



TOWN OF SEABROOK, NEW HAMPSHIRE

WWTF UPGRADES (SEABROOK BID NO. B2024-SWR-14; CWSRF NO. CS-334178-04)

ADDENDUM NO. 1

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To be considered as part of the contract drawings and specifications for the WWTF Upgrades (Seabrook Bid no. B2024-SWR-14; CWSRF no. CS-334178-04), dated 01/04/2024:

REVISIONS TO SPECIFICATIONS

1. Table of Contents
 - a. Remove section 40 92 49.13 from the Table of Contents as VFDs are covered in Section 26 29 23.
2. Section 01 22 00 Measurement and Payment – Attachment 1
 - a. Add the attached approved quote from Wilson Controls regarding the scope of work covered in the allowance described in Bid Item no. 2 (\$85,000). This quote shall be added to the end of Section 01 22 00 for reference.
3. Section 40 91 00 Instrument List
 - a. Add the following rows to the Field Instrument schedule:

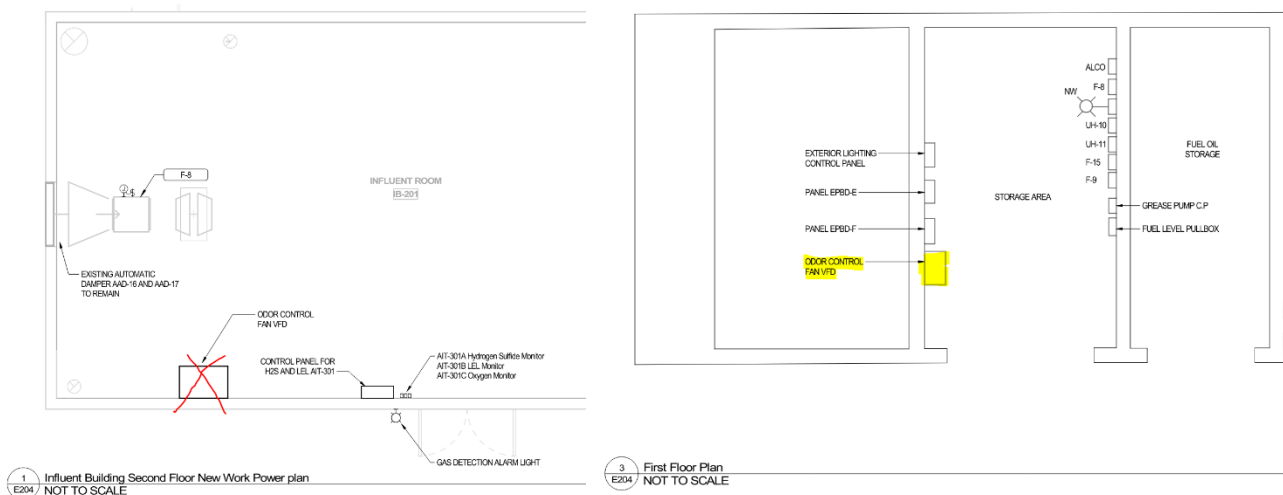
PS-302	Pressure Switch	Centrifuge Feed Pump no. 1	0 to 100 psi	NEMA 4X NEMA 4X	120 VAC
PS-304	Pressure Switch	Centrifuge Feed Pump no. 2	0 to 100 psi	NEMA 4X NEMA 4X	120 VAC

4. Section 40 93 00 Instrumentation and Control General
 - a. Remove paragraph 1.03.D.3. Wilson Controls will be the only allowable integration contractor for the detailed scope of work outlined in bid item no. 2 and in the attached quote. The control panel that is being provided by Wilson Controls should be named “SD-MCP” instead of “SH-MCP” in all instances.
5. Section 40 95 13 Control Panels
 - a. Added Items to Paragraph 2.02.P to include in SD-MCP which are also referenced in Section 40 91 00 Field Instruments
 - i. Alarm Horn
 - a. Horn shall be rated NEMA 7. Horn shall come with a ¾” electrical conduit connection. Horn shall be 120 V AC powered with adjustable volume of 78 to 103 dBa.
 - b. Alarm Horns shall be Edwards, Federal Signal, or equal.
 - ii. Alarm Strobe
 - a. A strobe light shall be provided to indicate an active alarm condition.
 - b. Power: 120 VAC
 - c. Rating: NEMA 7
 - d. Each light shall be provided with a mounting bracket suitable for wall mounting.
 - e. Size: 120 mm
 - f. LED strobe light.
 - g. Each light shall be provided with a red Fresnel lens.

