DRAINAGE TANKS

Volume IIX

Operations & Maintenance Manual

ST Steel

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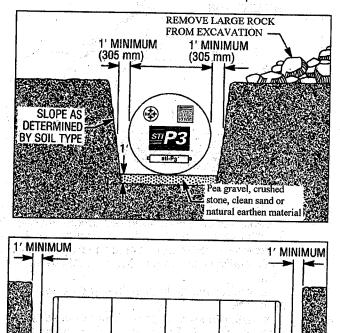
INSTALLATION INSTRUCTIONS

JUNE 2010

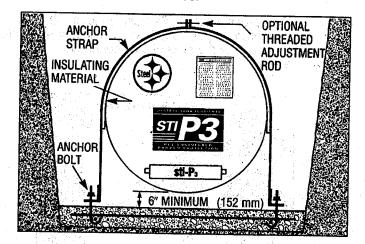
1.4

1.0 EXCAVATION AND BEDDING

- 1.1 The bottom of the excavation shall be covered with a minimum of 12 inches (305 mm) of bedding, suitably graded and leveled. Bedding and backfill material surrounding the tank, to a width and depth of 12 inches (305 mm) all around the tank, shall be clean material.
 1.2 Where anchoring by means of a concrete pad, the
 - Where anchoring by means of a concrete pad, the tank shall not be placed directly on the pad. Bedding material at least 6 inches (152.4 mm) deep must be spread evenly over the dimensions of the pad to separate the tank from the pad.



The backfill material may be from the tank site if it meets this description, or it may be delivered to the site from another source.



- **1.5** Sand or natural earthen materials used as backfill shall be placed into the excavation in 12-18 inch (305-458 mm) vertical lifts, compacted after each lift, at least 60% up the vertical height of the tank.
- **1.6** If earthen material from the site, or other earthen material, is to be used as bedding or backfill material, a minimum of four 1 cu.ft. samples shall be taken from different locations which are representative of the backfill material and the site. Samples shall be sieved to determine if the material complies with this specification.
- **1.7** In a tidal area, the tank "bedding" material shall be crushed stone or pea gravel. Sand and natural earthen material may be used only if measures are taken to prevent washout of material during the design life of the system.

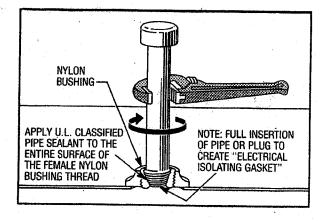
2.0 AIR TEST AT JOB SITE 2.1 Temporary plugs and three

- Temporary plugs and thread protectors installed by the manufacturer shall be removed. Apply compatible, non-hardening pipe sealant to internal bushing threads. Permanent metal plugs shall be installed at all unused openings.
- **2.2** The nylon bushings in sti-P₃[®] tanks shall not be removed from the unused openings. Plugs used to temporarily seal the tank for the above ground air test, but later removed for pipe installation, shall not be over tightened. Do not cross thread or damage the nylon bushings when replacing plugs or installing required tank piping.

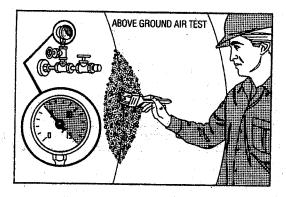
1.3 Bedding and backfill material shall consist of homogenous pea gravel, crushed stone, clean sand or natural earthen materials. Crushed stone, clean sand and natural earthen materials shall be capable of passing 100% through a 1/2 inch (13 mm) sieve and no more than 12% by dry weight through a #200 sieve (0.0029 inch (0.0754 mm)). Pea gravel shall be no larger than 3/4-inch (19 mm). The materials shall be free of all foreign materials, such as but not limited to, bricks, metals, concrete and plastics.

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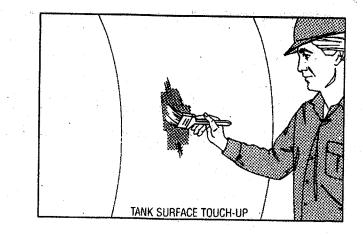
2.3 Test pressure shall be maintained at, without exceeding, 5 psig (34.47 kpa) while a soap solution is applied to the area of pipe connections and welds.



- 2.4 Dual wall tanks shall require different air pressure testing procedures. Do not connect a high pressure air line directly to the interstitial monitoring port. A factory applied vacuum within the interstitial space can be used in lieu of, or in addition to, the air test procedure. Consult tank fabricator for air test recommendations. Do not apply a vacuum to the primary tank or a single wall tank. PEI/RP 100-00 also provides guidelines.
- 2.5 Take necessary safety precautions during air tests. Do not leave tanks unattended. Avoid standing at the head of the tank, especially while applying air pressure. Use an air-pressure relief valve.

