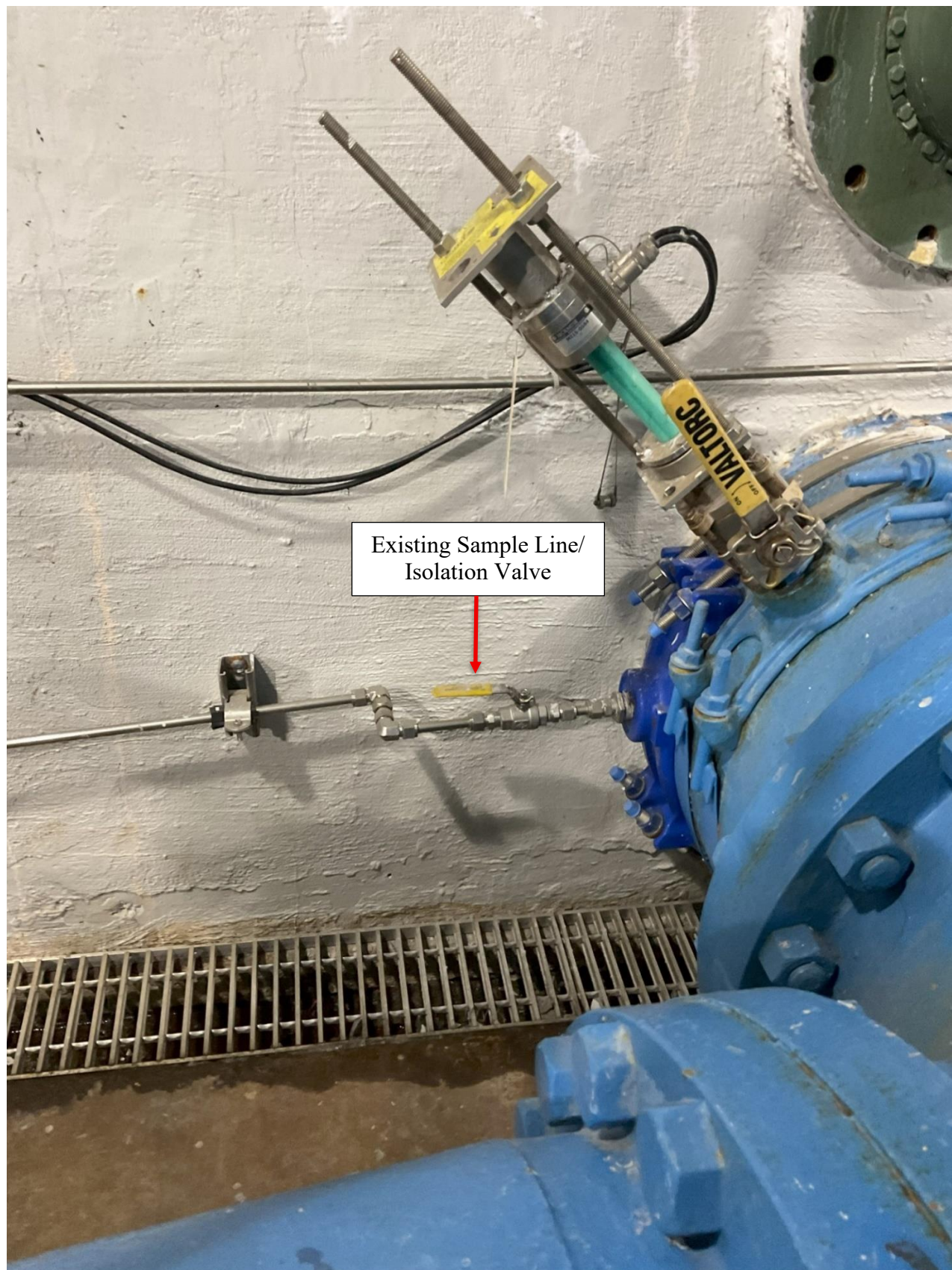


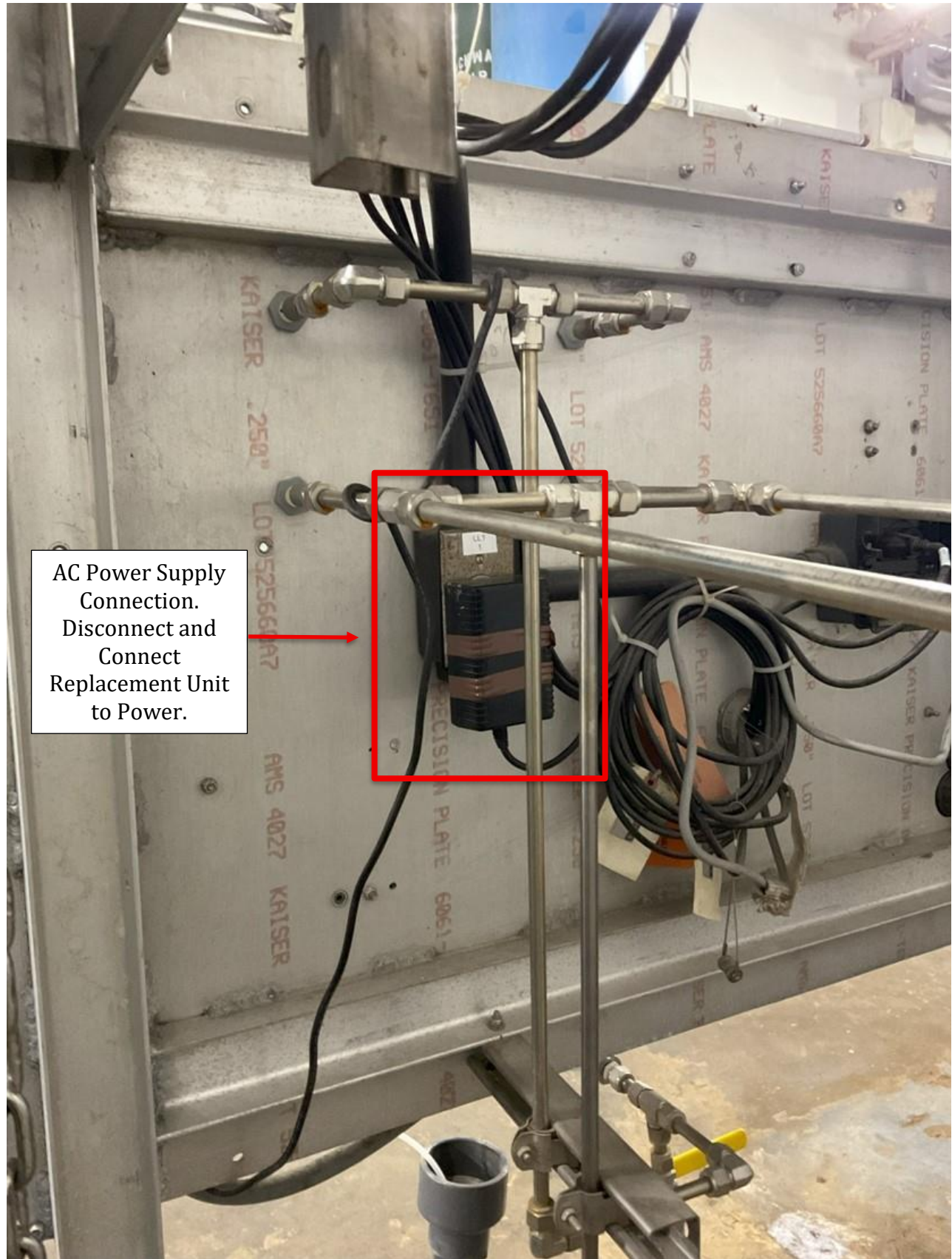
Photo 1: LFP Existing Filter Instrumentation Rack (TYP)



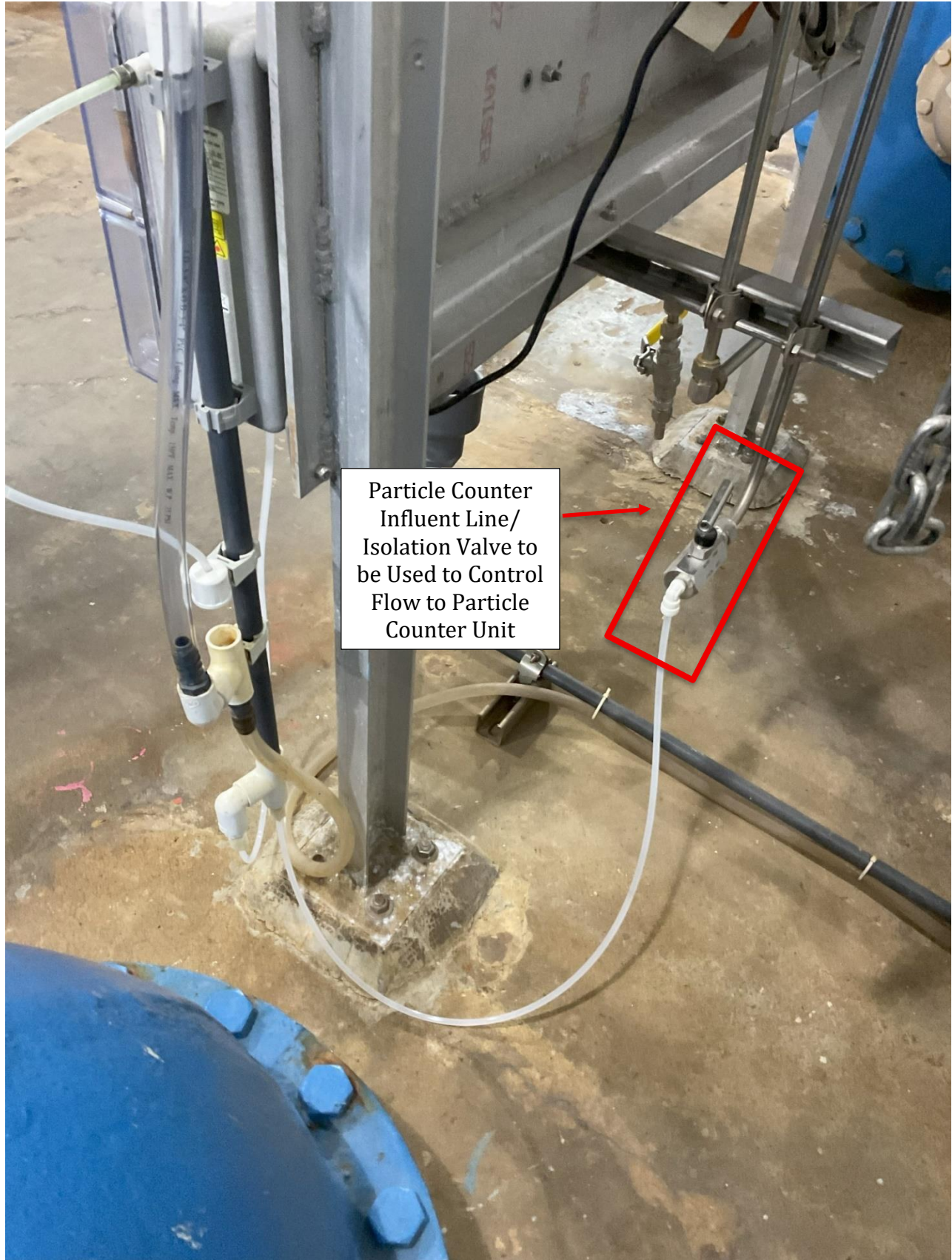
**Photo 2:** LFP Existing Particle Counters (TYP) to be Replaced