- h. Alarm Strobes shall be Edwards, Federal Signal, or equal.
 - iii. Door Contacts
 - a. Provide magnetic type door contacts for surface mounting with magnet actuated contacts, GE Sentrol 1045T, Tane SM20, or equal.
 - iv. Duress Pushbutton
 - a. Provide one 2-position maintained non-illuminated pushbutton with 60 mm head mounted within a NEMA 4X enclosure, assembly suitable for surface mounting, Allen-Bradly 800T/H series, or equal.
- 6. Section 46 24 33 Inline Sewage Grinders
 - a. Add the following paragraph to Section 1.04.B.1
 - i. "1. Inline Sewage Grinders shall be supplied by one of the following:
 - a. JWC Environmental Muffin Monster®
 - b. Franklin Miller
 - c. Or equal"
- 7. Section 01 32 33 Construction Photographs
 - a. Remove paragraph 1.01.B. Contractor may take the photos with their own personnel.
 - b. Replace Paragraph 3.01.A and 3.01.B with the following: "Contractor shall provide a shared electronic cloud-based folder with the Engineer and upload the progress photos within six days of exposure."

REVISIONS TO DRAWINGS

- 1. Electrical Sheet E202
 - a. The proposed control panel in the MCC Room should be labeled "SD-MCP" in all instances instead of "SH-MCP".
- 2. Electrical Sheet E204
 - a. Clarification that the Odor Control Fan VFD will be located in the first floor "Storage Area" (electrical room) as shown in view no. 3 (right photo on next page) and not in the second-floor equipment room as shown in view no. 1 (left photo on next page).



QUESTIONS AND ANSWERS

Q: Would you please consider extending the bid date by two weeks? There is a lot bidding, and this additional time will allow contractors to get more competitive pricing from suppliers and subcontractors.

A: We do not intend to extend the bid date.

Q: Per Bid Form it is required to submit the DBE documentation with contractors bid package, specifically NHDESW-09-059 & NHDES-09-NHDES-058. Contractors receive pricing from subcontractors and suppliers up to the minute and after the bid deadline, and it is not feasible to accurately fill these forms out with the bid. Typically, projects require that the two low bidders submit these completed forms within three business days after the scheduled bid opening. Please confirm the latter will be acceptable.

A: The DBE forms are required to be submitted with the bid. The DBE forms document the intent to utilize DBEs for project work based on bids or quotes received and are not formal subcontracts. NHDES recognizes the contracted amounts may differ when formal subcontracts are signed after the contractor has been identified as the apparent low bidder. This will be discussed more at the pre-bid meeting.

Q: Looking at the I-Drawings (I-102) and Instrumentation Schedule in 40 91 00 all of these instruments (the schedule does not include the gas system) look to be Vendor Supplied by the Screw Conveyor vendor. Is that correct?

A: The instruments listed in the table at the end of Section 40 91 00 are not delineated in any equipment specifications. It is up to the Contractor's discretion to determine how to supply these items.

Q: Do you have an engineer's estimate for the project?

A: Yes, \$3,200,000

Q: Per section 01 33 23, please confirm that email submittals are acceptable for this project and that the use of Submittal Management Software, as described in paragraph 3.03 is at the sole discretion of the contractor.

A: Either method is acceptable.

Q: Section 01 32 33 calls for progress photos monthly then later states 24 views shall be taken twice per month. Where the requirement is to hire a commercial photographer, it is very costly to have them onsite twice per month. Please confirm if 35 views monthly would be acceptable in lieu of twice per month.

A: Refer to the revision to specification section mentioned in this addendum.

Q: Who is responsible for furnishing the following VFDs;

- a. Sludge Grinder NO. 1*
- b. Sludge Pump NO.1*
- c. Sludge Grinder NO. 2*
- d. Sludge Pump NO. 2*

A: Sludge Grinders no. 1 and no. 2 do NOT have VFDs. This will be corrected on the electrical plans. VFDs for Sludge Pumps no. 1 and no. 2 shall be provided under the scope of the general contractor. It is at their discretion which sub-contractor will supply these.

Q: Please provide panel and circuit designation for F-8 & F-9

A: F-9 Shall be connected to the existing circuit breaker feed the existing F-9 in panel EPBD-E. F-8 shall be power from a 20A-1P spare breaker in panel EPBD-F.

Q: Will a conduit/conductor schedule be furnished for field wiring of motors and instruments?

A: This will be addressed in the second addendum.

Q: Is the panel designated as SH-MCP on E-202 a new panel? Or is this a typo and should be designated as existing panel SD-MCP?

