

RESOLUTION AUTHORIZING CONTRACT MODIFICATION 2023-03 TO OPERATIONS MANAGEMENT INTERNATIONAL/JACOBS

MOTIONED BY: Friedrich
SECONDED BY: Guzman

WHEREAS, the North Hudson Sewerage Authority (hereinafter "Authority") is a public body, duly formed under the Sewerage Authorities law, constituting Chapter 138 of the Laws of New Jersey of 1946, as amended (Chapter 14A of Title 40 of the New Jersey Statutes Annotated) and possesses the powers set forth therein; and

WHEREAS, the Authority has contracted with Operations Management International, Inc., Denver, CO. in the amount of \$8,513,649.77 for the operation, maintenance and management of the Authority's sewerage collection and treatment facilities pursuant to the provisions of the Wastewater Treatment Privatization Act, N.J.S.A. 58:27-1 et seq; and

WHEREAS, Operations Management International, Inc., has submitted a proposal(Exhibit "A") for additional compensation in the amount of \$\$122,440.50 related to the Adams Street Plant Operations; and

WHEREAS, the Facilities Review Board has reviewed the proposal and recommends the approval of the requested contract.

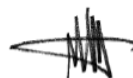
NOW, THEREFORE, BE IT RESOLVED that the Authority hereby authorizes the execution and implementation of said contract modification 2023-03 in the amount of \$122,440.50.

DATED: AUGUST 17, 2023

RECORD OF COMMISSIONERS' VOTE

	YES	NO	ABSENT
Commissioner Kappock	x		
Commissioner Marotta	x		
Commissioner Gardiner	x		
Commissioner Friedrich	x		
Commissioner Guzman	x		
Commissioner Velazquez			x
Commissioner Barrera			x
Commissioner Zucconi	x		
Commissioner Assadourian	x		

THIS IS TO CERTIFY THAT THIS RESOLUTION WAS DULY ADOPTED BY THE NORTH HUDSON BOARD OF COMMISSIONERS ON AUGUST 17, 2023.



SECRETARY



Operations & Maintenance

NHSA Project
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Hoboken, NJ 07030
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www.jacobs.com

July 28th, 2023

Donald Conger, PE
North Hudson Sewerage Authority
1600 Adams Street
Hoboken, New Jersey 07030

Subject: Proposed Out of Scope Project
River Road AST Install & UST Removal
Facility ID# 014350

Dear Mr. Conger:

Jacobs OMI (“Jacobs”) is pleased to provide North Hudson Sewerage Authority (“Authority”) our proposal to remove the existing underground storage tank and install a new above ground storage tank for the emergency generator at the River Road Facility in West New York, New Jersey.

Overview:

The River Road WWTP emergency diesel generator utilizes a 975-gallon underground storage tank (UST) for fuel storage. Currently the UST is out of compliance due to a failed interstitial sensor. According to New Jersey Administrative Code 7:14B, Operating Underground Storage Tanks, an interstitial sensor is required on any UST built after 1990 to monitor and immediately detect discharges of regulated substances from a storage tank system into the environment or the space between the tank and the secondary containment. Since the sensor has failed, there is no safe and effective way to monitor for leaks, and therefore, is the reason for this project.

This project will consist of hiring a New Jersey DEP (NJDEP) certified contractor to perform two tasks: First the contractor will install a new 1,000 gallon above ground storage tank (AST), new piping, and a day tank to service the generator. Second, after the new AST is online and operational, the contractor will remove the existing UST and piping, backfill the excavated void, and close out the tank with the NJDEP.

Jacobs attempted to install a new sensor to make the system compliant with NJDEP. However, we determined that the existing conduit is compromised. Therefore, to install a new interstitial sensor, it would require demolition of the concrete slab and exposing the top side of the tank to lift the unit and properly feed the electrical device to the bottom location. Since this solution requires construction and removal of the tank, we recommend removing the tank entirely and proceeding with an above ground fuel storage system. The new tank will be installed on a concrete pad outside of the generator building to the northwest corner on the driveway area.

Also, the existing UST was registered with the NJDEP in 1993 and is original plant equipment to the River Road Facility. The typical life expectancy for a double wall fiberglass tank is 30 years, which is the estimated age of the existing tank. Since the unit is nearing the end of its useful life, this project provides further reason to implement an environmentally friendly solution for fuel storage.

Scope of Services and Specifics

Aurora Environmental was selected by Jacobs as the contractor to perform the following tasks:

1. Installation of Aboveground Storage Tank and New Day Tank

PERMITTING

Aurora will be responsible for obtaining all necessary permits to perform tank installation activities.

SITE WORK

The tank will be located to the northwest corner of the generator building on a concrete pad on the driveway area and the plan is to complete the new installation prior to the removal of the old underground storage tank. Aurora will provide all necessary equipment for the Site Work required for the completion of this project. The site work will include all excavation, grading and compacting of subgrade material. Aurora will backfill and compact all trenches and excavations.

CONCRETE PAD

Aurora will furnish all labor and materials to install one (1) tank foundation concrete pad. The concrete pad will be installed as outlined by the tank manufacturer's recommendations. The pad dimensions will be 8' in width by 15' in length and 12" in depth. The pad will be installed with two mats of #4 rebar equally spaced 11-3/4" on center in both directions with a minimum of 2" of clearance on all sides. The comprehensive strength of the concrete will be 4,500psi.

TANK PLACEMENT

Once the concrete pad has properly cured, Aurora will schedule the delivery of the new aboveground storage tank. Aurora will provide all necessary equipment and rigging to properly off-load the storage tank onto the newly installed concrete pad. Once the tank has been placed in its final location, Aurora will proceed with the piping and accessory installation. The color of the tank is white.

ACCESSORY INSTALLATION

Aurora will provide all labor and incidental materials to install the tank top accessories. The tank top accessories will include the installation of overfill protection, 2" clock gauge, and emergency vent package, and atmospheric vents.

PIPING INSTALLATION

Aurora will supply and install two (2) 1" schedule 40 black iron pipe for the supply and return lines for the emergency generator. All aboveground piping will receive two (2) coats of exterior white oil-based paint for corrosion protection. All aboveground piping will be installed and will be anchored with uni-strut and equivalent anchor strapping.

TANK MONITORING SYSTEM INSTALLATION

Aurora will install one (1) new Omntec 3 Channel Tank Controller Console. Aurora will provide and install all control and power wiring for the tank monitoring system.

DAY TANK REPLACEMENT

Aurora will remove and dispose of one (1) existing day tank and replace it in the same location with one (1) new Tramont 150 gallon double-walled day tank equipped with an emergency return pump designed for use with aboveground storage tank. New piping and electrical components will be installed for the new equipment and the unit will be tested for proper operation.

IMPACT PROTECTION

Aurora will provide and install six (6) 6" concrete filled bollards for impact protection. Aurora will install the bollards not to exceed a distance greater than 48" on center spacing. The bollards will receive a 18" diameter footing and will be installed with a footing depth of 42". The concrete strength will be 3,000psi and all bollards will receive two (2) coats of oil-based exterior "safety yellow" paint.

SYSTEM START-UP

Aurora will provide system start-up on the newly installed aboveground storage tank system and components. Aurora will prime and run system through a complete cycle to ensure proper installation.

2. Removal and Closeout of Underground Storage Tank

PERMITTING

The permits required for underground storage tank removal is first, to obtain a NJDEP Closure Approval or 14 Day Notice of Intent. Aurora will obtain permits from local code official for the demolition permit required for the removal of the underground storage tank.

TANK EXCAVATION & DEMOLITION

A phased approach is proposed for the excavation of the on-site tank. The overall strategy is to complete tank excavation and removal, then backfill the excavation (assuming no past tank leakage).

General considerations pertaining to tank excavation, demolition and tank removal activities include: 1) the demolition of the existing concrete surface slab and disposal, 2) the removal and disposal concrete, asphalt paving and other fill material overlying and surrounding the tank excavation areas: 3) segregation of clean fill materials surrounding the tanks, 4) securing the excavation at the end of each workday.