**Photo 3:** LFP Existing Sample Lines to Remain (TYP)

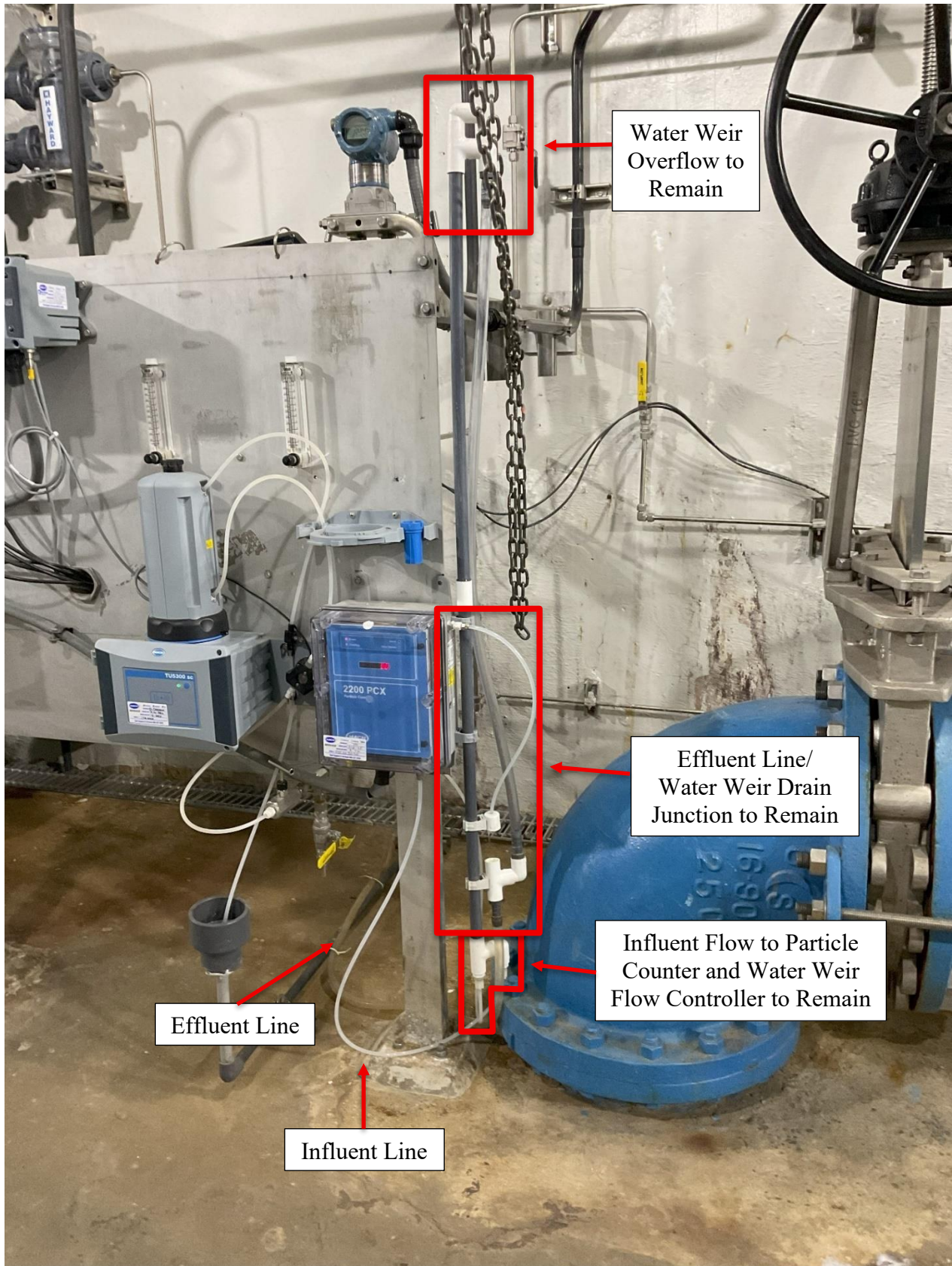


**Photo 4:** LFP Existing AC Power Receptacle to Remain (TYP)



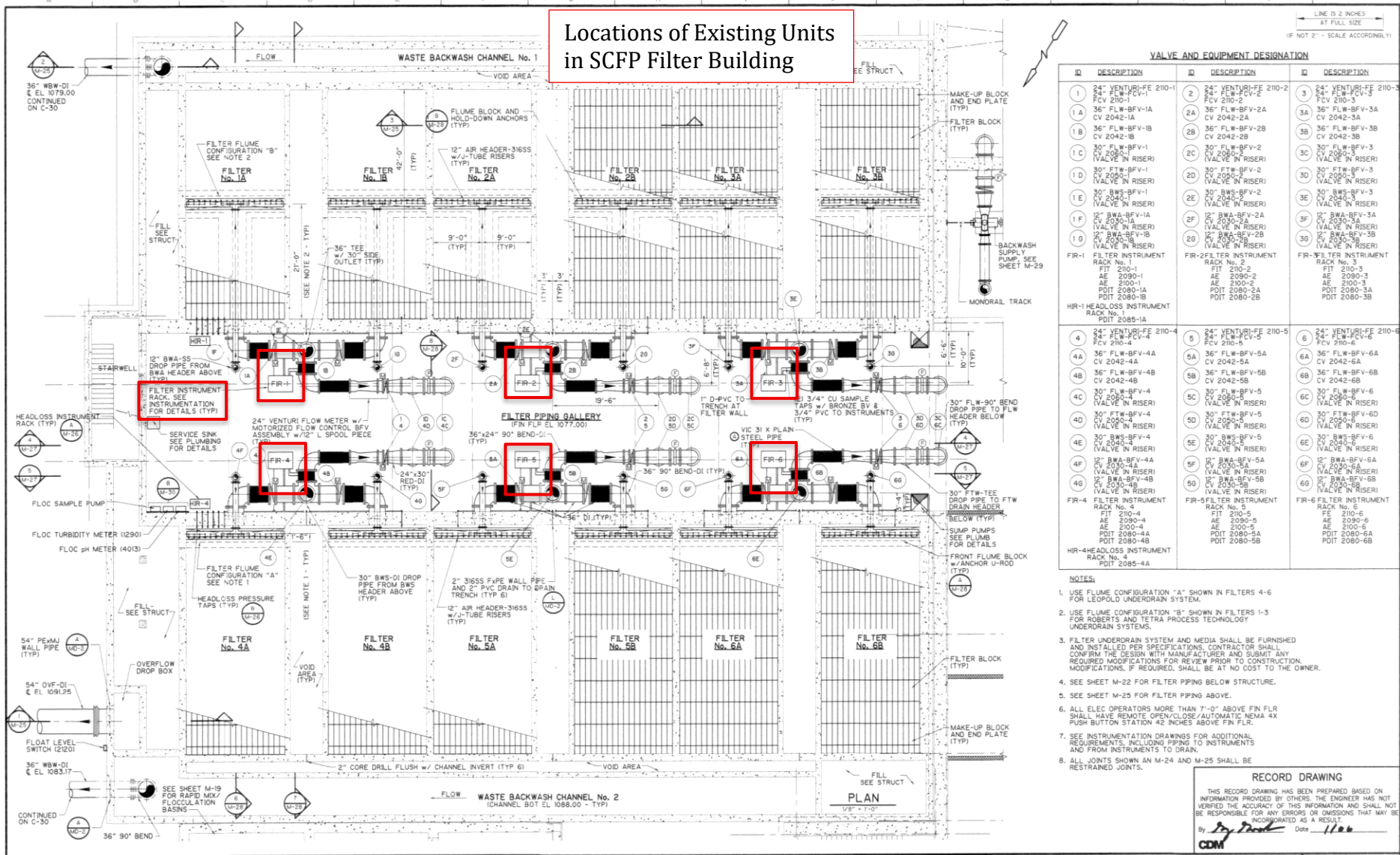
Particle Counter  
Influent Line/  
Isolation Valve to  
be Used to Control  
Flow to Particle  
Counter Unit

**Photo 5:** LFP Existing Sample Lines to Remain (TYP)



**Photo 6:** LFP Existing Water Weir Flow Controller and Tubing to Remain (TYP)

**ATTACHMENT 2: SCFP Existing Drawings and Photos**



Locations of Existing Units  
in SCFP Filter Building

VALVE AND EQUIPMENT DESIGNATION					
ID	DESCRIPTION	ID	DESCRIPTION	ID	DESCRIPTION
1	24" VENTURI-FE 210-1	2	24" VENTURI-FE 210-2	3	24" VENTURI-FE 210-3
1A	36" FLW-BFV-1A	2A	36" FLW-BFV-2A	3A	36" FLW-BFV-3A
1B	36" FLW-BFV-1B	2B	36" FLW-BFV-2B	3B	36" FLW-BFV-3B
1C	30" FTW-BFV-1	2C	30" FTW-BFV-2	3C	30" FTW-BFV-3
1D	30" BWS-BFV-1	2D	30" BWS-BFV-2	3D	30" BWS-BFV-3
1E	12" BWA-BFV-1A	2E	12" BWA-BFV-2A	3E	12" BWA-BFV-3A
1F	12" BWA-BFV-1B	2F	12" BWA-BFV-2B	3F	12" BWA-BFV-3B
FIR-1	FILTER INSTRUMENT RACK No. 1	FIR-2	FILTER INSTRUMENT RACK No. 2	FIR-3	FILTER INSTRUMENT RACK No. 3
HR-1	HEADLOSS INSTRUMENT RACK No. 1	HR-2	HEADLOSS INSTRUMENT RACK No. 2	HR-3	HEADLOSS INSTRUMENT RACK No. 3
4	24" VENTURI-FE 210-4	5	24" VENTURI-FE 210-5	6	24" VENTURI-FE 210-6
4A	36" FLW-BFV-4A	5A	36" FLW-BFV-5A	6A	36" FLW-BFV-6A
4B	36" FLW-BFV-4B	5B	36" FLW-BFV-5B	6B	36" FLW-BFV-6B
4C	30" FTW-BFV-4	5C	30" FTW-BFV-5	6C	30" FTW-BFV-6
4D	30" BWS-BFV-4	5D	30" BWS-BFV-5	6D	30" BWS-BFV-6
4E	12" BWA-BFV-4A	5E	12" BWA-BFV-5A	6E	12" BWA-BFV-6A
4F	12" BWA-BFV-4B	5F	12" BWA-BFV-5B	6F	12" BWA-BFV-6B
4G	FILTER INSTRUMENT RACK No. 4	5G	FILTER INSTRUMENT RACK No. 5	6G	FILTER INSTRUMENT RACK No. 6
HR-4	HEADLOSS INSTRUMENT RACK No. 4	HR-5	HEADLOSS INSTRUMENT RACK No. 5	HR-6	HEADLOSS INSTRUMENT RACK No. 6

- NOTES:**
- USE FLUME CONFIGURATION "A" SHOWN IN FILTERS 4-6 FOR LEOPOLD UNDERDRAIN SYSTEM.
  - USE FLUME CONFIGURATION "B" SHOWN IN FILTERS 1-3 FOR ROBERTS AND TETRA PROCESS TECHNOLOGY UNDERDRAIN SYSTEMS.
  - FILTER UNDERDRAIN SYSTEM AND MEDIA SHALL BE FURNISHED AND INSTALLED PER SPECIFICATIONS. CONTRACTOR SHALL CONFIRM THE DESIGN WITH MANUFACTURER AND SUBMIT ANY REQUIRED MODIFICATIONS FOR REVIEW PRIOR TO CONSTRUCTION. MODIFICATIONS, IF REQUIRED, SHALL BE AT NO COST TO THE OWNER.
  - SEE SHEET M-22 FOR FILTER PIPING BELOW STRUCTURE.
  - SEE SHEET M-25 FOR FILTER PIPING ABOVE.
  - ALL ELEC OPERATORS MORE THAN 7'-0" ABOVE FIN FLR SHALL HAVE REMOTE OPEN/CLOSE/AUTOMATIC NEMA 4X PUSH BUTTON STATION 42 INCHES ABOVE FIN FLR.
  - SEE INSTRUMENTATION DRAWINGS FOR ADDITIONAL REQUIREMENTS, INCLUDING PIPING TO INSTRUMENTS AND FROM INSTRUMENTS TO DRAIN.
  - ALL JOINTS EXCEPT AN M-24 AND M-25 SHALL BE RESTRAINED JOINTS.

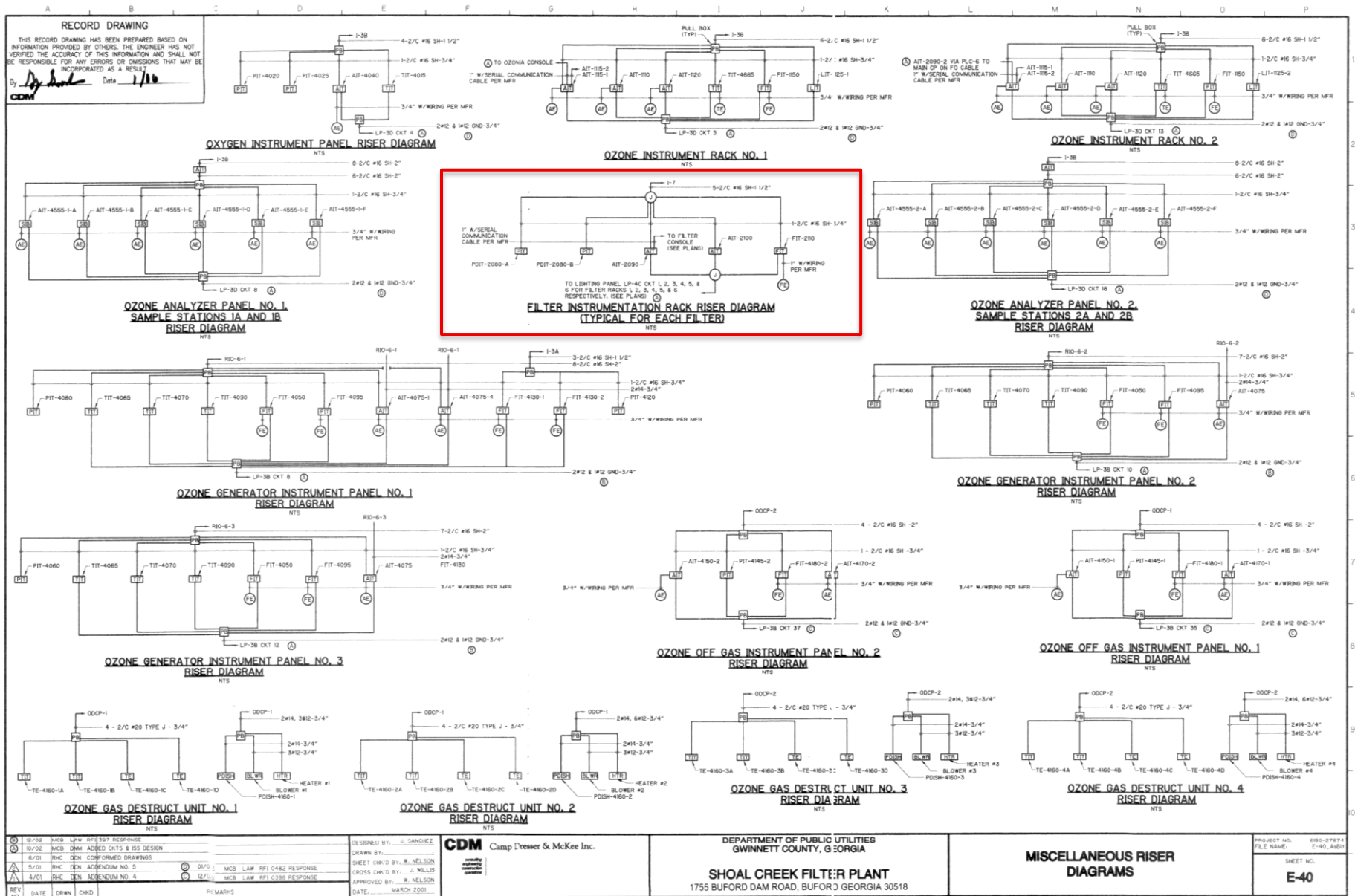
**RECORD DRAWING**

THIS RECORD DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT.

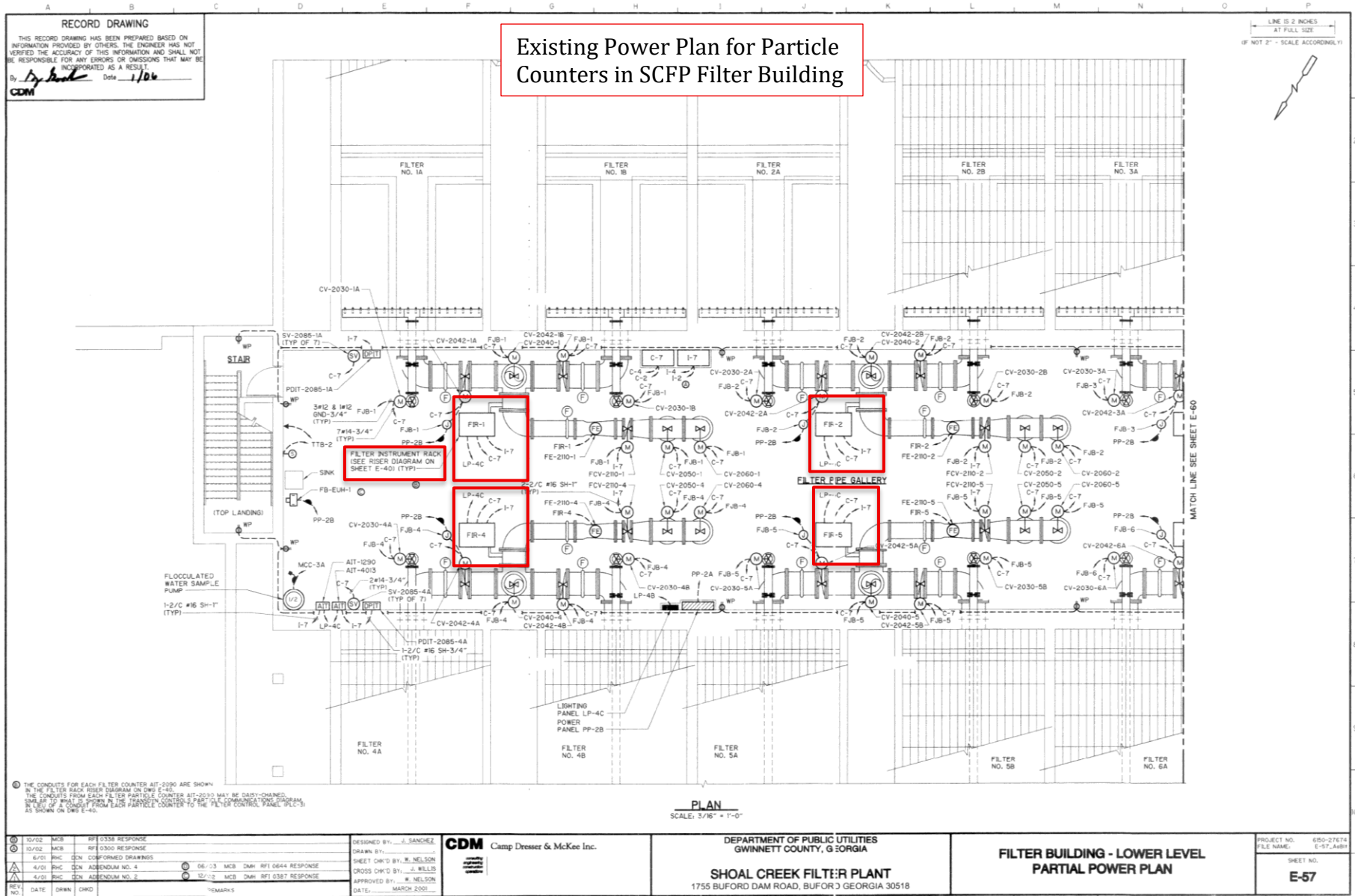
By: *[Signature]* Date: *11/20*

**CDM**

<p>DESIGNED BY: A. KIMS, HARDY</p> <p>DRAWN BY: J. M/TMM</p> <p>SHEET CHK'D BY: J. WALLIS</p> <p>CROSS CHK'D BY: S. HARDY</p> <p>APPROVED BY: _____</p> <p>DATE: MARCH 2001</p>	<p><b>CDM</b> Camp Dresser &amp; McKee Inc.</p>	<p>DEPARTMENT OF PUBLIC UTILITIES GWINNETT COUNTY, GEORGIA</p> <p><b>SHOAL CREEK FILTER PLANT</b> 1755 BUFORD DAM ROAD, BUFORD GEORGIA 30518</p>	<p><b>FILTERS - LOWER LEVEL PLAN</b></p>
<p>PROJECT NO. 8150-27874</p> <p>FILE NAME: 27874m24.dwg</p> <p>SHEET NO. <b>M-24</b></p>			