A: Refer to the aforementioned revision to sheet E202 in the "Revisions to Drawings" section of this addendum. It should be labeled "SD-MCP"

Q: Where is the existing fiber optic switch location?

A: It is located in the room labeled as "Parts Storage" on sheet M102, ED100, and P101 in the Sludge Disposal Building ground floor (one floor below Control Panel SD-MCP).

Q: New Centrifuge NO.1 CP shows a new 200A protective device and associated new feeder, Centrifuge NO.1 shows the same size feeder requirement but no protective device upgrade. Please confirm Centrifuge NO. 2 will be fed from the existing 50A protective device

A: Centrifuge No.2 should be on a 200A-3P circuit breaker

Q: There is a similar project due at the same time, would you be amenable for pushing the bid date out a week to allow bidders adequate time to look at both?

A: This will be addressed after the pre-bid meeting. It is not intended to delay the bid opening.

Q: What will be the allowed down time in order to upsize the protective device and feeder conductors for EMCC shown on E-602. This gear appears to feed the whole Sludge Holding building. Will the contractors be required to furnish a temporary generator for this down time?

A: This will need to be coordinated between the General and Sub-Contractors to occur within the same time period that the temporary dewatering system is operational so that the entire building can be operated from temporary facilities as described in Section 01 14 19.14 Temporary Dewatering System.

Q: Please confirm VFDS associated with SC 307 thru SC 310 will come integral to the new CF-CP panel

A: If this is in reference to the VFDs for the centrifuge drive and back drive motors, yes. These will be provided with CF-CP.

Q: What is the Engineer's Estimate for the project?

A: \$3,200,000

Q: In reviewing the insurance requirements for this project, we see that flood insurance is not required. Please confirm that this is correct?

A: Refer to the attached FEMA floodplain map of the site. Most areas of equipment storage are outside the 100-year floodplain. Contractor shall proceed accordingly at their own risk.

Q: Are there AIS requirements for this project?

A: Yes. See Advertisement.

Q: Are there any Temporary Facilities required for the engineer/inspector? We cannot find any requirements.

A: No.

Q: Are there any Temporary Facilities required for the contractor?

A: Contractor shall be responsible for their own portable toilets, any field office trailer location needs to be approved by the Owner. Powering of the field office trailer can be connected to existing electrical source on site, covered by Seabrook. It shall only include low voltage (120V) power for outlets, heat and A/C, computers, and other field office-related items.

Q: There does not seem to be enough time to order, submittal for approval and fabricate some of the equipment (process and electrical) to complete the project in the required time limits. Will you consider delaying the notice to proceed 6 months to allow at least for the submittal process to be completed before the time starts?

A: This will be discussed at the pre-bid meeting.

Q: Bidders will need to assume that there are no hazardous materials to be removed since there are no reports of such.

A: Correct.

Q: Does the owner claim any of the existing materials to be removed and if so where will they be stored?

A: The Owner reserves the right to salvage any removed materials. Before demolition, the Owner will mark each piece of equipment/materials to be salvaged and indicate a storage area on site.

Q: Will the Building, Plumbing and Electrical permit fees be waived by the Town?

A: Yes. Refer to Section 00 31 43 – Permits.

Q: Please confirm that the lime silo will be empty when demolition will begin.

A: The Lime Mixer and “Day Bin” as referenced on sheet M103 inside the existing Mixer/Odor Control Room is to be fully removed and it is indeed empty. The “Lime Silo” refers to the existing pad-mounted tank outside the building and this is not being modified as part of this project.

Q: Please confirm the lime silo is to remain.

A: Yes, the large silo outside the building is to remain.

Q: Please give detail of how existing all penetration for the lime lines coming through the exterior wall are to be terminated.

A: Existing lines to/from exterior silo shall be removed through the building wall and cut and capped outside. Penetrations shall be grouted, sealed, and re-finished to match existing wall finishes.

Q: Please clarify what Specification Sections and Drawings are included in Allowance Number Two for the \$85,000. Is this strictly for materials or does it include the programming and labor?

A: Refer to the quote in attachment 1. It covers the supply and programming of SD-MCP, including SCADA integration.

Q: Please confirm that the new masonry opening using the W8x31 beam is only for a large opening and not for a new door or window.

A: Confirmed. This will be a large opening in the wall.