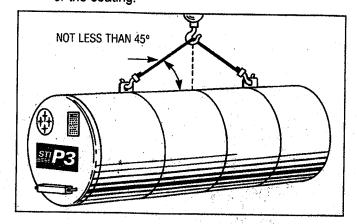
3.0 COATING INSPECTION

- 3.1 Before placing the tank in the excavation, all dirt clods and similar foreign matter shall be cleaned from the tank, and areas of coating damage shall be repaired with touch-up coating kit provided.
- 3.2 Clean damaged coating areas through removal of surface rust, dirt, contaminants and disbonded coating prior to application of touch-up coating (see SSPC SP-2 "Hand Tool Cleaning" or SP-3 "Power Tool Cleaning" for additional guidance).



4.0* TANK HANDLING & PREPARATION

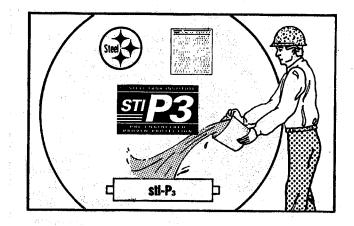
4.1 Controlled off-loading of the tank shall be allowed.
4.2 Equipment to lift the tank shall be of adequate size to lift and lower the tank without dragging or dropping to ensure there is no damage to the tank or the coating.



- **4.3** Tanks shall be carefully lifted and lowered by use of cables or chains of adequate length attached to the lifting lugs provided. A spreader bar shall be used where necessary. Under no circumstances shall chains or slings be used around the tank shell.
- **4.4*** Follow label instructions including those at tank openings.
- **4.5*** This tank requires venting. Refer to applicable local codes and PEI RP-100 for proper installation.

5.0 ANODE INTEGRITY

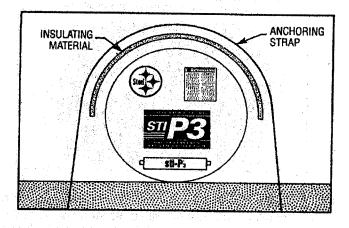
- 5.1 sti-P3[®] tanks may be equipped with either zinc or magnesium anodes. Whereas magnesium anodes are designed only for installation in soil resistivities of 2000 ohms-cm or greater, zinc anodes are effective in all soil resistivities.
- **5.2** After an sti-P₃[®] tank has been placed in the excavation, if anode is connected by a lead wire, attachment to the tank shall be checked to assure this connection has not been damaged. Where damaged, the connection must be re-established in strict accordance with this specification.



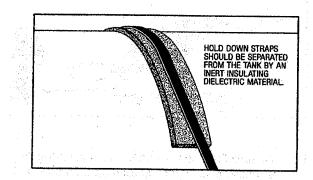
5.3 <u>To assure immediate operation of cathodic</u> protection system, each anode shall be thoroughly saturated with water at time of backfill operations.

6.0 ANCHORING

6.1



High water tables or partially flooded excavation sites exert significant buoyant forces on tanks. Buoyant forces are partially resisted by the weight of the tank, the backfill and the pavement atop the tank. Additional buoyant restraint, when required, shall be obtained by using properly designed holddown straps in conjunction with concrete hold-down slabs or deadman anchors. The use of steel cable and/or round bar as hold-down straps on the tank is prohibited.

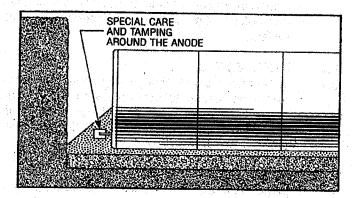


6.2 If a metallic hold-down strap is used, a pad of inert insulating di-electric material must be used to insulate the hold-down strap from the tank. The separating pad shall be wider than the hold-sown straps, which will prevent direct contact between the straps and the tank shell. This pad is not required if the hold-down strap is fabricated from non-conductive material.

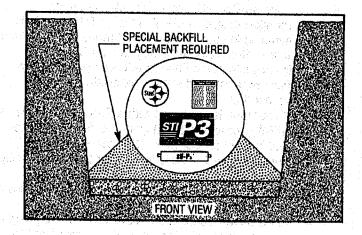
Ballasting the tank may be necessary. When water is used as the ballast material, it shall only be potable water and shall not remain in the tank longer than 60 days. During construction, adequately vent all tank spaces. If product is used as ballast, proper precautions must be taken to prevent fires, spills, leaks, and other associated accidents. Monitor product level frequently to ensure there has been no unaccounted loss of product. Do not over tighten hold-down straps beyond snug and do not re-tighten hold-down straps after ballasting.