10/02 MCB LP-30 RESPONSE 10/02 MCB DMM ADDED DXTS & ISS DESIGN 6/01 RHC DEN COMFORMED DRAWINGS 5/01 RHC DEN ADDENDUM NO. 5 4/01 RHC DEN ADDENDUM NO. 4	DESIGNED BY: SANDICE DRAWN BY: M. NELSON CROSS CHK'D BY: J. WILLIS APPROVED BY: M. NELSON DATE: MARCH 2001	<b>CDM</b> Camp Dresser & McKee Inc.	DEPARTMENT OF PUBLIC UTILITIES GWINNETT COUNTY, GEORGIA <b>SHOAL CREEK FILTER PLANT</b> 1755 BUFORD DAM ROAD, BUFORD GEORGIA 30518	<b>MISCELLANEOUS RISER DIAGRAMS</b> SHEET NO. <b>E-40</b>	PRO-DWG NO. 610-27671 FILE NAME: E-40.AND1
--	--	--------------------------------------	---	--	---



Existing Power Plan for Particle Counters in SCFP Filter Building

**RECORD DRAWING**  
 THIS RECORD DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT.  
 By *[Signature]* Date *1/10/16*  
 CDM

① THE CONDUITS FOR EACH FILTER COUNTER AIT-2030 ARE SHOWN IN THE FILTER RACK RISER DIAGRAM ON DWG E-57.  
 ② THE CONDUITS FROM EACH FILTER PARTICLE COUNTER AIT-2030 MAY BE DASH-DOTTED, SIMILAR TO WHAT IS SHOWN IN THE TRANSITION COUNTERS PART OF THE COMMUNICATIONS DIAGRAM, INSTEAD OF A CONDUIT FROM EACH PARTICLE COUNTER TO THE FILTER CONTROL PANEL (LPC-1) AS SHOWN ON DWG E-40.

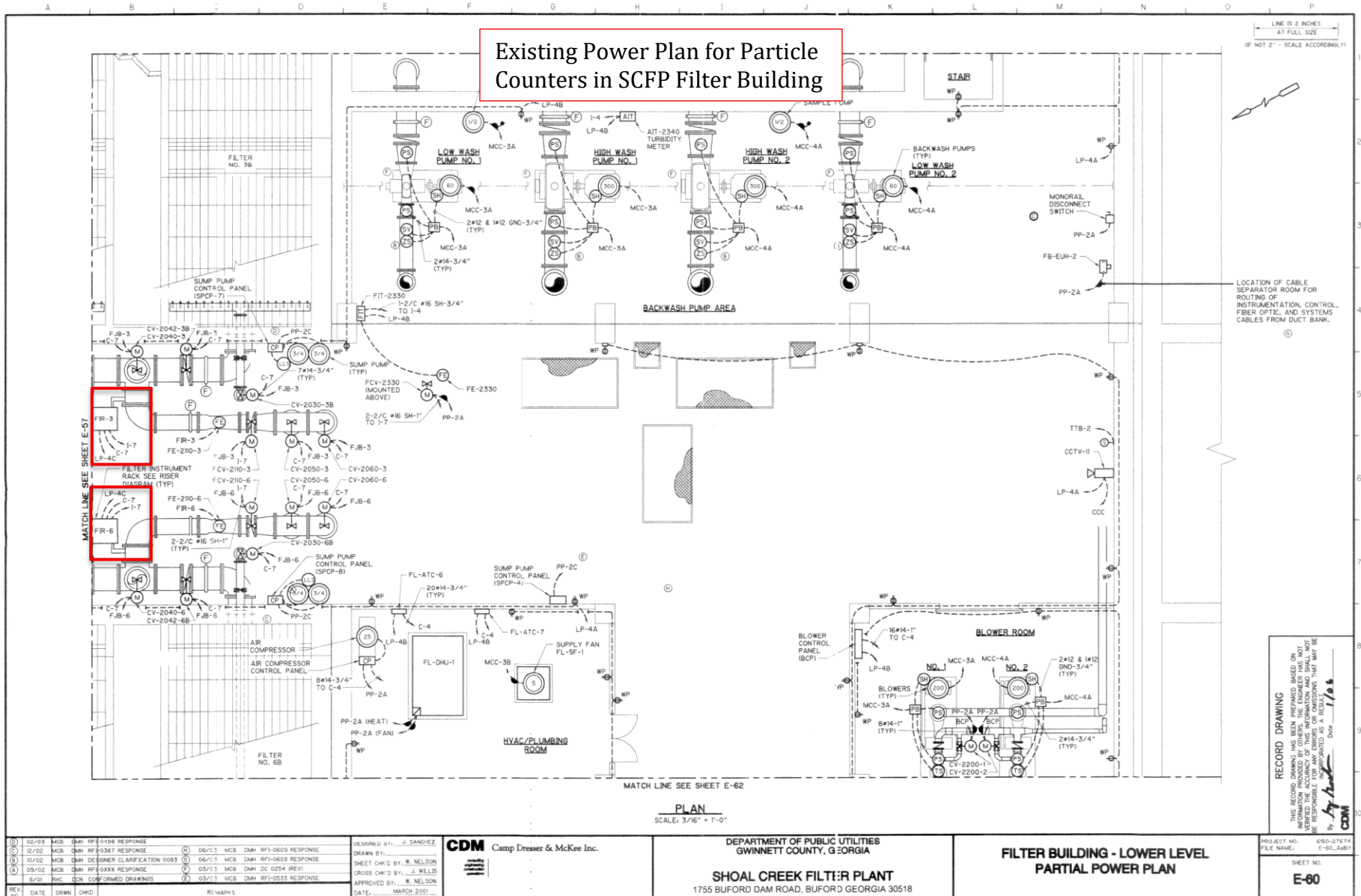
10/02	MCB	RFI 0338 RESPONSE	DESIGNED BY: J. SANCHEZ
10/02	MCB	RFI 0330 RESPONSE	DRAWN BY:
6/01	RHC	CON CORRECTED DRAWINGS	SHEET CHECKED BY: M. NELSON
4/01	RHC	ADDENDUM NO. 4	CROSS CHECKED BY: J. WELLS
4/01	RHC	ADDENDUM NO. 2	APPROVED BY: M. NELSON
REV. NO.	DATE	DRWN	CHKD
			REMARKS

**CDM** Camp Dresser & McKee Inc.  
 SHEET CHECKED BY: M. NELSON  
 CROSS CHECKED BY: J. WELLS  
 APPROVED BY: M. NELSON  
 DATE: MARCH 2002

DEPARTMENT OF PUBLIC UTILITIES  
 GWINNETT COUNTY, GEORGIA  
**SHOAL CREEK FILTER PLANT**  
 1755 BUFORD DAM ROAD, BUFORD GEORGIA 30518

**FILTER BUILDING - LOWER LEVEL  
 PARTIAL POWER PLAN**

PROJECT NO. 650-27674  
 FILE NAME: E-57\_A48H  
 SHEET NO. **E-57**



Existing Power Plan for Particle Counters in SCFP Filter Building

LINE IS 2 INCHES AT FULL SIZE  
(IF NOT 2" - SCALE ACCORDINGLY)

LOCATION OF CABLE SEPARATOR ROOM FOR ROUTING OF INSTRUMENTATION, CONTROL, FIBER OPTIC, AND SYSTEMS CABLES FROM DUCT BANK.

RECORD DRAWING  
THIS RECORD DRAWING IS FOR INFORMATION PURPOSES ONLY. THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE APPROPRIATED AS A RESULT.  
By: *[Signature]* Date: 1/6/16  
CDM

10	02/03	MCB	DMH	RFI-0158 RESPONSE	06/03	MCB	DMH	RFI-0609 RESPONSE	DESIGNED BY: J. SANDRIZ
9	12/02	MCB	DMH	RFI-0347 RESPONSE	06/03	MCB	DMH	RFI-0609 RESPONSE	DRAWN BY: _____
8	10/02	MCB	DMH	DESIGNER CLARIFICATION 0083	06/03	MCB	DMH	RFI-0609 RESPONSE	SHEET CHG'D BY: M. NELSON
7	09/02	MCB	DMH	RFI-0000 RESPONSE	03/03	MCB	DMH	DC 0254 (REV)	CROSS CHG'D BY: J. WELLS
6	07/01	PHC	DMH	CONFORMED DRAWINGS	03/03	MCB	DMH	RFI-0533 RESPONSE	APPROVED BY: M. NELSON
REV. NO.	DATE	DRAWN	CHKD	REMARKS	DATE: MARCH 2001				

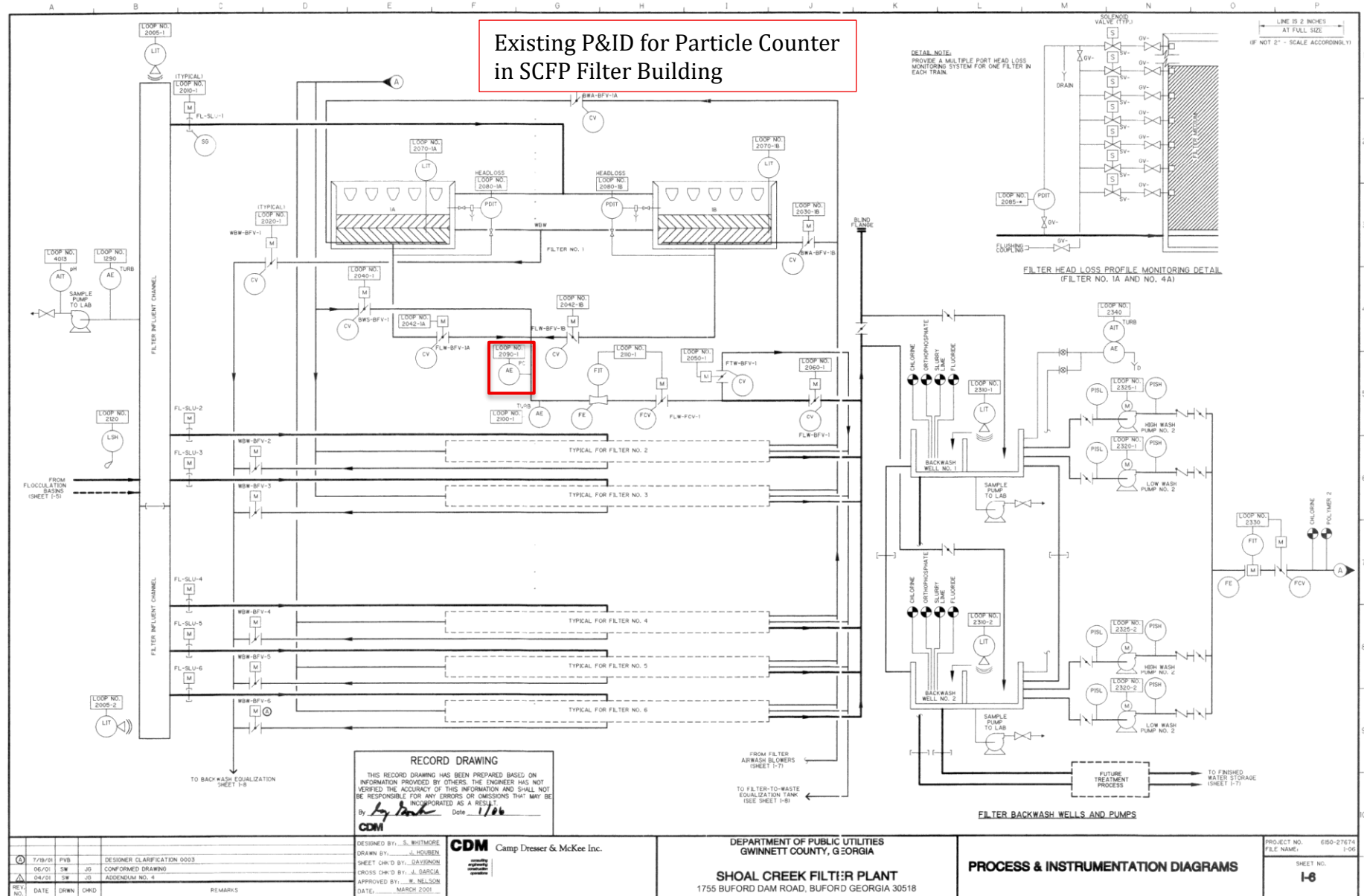
**CDM** Camp Dresser & McKee Inc.