TANK CLEANING

The tanks will be emptied prior to excavation, and where possible the tanks shall be cleaned in place prior to removal. Aurora will be responsible for the removal and disposal of all bulk liquids and

sludge generated during tank cleaning operations. The tank wastes shall be disposed of under a "Uniform Non-Hazardous Waste Manifest Form".

TANK REMOVAL

The underground storage tanks and its associated vent line, fill line, valve, fill cap and covers shall be removed as part of the contract.

BACKFILLING

All tank excavation areas shall be backfilled with the excavated material removed to extract the underground storage tank. Aurora will include the backfilling of the tank voids as part of this proposal. The material will be laid in 12-inch lifts and carefully hand tamped to keep settlement to a minimum.

RESTORATION

Aurora will restore the area back to its original condition. Aurora will provide and install one (1) concrete surface apron with dimensions of 12' x 10' x 8" in depth with #4 reinforcement bar spaced 12" on center and the concrete will have a comprehensive strength of 4,000psi.

NJDEP REPORTING

Aurora will provide a Licensed Site Remediation Professional (LSRP) for project oversight and report preparation. Aurora will prepare and submit one (1) Site Investigation Report for this project. If the investigation is deemed complete, Aurora will prepare and submit to the owner and the NJDEP the Area of Concern (AOC), Response Action Outcome (RAO) document to complete the project. The report will outline all tank removal activities, soil sampling, tank disposal, analytical data and conclusions. Aurora will submit the original to the NJDEP. Any review fees that are required by the NJDEP will be billed and payable directly by the owner or its representative.

POST EXCAVATION SOIL SAMPLING

The required soil sampling will be performed and analyzed for Volatile Organics as required for gasoline underground storage tanks and Extractable Petroleum Hydro-carbons (EPH) for the diesel underground storage tank. The required soil sampling for the closure of a 1,000 gallon diesel underground storage tank are as follows; one (1) sample is to be collected for every 5 linear feet of tank, one (1) sample is to be collected for every 15 linear feet of piping. Therefore, based upon the tank and the estimated piping length, Aurora will collect and analyze for the diesel tank as follows; one (1) sample for the tank and four (4) samples for the piping. The samples will be analyzed for Extractable Petroleum Hydro-carbons (EPH) for the diesel tank.

Schedule:

1. Installation of Aboveground Storage Tank

The proposed schedule for installation of the above ground storage tank is dependent on lead times for a new 1,000-gallon tank and associated equipment for the day tank and piping. Currently, the estimated lead time for associated equipment is 15 weeks.

2. Removal of Underground Storage Tank

The proposed work scheduled for all the activities outlined will take approximately 30 to 45 days to complete once the aboveground tank is installed and operational. The estimated schedule is based upon the NJDEP and local permit process, tank removal activities, backfilling, soil sampling, restoration, and reporting. This schedule is also dependent on weather conditions and weather delays.

Cost:

Jacobs proposed cost estimate for the project is \$122,440.50 (One Hundred Twenty-Two Thousand Four Hundred Forty Dollars and Fifty Cents). This amount is based on the estimated direct costs and includes Jacobs' markup of 15% to cover general and administrative costs, overhead, and profit. Jacobs followed the Jacobs procurement process and requested three quotes for the work. Only two contractors responded and provided proposals. The two quotes we received were similarly priced (less than 3% difference). We recommend Aurora Environmental because they produced all OSHA records and received internal approval through the Jacobs procurement process. Additionally, the project requires engineering services for construction and installation of the new AST and Day Tank. These services will be provided at no additional cost to the Authority. Jacobs will invoice on a lump sum basis. The out-of-scope project costs are in addition to the Agreement's base fee and any other Agreement budget amounts.

	Tank Cleaning and Disposal	COST (\$)
1	Installation of Aboveground Storage Tank and New Day Tank	\$85,030.00
2	Removal of Underground Storage Tank	\$18,480.00
3	Permits, review fees and material disposal	\$2,960.00
4	Jacobs OMI (15% O&P)	\$15,970.50
	TOTAL	\$122,440.50

TOTAL COST: \$122,440.50

Jacobs appreciates the opportunity to provide this proposal. If you need additional information or have any questions regarding this letter, please feel free to contact me by phone at 201.795.1411 or by e-mail at mark.berube@jacobs.com.

Thank you for your consideration regarding this proposed out of scope project.

Regards,



Mark Berube
Project Director



Kevin Dahl
Regional Director, Jacobs

Cc: Richard Wolff, NHSA Executive Director
Fredric Pocci, NHSA Special Advisor
Phil Reeve, Jacobs OM



Phone: 732-888-1188
Fax: 732-888-1190
Website: www.auroraenvironmentalinc.com

1102 Union Avenue
Union Beach, N.J. 07735

July 25, 2023

Jacobs
1600 Adams Street
Hoboken, N.J. 07030

Attention: Mark Berube
Cell: 203-687-1730
Email: mark.berube@jacobs.com
Reference: Emergency Generator Tank Replacement
Site: North Hudson Sewerage Authority
6400 Anthony M. Defino Way West New York, N.J.

Aurora Environmental, Inc. was established in **1992**, and has specialized in the field of Underground Storage Tanks for over **31 years**. Aurora is the one and only source you need to handle your environmental issues. Aurora supplies qualifications that are unsurpassed in the industry. Aurora Environmental, Inc. is certified by the NJDEP for the Removal, Installation, Testing and Sub-Surface Evaluation of Underground Storage Tanks.

Aurora Environmental, Inc.'s key personnel have over **31 years'** experience in the environmental and underground storage tank fields. Aurora Environmental, Inc.'s personnel are trained and **certified by O.S.H.A. and the NJDEP**.

Aurora Environmental, Inc. prides itself on providing its clients with the knowledge that the services provided are supplied with Aurora's own personnel. Services provided that include, tank removal, tank installations, soil testing, and NJDEP Reporting.

Aurora Environmental, Inc. is a company staffed with qualified professionals and technicians providing highest quality, cost effective solutions that meet the challenges of governmental, industrial and residential concerns, large or small projects while keeping our clients needs as our priority concern.

John DiGregorio
President

NJ STATE CONTRACT #42274

EMERGENCY GENERATOR TANK REPLACEMENT

Jacobs

**Site: North Hudson Sewerage Authority
6400 Anthony M. Defino Way West New York, N.J.**

SCOPE OF SERVICES AND TECHNICAL PROCEDURES

Introduction

Aurora would like to take the opportunity to thank you for allowing us to provide the following proposal. The proposal is outlined based upon the information available at the present time. If site conditions change or there is a change in the scope of activities, Aurora will provide a written estimate or change order to address any additional activities not specifically outlined.

Overview

As per our conversation and site visit, you have requested that Aurora Environmental, Inc. to provide a proposal for the removal of one (1) 1,000 gallon underground storage tank and install one (1) 1,000 gallon aboveground storage tank and related accessories at the **Site: North Hudson Sewerage Authority 6400 Anthony M. Defino Way West New York, N.J.** I have compiled this proposal into two (2) Sections (1. Removal & 2. Installation). I have provided a price breakdown for your review and then provided that pricing based upon our existing NJ STATE CONTRACT.

Section 1. UNDERGROUND TANK REMOVAL

NJDEP LSRP REQUIREMENTS

Based on the information obtained to date, several steps must be taken in accordance with the current NJDEP regulations and the Licensed Site Remediation Professional (LSRP) Program. The LSRP program is a streamlined process that allows individuals with a LSRP license to “close” sites. By allowing the acquired LSRP to make this decision, the result is a faster outcome for the client, as only forms and an accompanying report are required as final submittals to the NJDEP.