7.0 BACKFILLING

6.3



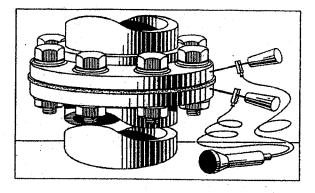
7.1 Homogeneous backfill similar to bedding material shall be placed carefully around the entire tank to create a uniform homogeneous environment. Avoid damage to coating especially where tamping is required.



7.2

7.3

Installing and tamping backfill along the bottom sides of the tank shall ensure that the tank is fully and evenly supported around the bottom quadrant. Prior to backfilling to top of tank, all openings shall be visually inspected to assure that the sti- P_3^{\oplus} nylon bushings remain in place. Where flanged openings have been used, isolation of the flange gaskets shall be confirmed with a continuity tester. No current shall pass through the factory installed flange gaskets. Isolation of the fittings is required to assure tank integrity.



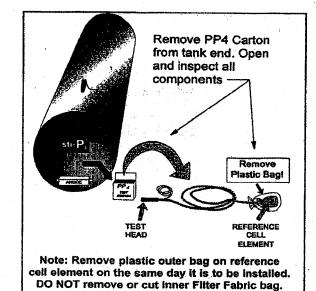
7.4 If the tank is to be installed in the presence of an impressed current system, the effect of the system must be considered on the sti-P3[®] tank. The corrosion consultant must consider including the sti-P3[®] tank into the design of the impressed current system.

8.0 FINAL AIR TEST

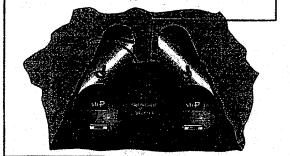
- 8.1 Install required tank piping using compatible nonhardening sealant, taking care not to cross thread or damage the non-metallic bushings. Torque of 400 to 1,000 ft-lbs (542.3 to 1355.8 N-m) may be required to fully insert pipe.
- 8.2 Where air or hydrostatic testing is required after installation, the pressure applied shall not be in excess of 5 pounds per-square-inch (34.5 kPa) as measured at the top of the tank. A soap solution shall be applied around pipe connectors while air test is being performed.

9.0 TANK MONITORING SYSTEM INSTALLATION

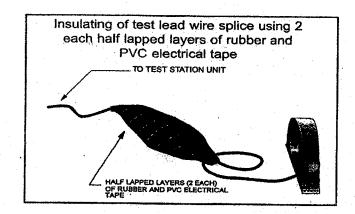
- **9.1** Each tank shall have a cathodic protection monitoring station (PP4[®], PP2[®], PP1[®], or other) installed in such a way so that there will be at least a tank structure lead easily accessible and identifiable at the finish grade and provide easy placement of a reference electrode during monitoring.
- **9.2** If your tank is equipped with a Protection Prover 4 (PP4[®]), remove the unit from the shipping carton and inspect for damage. (See the separate manufacturers' installation instructions for specific details.)
- **9.3** Prior to installation of the PP4[®], remove the plastic bag from the reference cell element. After the tanks have been placed in the excavation, position the reference cell element midway from front to back between two tanks so that it is covered by 6 inches (152 mm) of moist bedding material.
- **9.4** Drape the flexible pipe up to the top of the tank and temporarily secure the pipe to prevent damage during backfill operations. Backfill the excavation until the tanks are almost covered.



Note that Reference Cell element has been covered with at least 6" of approved moist backfill

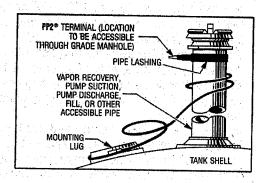


9.5 Locate the PP4[®] test head in its approximate final position and support with a wooden stake or other similar device. Connect the appropriate tank test wire from the reference cell element to the black test lead already installed on the tank using the hardware supplied or by performing a field splice.

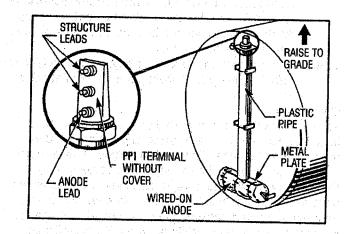


9.6 Assure that the wire connection is strong by simultaneously placing tension on the wire at either side of the connection point. Protect the wire connection from corrosion using the material supplied with the PP4[®] or by wrapping the connection in half lapped layers of rubber and PVC electrical tape.