DEPARTMENT OF PUBLIC UTILITIES  
GWINNETT COUNTY, GEORGIA  
**SHOAL CREEK FILTER PLANT**  
1755 BUFORD DAM ROAD, BUFORD GEORGIA 30518

**FILTER BUILDING - LOWER LEVEL**  
**PARTIAL POWER PLAN**

PROJECT NO. 860-2167A  
FILE NAME: E-60\_A4B1  
SHEET NO. **E-60**

Existing P&ID for Particle Counter in SCFP Filter Building



**RECORD DRAWING**  
 THIS RECORD DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT.  
 By *[Signature]* Date *1/16*  
**CDM**

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	07/19/01	PVB		DESIGNER CLARIFICATION 0003
2	06/01/01	SW	JG	CONFORMED DRAWING
3	04/01/01	SW	JG	ADDENDUM NO. 4

DESIGNED BY: S. RUTIMORE  
 DRAWN BY: J. HOUBEN  
 SHEET CHK'D BY: DAYZINDO  
 CROSS CHK'D BY: J. GARCIA  
 APPROVED BY: W. NELSON  
 DATE: MARCH 2001

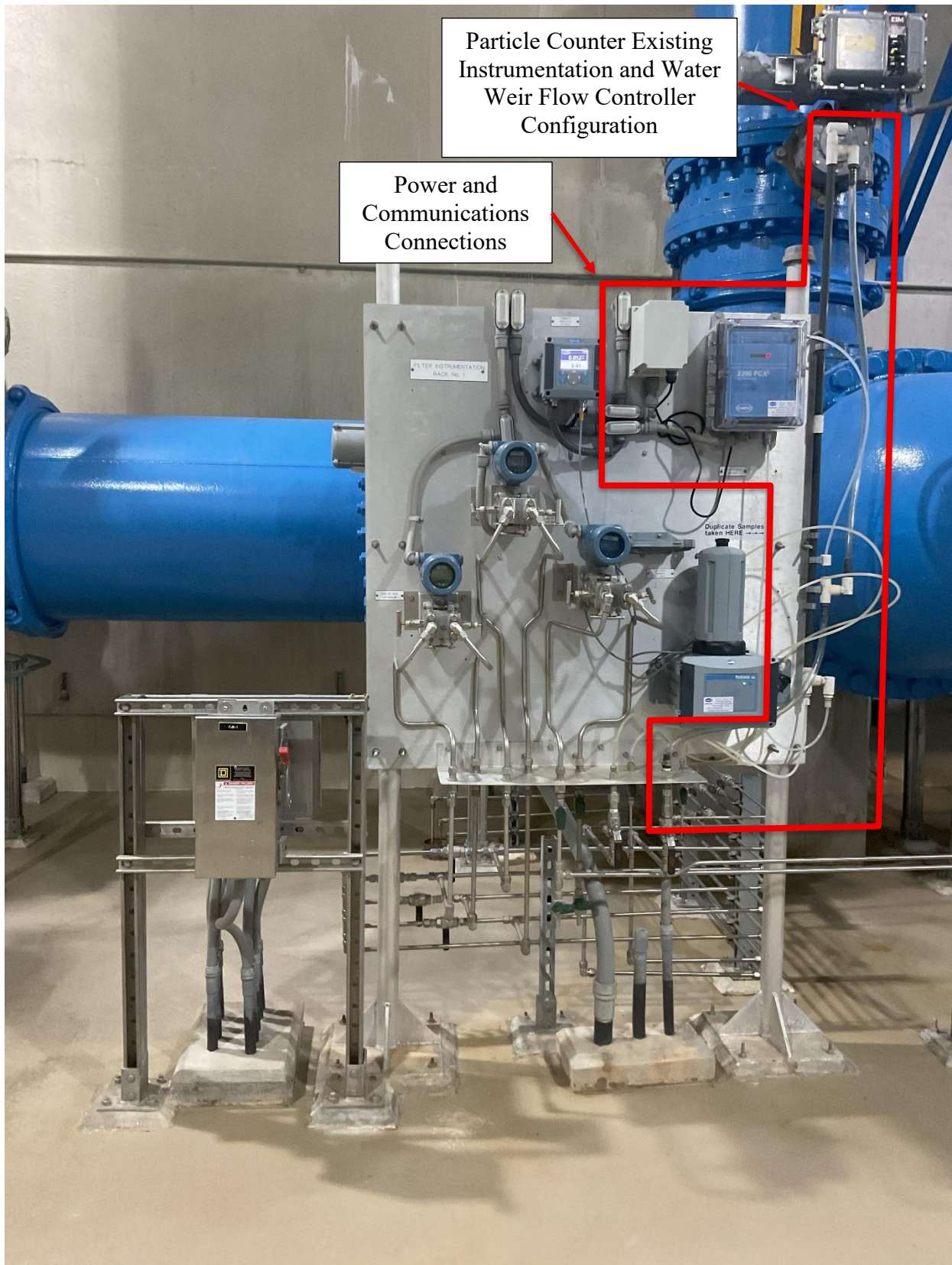
**CDM** Camp Dresser & McKee Inc.  
 DEPARTMENT OF PUBLIC UTILITIES  
 GWINNETT COUNTY, GEORGIA  
**SHOAL CREEK FILTER PLANT**  
 1755 BUFORD DAM ROAD, BUFORD GEORGIA 30518

**PROCESS & INSTRUMENTATION DIAGRAMS**

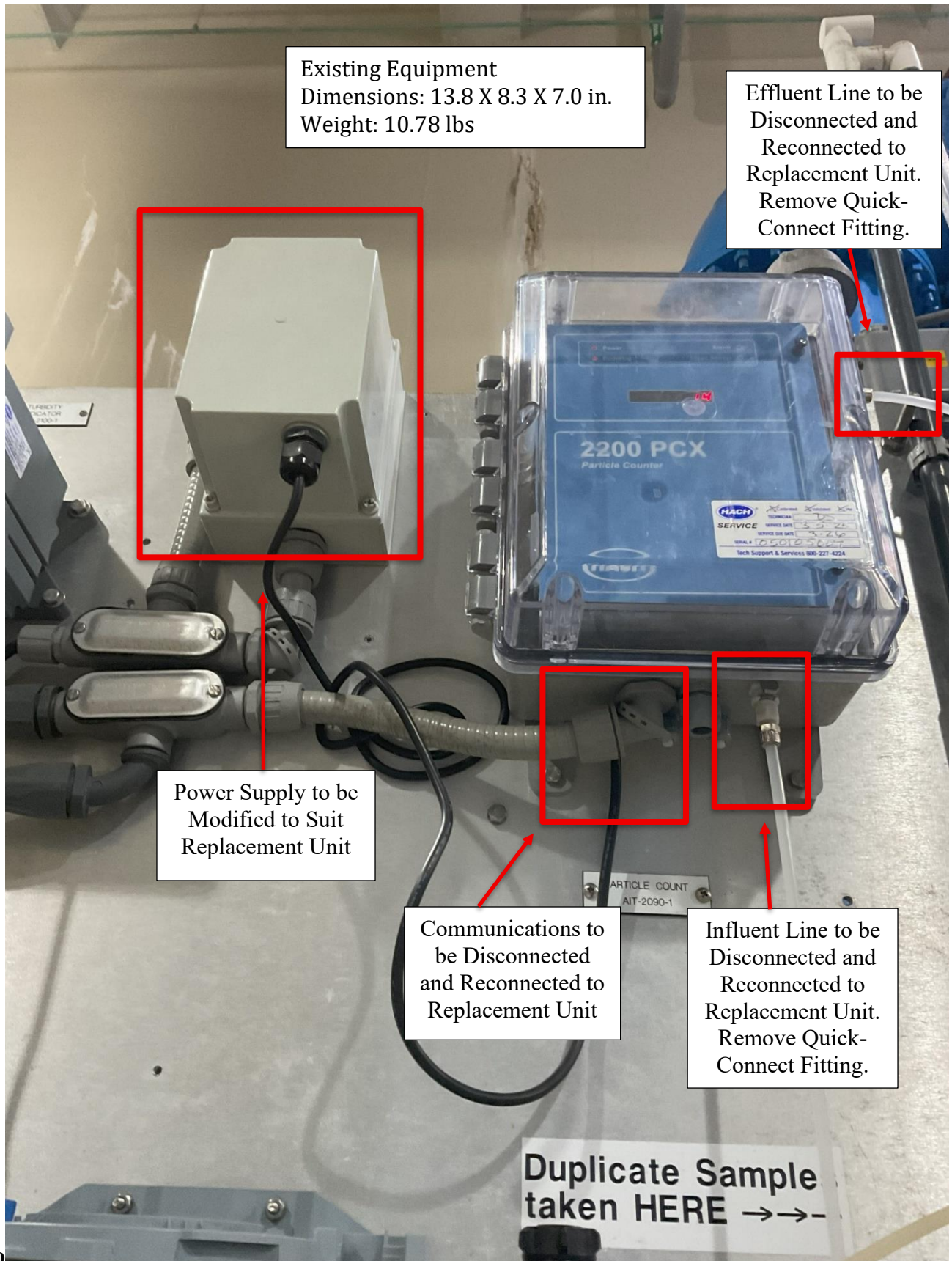
PROJECT NO. 650-27674  
 FILE NAME: 1-06  
 SHEET NO. **1-8**



**Photographs for Existing Installations**



**Photo 7: SCFP Existing Filter Instrumentation Rack (TYP)**



Existing Equipment  
Dimensions: 13.8 X 8.3 X 7.0 in.  
Weight: 10.78 lbs

Effluent Line to be  
Disconnected and  
Reconnected to  
Replacement Unit.  
Remove Quick-  
Connect Fitting.



Power Supply to be  
Modified to Suit  
Replacement Unit

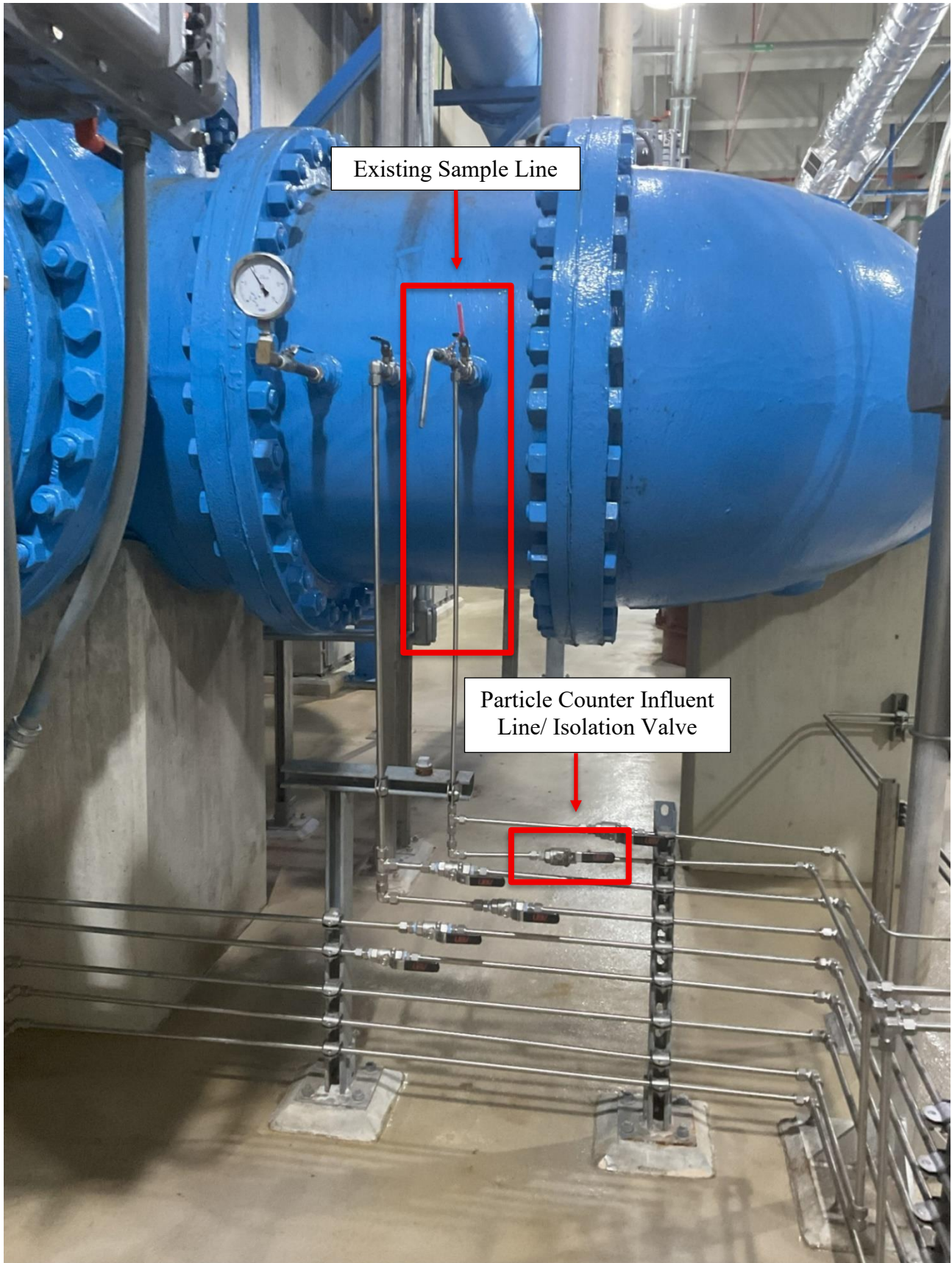


Communications to  
be Disconnected  
and Reconnected to  
Replacement Unit

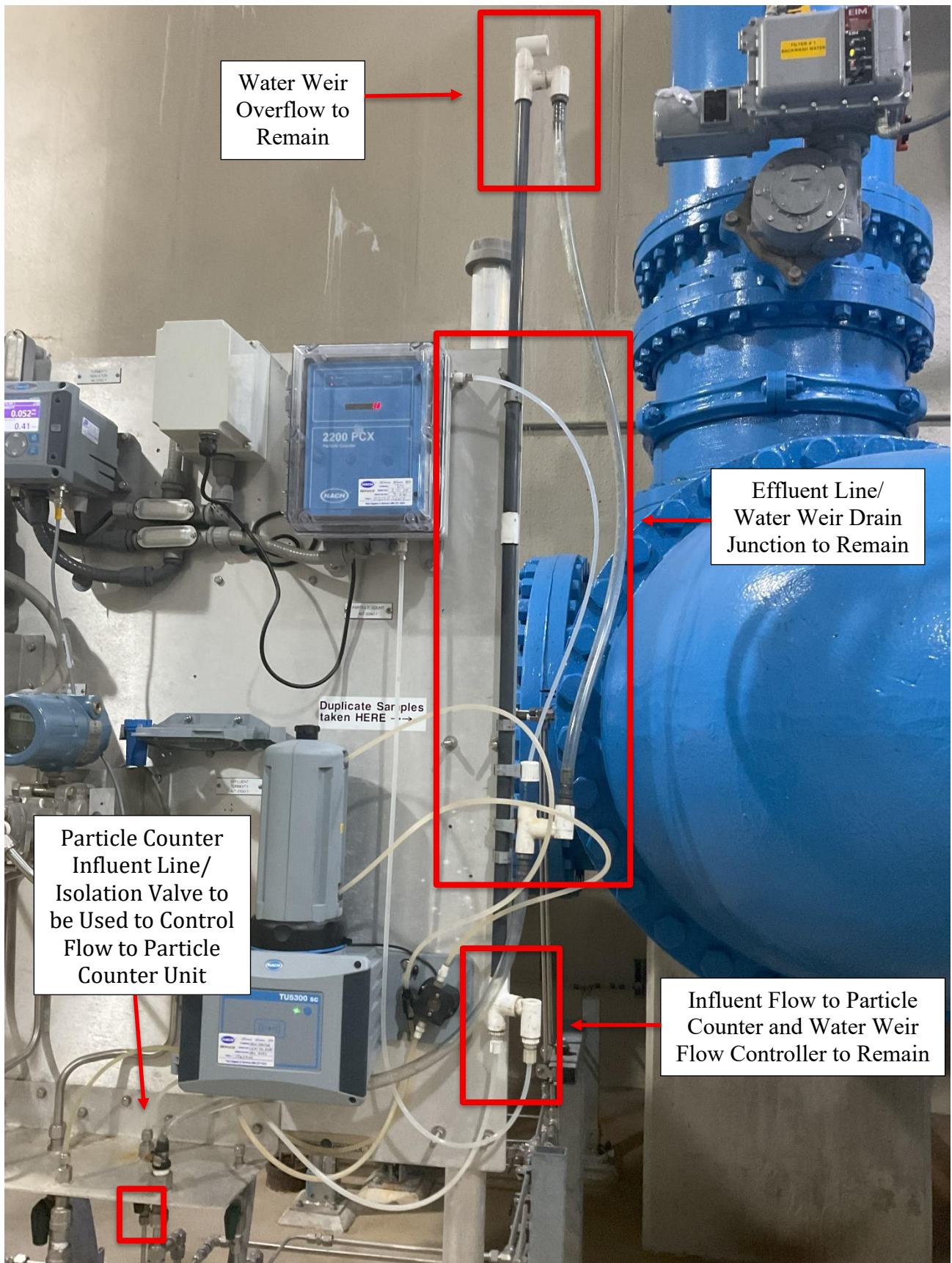
Influent Line to be  
Disconnected and  
Reconnected to  
Replacement Unit.  
Remove Quick-  
Connect Fitting.