The NJDEP requires a regulated underground storage tank owner to enter into the LSRP program and therefore, certain prerequisites must be met prior to and during the tank removal and if necessary remediation of the project site. NJDEP requires forms to be completed and submitted in specific timelines to be considered compliant in the LSRP program. The forms include NJDEP Discharge Notification Form (if necessary), NJDEP Public Notification Form (if necessary) and the NJDEP LSRP Retention Form (required). If contamination is present, additional reporting will include in addition to the forms outlined, we will need to complete a Receptor Evaluation and submitting the Annual Remediation Fee Reporting form and accompanying \$450 fee. I have outlined a detailed scope of work in order to satisfactorily remove the underground storage tanks and to determine the remaining outstanding work and that will be required to issue the Response Action Outcome (RAO) document. The RAO document is only issued once all work associated with the area of concern has been completed and no further investigation or remediation is required.

SCOPE OF SERVICES

Aurora will provide all necessary equipment, labor and materials for the removal of one (1) 1,000 gallon diesel underground storage tank. The tank stored diesel for a backup generator. The scope of the work and tank removal activities will be performed on the property of **Site: North Hudson Sewerage Authority 6400 Anthony M. Defino Way West New York, N.J.** tank is listed as follows; one (1) 1,000 gallon diesel underground storage tank. The general scope of work will entail permitting, tank excavation, cleaning and disposal of tank sludge, removal of the tank and associated piping, sampling, backfilling and site restoration. All excavations are to be backfilled with clean fill obtained from a certified source.

Contingencies must be included to cover such items as removal and disposal of contaminated ground water, and the excavation and staging of petroleum contaminated soils for subsequent off-site disposal. All field work shall be conducted in accordance with the Occupational Safety and Health Administration (OSHA) regulations (24 CFR Part 1910.120).

TECHNICAL PROCEDURES

Technical specifications and procedures pertaining to the removal of the underground tank at the property located at **Site: North Hudson Sewerage Authority 6400 Anthony M. Defino Way West New York, N.J.** are compiled in the following sections. Further, ten (10) major tasks are identified as part of the tank removal activities; these tasks include:

- * Permitting
- * Tank Excavation & Demolition
- * Tank Cleaning
- * Tank Removal
- * Staging of Contaminated Soils
- * Soil Sampling
- * Backfilling
- * Restoration
- * Reporting

All work shall be completed in accordance with the New Jersey Department of Environmental Protection requirements for underground tank removal, and shall follow the guidelines established under American Petroleum Institute / Recommended Practice 1604 Removal and disposal of Used Underground Petroleum Storage Tanks. Referenced technical procedures include:

- * API (American Petroleum Institute) = Recommended Practice 1604 Removal and Disposal of Used Underground Petroleum Storage Tanks
- * Federal Register 29 CFR Parts 1910 - Hazardous Waste Operations and Emergency Response
- * Federal Register 40 CFR Parts 280 and 281 - Underground Storage Tank; Technical Requirements and State Program Approval
- * NFPA (National Fire Protection Association) - Flammable and Combustible Liquids Code: Appendix C - Abandonment or Removal of Underground Tanks ANSI/NFPA 30
- * NFPA (National Fire Protection Association) - Standard Procedures for Cleaning or Safeguarding Small Tanks and Containers ANSI/NFPA 327

* NJDEP (New Jersey Department of Environmental Protection) - NJAC 7:26-1, 4, 7-12 and NJAC 7: 14A-4, 6, and 11: Hazardous Waste Regulations

* NJDEP Bureau of Underground Storage Tanks - Investigation and Corrective Action Requirements for Discharges from Underground Storage Tanks and Piping systems. September 1989

PERMITTING

The permits required for underground storage tank removal is first, to obtain a NJDEP Closure Approval or 14 Day Notice of Intent, Aurora will include in this proposal the cost associated with the application and submission to the NJDEP. The owner will be responsible for all permit fees, late fees, penalties, registration fees and application fees required by the NJDEP or local code department. Aurora will obtain permits from local code official for the demolition permit required for the removal of the underground storage tank. Aurora will include in its quotation the cost for applying and obtaining all necessary permits, owner will be responsible for any fees related to permit applications.

TEMPORARY FUELING

Not applicable for this project

TANK EXCAVATION & DEMOLITION

A phased approach is proposed for the excavation of the on-site tanks. The overall strategy is to complete tank excavation and removal, then backfill the excavation (assuming no past tank leakage). Prior to the start of the tank excavation activities, it will be Aurora's responsibility to obtain the utility mark-outs.

General considerations pertaining to tank excavation, demolition and tank removal activities include: 1) the demolition of the existing concrete surface slab and disposal, 2) the removal and disposal concrete, asphalt paving and other fill material overlying and surrounding the tank excavation areas: 3) segregation of clean fill materials surrounding the tanks, 4) securing the excavation at the end of each work day: and 5) de-watering (if necessary) during excavation. All contaminated water shall be disposed of off-site under proper manifest as a contingency cost. This contract will only cover the excavation and loading of those concrete, asphalt and other fill materials from areas overlying the underground tank and only the area immediately adjacent to the tanks to allow access for excavating the tanks. Contingencies shall be made to remove and dispose of any concrete pads found anchoring the tank if deemed necessary by the LSRP. Concrete and asphalt shall be segregated for subsequent off-site disposal by Owner. Tank excavations remaining open at the end of each work day shall be secured. **If shoring is deemed necessary for any reason, Aurora will supply a separate proposal for shoring any open excavations.**

TANK CLEANING

The tanks will be emptied prior to excavation, and where possible the tanks shall be cleaned in place prior to removal. Aurora will be responsible for the removal and disposal of all bulk liquids and sludge generated during tank cleaning operations. The tank wastes shall be disposed of under a "Uniform Non-Hazardous Waste Manifest Form". The tank waste will be paid on a unit cost listed on the Contingency Page of this proposal.

TANK REMOVAL

The underground storage tanks and its associated vent line, fill line, valve, fill cap and covers shall be removed as part of the contract. Further, the tank shall be removed from the project site and loaded onto Township owned containers for disposal at a local landfill. The Township will provide Aurora with the required manifest and receipt of disposal for the storage tanks removed.

POST EXCAVATION SOIL SAMPLING

The required soil sampling will be performed and analyzed for Volatile Organics as required for gasoline underground storage tanks and Extractable Petroleum Hydro-carbons (EPH) for the diesel underground storage tank. The required soil sampling for the closure of a 1,000 gallon diesel underground storage tank are as follows; one (1) sample is to be collected for every 5 linear feet of tank, one (1) sample is to be collected for every 15 linear feet of piping. Therefore, based upon the tank and the estimated piping length, Aurora will be collect and analyze for the diesel tank will be as follows; four (4) samples for the tank and one (1) sample for the piping. The samples will be analyzed for Extractable Petroleum Hydro-carbons (EPH) for the diesel tank. If any additional analysis are deemed necessary, it will be billed based upon the unit rates supplied on the Unit Pricing Page of this Proposal.

Please take note, that in the event that contamination exists, or if any results are greater than the states clean-up criteria, then additional analysis will be need to be completed. Any additional soil analysis is not covered in this proposal; all additional soil analysis will be an additional charge above the original estimate. Aurora will provide backhoe service, if needed, for collection of soil samples. Aurora will include in its quotation the cost for retrieving and analyzing the samples listed.

EXCAVATION AND STAGING OF CONTAMINATED SOILS

In the event, that the underground storage tanks appears to be leaking, and contamination is detected, petroleum contaminated soils shall be excavated and staged on site. Excavated soils shall remain on site until a waste classification sample analysis is completed by Aurora. Staging areas shall be lined with a minimum of 6-mil plastic sheeting. Finally, Aurora shall provide a unit cost for the disposal of petroleum contaminated soils on per ton basis. Aurora will supply hourly rates for the excavating and staging of contaminated soil.