ATTACHMENTS

1. Bid Item no. 2 (Allowance for Integration Sub-Contractor) Quote and Scope of Services.
2. Sheet I-102 P&ID
3. FEMA Floodplain Map

END OF ADDENDUM NO. 1

December 14, 2023

(Quote Valid for (30) Days)



288 CALEF HIGHWAY
LEE, NH 03861
617.701.3900: T
978.517.1321: F

Wilson Controls Quote #231117 Rev-1

Mr. Curtis Slayton
Water & Sewer Superintendent
PO Box 456
Seabrook, NH 03874
603-474-9921

Reference: Wastewater Treatment Facility – Programming Quote
Seabrook, NH

Specifications: 40 61 96 Process Control Descriptions
40 94 43 Programmable Logic Controllers
40 95 13 Control Panels
I-Drawings

Dear Curtis,

Wilson Controls is pleased to provide a scope of work and quotation for reference project and Specifications noted above for your review and consideration.

Solids Handling Control Panels SH-CP (Qty. 1):

- 1) NEMA 12 Painted Steel Enclosure as Specified
- 2) LED Enclosure Light and Thermostatically Controlled Heating & Ventilation as needed
- 3) PLC with I/O Modules
- 4) Uninterruptable Power Supply with Fault & Low Battery Relay Card
- 5) Engineering Data Port
- 6) Alarm Horn and Strobe Light
- 7) Ethernet Switch with Fiber Converter
- 8) Selector Switch as Required
- 9) Indicator Lights as required
- 10) Reset Pushbutton
- 11) GFCI Receptacle
- 12) Power and Analog Signal Surge Protection
- 13) Ancillary components to provide a functional control panel. i.e. circuit breakers, power supplies, terminal blocks, Fuses, Fuse Holders, Wire Duct, etc.
- 14) Control Panel will be fabricated to UL508A Standards and UL Listed

Intrinsically Safe Barrier Panel (Qty. 1):

- 1) NEMA 4X Stainless Steel Enclosure with Back Panel as Specified
- 2) Intrinsically Safe Relays as Specified
- 3) Ancillary components to provide a functional control panel. i.e. circuit breakers, power supplies, terminal blocks, Fuses, Fuse Holders, Wire Duct, etc.
- 4) Control Panel will be fabricated to UL508A Standards and UL Listed



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Spare Parts:

- 1) Qty. 1 – PLC CPU
- 2) Qty. 1 – PLC Power Supply
- 3) Qty. 1 – Each I/O Module
- 4) Qty. 2 – Each Relay
- 5) Qty. 2 – Each Indicating Lamp Lens for each Color Provided
- 6) Qty. 6 – Contact Blocks
- 7) Qty. 1 – 24VDC Power Supply
- 8) Qty. 1 – Each Select Switch Provided
- 9) Qty. 1 – Each Reset Push Button Provided
- 10) Qty. 1 – Each Surge Arrestor Provided

Technical Services:

- 1) Submittals
- 2) Technical Services – PLC & SCADA
- 3) Startup, Testing and Training
- 4) Final Documentation

Clarifications:

- 1) All Hardware/Control Panels by others.
- 2) Field Installation and Wiring of Field Equipment by Others.
- 3) Supply and Installation of Miscellaneous mounting hardware, brackets & supports by others.
- 4) All Demolition Work & Junction Boxes are by others.
- 5) SH-CP Complete PLC & SCADA Programming per Specification 40 61 96
- 6) PLC Integration to SH-MCP & SCADA Programming per Specification 40 61 96.
- 7) CF-CP PLC & OIT to be pre-programmed by supplying Vendor. Digital documented Programs will need to be supplied to Wilson Controls for Integration of the system.
- 8) LCS are by Others.
- 9) No Instrumentation provided.

PRICING AND DELIVERY

Prices are based on quantities indicated and are priced each for items described above.