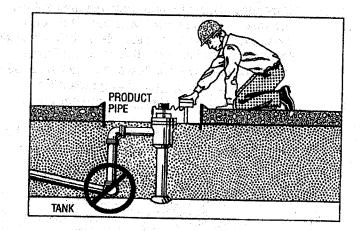
- **9.7** The test head shall be placed in a small grade manhole to protect it from vehicular traffic or set directly in the concrete covering for the excavation. During pouring of the at-grade slab protect the metal contact points on the test head from being covered by concrete.
- **9.8** If your tank is equipped with a Protection Prover 2[®] (PP2[®]), prior to completion of the backfill, the monitoring terminal located near the top of the tank must be positioned as follows:
- 9.8.1 Select a terminal location on a pipe near grade that will be accessible through a grade manhole upon completion of installation.
- 9.8.2 Loosen the black nylon pipe lashing by releasing the locking tab. Uncoil enough lead wire from the tank mounting lug to reach the terminal location with an additional 4 feet (1.2 m) of slack.



- 9.8.3 Secure the PP2[®] terminal to the pipe by tightening the black nylon pipe lashing. The lead wire terminations shall remain sealed.
- 9.8.4 Route wire to avoid strain or breakage during backfill. Do not cover PP2[®] terminal with backfill material.



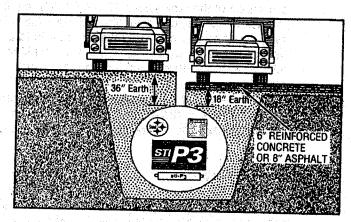
9.9 If the tank is equipped with a Protection Prover 1 (PP1[®]) monitoring system, which includes a monitoring test station mounted at the end of the tank, prior to any backfilling, extend the monitoring system to 4 inches (102 mm) below grade level without pulling it out of the mounting bracket. The PP1[®] test station shall be protected by a grade manhole of 7½ inches (191 mm) minimum diameter.



10.0 ELECTRICAL CONTINUITY TEST

10.1* Contact between the steel tank and all other structures such as external and internal piping, pumps, valves, gauge and monitoring equipment, and grounding systems, will nullify the cathodic protection design. Prior to backfill, a simple continuity test between the tank lead wire and each connected system will verify the electrical isolation. Continuity shall not be present. After backfill, continuity can be checked with a high impedance voltmeter by fixing a copper/copper sulfate reference cell in the soil and contacting all structures with the other voltmeter lead wire. Do not move the reference cell. Potential differences between the tank to soil and all other structures to soil must exceed 10 millivolts to verify electrical isolation.

11.0 FINAL BACKFILL



11.1 Homogeneous backfill shall be deposited carefully around the tank and to a depth of at least one foot (305mm) over the tank. (See NFPA 30 and state or local codes for minimum depth of cover required).

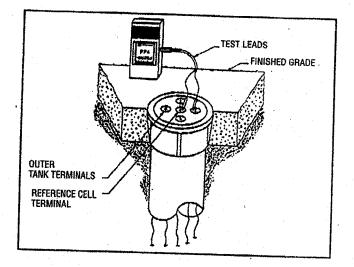
12.0 POST-INSTALLATION CATHODIC PROTECTION MONITORING

12.1 All tanks must be monitored to assure proper installation and ensuing cathodic protection of the

tank. Before pouring concrete or asphalt pad atop tank, a tank to soil potential reading with shirt is a fight - 6

Impedance voltmeter and copper/copper sulfate reference electrode must be taken. Reference electrode shall be placed in moist soil directly above the tank. A minimum reading of -850 millivolts should be obtained to indicate that the tank anodes are activated. <u>Record reading on installer</u> <u>information card and other permanent files.</u>

12.2 If the tank is connected to a PP4[®] test station the cathodic protection can be easily verified using a



high impedance digital volt-meter. Touch the meter probes to the appropriate test head terminals as shown in the diagram above. As stated in 12.1, a minimum reading of -850 millivolts should be obtained.

13.0 OPERATING LIMITATIONS

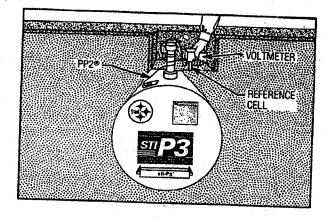
Operation of the tank above $120^{\circ}F(49^{\circ}C)$ requires the use of specific components and materials. The tank manufacturer must be notified, prior to tank use, of the owner's intent to operate this tank above $120^{\circ}F(49^{\circ}C)$ so that proper components and materials can be incorporated.

13.1 When the product stored is heated, the temperature inside the tank shall be constantly monitored to assure the maximum allowable temperature) is not exceeded.

14.0 MAINTENANCE

14.1 The primary tank shall be inspected monthly for the presence of water. Inspection shall take place at the lowest possible points inside the primary tank. Remove any water found. Water and sediment in fuel can cause plugging of filters. Also, bacterial growth, originating from the fuel, can cause filters to plug and corrosion of tanks and lines. For procedures on how to check for the presence of water and removal of water, refer to API Recommended Practice 1621, Appendix D and API Standard 2610. Another source of information is a report by the US Department of Energy, Brookhaven National Laboratory BNL 48406, which provides information on methods to test for and

remove water, test for bacterial presence in fuel, tank cleaning and fuel additives.