BACKFILLING

All tank excavation areas shall be backfilled with the excavated material removed to extract the underground storage tank. Aurora will include the backfilling of the tank voids as part of this proposal. Any additional backfill required due to contamination or any other circumstances will be an additional charge to this estimate. The material will be laid in 12 inch lifts and carefully hand tamped to keep settlement to a minimum.

RESTORATION

Aurora will restore the area back to its original condition. Aurora will provide and install one (1) concrete surface apron with dimensions of 12' x 10' x 8" in depth with #4 reinforcement bar spaced 12" on center and the concrete will have a comprehensive strength of 4,000psi.

NJDEP REPORTING

Aurora will provide a Licensed Site Remediation Professional (LSRP) for project oversight and report preparation. Aurora will prepare and submit one (1) Site Investigation Report for this project. If the investigation is deemed complete, Aurora will prepare and submit to the owner and the NJDEP the Area of Concern (AOC), Response Action Outcome (RAO) document to complete the project. The report will outline all tank removal activities, soil sampling, tank disposal, analytical data and conclusions. Aurora will submit the original to the NJDEP. Any review fees that are required by the NJDEP will be billed and payable directly by the owner or its representative.

SCHEDULE

The proposed work scheduled for all the activities outlined will take approximately 30 to 45 days to complete. The estimated schedule is based upon the NJDEP and Local Permit process, tank removal activities, backfilling, soil sampling, restoration and reporting. Weather delays and construction delays may be encountered that may result in delays to this proposed schedule.

PRICING

UNDERGROUND TANK REMOVAL

Jacobs

**Site: North Hudson Sewerage Authority
6400 Anthony M. Defino Way West New York, N.J.**

Item/Description	Quantity	Rate	Total
Enter LSRP Program (Form)	1	\$300	\$300
14 Day Notice of Intent	1	\$300	\$300
Filing for Local Permit	1	\$75	\$75
HASP	1	\$300	\$300
Tank Removal (1,000 Diesel)	1	\$5,500	\$5,500
Disposal of Tank Sludge (diesel)	2 drums	\$250/drum	\$500
Soil Sampling Diesel Tank (EPH) 10-day turnaround	5 samples	\$130/per	\$650
Certified Clean Backfill (Tank void only)	15 Tons	\$45/ton	\$675
Restoration Concrete Apron	1	\$3,500	\$3,500
LSRP Site Visit, Review & Comments	12 hours	\$150/hour	\$1,800
CAD/Drafting	4 hours	\$95/hour	\$380
Case Inventory Documents	1	\$150	\$150
Site Investigation Report Form	1	\$150	\$150
Site Investigation Report	1	\$3,000	\$3,000
Response Action Outcome (RAO)	1	\$1,200	\$1,200
Total Cost Estimate			\$18,480

Items not covered:

1. Permit Fees
2. NJDEP Review Fees
3. Disposal of Contaminated Soil
4. Tank Anchoring Slab Removal (if necessary)
5. Any Additional Items

UNIT RATES

Labor

LSRP	\$150/hour
Project Manger	\$95/hour
NJDEP Sub-Surface Evaluator	\$95/hour
Field Technicians	\$75/hour
Equipment Operators	\$95/hour
Clerical	\$40/hour

Material and Disposal Rates

Disposal of Diesel	\$1.20/gallon
Disposal of Contaminated Water	\$1.20/gallon
Contaminated Soil Disposal	\$75/ton
Disposal of Solids/Liquids (drum)	\$250/drum
Certified Clean Fill	\$30/ton
¾" Clean Stone	\$45/ton
¾" DGA Stone	\$45/ton

Equipment/Instrumentation/Sampling

Excavator (large)	\$1,500/day
Excavator (small)	\$950/day
Backhoe	\$950/day
Skid Steer	\$750/day
Vacuum Truck & Operator	\$130/hour
Geo-Probe & Operator	\$3,200/day
Support Vehicle & Equipment	\$150/day
Photoionization Detector (PID)	\$150/day
Groundwater Interface Probe	\$75/day
Mini-Rae Gas Meter (LEL, O ₂ , H ₂ S)	\$75/day
Jack Hammer/w/compressor	\$250/day
Vibratory Plate Compactor	\$95/day
Vibratory Roller (remote)	\$550/day
Frac-Tank (6,500 gallon)	\$2,500/month
Dewatering Pumps & Hoses (3")	\$675/day
Plastic Sheeting 6-mil	\$125/roll

Analytical Rates

TCL/TAL + 30 (groundwater)	\$950/per
TCL/TAL + 30 (soil)	\$750/per
BN +15 SIMS (groundwater)	\$375/per
EPH (soil)	\$130/per
Volatile Organics (VOC)	\$175/per
Base Neutrals (Naphthalene, 2-Methylnaphthalene)	\$250/per
PCB	\$75/per
Lead	\$75/per
Encore Sampling Kit	\$25/per
Waste Classification Analysis	\$950/per
Priority Pollutant Metals	\$225/per
Priority Pollutant + 40	\$1,100/per

Section 2.

ABOVEGROUND TANK INSTALLATION

OVERVIEW

Aurora has been requested to provide pricing for the installation of a NEW 1,000 Gallon Aboveground Storage Tank at the **Site: North Hudson Sewerage Authority 6400 Anthony M. Defino Way West New York, N.J.** The overall scope of work will included permitting, site work and diesel fuel tank installation. I have provided this pricing based upon Aurora's current State Contract. The base proposal is for the installation of one (1) 1,000 gallon diesel aboveground storage tank with accessories in the same vicinity as the underground storage tank scheduled for removal. I have outlined a detailed scope of work for this project along with corresponding pricing.

SCOPE OF SERVICES

After reviewing the site and its current condition, I have compiled the following proposal. Aurora will provide all labor, materials and incidental equipment to install one (1) 1,000 gallon "Fireguard" Diesel Aboveground Storage Tank. The tank will be 1,000 gallon double-walled aboveground storage tank. The base bid work will be performed on the property located on the **Site: North Hudson Sewerage Authority 6400 Anthony M. Defino Way West New York, N.J.** The general scope of work will entail permitting, concrete pad, piping installation, installation of accessories, installation of tank monitoring system, installation of impact protection and system start-up. All field work shall be conducted in accordance with the Occupational Safety and Health Administration (OSHA) regulations (24 CFR Part 1910.120).

TECHNICAL PROCEDURES

Technical specifications and procedures pertaining to the installation of the aboveground storage tank at the property located at the **Site: North Hudson Sewerage Authority 6400 Anthony M. Defino Way West New York, N.J.** are compiled in the following sections. Further, nine (9) major tasks are identified as part of the tank installation activities; these tasks include:

- Permitting
- Site Work
- Concrete Pad
- Tank Placement
- Accessory Installation
- Piping Installation
- Tank Monitoring Installation
- Impact Protection
- System Start-up

PERMITTING

Aurora will be responsible for obtaining all necessary permits to perform tank installation activities. Aurora will call for all necessary inspections. **Owner** will be responsible for paying all fees applicable to permit costs.

SITE WORK

The tank location area is scheduled to be installed in a different location than the existing underground storage tank and the overall plan is to complete the new installation prior to the removal of the old underground storage tank. Aurora will provide all necessary equipment for the Site Work required for the completion of this project. The site work will include all excavation, grading and compacting of subgrade material. Aurora will call for all necessary underground inspections. Once all inspections have been completed, Aurora will backfill and compact all trenches and excavations.

CONCRETE PAD

Aurora will furnish all labor and materials to install one (1) tank foundation concrete pad. The concrete pad will be installed as outlined by the manufacturer's recommendations. The pad dimensions will be 8' in width by 15' in length and 12" in depth. The pad will be installed with two mats of #4 rebar equally spaced 11-3/4" on center in both directions with a minimum of 2" of clearance on all sides. The comprehensive strength of the concrete will be 4,500psi. Aurora will call for all necessary inspections prior to pouring of the concrete pad. Aurora will provide concrete test results for all concrete material supplied.