Proposal Price\$85,000.00

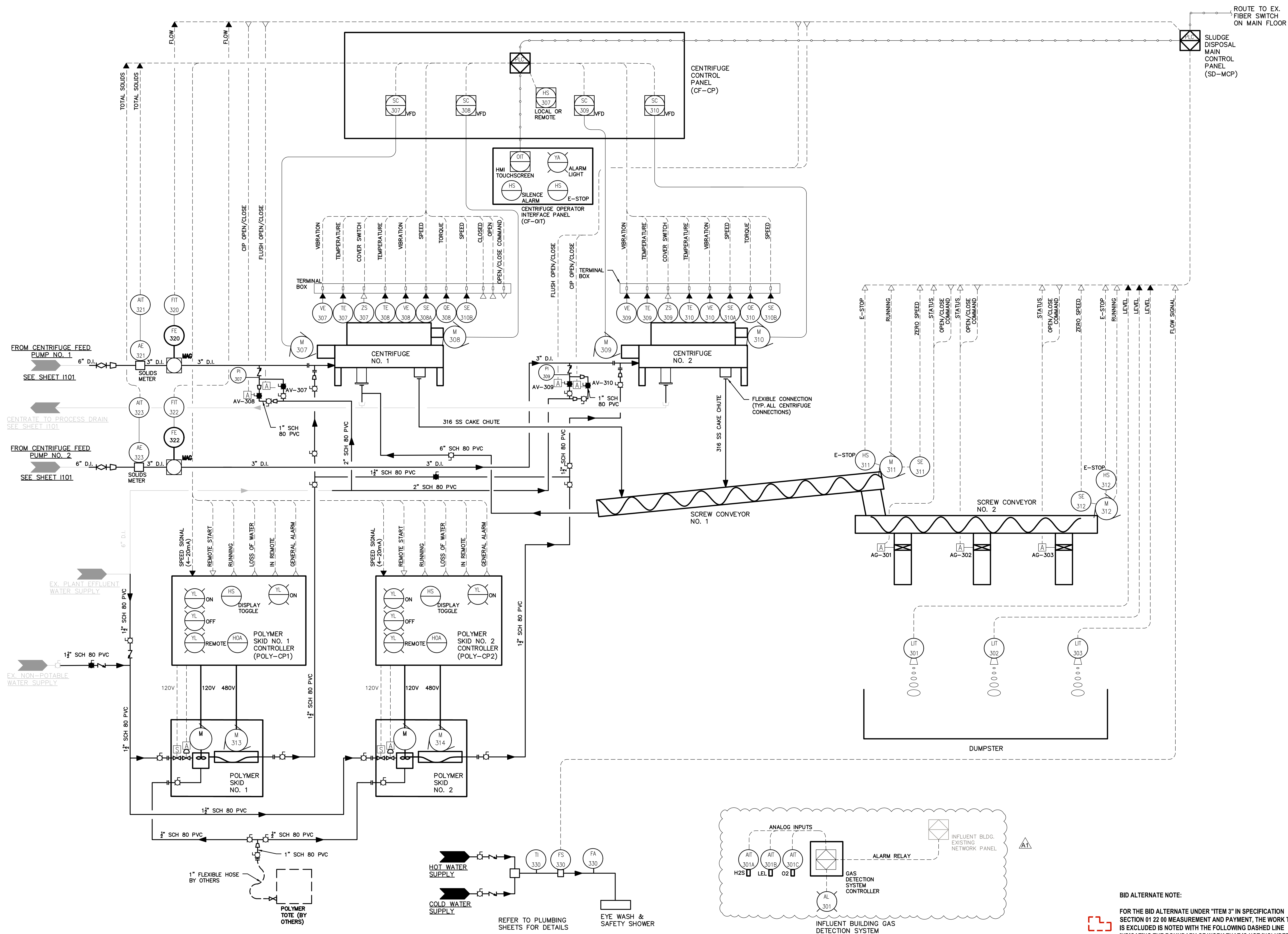
Submittals 6-8 weeks after receipt of Purchase Order
Delivery: TBD Based on Supply Chain and Purchase Order Release Date

Thank you for the opportunity to quote you on this project. Please don't hesitate to call if you have questions or concerns: 603-422-5271

Sincerely,

Scott E. Drapeau

Scott E. Drapeau, P.E.
Wilson Controls, LLC



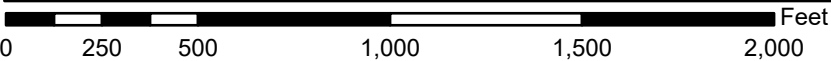
BID ALTERNATE NOTE:

FOR THE BID ALTERNATE UNDER "ITEM 3" IN SPECIFICATION SECTION 01 22 00 MEASUREMENT AND PAYMENT, THE WORK THAT IS EXCLUDED IS NOTED WITH THE FOLLOWING DASHED LINE INDICATING THE BOUNDARY OF WORK THAT IS NOT INCLUDED FOR BID ALTERNATE "ITEM 3". ALL ASSOCIATED ELECTRICAL, STRUCTURAL, AND/OR ARCHITECTURAL MODIFICATIONS SHALL BE EXCLUDED IN THIS BID ALTERNATE AS WELL.

National Flood Hazard Layer FIRMette



70°50'25"W 42°52'11"N



1:6,000

70°49'47"W 42°51'45"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% Annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **1/19/2024 at 9:12 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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