14.2 sti-P3[®] tanks shall be tested for cathodic protection at installation in 3 year intervals for the life of the installation and after any activity that might affect the CP system. sti-P3[®] tanks which might otherwise be classified as ACT-100[®] composite tanks, due to factory attachment of anodes, do not require testing every third year. In addition, double-wall sti-P3[®]systems that use interstitial monitoring that is capable of detecting a breach of either tank wall, do not require testing every third year. (See EPA UST Technical Compendium for complete details

www.epa.gov/swerust1/compend/nus18lh.pdf). Follow applicable local, state, and federal regulations for any additional requirements. Reference NACE RP-0285 for more specifics on protection criteria.

- 14.3 Tank must be installed within one year of delivery from tank manufacturer. If tank is not installed within this time period, contact tank manufacturer to recertify the tank.
- 14.4 Safety considerations and controls should be established prior to undertaking physical activities associated with USTs. Some hazards associated with USTs are, but not limited to, confined space entry, cleaning, inspection, moving and any other aspect of in-service work.
- 14.4.1 Contact tank manufacturer before moving tank for information on recertifying tank for continued use.

Disclaimer

These instructions are intended only as an aid to tank installers who are knowledgeable and experienced in underground tank installation. Compliance herewith does not necessarily meet the requirements of applicable federal, state and local laws, regulations and ordinances concerning tank installation. STI makes no warranties, express or implied, including but not limited to, any implied warranties of merchantability or fitness for a particular purpose, as a result of these installation instructions.

Contact STI for the latest version of these Installation Instructions or visit the STI website at www.steeltank.com.



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Lake Zurich IL 60047

Phone: 847-438-8265

Fax: 847-438-8766

INSTALLATION CHECKLIST



CHECK()

JUNE 2010

Owner of Tank:		sti-D3® I abel No.	
Owner of Tank: Location of Tank:		sti-P3 [®] Label No: Date:	
HANDLING The handling equipment is of adequate size and capacity	CHECK()	BACKFILL Homogenous backfill consisting of clean sand, pea gravel, #8 crushed stone or material earthen material	CHE
lift and lower the tank without dragging or dropping.		has been used.	
The repair of any damaged laminate areas has been made in accordance with installation instructions.		Backfill is the same material as bedding	· <u>· · · · · · · · · · · · · · · · · · </u>
Plastic wrap has been removed from the weld-on zinc ano	de	Backfill has been placed along sides of tank to ensure full support along the tank's bottom quadrant.	· <u></u>
EXCAVATION the site has been excavated deep enough to enable 1 foot or compacted clean sand or gravel to act as bedding material between native soil and tank when anchoring is not require		PIPE CONNECTIONS Electrical isolation of flanged connections has been verified with a continuity tester.	
Burial depths meet minimum code requirements (such as NFPA 30).		Prior to backfilling over tank top, but after piping to the tank, electrical isolation of tank from all equipment has been verified. No continuity shall be present.	
The tank has been air-tested at 5 psig (kPa) while applyin soap solution onto weld seams and fittings to check or leal OR a vacuum test has been performed in accordance with the fabricator's instructions.	g ks	TANK MONITORING The cathodic protection monitoring station has been installed and brought to grade and access to the soil above the tank has been provided.	
All local and state testing requirements have been perform ANCHORING (check one) Not applicable to this site. Deadman anchors used. Concrete pad.	ed	Verify operation of the cathodic protection system by: A tank to soil potential reading obtained with a high impedance voltmeter and a copper/copper sulfate reference electrode installed with the tank or placed immediately above the tank in soil. Record reading:m	illvo
Soil and pavement overburden will hold down tank (reference PEI/RP 100).		The tank owner has received the above information.	
When anchoring with a concrete hold down pad, a minimu 6 inch (152.4 mm) layer of pea over the concrete pad dimensions to separate tank from pad.	m .	All other facets of tank installation have been made in accordance with sti-P3 [®] instructions.	
When deadman anchors or hold down pads are used, hold down straps have been separated from the tank by an inert insulating dielectric material at least 1 inch (25.4 mm) wider than the steel hold down straps.		Signature and Title of Installing Foreman and/or Project Engi	neer
Tank is electrically isolated from the hold down strap.		Installing Contractor	

Steel

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Note: This checklist includes certain key steps in the proper installation of the sti-P3 tank and is intended only as an aid to tank installers who are knowledgeable and experienced in underground

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Please complete this form to validate your Limited Warranty. This card must be completely and accurately filled out and returned to STI within 30 days after the tank is installed, or within 90 days after the tank is shipped from the manufacturer, whichever comes first. By signing this form, the tank owner verifies that the tank was installed in accordance with STI Installation Instructions, the product stored is compatible with the tank, and the owner has read and agrees with the terms of the Limited Warranty, included with this form.