Duplicate Sample  
taken HERE -->-->

Photo 8: SCFP Existing Particle Counter to be Replaced (TYP)



**Photo 9:** SCFP Existing Sample Line to Remain (TYP)



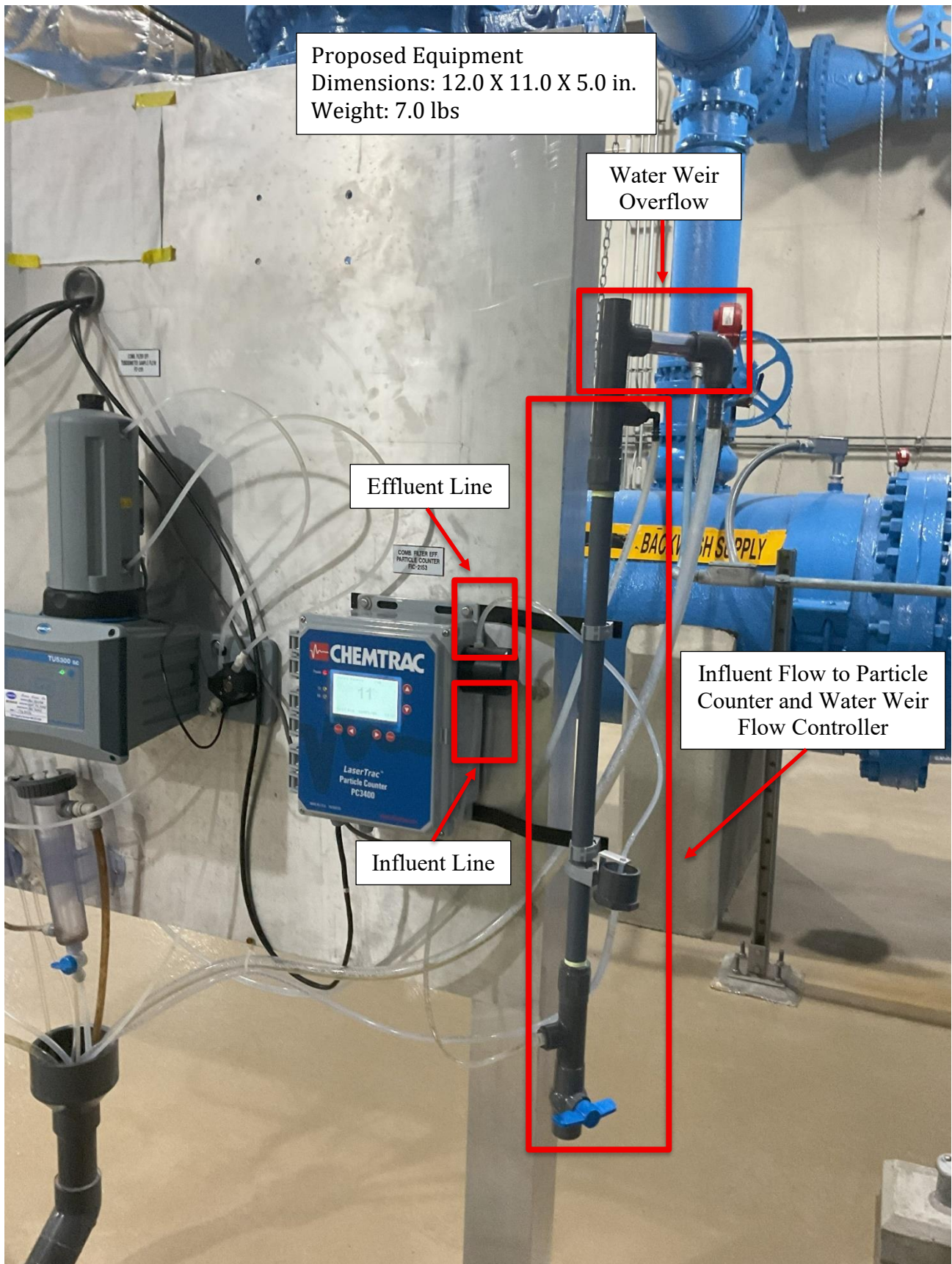
**Photo 10:** SCFP Existing Water Weir Flow Controller and Tubing to Remain (TYP)



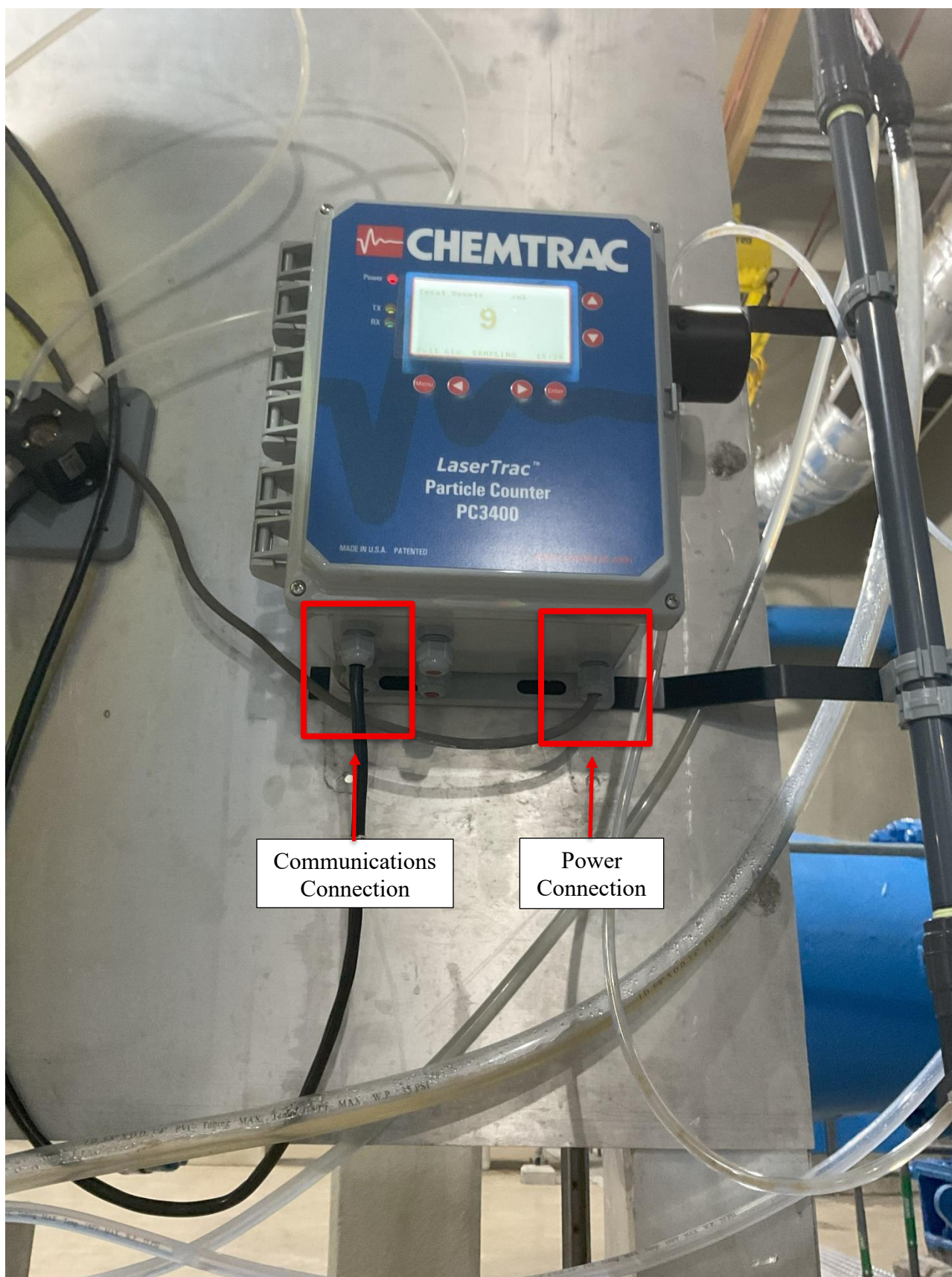
**Photo 11: SCFP Existing Control and Communications Connections to Remain (TYP)**



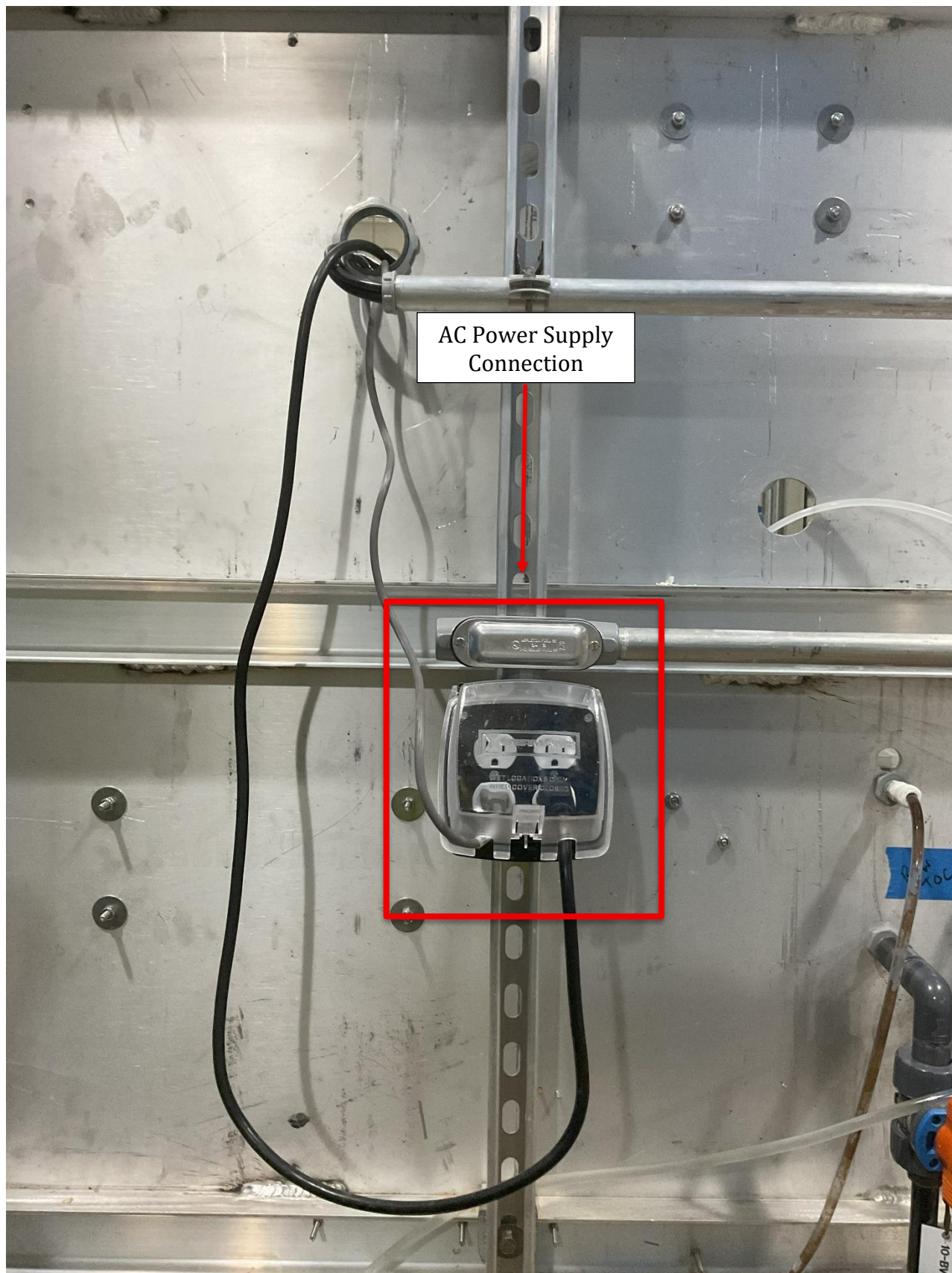
**Photo 12:** SCFP Existing Power Disconnectf (TYP)