TANK PLACEMENT

Once the concrete pad has properly cured, Aurora will schedule the delivery of the new aboveground storage tank. Aurora will provide all necessary equipment and rigging to properly off-load the storage tank onto the newly installed concrete pad. Once the tank has been placed in its final location, Aurora will proceed with the piping and accessory installation.

ACCESSORY INSTALLATION

Aurora will provide all labor and incidental materials to install the tank top accessories. The tank top accessories will include the installation of overfill protection, 2" clock gauge, and emergency vent package, and atmospheric vents.

PIPING INSTALLATION

Aurora will supply and install two (2) 1" schedule 40 black iron pipe for the supply and return lines for the emergency generator. All aboveground piping will receive two (2) coats of exterior white oil based paint for corrosion protection. All aboveground piping will be installed and will be anchored with uni-strut and equivalent anchor strapping. In addition, Aurora will install one (1) 1" ball valve.

TANK MONITORING SYSTEM INSTALLATION

Aurora proposes to install one (1) new Omntec 3 Channel Tank Controller Console. The monitoring system will be a direct replacement of the existing tank monitoring system. Aurora will provide and install all control and power wiring for the tank monitoring system. Aurora will replace all incidental electrical connections to complete the installation. The console will be mounted in the supervisor's office or area designated by the supervisor in the office area.

DAY TANK REPLACEMENT

Aurora will remove and dispose of one (1) existing day tank and replace it in the same location with one (1) new Tramont 150 gallon double-walled day tank equipped with an emergency return pump designed for use with aboveground storage tank. Our scope of work will include the complete piping and electric reconnection. We will prime the system and test the system for proper operation. We will provide the owner with O&M manuals for the newly installed day tank.

IMPACT PROTECTION

Aurora will provide and install six (6) 6" concrete filled bollards for impact protection. Aurora will install the bollards not to exceed a distance greater than 48" on center spacing. The bollards will receive a 18" diameter footing and will be installed with a footing depth of 42". The concrete strength will be 3,000psi and all bollards will receive two (2) coats of oil based exterior "safety yellow" paint.

SYSTEM START-UP

Aurora will provide system start-up on the newly installed aboveground storage tank system and components. Aurora will prime and run system through a complete cycle to ensure proper installation.

EMERGENCY GENERATOR TANK INSTALLATION

Jacobs

**Site: North Hudson Sewerage Authority
6400 Anthony M. Defino Way West New York, N.J.**

EQUIPMENT LIST

- (1) 1,000 Gallon Double-Walled "Fireguard" Aboveground Storage Tank with staircase
- (1) 5-gallon Overspill Containers Tank Mounted
- (1) 2" AST overflow protection valve
- (1) Up flow Vent
- (1) Morrison Bros. Clock Gauge
- (2) 6" Emergency Vents
- (2) Piping: Aboveground black iron pipe 1" painted white, ball valve,
- (1) Omntec 3 Channel Controller Console with (1) probe, (1) interstitial sensor, cap
- (1) Tramont UTRS-150 gallon day tank system, equipped with 150 gallon day tank, UL-142, UL-508, rupture basin for indoor use, Reverse pumping system, includes critical high switch with plug-in relay, 4gpm Viking pump with 1/3hp motor 115VAC, 1 Phase, 1/2" solenoid valves, 3/4" wire mesh strainer, check valve, 2" vent, 3" emergency vent, labeling and NFPA placarding.

Controller

Tramont UL Listed System 2000PLUS Electronic Control Module, 120VAC standard. The System 2000PLUS includes the following functions: Fuel level gauge High fuel level warning Critical low level shut off, ECM functional signal Pump control Low fuel level warning, Fuel in basin alarm (for double wall)

PRICING

EMERGENCY GENERATOR TANK INSTALLATION

Jacobs

**Site: North Hudson Sewerage Authority
6400 Anthony M. Defino Way West New York, N.J.**

PRICED AS OUTLINED BY NJ STATE CONTRACT #42274

Permitting
Site Work
Concrete Pad
Tank Placement
Accessory Installation
Piping Installation
Tank Monitoring Installation
Impact Protection
System Start-up

TOTAL PRICE \$85,030.00

Items not covered:

1. Permit Fees (if applicable)
2. Disposal of Any Material
3. Remediation of UST's
4. Electrical work not specifically outlined
5. Work not specifically outlined

CUSTOMER ACCEPTANCE

EMERGENCY GENERATOR TANK REPLACEMENT

Jacobs

**Site: North Hudson Sewerage Authority
6400 Anthony M. Defino Way West New York, N.J.**

TERMS AND CONDITIONS

NOTES: All labor pricing is based on a portal-to-portal basis, times will be adjusted accordingly. Also, any additional time, disposal or backfill required for this project will be billed at the unit rates supplied. The proposal does not cover any excavating, staging, transportation and disposal of contaminated soil. No Shoring, Restoration and/or Site Security are part of this proposal.

It should be noted this is on a portal to portal and that time and one half charges apply before 0700 and after 1500 weekdays and Saturday. Double time for Sunday work and triple time for holiday work. This proposal is priced using **NJ PREVAILING WAGE RATES**.

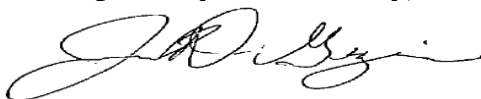
Aurora Environmental, Inc. has based this proposal on the information supplied at the present time. If site conditions change or if there is a change in the scope of work, Aurora will supply written change order request for your approval.

Please note –All additional activities will not be performed without written authorization from the owner or its representatives. Also, any additional permitting and/or fees required will be billed at cost plus 15%.

In order to proceed, Aurora will require written authorization and purchase order in the amount outlined in this proposal for the removal and installation with the **total amount of \$103,510.00**. All invoices are to be paid within 30 days of invoice date; any deviation in this payment policy will result in a finance charge assessed at the rate of 1.5% monthly.

If after review of this proposal, you should have any questions please feel free to contact me at 732-888-1188.

Respectfully Submitted by,



**John DiGregorio
President**

JDD/bl

Accepted by _____

Print Name _____

Date _____

Purchase Order # _____

TRS Series Day Tank



The System 2000PLUS ECM: The leading performer in Day Tank monitoring and control

The System 2000PLUS™ Electronic Control Module (ECM) gives you state-of-the-art control of your Day Tank system. The System 2000PLUS is standardly included on all Tramont TRS Series day tanks. This UL Listed, microprocessor-based ECM represents a significant advance in fuel system control. Old-style controllers utilize individual, electro-mechanical float switches for each monitoring function. A malfunction can go undetected for months or years until there is a crisis. The System 2000PLUS is self-diagnostic, and features a single sensor for main monitoring functions. It lets you know immediately if there is a problem. You have time to react, avoiding a costly disruption. The System 2000PLUS gives you fast, accurate, comprehensive monitoring, and is available exclusively from Tramont.

Standard Features

The System 2000PLUS ECM offers the following standard features:

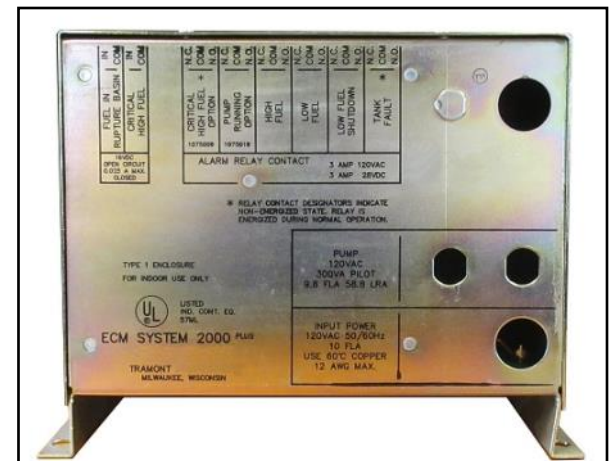
- UL 508 Listed.
- Operates on standard 120 VAC, 1 phase system, 50/60 Hz.
- LED indicators for all functions.
- Fuel level sensor.
- Motor control relay with LED signal, rated up to 1/2 HP.
- High and low fuel level warnings.
- Critical low fuel level warning for engine shutoff.
- Fuel-in-rupture-basin warning interface.
- ECM functional signal.
- Manual control with On, Off and Test buttons.
- Secure internal test button for testing warning LEDs and remote annunciation of warnings.