	RODUCT	STORING THIS PI	WARRANTY FOR ANY TANK	Q#6 Heated Oil – THERE IS NO WARRANTY FOR ANY TANK STORING THIS PRODUCT
			orage	OProduct which is heated during storage
		I		Other Chemicals:
				□Oil/Water Separator
		00ther	ĢWaste Oil	Crude Oil
		Fleet Owner	ÜE 85	DBiodiesel
•	ÜUtility Site	Car Dealer	OJet Fuel	QAVGAS
•	OIndustrial Site	Quick Lube		Alcohol Blended Gasoline
	Ģ Airport	□Jobber □		□Gasoline
•	QMarina	Convenience Store		Diesel for powering generators
	QGovernment	Q Gas Station	ing motor vehicles	Diesel fuel or kerosene for powering motor vehicles
	ClSchool	DFarm/Nursery	, #5 WHICH IS NOT HEATED)	DHeating Oil (Petroleum #1, #2, #4, #5 WHICH IS NOT HEATED) DFarm/Nursery
		☐Private Residence ☐Hospita		QWastewater or Water
	Type of Facility Where Tank is Installed:	Type of Facility Who		Product(s) Stored in this Tank:
		Phone:		Contact
	Country:	ZIP:	State:	City:
				Street address:
			(alleu).	Name of <u>Facility</u> (where talk is installed):
· .				
			N(TANK LOCATION INFORMATION
	•			
	Installed Date:	Instal		Manufacturer's Name:
	Shipment Date:	Shipn		STI-P3 Label #:

Owner name:	Phone:	
Mailing address:	P.O. Box :	
City:	State:	Zip
INSTALLER INFORMATION		
Installation Company Name:	Phone:	

MAILING ADDRESS FOR TANK OWNER

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My signature below verifies that this tank was installed in accordance with STI Installation Instructions, the product stored is compatible with the tank and I have read and agree with the terms of the Limited Warranty, provided with this document. SIG

Check here to request a Quote from Veri-Tank on Cathodic Protection Testing

Signature (of person providing this information):

Date:

Please Print Name:

Company Name:

KEEP A COPY OF THIS DOCUMENT FOR YOUR FILES - RETURN THE ORIGINAL TO: STEEL TANK INSTITUTE • 570 Oakwood Rd. • Lake Zurich, IL 60047 • 847/438-8265 • FAX 847/438-8766 ankiefer@steeltank.com

Phone:

Provided that the conditions set forth below are satisfied, the steel tank manufacturer identified with the tank (hereinafter referred to as "Warrantor") warrants the sit-P_0 tank for 10 years following delivery of the tank to the tank owner at the time of the original installation ("the Owner"), against any of the following events which may occur, provided the event occurs under operating conditions covered by this Warranty: (i) non-corrosion related structural failure; (ii) corrosion caused by reaction of the tank with its soil environment; and (iii) perforation of the steel tank caused by internal corrosion for those tanks equipped with wear plates and

What is Covered by this Warranty

used to store heating or motor fucts, including alcohols, and other compatible chemicals. In addition, the Warrantor warrants the tank against failure due to defective materials and workmanship for up to 1 year following the delivery of the tank to the Owner.

Conditions to Warranty Effectiveness The limited warranties set forth herein are subject to the following conditions:

1. The sti-P₃® tank: (i) must be the original underground installation within the Continental United States of America, Alaska, Hawaii, and the Commonwealth of Puerto Rico or Canada; (ii) installed, operated and maintained in accordance with the applicable sti-P₃[®] specifications and the applicable sti-P₃[®] Installation functions that were in effect on the date of shipment by the Warrantor, any subsequent maintenance procedures of which the Owner has written notice, and any applicable governmental codes and regulations; and (iii) operated at a temperature no greater than 120° F and the maximum temperature limitations of the tank and applicable governmental codes and regulations for the tank, and (iv) not used for the storage of #6 heated oil. Refer to the Installation Instructions on the back of its components as set forth in the specifications for the tank, and (iv) not used for the storage of #6 heated oil. this document for technical requirements concerning relocation of this tank by the original owner, in order to retain warranty eligibility. Tanks remaining in their original installation location will retain warranty eligibility if the facility where the tark is installed is sold to a new owner.

within 30 days after the date of tank installation, or 90 days after the Warrantor's shipment of the tank, whichever comes first This Limited Warranty is not valid unless, and until, the Warranty Validation Card is fully completed by the Owner and returned to Steel Tank Institute (STI)

permit the Warrantor or its designated representative to inspect the tank site prior to, during and after excavation of the tank. The tank owner bears the responsibility to identify that the cause of the failure is from one of the events within the conditions covered by the Warranty. 3. Upon discovery of a suspected tank failure or leak by the Owner, the Owner shall give the Warrantor written notice of the suspected tank failure or leak and

4. Upon the Warrantor's determination that the tank failure or leak is covered by this Limited Warranty, the Warrantor at its sole option shall: (1) repair the tank; or (2) replace it with a tank of approximately the same size, design, quality of material and workmanship specified for the original tank; or (3) refund the purchase price of the original tank. If the Warrantor is unable to repair or replace the tank, it shall refund the original purchase price of the tank.