**Photo 13:** Example of Chemtrac Particle Counter Installation on Combined Filter Effluent at SCFP



**Photo 14:** Example of Chemtrac Particle Counter Installation at SCFP



**Photo 15:** SCFP Chemtrac Particle Counter Power Connection

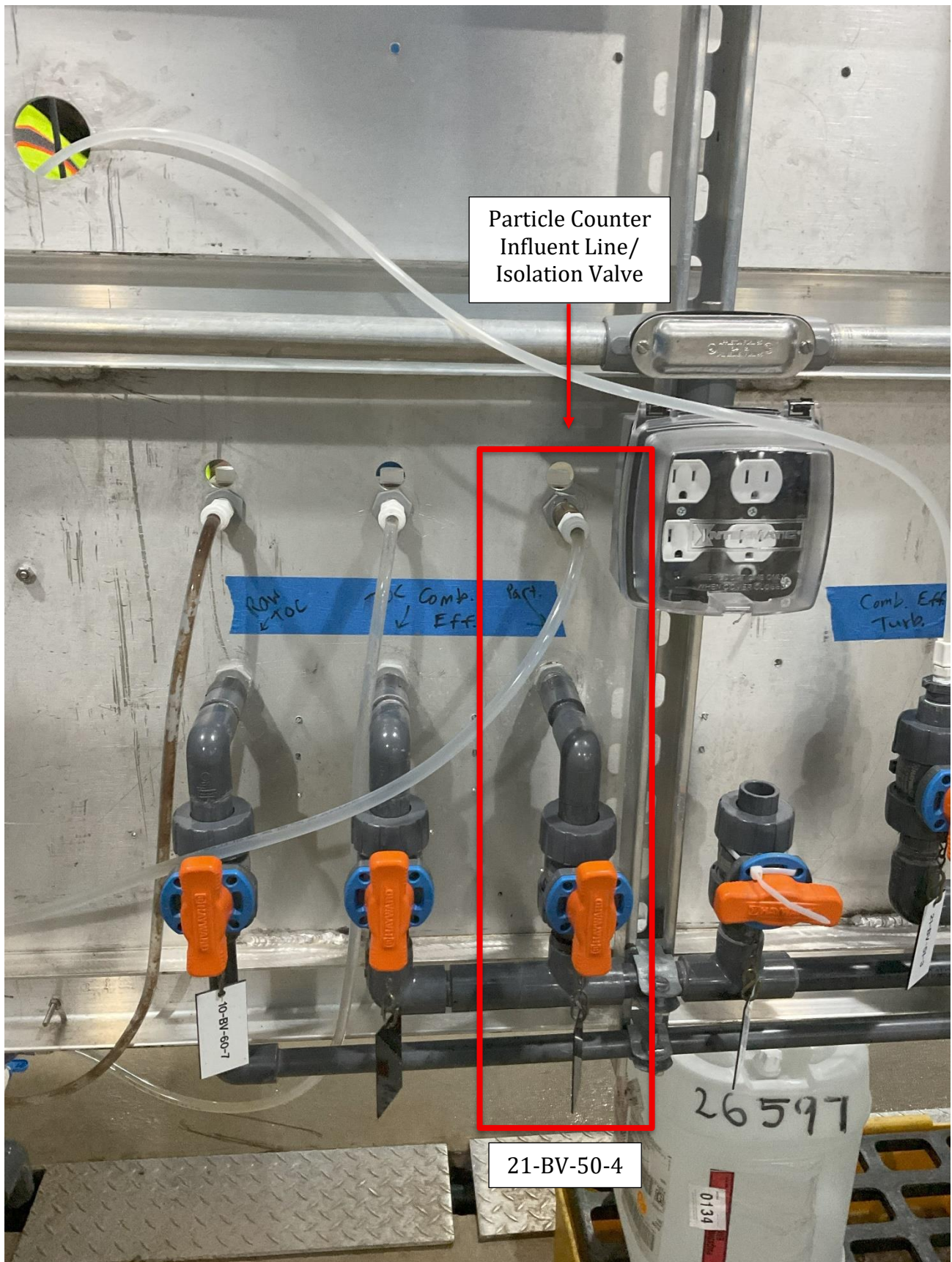


Photo 16: SCFP Chemtrac Particle Counter Influent Line

**ATTACHMENT 3: Existing Equipment Specifications**

## Specifications

Specifications are subject to change without notice.

Specification	Details
Dimensions (W x D x H)	350 x 211 x 178 mm (13.8 x 8.3 x 7.0 in.)
Weight	4.89 kg (10.78 lbs)
Operating temperature	0 to 50 °C (32 to 122 °F); maximum relative humidity 80% for temperatures with a maximum of 31 °C (87.8 °F) decreasing linearly to 50% relative humidity at 40 °C (104 °F)
Storage temperature	0 to 50 °C (32 to 122 °F)
Enclosure	NEMA 4X (indoor use)
Fittings	Quick-connect. Connect to ¼-inch O.D tubing
Power requirements	115-240 VAC, 50/60 Hz, 1A
Maximum solution pressure	65 psig, not more than 1 minute duration; 55 psig continuous
Flow rate	100 mL/minute nominal
Particle size	Smallest size: 2 µm Largest size: 750 µm
Indicators	Power, counting display, cleaning sensor and alarm
Distance from computer to sensor	1219.20 m (4000 ft.) maximum, entire RS485 signal path
Flow control (optional)	Passive control devices available to control water flow through the instrument
Digital communication	Modbus ASCII; WQS Vista data collection software (optional): Monitor filter performance and make reports. Refer to the software documentation for computer requirements.
Hach UDG1000 software (optional)	Organize instrument readings on a SCADA system
Analog input/output card (optional)	Input: accepts input signals from external devices Output: supplies an analog output level proportional to total number of particles counted (raw count)
Pollution degree	2
Installation category	I
Protection class	III (supplied by SELV power source)
Certifications	UL/CSA approved 100 to 115 V, 50/60 Hz external wall-type power supply; wall plug-in power supply is not NEMA rated
Warranty	1 year

## General information

In no event will the manufacturer be liable for direct, indirect, special, incidental or consequential damages resulting from any defect or omission in this manual. The manufacturer reserves the right to make changes in this manual and the products it describes at any time, without notice or obligation. Revised editions are found on the manufacturer's website.

**ATTACHMENT 4: Existing Equipment Drawings**

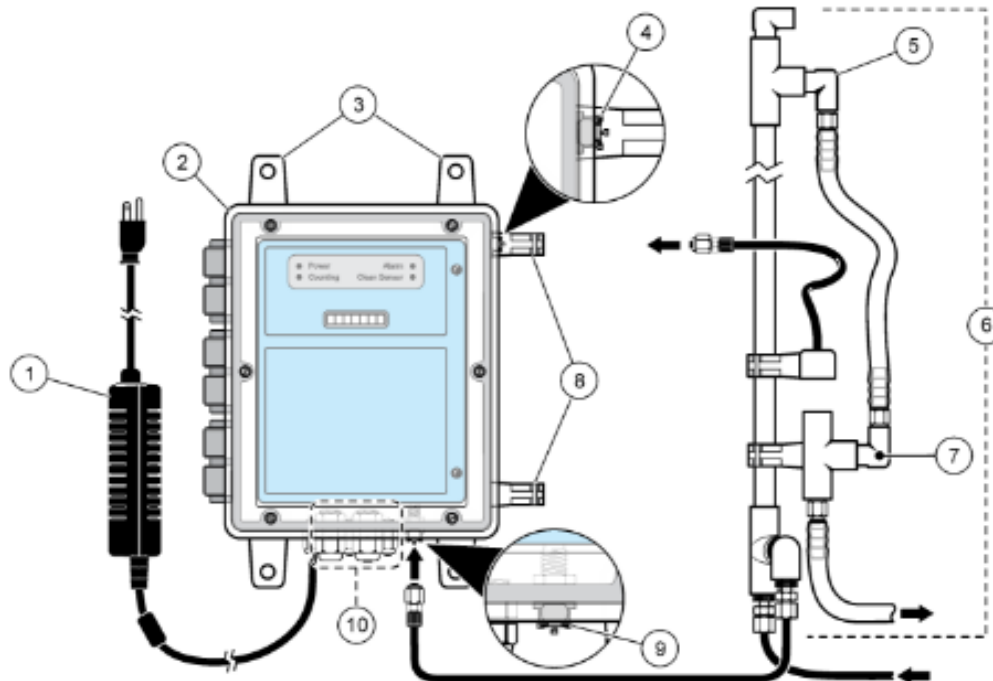
**▲ DANGER**



Fire hazard. This product is not designed for use with flammable liquids.

The 2200 PCX particle counter is used for drinking water applications. The 2200 PCX does not have data storage capability. The instrument uses a particle counting sensor with a laser-diode. The instrument converts analog signals from other devices and send those output values through Modbus communications. The instrument is used with the Vista software to select the size range, count period and flow rate. Complete data collection with Hach UDG or Vista software. Refer to the software documentation for more information. Refer to [Figure 1](#).

**Figure 1 Product overview**

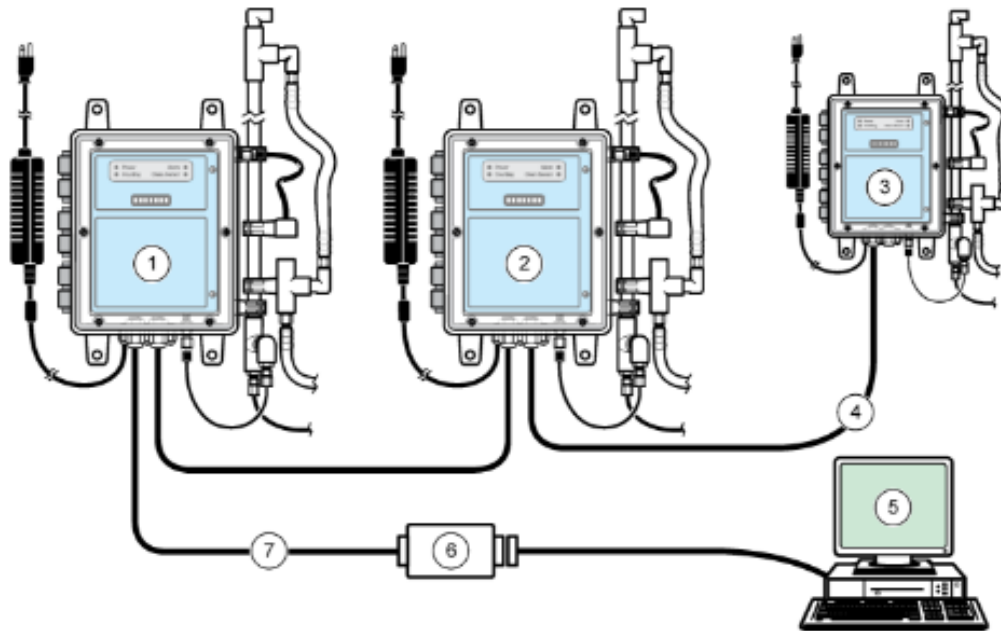


1 AC power supply	6 Water weir flow controller
2 Particle counter	7 Water weir drain junction (mounted 1.22 m (4 ft) below the maximum head loss)
3 Wall mounting brackets (4x)	8 Mounting clips for weir
4 Sensor outlet quick-connect fitting	9 Sensor inlet quick-connect fitting
5 Water weir overflow	10 Electrical access ports

**System overview**

[Figure 2](#) shows an overview of multiple instruments that are installed in one network.

**Figure 2 System overview**



1 Particle counter (Location "0" = influent)	5 System computer with data collection software
2 Particle counter (Location "1")	6 RS485 signal converter with cable to computer <sup>1</sup>
3 Particle counter (Location "2")	7 RS485 communications cable (Beldon 9841 or equivalent)
4 RS485 cable (total distance 1219.2 m (4000 ft) without repeater)	

### Product components

Make sure that all components have been received. Refer to [Figure 3](#)<sup>2</sup>. If any items are missing or damaged, contact the manufacturer or a sales representative immediately.

<sup>1</sup> Install the converter directly to the computer.

<sup>2</sup> Refer to [Replacement parts and accessories](#) on page 31 for optional items such as the analog input/output kit, water weir and software.

**ATTACHMENT 5: Proposed Equipment Data Sheet**



## PARTICLE COUNTER PC3400

### STANDARD FEATURES

- Counts particles in liquid from 2-750 microns
- Sizes particles from 2-125 microns
- Up to 8 user programmable size ranges
- Large display with 8 channel readout & graph
- Reports total counts, cnts/mL, or cnts/100mL
- User friendly, menu driven calibration
- MODBUS RTU communication
- Laser & cell condition readout (0-100%)
- External sensor with sapphire optics

### OPTIONAL FEATURES

- TracWare data acquisition software
- Analog Outputs, Inputs, & Alarm Relays
- Multiple communication protocols supported
- Larger sizing capability upon request
- Parts-per-billion (ppb) display for particle concentrations\*



### BENEFITS

- Provides a reliable and accurate measurement of particles down to low ppt levels
- Advanced firmware and menu functions eliminates need for external software to perform setup and calibration
- User friendly calibration routine makes calibration fast, simple, and lowers maintenance cost
- Large display shows all 8 particle size channels at once, plus graph of last 64 readings and other sensor performance info
- External sensor is easy to clean and water is kept away from electronics

### APPLICATIONS

**Water Treatment**

**Wastewater Treatment**

**Reverse Osmosis Pretreatment**

**Membrane Filtration**

**Boiler/Condensate**

**Parts Washing**

**Food & Beverage**

**Pharmaceutical**

### DESCRIPTION

The PC3400's performance reliability, ease of use, and measurement capability make it an ideal choice for online filter performance monitoring and optimization. This is most clearly demonstrated in the PC3400's ability to detect filter breakthrough often hours in advance of any NTU change. Close to two decades of customer experience with Chemtrac's Particle Counters has proven the effectiveness of this technology to take water quality monitoring to the next level. Chemtrac's PC3400 is the right choice if the optimization demands of your application are not being met by relative and less sensitive measurements of water quality like those provided by turbidimeters or SDI test systems.

Chemtrac has experience with many applications that require the measurement of liquid borne particles. Our team of professionals can help you with just about any application. Contact us or go to [www.chemtrac.com](http://www.chemtrac.com) for more details.

Particle Detection

Chemtrac, Inc.  
6991 Peachtree Industrial  
Boulevard, Building 600  
Norcross, GA 30092  
USA

PH: 770.449.6233  
US: 800.442.8722  
FX: 770.447.0889  
[www.chemtrac.com](http://www.chemtrac.com)

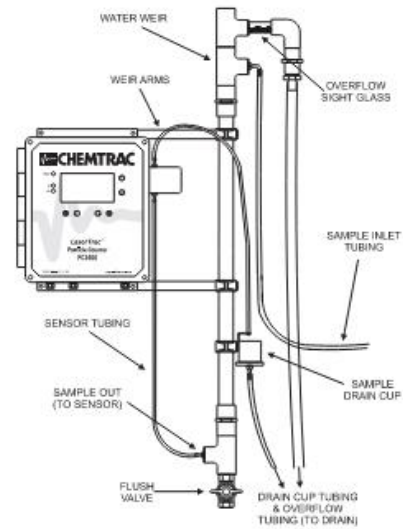
## GENERAL SPECIFICATIONS

Laser Type:	Solid-state laser diode (780 nm)
Cell Material:	Nituff coated aluminum PEEK plastic (optional)
Viewing Windows:	Sapphire
Detection Range:	2-750 microns
Sizing Range:	2-125 microns
Flow Rate:	75 mL/min
Sample Temperature:	32° - 120° F (0° - 50° C)
Resolution:	Better than 10% at 10 micron (ASTM-F658)
Coincidence Limit:	20,000 cnts/mL (2 micron)
Signal to Noise Ratio:	Better than 5:1
Size Channels:	8 - user selectable and total counts
Alarms:	Sensor diagnostic, particle count limit
Laser Diode Life:	MTBF 75,000 hours @ 55° C
Measurement Type:	Light obscuration, Volumetric
Local Display:	Graphical, 8 size channels displayed at once, unit info/diagnostic screen, alarm screen, total count screen, graphical trending, user menus
Display Readout:	Size channel, counts, cell condition (0-100%), laser condition (0-100%), unit address, sample period, sample frequency, flow rate, days until data log overwrite ppb volumetric concentration (optional)
Graphical Trending:	Trending of last 64 logged values for any size range, analog input, or sensor status %
Data Storage:	65,000 sample strings User defined logging interval (1 - 254 min.)
Keypad Interface:	All instrument settings may be modified via the keypad interface, including instrument calibration (some settings require password)
Serial Communications:	2 wire RS485 (Network) and RS232
Communication Protocols:	Standard: MODBUS RTU (RS485) Optional: MODBUS TCP (Ethernet), multiple communication protocols supported
Analog Outputs**:	2, 4, 6, or 8 channels, 4-20 mA (optional)
Analog Inputs**:	2, 4, 6, or 8 channels, 4-20 mA 0-5V, 0-10V (optional)
Alarm Relays**:	2, 250V, 1 Amp (optional)
Power Requirements:	100-240 VAC, 200mA, 47 - 63 Hz 12 or 24 VAC (optional)
Operating Temperature:	32° - 120° F (0° - 50° C)
Dimensions:	12" W x 11" H x 5" D (305 mm W x 280 mm H x 127 mm D)
Weight:	7 lbs (3.2 kg)

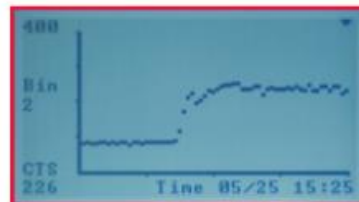
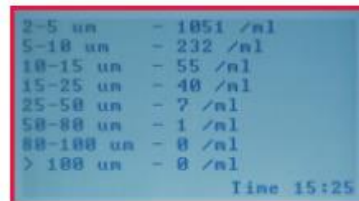
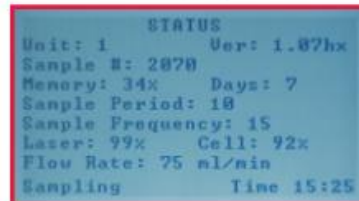
\*Calculated volumetrically for particles larger than 2 micron & assuming spherical shape

\*\*Can only have up to a maximum of 8 outputs, inputs & relays combined

### PC3400 and Weir set-up



### PC3400 Display Screens



**Gwinnett County Department of Water Resources**

**Lanier Filter Plant**

**Shoal Creek Filter Plant**

**TECHNICAL REQUIREMENTS**

for the equipment procurement and installation of the

**Particle Counters Replacement at the Lanier and Shoal Creek Filter Plants**

\*\*\*\*

\*\*\*\*

JACOBS

**Atlanta, GA**

**12/1/2025**

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Project No. **GCDWR060/GCDWR061**

Copy No. 1

BL00X-26 PARTICLE COUNTERS REPLACEMENT  
FOR THE LANIER AND SHOAL CREEK FILTER PLANTS

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**END OF SECTION**

BL00X-26 PARTICLE COUNTERS REPLACEMENT  
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**SECTION 01 43 33**  
**VENDORS' FIELD SERVICES**

**PART 1 GENERAL**

1.01 DEFINITIONS

- A. Person-Day: One person for 8 hours within regular working hours.