ECM Single Supply Pump.



ECM Duplex Supply Pumps.



ECM Rear.

Day Tank Control Specification: System 2000PLUS™ ECM

GENERAL

This section covers the electrical description and installation of the Tramont standard System 2000PLUS™ electronic control module (ECM). Installation of the ECM should be performed by a qualified electrician. These specifications provide information on standard System 2000PLUS features.

DESCRIPTION

The heart of the "SYSTEM 2000" ECM is an electrical analog float gauge providing signals to the ECM for:

Fuel level indication	Pump control	High fuel level warning
Low fuel level warning	Low fuel level shut off	ECM functional signal

All signals and warnings are provided with N.O. and N.C. contacts for remote annunciation. The ECM can be manually controlled by ON, OFF, and TEST push buttons. In addition, an internal test button allows for a periodic test of all warning LEDs and remote annunciation relays.

FUNCTIONS

The purpose of the ECM is to maintain the fuel level of the Day Tank by controlling a pump/motor. The pump is off at the normal fuel level and is activated at 87% full. A "pump running" indicator LED is on when the pump is activated. Motor relay is prewired to pump motor.

WARNING: When ECM "OFF" push button is engaged the unit is disabled, however, 120 VAC power is still present within the ECM, indicated by the "power on" LED.

OPTIONS

1920 Duplex pumping system. Adds 2nd pump and motor for safety redundancy. Control alternates lead pump.

1930 Controls are available for 12 VDC operation. Single or duplex. Consult factory for specifications.

3240 Pump running contacts for remote annunciation.

3250 Critical high shutdown. Separate float switch senses critical high fuel level, disengaging motor and optional solenoid valve. Warning relay supplied for remote annunciation.

INCOMING POWER

The ECM is powered by a customer-supplied 120 VAC line. Power terminals are accessible by removing four cover screws on the ECM and removing the ECM cover exposing the terminal strip. Wires should be run through knockout provided.

LEVEL SENSOR

The day tank's level is determined by an electrical analog float sender located below the ECM on the inspection plate cover. The sensor provides a 0 – 90-ohm signal to the ECM, which converts it to a precise fuel level. Fuel level is indicated by nine incremental LEDs on the ECM from EMPTY to FULL.

ALARMS

The ECM has five standard alarm conditions. Each alarm is indicated locally by an LED and remotely by wiring to supplied relays. A normally open and normally closed contact is provided for customer connections. Contacts are rated at 3 amps, 120 VAC or 24 VDC.

High fuel: Activates at 106% of normal fuel level with a two second change of state time delay.

Low fuel: Activates at 62% of normal fuel level. This enables user time to react to a potential problem before low fuel shutdown occurs.

Low fuel shutdown: Activates at 6% of normal fuel level. This enables user to shut down engine generator before fuel runs out, preventing loss of prime or engine damage.

Fuel in rupture basin: With a rupture basin float switch, (option #2930) the ECM will signal if fuel is in the rupture basin.

ECM functional: The ECM performs many internal checks (including float gauge) to ensure proper operation. If a fault occurs, this LED will go from constant to flashing and de-energize the relay. It is suggested that the customer wire to the normally closed contact thereby providing a signal if a fault does occur.

MODE

There are four modes of operation on the ECM:

Off: This pushbutton disables the ECM for routine maintenance to the tank system.

Caution: ECM functional de-energizes, which can activate a customer alarm wired to this relay.

On: This pushbutton activates the ECM after the Off pushbutton has been depressed. On any initial power-up condition, after a power outage, the ECM will automatically turn on.

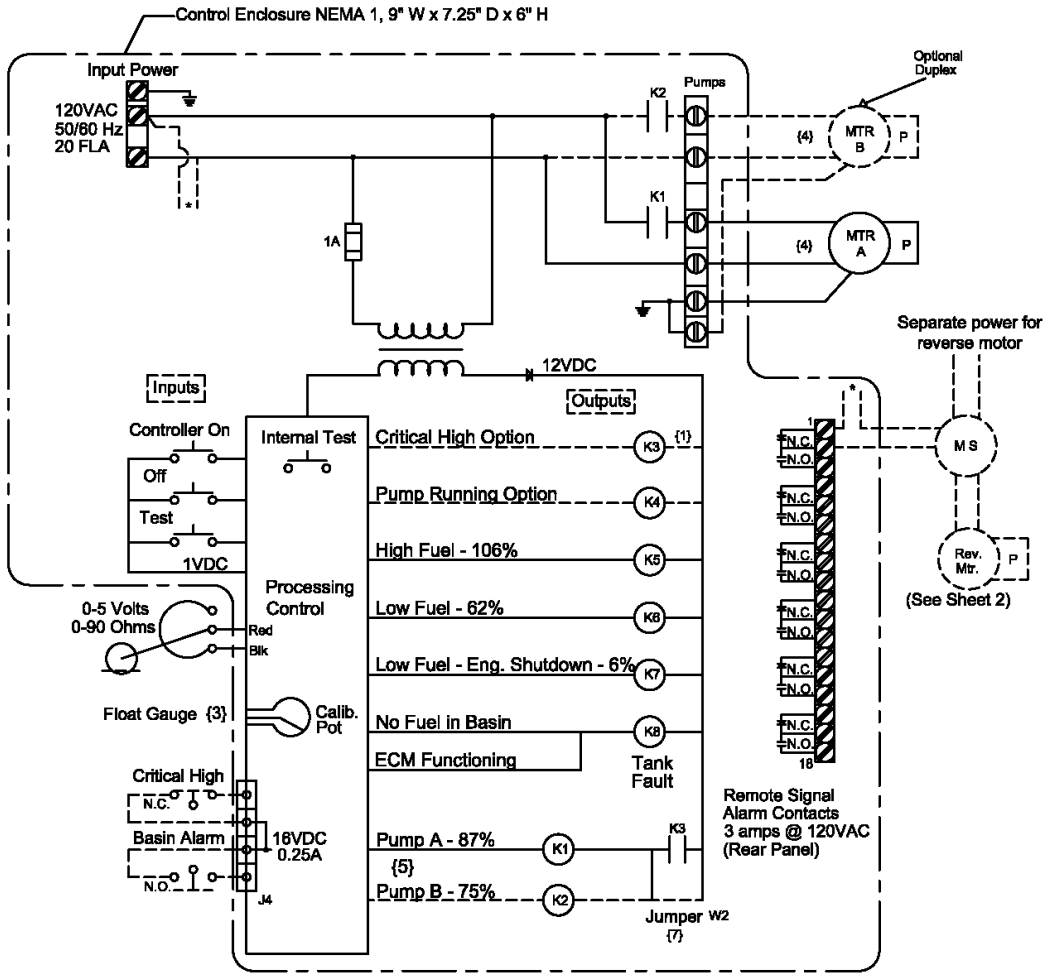
Test: This pushbutton will test all front panel LEDs and activate pump/motor for as long as the button is depressed. All alarm relays will not activate, but will maintain their original state.

Internal test: This pushbutton, located inside the ECM, will test each LED and remote annunciation relay in sequential order for three seconds, high fuel to ECM functional.

NOTE: It is recommended that both the external and internal test switch be activated as part of a periodic maintenance program to ensure reliable operation of the Day Tank.

"SYSTEM 2000 Plus" Electrical Control Module

This ECM has been designed to supply the customer with all the necessary options in a standard package. By following these installation guidelines a qualified electrician should be able to wire this unit into a generator control system providing the customer with complete monitoring and control over the day tank fuel transfer system.