What is Not Covered by this Warranty

cost of repair or replacement of any piping system or other attachments to the tank; or (2) labor costs or other installation costs for tank repair or replacement; or (2) damage to the tank or other property resulting from the accumulation of water in the tank; or (4) damage caused by excessive operating temperatures or other improper operating or maintenance practices; or (5) tank failure due to defective materials and workmanship later than one year following delivery of the tank to Warrantor does not warrant any piping system or any other attachments connected with the tank. Under no circumstances, shall the Warrantor be liable for (1) the the Owner

Limitation of Liability and Exclusion of Other Remedies and Damages The foregoing remedy of repair, replacement or refund shall constitute the sole and exclusive remedy to the Owner. Under no circumstances, shall the liability of the Warrantor, or its affiliates or subsidiaries, under this warranty, exceed the purchase price of the tank.

IN NO EVENT SHALL THE WARRANTOR, OR ITS AFFILATES OR SUBSIDIARIES, BE LIABLE FOR CLAIMS OF PERSONAL INURY OR FOR SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR REVENUE, LOSS OF USE OF THE TANK OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF THE SUBSTITUTE EQUIPMENT, FACLLTIES OR SERVICES, DOWNTIME COST, CLAIMS OF CUSTOMERS OF THE OWNER FOR SUCH DAMAGES, OR FOR DAMAGE TO PROPERTY, WHETHER SUCH CLAIM SHALL BE FOR BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE OR STRUCT LIABILITY, AND WHETHER SUCH CLAIM ARISES OUT OF OR RESULTS FROM THIS LIMITED WARRANTY, OR EXPRESS OR IMPLIED WARRANTIES, OR FROM THE DESIGN, MANUFACTURE, SALE, DELIVERY, RESALE, INSTALLATION, TECHNICAL DIRECTION OF INSTALLATION, INSPECTION, REPAIR, OPERATION OR USE OF THE TANK.

Consumer Notice

The exclusion of indirect or consequential damages and the limitation of implied warranties herein may not be applicable to purchasers who are deemed "consumers" and who reside in states that do not allow the limitation of implied warranties or the exclusion of indirect or consequential damages otherwise applicable to consumers. Moreover, if you are deemed a "consumer", you may have specific legal rights in addition to those set forth in this warranty, which rights vary from state to state

Disclaimer of Other Warranties

PURPOSE. THE FOREGOING LIMITED WARRANTY IS THE ONLY WARRANTY MADE. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR

Financial Assurance

Warrantor may have purchased insurance to cover some of its warranty obligationsunder this Limited Warranty. Such insurance would provide fnancial assurance for Warrantor's warranty obligations, but would not insure the Owner directly. If the Warrantor has purchased such insurance coverage, the Owner may request that the Warrantor provide a certificate of insurance to evidence Warrantor's purchase of such insurance

Effective with tanks shipped on or after January 1, 2008

EXCAVATION AND BEDDING

1.1 The bottom of the excavation shall be covered with a minimum of 12 inches (305 mm) of bedding, suitably graded and leveled. Bedding and backfill material surrounding the tank, to a width and depth of 12 inches (305 mm) all around the tank, shall be clean material. 1.0

be spread evenly over the dimensions of the pad to separate the tank from the pad. Where anchoring by means of a concrete pad, the tank shall not be placed directly on the pad. Bedding material at least 6 inches (152.4 mm) deep mus

bricks, metals, concrete and plastics. 1.3 Bedding and backfill material shall consist of homogenous pea gravel, crusted stone, clean sand or natural earthen materials. Crusted stone, clean sand and natural earthen materials shall be capable of passing 100% through a 1/2 inch (13 mm) sieve and no more than 12% by dry weight through a #200 sieve (0.0029 inch (0.0754 mm)). Pea gravel shall be no larger than 3/4-inch (19 mm). The materials shall be free of all foreign materials, such as but not limited to,

The backfill material may be from the tank site if it meets this description, or it may be delivered to the ste from another source. Sand or natural earthen materials used as backfill shall be placed into the excavation in 12-18 inch (305-458 mm) vertical lifts, compacted after each

lift, at least 60% up the vertical height of the tank.