1.02 SUBMITTALS

- A. Vendor's Certificate of Proper Installation.

1.03 QUALIFICATION OF VENDOR'S REPRESENTATIVE

- A. Authorized representative of the vendor, factory trained, and experienced in the technical applications, installation, operation, and maintenance of respective equipment, subsystem, or system, with full authority by the equipment vendor to issue the certifications required of the vendor. Additional qualifications may be specified in the individual specification section.
- B. Representative subject to acceptance by Owner and Engineer. No substitute representatives will be allowed unless prior written approval by such has been given.

**PART 2 PRODUCTS (NOT USED)**

**PART 3 EXECUTION**

3.01 FULFILLMENT OF SPECIFIED MINIMUM SERVICES

- A. Furnish vendors' services, when required by an individual specification section, to meet the requirements of this section.
- B. Where time is necessary in excess of that stated in the Specifications for vendors' services, or when a minimum time is not specified, time required to perform specified services shall be considered incidental.
- C. Schedule vendor' services to avoid conflict with other onsite testing or other vendors' onsite services.
- D. Determine, before scheduling services, that conditions necessary to allow successful testing have been met.

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FOR THE LANIER AND SHOAL CREEK FILTER PLANTS

- E. Only those days of service approved by Engineer will be credited to fulfill specified minimum services.
- F. When specified in individual specification sections, vendor's onsite services shall include:
  - 1. Field verification to ensure that proposed replacement equipment will match existing installation.
  - 2. Installation of replacement equipment (system, subsystem, or components) .
  - 3. Inspection, checking, and adjustment as required for product (system, subsystem, or component) to function as warranted by vendor and necessary to furnish Vendor's Certificate of Proper Installation.
  - 4. Providing, on a daily basis, copies of vendors' representatives field notes and data to Engineer.
  - 5. Revisiting the Site as required to correct problems and until installation and operation are acceptable to Engineer.
  - 6. Resolution of assembly or installation problems attributable to or associated with respective vendor's products and systems.
  - 7. Functional testing, equipment startup, and evaluation.

3.02 VENDOR'S CERTIFICATE OF PROPER INSTALLATION

- A. When so specified, a Vendor's Certificate of Proper Installation form, a copy of which is attached to this section, shall be completed and signed by equipment vendor's representative.
- B. Such form shall certify signing party is a duly authorized representative of vendor, is empowered by vendor to inspect, approve, and operate their equipment and is authorized to make recommendations required to ensure equipment is complete and operational.

3.03 TRAINING (NOT REQUIRED)

3.04 SUPPLEMENTS

- A. The supplement listed below, following "End of Section," is part of this specification.
  - 1. Vendor's Certificate of Proper Installation.

**END OF SECTION**

BL00X-26 PARTICLE COUNTERS REPLACEMENT  
FOR THE LANIER AND SHOAL CREEK FILTER PLANTS

**VENDOR'S CERTIFICATE OF PROPER INSTALLATION**

OWNER \_\_\_\_\_ EQPT SERIAL NO: \_\_\_\_\_

EQPT TAG NO: \_\_\_\_\_ EQPT/SYSTEM: \_\_\_\_\_

PROJECT NO: \_\_\_\_\_ SPEC. SECTION: \_\_\_\_\_

I hereby certify that the above-referenced equipment/system has been:

(Check Applicable)

- Installed in accordance with Vendor's recommendations.
- Inspected, checked, and adjusted.
- Serviced with proper initial lubricants.
- Electrical and mechanical connections meet quality and safety standards.
- All applicable safety equipment has been properly installed.
- Functional tests.

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I, the undersigned Vendor's Representative, hereby certify that I am (i) a duly authorized representative of the vendor, (ii) empowered by the vendor to inspect, approve, and operate their equipment and (iii) authorized to make recommendations required to ensure equipment furnished by the vendor is complete and operational, except as may be otherwise indicated herein. I further certify that all information contained herein is true and accurate.

Date: \_\_\_\_\_, 20\_\_

Vendor: \_\_\_\_\_

By Vendor's Authorized Representative: \_\_\_\_\_

(Authorized Signature)

BL00X-26 PARTICLE COUNTERS REPLACEMENT  
FOR THE LANIER AND SHOAL CREEK FILTER PLANTS

**SECTION 01 78 23**  
**OPERATION AND MAINTENANCE DATA**

**PART 1      GENERAL**

1.01      SECTION INCLUDES

- A.      Detailed information for the preparation, submission, and Engineer's review of Operations and Maintenance (O&M) Data, as required by individual Specification sections.

1.02      DEFINITIONS

- A.      Preliminary Data: Initial and subsequent submissions for Engineer's review.
- B.      Final Data: Engineer-accepted data, submitted as specified herein.
- C.      Maintenance Operation: As used on Maintenance Summary Form is defined to mean any routine operation required to ensure satisfactory performance and longevity of equipment. Examples of typical maintenance operations are cleaning of flow cell, cleaning clogs out of tubing, replacement of fouled tubing and barb fittings, replacement of backup battery, periodic checks of flow rate and routine adjustments.

1.03      SEQUENCING AND SCHEDULING

- A.      Equipment and System Data:
  - 1.      Preliminary Data: Submit make, model, and weight of replacement unit. Manufacturer's catalog information, descriptive literature, and materials of construction.
  - 2.      Final Data: Submit Instructional Manual Formatted data at least 30 days prior to installation of equipment. Submit Compilation Formatted and Electronic Media Formatted data prior to Completion of Project and Final Invoice.
- B.      Materials and Finishes Data:
  - 1.      Preliminary Data: Submit prior to work commencement.
  - 2.      Final Data: Submit within 10 days after final inspection.

BL00X-26 PARTICLE COUNTERS REPLACEMENT  
FOR THE LANIER AND SHOAL CREEK FILTER PLANTS

1.04 DATA FORMAT

- A. Prepare final data in the form of an instructional manual. Prepare final data on electronic media.
  
- B. Instructional Manual Format:
  - 1. Binder: Commercial quality, permanent, three-ring or three-post binders with durable plastic cover.
  - 2. Size: 8-1/2 inches by 11 inches, minimum.
  - 3. Cover: Identify manual with typed or printed title “OPERATION AND MAINTENANCE DATA” and list:
    - a. Project title.
    - b. Designate applicable system, equipment, material, or finish.
    - c. Identity of equipment number and Specification section.
  - 4. Spine:
    - a. Project title.
  - 5. Title Page:
    - a. Vendor name, address, and telephone number.
    - b. Vendor, or maintenance provider’s name, address, and telephone number, as appropriate.
      - 1) Identify area of responsibility of each.
      - 2) Provide name and telephone number of local source of supply for parts and replacement.
  - 6. Table of Contents:
    - a. Neatly typewritten and arranged in systematic order with consecutive page numbers.
    - b. Identify each product by product name and other identifying numbers or symbols as set forth in Contract Documents.
  - 7. Paper: 20-pound minimum, white for typed pages.
  - 8. Text: Vendor’s printed data, or neatly typewritten.
  - 9. Three-hole punch data for binding and composition; arrange printing so that punched holes do not obliterate data.
  - 10. Material shall be suitable for reproduction, with quality equal to original. Photocopying of material will be acceptable, except for material containing photographs.
  
- C. Electronic Media Format:
  - 1. Portable Document Format (PDF):
    - a. After all preliminary data has been found to be acceptable to Engineer, submit Operation and Maintenance data in PDF format in electronic format.

BL00X-26 PARTICLE COUNTERS REPLACEMENT  
FOR THE LANIER AND SHOAL CREEK FILTER PLANTS

- b. Files to be exact duplicates of Engineer-accepted preliminary data. Arrange by specification number and name.
- c. Files to be fully functional and viewable in most recent version of Adobe Acrobat.

1.05 SUBMITTALS

A. Informational:

- 1. Data Outline: Submit one electronic copy of a detailed outline of proposed organization and contents of Final Data prior to preparation of Preliminary Data.
- 2. Preliminary Data:
  - a. Submit two copies for Engineer's review.
  - b. If data meets conditions of the Contract:
    - 1) One copy will be retained in Owner's file.
    - 2) One copy will be retained in Engineer's file.
  - c. If data does not meet conditions of the Contract:
    - 1) All copies will be returned with Engineer's comments (on separate document) for revision.
    - 2) Engineer's comments will be retained in Engineer's file.
    - 3) Resubmit copies revised in accordance with Engineer's comments.
- 3. Final Data: Submit two copies in format specified herein.

1.06 DATA FOR EQUIPMENT AND SYSTEMS

A. Content For Each Unit (or Common Units) and System:

- 1. Product Data:
  - a. Include only those sheets that are pertinent to specific product.
  - b. Clearly annotate each sheet to:
    - 1) Identify specific product or part installed.
    - 2) Identify data applicable to installation.
    - 3) Delete references to inapplicable information.
  - c. Function, normal operating characteristics, and limiting conditions.
  - d. Performance curves, engineering data, nameplate data, and tests.
  - e. Complete nomenclature and commercial number of replaceable parts.
  - f. Original Vendor's parts list, illustrations, detailed assembly drawings showing each part with part numbers and sequentially numbered parts list, and diagrams required for maintenance.
  - g. Spare parts ordering instructions.

BL00X-26 PARTICLE COUNTERS REPLACEMENT  
FOR THE LANIER AND SHOAL CREEK FILTER PLANTS

- h. Where applicable, identify installed spares and other provisions for future work (e.g., reserved panel space, unused components, wiring, terminals).
  - 2. Drawings: Supplement product data with Drawings as necessary to clearly illustrate:
    - a. Format:
      - 1) Provide reinforced, punched, binder tab; bind in with text.
      - 2) Reduced to 8-1/2 inches by 11 inches, or 11 inches by 17 inches folded to 8-1/2 inches by 11 inches.
      - 3) Where reduction is impractical, fold and place in 8-1/2-inch by 11-inch envelopes bound in text.
      - 4) Identify Specification section and product on Drawings and envelopes.
    - b. Relations of component parts of equipment and systems.
    - c. Coordinate drawings with Project record documents to assure correct illustration of completed installation.
  - 3. Instructions and Procedures: Within text, as required to supplement product data.
    - a. Format:
      - 1) Organize in consistent format under separate heading for each different procedure.
      - 2) Provide logical sequence of instructions for each procedure.
      - 3) Provide information sheet for Owner's personnel, including:
        - a) Proper procedures in event of failure.
        - b) Instances that might affect validity of guarantee or Bond.
    - b. Installation Instructions: Including alignment, adjusting, calibrating, and checking.
    - c. Operating Procedures:
      - 1) Startup, break-in, routine, and normal operating instructions.
      - 2) Test procedures and results of factory tests where required.
      - 3) Regulation, control, stopping, and emergency instructions.
      - 4) Description of operation sequence by control manufacturer.
      - 5) Shutdown instructions for both short and extended duration.
      - 6) Summer and winter operating instructions, as applicable.
      - 7) Safety precautions.
      - 8) Special operating instructions.
    - d. Maintenance and Overhaul Procedures:
      - 1) Routine maintenance.
      - 2) Guide to troubleshooting.
      - 3) Disassembly, removal, repair, reinstallation, and re-assembly.

B. Content for Each Electric or Electronic Item or System:

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1. Description of Unit and Component Parts:
    - a. Function, normal operating characteristics, and limiting conditions.
    - b. Performance curves, engineering data, nameplate data, and tests.
    - c. Complete nomenclature and commercial number of replaceable parts.
    - d. Interconnection wiring diagrams, including control and lighting systems.
  2. Electrical service.
  3. Communication requirements and interfaces.
  4. List of electrical relay settings, and control and alarm contact settings.
  5. Electrical interconnection wiring diagram, including as applicable, single-line, three-line, schematic and internal wiring, and external interconnection wiring.
  6. Operating Procedures:
    - a. Routine and normal operating instructions.
    - b. Startup and shutdown sequences, normal and emergency.
    - c. Safety precautions.
    - d. Special operating instructions.
  7. Maintenance Procedures:
    - a. Routine maintenance.
    - b. Guide to troubleshooting.
    - c. Adjustment and checking.
    - d. List of relay settings, control and alarm contact settings.
  8. Vendor's printed operating and maintenance instructions.
  9. List of original manufacturer's spare parts, vendor's current prices, and recommended quantities to be maintained in storage.
- C. Maintenance Summary:
1. Compile individual Maintenance Summary for each applicable equipment item, respective unit or system, and for components or sub-units.
  2. Format:
    - a. Use Maintenance Summary Form bound with this section or electronic facsimile of such.
    - b. Each Maintenance Summary may take as many pages as required.
    - c. Use only 8-1/2-inch by 11-inch size paper.
    - d. Complete using typewriter or electronic printing.
  3. Instructions for Care and Maintenance:
    - a. Manufacturer's recommendation for types of cleaning agents and methods.
    - b. Cautions against cleaning agents and methods that are detrimental to product.

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- c. Recommended schedule for cleaning and maintenance.
- 4. Recommended Spare Parts:
  - a. Data to be consistent with Vendor's Bill of Materials/Parts List furnished in O&M manuals.
  - b. "Unit" is the unit of measure for ordering the part.
  - c. "Quantity" is the number of units recommended.
  - d. "Unit Cost" is the current purchase price.