NOTES:

1. Relay is energized during normal operation.
2. Dashed line indicates optional controls.
3. The controller is normally mounted above the gauge, sitting on the day tank. However, the controller can be mounted up to 50' away from the tank and gauge using #16 gauge shielded twisted wire.
4. Motor starter is required above 1/2 HP.
5. Pumps A and B alternate lead positions.
6. Warning: An inlet fuel strainer (#2330) is highly recommended to prevent fuel contamination, maintain fuel gauge integrity, and prolong the life of the pump.
7. Remove jumper with Critical High Option.

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Electrical Control Module

FOR: **System 2000 Plus** SHEET: **1 of 2** DRAWING NO.: **6000-22354**

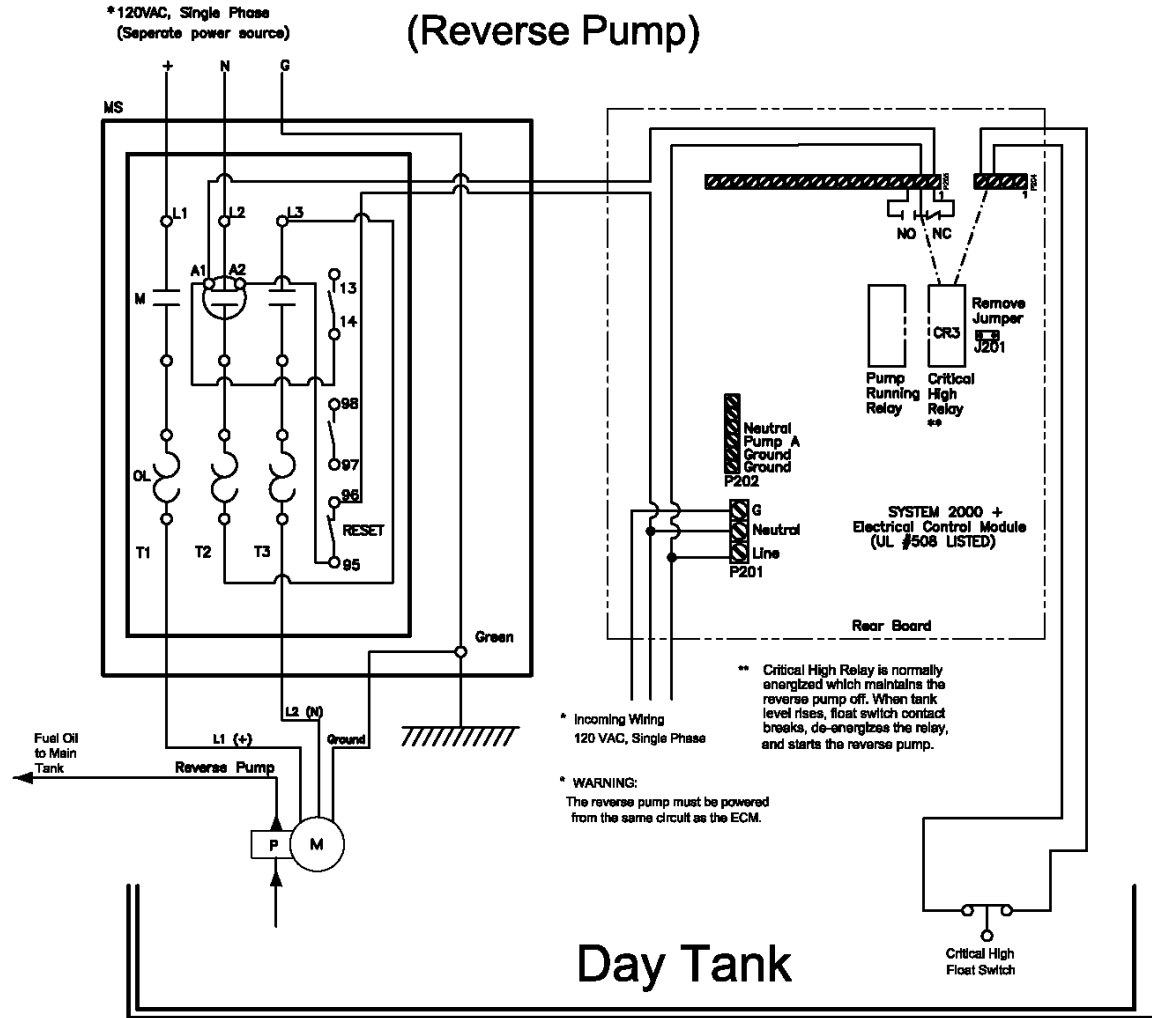
DATE: 04/02/10
 DRAWN BY: SJD
 CHECKED: DATE:
 APPROVED: DATE:
 SCALE: NTS



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S. Rev	Date	Description	Change Block
F	07/25/12	Add reverse motor and reverse motor starter	
E	12/18/10	"SHEET" was: 1 of 1	
D	12/07/10	Corrected spelling mistakes in notes	
C	10/05/10	Drawg corrected to show Basin Alarm Normally Open	
B	04/02/10	Changed notes, and diagram size	
A	04/02/10	Start	

Motor Starter (Reverse Pump)



16.

S. Rev	Date	Description	Name
F	07/25/12	Add reverse motor and reverse motor starter	GBH
E	12/18/10	*"SHEET" was: 1 of 1	XX
D	12/07/10	Corrected spelling mistakes in notes	CRT
C	10/05/10	Drwg corrected to show Basin Alarm Normally Open	JOM
B	04/02/10	Changed notes, and diagram size	SJD
A	04/02/10	Start	SJD
Change Block			



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DRAWN BY: SJD	DATE: 04/02/10
CHKD:	DATE:
APPROVED:	DATE:
SCALE: NTS	

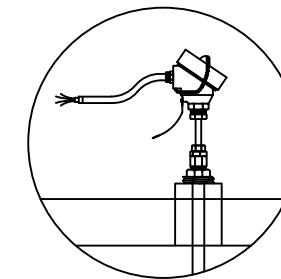
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DESCRIPTION: Electrical Control Module			
FOR: System 2000 Plus	SHEET 2 of 2	DRAWING NO.: 6000-22354	

NOTE: ALL RIGHTS RESERVED. THIS DRAWING MUST NOT BE REPRODUCED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF HIGHLAND TANK®. HIGHLAND TANK® SHALL BE RESPONSIBLE ONLY FOR ITEMS INDICATED ON THIS FABRICATION DRAWING UNLESS OTHERWISE NOTED. CUSTOMER IS RESPONSIBLE FOR VERIFYING CORRECTNESS OF SIZE AND LOCATION OF FITTINGS, ACCESSORIES, AND COATINGS SHOWN ON THIS DRAWING.

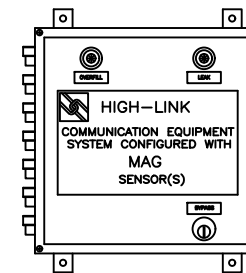
TOUCH UP OF FINISHED PAINT IS REQUIRED BY INSTALLATION CONTRACTOR. TOUCH UP PAINT SHIPPED WITH TANK.