1.07 SUPPLEMENTS

- A. The supplements listed below, following "End of Section", are part of this Specification.

- 1. Forms: Maintenance Summary Form.

**PART 2 PRODUCTS (NOT USED)**

**PART 3 EXECUTION (NOT USED)**

**END OF SECTION**





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**SECTION 01 91 14**  
**EQUIPMENT TESTING AND STARTUP**

**PART 1 GENERAL**

1.01 DEFINITIONS

- A. Equipment: Particle counters, including all of its components.
- B. Functional Test: Test in presence of Engineer and Owner to demonstrate that installed equipment meets manufacturer's installation, calibration, and adjustment requirements and other requirements as specified.
- C. Equipment Performance Demonstration:
  - 1. A demonstration, conducted by the Vendor, with assistance of the Owner, to demonstrate and document the performance of the equipment, based on criteria developed in conjunction with the Owner and as accepted by the Engineer.
  - 2. Such demonstration is for the purpose of (i) verifying to the Owner the equipment performs as intended, and (ii) documenting performance characteristics of the completed installation for Owner's records.
- D. Unit Process: As used in this section, a unit process refers to the filter effluent particle counter systems.

1.02 SUBMITTALS

- A. Informational Submittals:
  - 1. Equipment Startup and Performance Demonstration Checklist and Plan.
  - 2. Functional test results.
  - 3. Completed Unit Process Startup Form.

1.03 EQUIPMENT STARTUP AND PERFORMANCE DEMONSTATION PLAN

- A. Develop a written plan, in conjunction with Owner's operations personnel; to include the following:
  - 1. Step-by-step instructions for startup of equipment.
  - 2. Unit Process Startup Form (sample attached), to minimally include the following:

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- a. Description of the unit process, including equipment numbers/nomenclature of each item of equipment and all included devices.
  - b. Detailed procedures for startup of the unit process, including valves to be opened/closed, order of equipment startup, etc.
  - c. Startup requirements, including water, power, etc.
  - d. Space for evaluation comments.
3. Equipment Performance Demonstration/Certification Form (sample attached), to minimally include the following:
- a. Description and sequence of unit process startup to achieve equipment startup.
  - b. Description of computerized operations, if any.
  - c. Vendor certification equipment is capable of performing its intended function(s), including fully automatic operation.
  - d. Signature spaces for the Vendor and the Engineer.

**PART 2 PRODUCTS (NOT USED)**

**PART 3 EXECUTION**

3.01 GENERAL

- A. Vendor's Testing and Startup Representative:
1. Designate and furnish one or more personnel to coordinate and expedite testing and equipment startup.
  2. Representative(s) shall be present during startup meetings if any and shall be available at all times during testing and startup.
- B. Provide temporary valves, gauges, piping, test equipment and other materials and equipment required for testing and startup.
- C. Provide Vendor and equipment manufacturers' staff adequate to prevent delays. Schedule ongoing work so as not to interfere with or delay testing and startup.
- D. Owner will:
1. Provide water, power, and other items as required for startup, unless otherwise indicated.
  2. Operate equipment with support of Vendor.

3.02 EQUIPMENT TESTING

- A. Preparation:

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1. Complete installation of each unit before testing including completion of ancillary, support, or other equipment interfacing with the equipment to be tested.
  2. Furnish qualified vendors' representatives, when required by individual sections.
  3. Furnish related operating and maintenance manuals, and have on hand necessary testing devices, spare parts, and special tools before testing any unit or system.
  4. Obtain and submit from equipment vendor's representative Vendor's Certificate of Proper Installation Form, in accordance with Section 01 43 33, Vendors' Field Services, when required by individual sections.
  5. Equipment Test Report Form: Provide written test report for each item of equipment to be tested, to include the minimum information:
    - a. Owner/Project Name.
    - b. Equipment or item tested.
    - c. Date and time of test.
    - d. Type of test performed (Functional or Performance).
    - e. Test method.
    - f. Test conditions.
    - g. Test results.
    - h. Signature spaces for the Vendor and the Engineer as witness.
- B. Physical Checkout:
1. During this initial inspection, each piece of equipment is to be evaluated for non-dynamic, non-operational concerns. The focus shall be to confirm the readiness of a unit or system for initial operation of the equipment in a normal duty cycle for a period of 24 hours. To the maximum extent practical, the full capabilities of each piece of equipment, including remote operation, instrumented control schemes, alternate modes of operation, and emergency operation, should be available prior to physical checkout in order to facilitate and expedite the transition from physical checkout to field testing.
  2. After the physical checkout is completed, Vendor's technical representative shall certify to the Owner, in writing and on the Vendor's letterhead, that the equipment is fully installed in accordance with manufacturer's instructions and operating requirements, and ready to be tested in an operating mode without violation of or voiding any aspect or detail of the manufacturer's warranty.
  3. Cleaning and checking: Prior to beginning functional testing:
    - a. Calibrate testing equipment in accordance with manufacturer's instructions.
    - b. Inspect and clean equipment, devices, connected piping, and structures to ensure they are free of foreign material.

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- c. Lubricate equipment in accordance with manufacturer's instructions, if applicable.
  - d. Open and close valves by hand and operate other devices to check for binding, interference, or improper functioning.
  - e. Check power supply to electric powered equipment for correct voltage.
  - f. Test tubing for leaks.
4. Ready to test determination will be by the Engineer and the Owner based at least on the following:
- a. Acceptable Operation and Maintenance Data.
  - b. Notification by the Vendor of equipment readiness for testing.
  - c. Receipt of Vendor's Certificate of Proper Installation, if so specified.
  - d. Availability and acceptability of Vendor's representative, when specified, to assist in testing of respective equipment.
  - e. Satisfactory fulfillment of other specified Vendor's responsibilities.
  - f. Equipment and electrical tagging complete.
  - g. Delivery of all spare parts and special tools.
- C. Functional Testing:
- 1. Conduct as specified in individual Specification sections.
  - 2. Notify Owner and Engineer in writing at least 10 days prior to scheduled date of testing.
  - 3. Prepare Equipment Test Report summarizing test method and results.
  - 4. When, in Engineer's opinion, equipment meets functional requirements specified, such equipment will be accepted for purposes of advancing to performance testing phase, if so required by individual Specification sections. Such acceptance will be evidenced by Engineer/Owner's signature as witness on Equipment Test Report.

3.03 STARTUP OF UNIT PROCESS

- A. Prior to unit process startup, equipment within unit process shall be accepted by the Owner as having met functional testing requirements specified.
- B. Startup sequencing of unit processes shall be as chosen by the Vendor to meet schedule requirements.
- C. Make adjustments, repairs, and corrections necessary to complete unit process startup.
- D. Startup shall be considered complete when, in opinion of the Owner, unit process has operated in manner intended for 30 continuous days without

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significant interruption. This period is in addition to functional test periods specified elsewhere.

- E. Significant Interruption: May include any of the following events:
  - 1. Failure of the Vendor to provide and maintain qualified onsite startup personnel as scheduled.
  - 2. Failure to meet specified functional operation for more than 2 consecutive hours.
  - 3. Failure of any critical equipment or unit process that is not satisfactorily corrected within 5 hours after failure.
  - 4. Failure of any noncritical equipment or unit process that is not satisfactorily corrected within 8 hours after failure.
  - 5. As determined by the Owner.
- F. A significant interruption will require startup then in progress to be stopped. After corrections are made, startup test period to start from beginning again.

3.04 EQUIPMENT PERFORMANCE DEMONSTRATION

- A. When, in the opinion of the Owner, startup of unit process has been achieved.
- B. Demonstrate proper operation of required interfaces within and between individual unit processes.
- C. Document, as defined in Startup and Equipment Demonstration Plan, the performance of the equipment, until all units are operable and under control of computer system.
- D. Certify, on the Equipment Performance Demonstration/Certification Form, that equipment is capable of performing its intended function(s), including fully automatic and computerized operation.

3.05 SUPPLEMENTS

- A. Supplements listed below, following “End of Section,” are a part of this specification:
  - 1. Unit Process Startup Form.
  - 2. Equipment Startup and Testing Report.
  - 3. Equipment Performance Demonstration/Certification Form.

**END OF SECTION**

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**UNIT PROCESS STARTUP FORM**

**OWNER:** \_\_\_\_\_ **PROJECT:** \_\_\_\_\_

**Unit Process Description: (Include description and equipment number of all equipment and devices):**

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**Startup Procedure (Describe procedure for sequential startup and evaluation, including valves to be opened/closed, order of equipment startup, etc.):**

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**Startup Requirements (Water, power, chemicals, etc.):** \_\_\_\_\_

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**Evaluation Comments:** \_\_\_\_\_

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<b>INSERT PROJECT NAME HERE</b>		<b>EQUIPMENT START-UP/TESTING REPORT</b>	
DATE: _____			
CONTRACT NUMBER AND TITLE: _____			
CONSTRUCTION MANAGER: _____			
MANUFACTURER: _____			
EQUIP ITEM/TAG NO: _____			
SYSTEM: _____			
FACILITY NAME: _____		FACILITY NO.: _____	STRUCTURE NO.: _____
DCS LOOP: _____		POWER SOURCE: _____	
CONSTRUCTION MANAGER STARTUP		TYPED NAME: _____	
		SIGNATURE: _____	
MANUFACTURER REPRESENTATIVE:		TYPED NAME: _____	
		SIGNATURE: _____	
ENGINEER REPRESENTATIVE:		TYPED NAME: _____	
		SIGNATURE: _____	
<b>Unit Process Description: (Include description of all equipment and devices)</b>			
<b>Start-up Procedure: (Describe procedure for sequential start-up &amp; evaluation, including valves to be opened/closed, order of equipment start-up, etc.)</b>			
<b>Start-up Requirements: (Water, power, chemicals, etc.)</b>			
<b>Test Procedures:</b>			<b>Passed</b>

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<b>INSERT PROJECT NAME HERE</b>	<b>EQUIPMENT START-UP/TESTING REPORT</b>
Evaluation Comments:	
Contractor Certification: I certify the Unit Process is capable of performing its intended function(s), including fully automatic operation.	
CONTRACTOR NAME:	
START-UP REPRESENTATIVE: _____	DATE: _____
Authorized Signature	

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**EQUIPMENT PERFORMANCE DEMONSTRATION/CERTIFICATION FORM**

**OWNER:** \_\_\_\_\_ **PROJECT:** \_\_\_\_\_

**Unit Processes Description (List unit processes involved in startup):**

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**Unit Processes Startup Sequence (Describe sequence for startup, including computerized operations, if any):**

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**Vendor Certification that equipment is capable of performing its intended function(s), including fully automatic operation:**

**Vendor:** \_\_\_\_\_ **Date:** \_\_\_\_\_, 20\_\_

**Engineer:** \_\_\_\_\_ **Date:** \_\_\_\_\_, 20\_\_  
(Authorized Signature)

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**SECTION 40 91 02.01**  
**ANALYTICAL MEASUREMENT SAMPLE COMPONENTS**

**PART 1 GENERAL**

1.01 SUBMITTALS

- A. Vendor's Certificate of Compliance

**PART 2 PRODUCTS**

**2.01 COMPONENT SPECIFICATIONS**

- A. Particle Counter, Element and Transmitter:

1. General:
  - a. Function: Online particle counting.
  - b. Type: Laser illumination/light extinction.
  - c. Parts: Sensor (element), transmitter and operator interface software.
2. Performance:
  - a. Better than 3:1 signal to noise ratio at 2 microns.
  - b. Coincidence limit less than 10 percent at 15,000 particles/ml.
  - c. Operating Temperature: 35 to 130 degrees F.
3. Sensor/Element:
  - a. External of transmitter.
  - b. Solid state laser diode (780 nm).
  - c. Flow Cell: 750 microns by 750 microns, Nituff coated aluminum.
  - d. Viewing Window: Sapphire.
  - e. Dynamic Range: 2 to 750 microns.
  - f. Sample Flow Rate: 75 ml per minute, minimum.
  - g. Sample Head: 30 inches, minimum.
4. Transmitter:
  - a. Features:
    - i. Backlit LCD display.
      1. Diagnostics.
      2. Eight different size particle count channels.
  - b. Enclosure:
    - i. Suitable for wall mounting.
    - ii. NEMA- 4/ IP-65 (Unused Cable Glands Must Be Plugged, otherwise Nema-3, IP-63).
    - iii. Dimensions: 12W by 11H by 5D inches, nominal.
    - iv. Nominal Weight: 7 pounds.

- C. SIGNAL INTERFACE:

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- i. 4-20 mA dc isolated analog outputs.
    - 1. Two channels
    - 2. Two alarm relays.
    - 3. Each scalable within ranges of 0 to 200 counts per minute, 0 to 2,000 counts per minute, and 0 to 20,000 counts per minute.
  - ii. Discrete Input:
    - 1. Represents filter backwash event; data shall be tagged accordingly.
- d. Power: 100-240V ac, unless otherwise noted.
- e. Integral surge protection.
- 5. Accessories:
  - a. Operator Interface Software:
    - i. IBM PC compatible.
    - ii. Collects, displays, and stores data.
    - iii. Provides alarm and diagnostic information.
    - iv. Creates scheduled and on demand reports.
    - v. Four Primary Screens: Graphs, Sensors, Lists, and Alarms.
    - vi. Quantity: One copy per project.
    - vii. Product: TracData Particle Counter System Software for Windows.
- 6. Manufacturer and Product:
  - a. Chemtrac Systems, Inc.; Particle Counter PC3400
  - b. Or Approved Equal.

**PART 3 EXECUTION**

3.01 VENDOR'S CERTIFICATE OF COMPLIANCE

- A. When so specified, a Vendor's Certificate of Compliance, a copy of which is attached to this section, shall be completed in full, signed by entity supplying the product, material, or service, and submitted prior to shipment of product or material or execution of the services.
- B. Engineer may permit use of certain materials or assemblies prior to sampling and testing if accompanied by accepted certification of compliance.
- C. Such form shall certify proposed product, material, or service complies with that specified. Attach supporting reference data, affidavits, and certifications as appropriate.
- D. May reflect recent or previous test results on material or product, if acceptable to Engineer.

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3.02 ADJUSTMENT AND CLEANING

A. Perform required adjustments, tests, operation checks, and other startup activities.

3.03 SUPPLEMENTS

A. The supplement listed below, following “End of Section”, is part of this specification.

1. Form: Vendor’s Certificate of Compliance.

**END OF SECTION**

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**VENDOR'S CERTIFICATE OF COMPLIANCE**

OWNER: \_\_\_\_\_ PRODUCT, MATERIAL, OR SERVICE  
PROJECT NAME: \_\_\_\_\_ SUBMITTED: \_\_\_\_\_  
PROJECT NO: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I hereby certify that the above-referenced product, material, or service called for by the Contract for the named Project will be furnished in accordance with all applicable requirements. I further certify that the product, material, or service are of the quality specified and conform in all respects with the Contract requirements, and are in the quantity shown.

Date of Execution: \_\_\_\_\_, 20\_\_

Vendor: \_\_\_\_\_

Vendor's Authorized Representative (*print*): \_\_\_\_\_

\_\_\_\_\_  
(Authorized Signature)