SHIP LOOSE

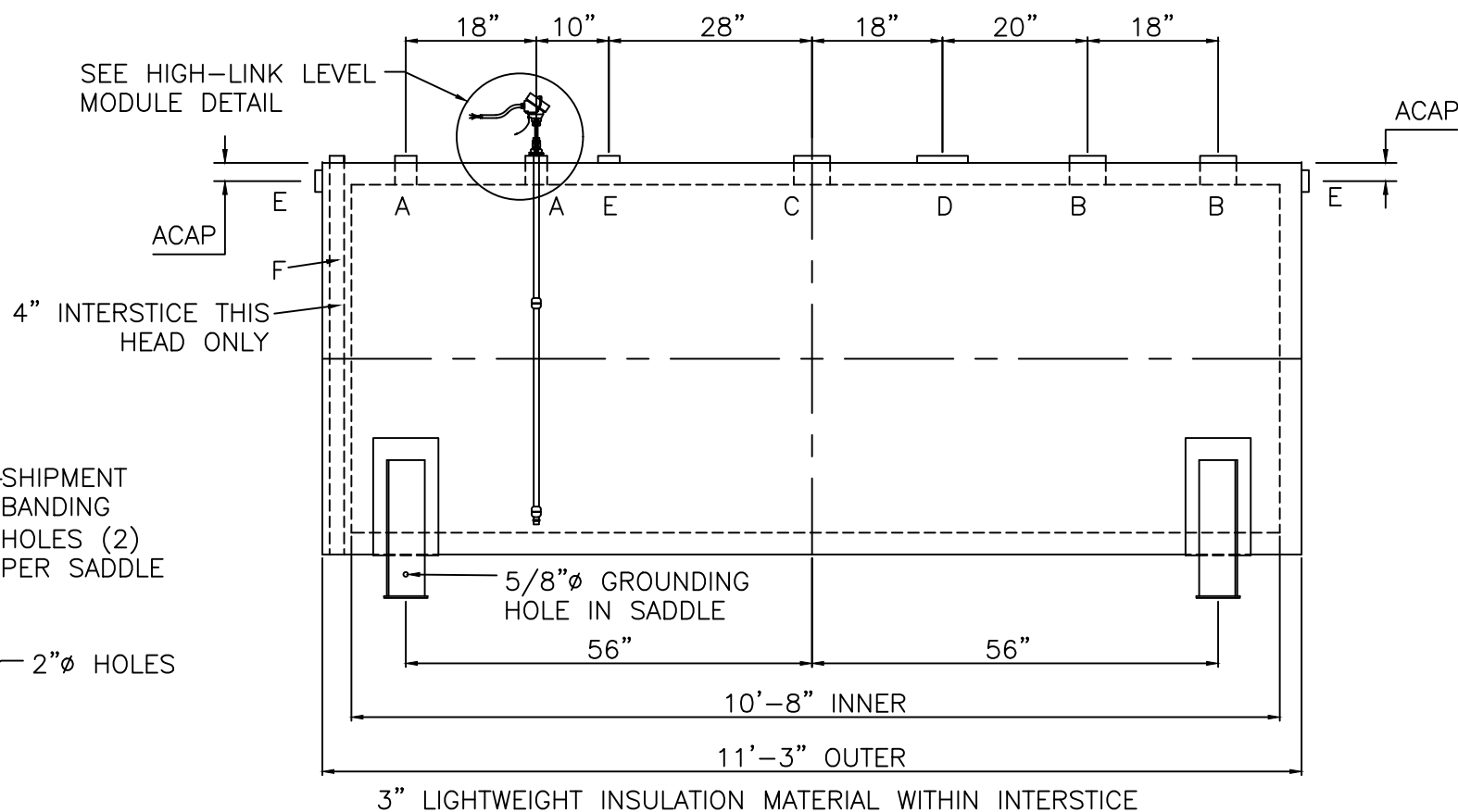
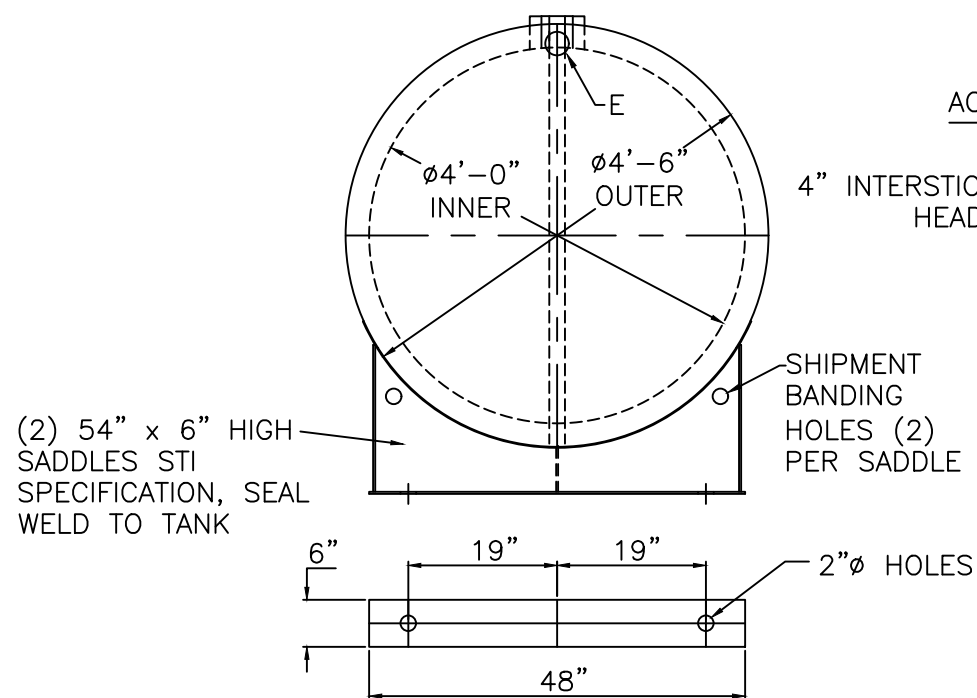
- (1) 6" THD. EMERGENCY VENTS
- (1) 4" THD. EMERGENCY VENTS
- (1) HIGH-LINK LEVEL SHIELD MODEL# LS_XEXD_1500 59" LONG & BUSHING WITH LS_LINK_GPRS COMMUNICATION BOX.



HIGH-LINK LEVEL SHIELD DETAIL




COMMUNICATION BOX DETAIL



DESIGN DATA	
CAPACITY :	1,000 GALLONS
TYPE:	FIREGUARD® CYLINDRICAL
FIREGUARD® IS A TRADEMARK OF THE STEEL TANK INSTITUTE	
NO. REQ. --	--
OPERATING PRESSURE --	ATMOSPHERIC
SPECIFIC GRAVITY =	1.0
TANK MATERIAL --	MILD CARBON STEEL
THICKNESS -- INNER --	7 GAUGE
THICKNESS -- OUTER --	7 GAUGE
MIN. GAUGE OR THICKNESS (PER U.L. 2085)	
CONSTRUCTION -- INNER --	LAP WELD OUTSIDE ONLY
CONSTRUCTION -- OUTER --	LAP WELD OUTSIDE ONLY
TANK TEST -- INNER --	5 PSIG
OUTER --	5 PSIG
INT. FINISH --	NONE
EXT. FINISH --	SP-6 BLAST, FINISH PAINT WHITE
LABEL--	UL 2085 AND FIREGUARD® PER sti

LEGEND	
A	2" FEMALE FIREGUARD COUPLING
B	4" FEMALE FIREGUARD COUPLING
C	4" FEMALE FIREGUARD COUPLING -- PRIMARY EMERGENCY VENT USE ONLY
D	6" FITTING THROUGH OUTER SHELL ONLY, MARK WITH SPECIAL WARNING LABEL INTERSTITIAL EMERGENCY VENT USE ONLY
E	2" FITTING THROUGH OUTER SHELL ONLY WITH CAST IRON PLUG-- MFG USE ONLY
F	2" INTERSTITIAL MONITOR PIPE -- MALE NPT END

NOTES:
STRIKER PLATES ARE NOT SUPPLIED ON FIREGUARDS® UNLESS SPECIFIED

 <h1 style="margin: 0;">Highland Tank</h1>	
UNLESS NOTED, TOLERANCES ARE +/- 1"	
1000 GALLON 48"Ø CYL. FIREGUARD®	
PATENT: 5,695,089 PATENT: 5,809,650	
CUSTOMER:	
PROJECT:	
QUOTE NO:	CHK'D BY:
SCALE: 1/2" = 12"	DATE:
DWG. BY:	DWG. NO: 01000FGCYL48