1.6 If earthen material from the site, or other earthen material, is to be used as bedding or backfill material, a minimum of four 1 cu.ft. samples shall be taken from different locations which are representative of the backfill material and the site. Samples shall be sived to determine if the material complies with this

specification. aken to prevent washout of material during the design life of the system. In a tidal area, the tank "bedding" material shall be cushed stone or pea gravel. Sand and natural earthen material may be used only if measures are

AIR TEST AT JOB SITE

ushing threads. Permanent metal plugs shall be installed at all unused openings. Temporary plugs and thread protectors installed by the manufacturer shall be removed. Apply compatible, non-hardening pipe scalant to internal

2.2 The nylon bushings in sti-P3® tanks shall not be removed from the unused openings. Plugs used to temporarily seal the tank for the above ground air test, but later removed for pipe installation, shall not be over tightened. Do not cross thread or damage the nylon bushings when replacing plugs or installing required tank piping.

A factory applied vacuum within the interstitial space can be used in lieu of, or in addition to, the air test procedure. Consult tank fabricator for air test recommendations. Do not apply a vacuum to the primary tank or a single wall tank. PEJ/RP 100-00 also provides guidelines. Dual wall tanks shall require different air pressure testing procedures. Do not connect a high pressure air line directly to the interstitial monitoring port Test pressure shall be maintained at, without exceeding, 5 psig (34.5 kPa) while a soap solution is applied to the area of pipe connections and welds.

2.5 Use an air-pressure relief valve. Take necessary safety precautions during air tests. Do not leave tanks unattended. Avoid standing at the head of the tank, especially while applying air

COATING INSPECTION

pressure. 3.0 3.1 repaired with touch-up coating kit provided. Before placing the tank in the excavation, all dirt clods and similar foreign matter shall be cleaned from the tank, and areas of coating damage shall be

3.2 Clean damaged coating areas through removal of surface rust, dirt, contaminants and disbonded coating prior to application of touch-up coating (see SSPC SP-2, "Hand Tool Cleaning" or SP-3 "Power Tool Cleaning" for additional guidance).

4.0 FANK HANDLING

4.1 Controlled off-loading of the tank shall be allowed.

\$

Equipment to lift the tank shall be of adequate size to lift and lower the tank without dragging or dropping to ensure there is no damage to the tank or the

coating. used where necessary. Under no circumstances shall chains or slings be used around the tank shell. 5.0 ANODE INTEGRITY 43 Tanks shall be carefully lifted and lowered by use of cables or chains of adequate length attached to the lifting lugs provided. A spreader bar shall be

sti-P3@ tanks may be equipped with either zinc or magnesium anodes. Whereas magnesium anodes are designed only for installation in soil resistivities

5.2 After an sti-P3® tank has been placed in the excavation, if anode is connected by a lead wire, attachment to the tank shall be checked to assure this connection has not been damaged. Where damaged, the connection must be re-established in strict accordance with this specification. of 2000 ohms-cm or greater, zinc anodes are effective in all soil resistivities.

ŝ To assure immediate operation of cathodic protection system, each anode shall be thoroughly saturated with water at time of backfill operations.

ANCHORING

6.2 the tank, the backfill and the pavement atop the tank. Additional buoyant restraint, when required, shall be obtained by using properly designed hold-down straps in conjunction with concrete hold-down slabs or deadman anchors. The use of steel cable and/or round bar as hold-down straps on the tank is prohibited. 6.0 High water tables or partially flooded excavation sites exert significant buoyant forces on tanks. Buoyant forces are partially resisted by the weight of

down strap is fabricated from non-conductive material separating pad shall be wider than the hold-sown straps, which will prevent direct contact between the straps and the tank shell. This pad is not required if the hold If a metallic hold-down strap is used, a pad of inert insulating di-electric material must be used to insulate the hold-down strap from the tank. The

than 60 days. Untring construction, adequately vent all tank spaces. If product is used as ballast, proper precantions must be taken to prevent fires, spills, leaks, and other associated accidents. Monitor product level frequently to ensure there has been no unaccounted loss of product. Do not over tighten hold-down straps other associated accidents. beyond snug and do not re-tighten hold-down straps after ballasting Ballasting the tank may be necessary. When water is used as the ballast material, it shall only be potable water and shall not remain in the tank longer

BACKFILLING

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Homogeneous backfill similar to bedding material shall be placed carefully around the entire tank to create a uniform homogeneous environment

Avoid damage to coating especially where tamping is required

7:3 openings have been used isolation of the flange gaskets shall be confirmed with a continuity tester. No current shall pass through the factory installed flange Installing and tamping backfill along the bottom sides of the tank shall ensure that the tank is fully and evenly supported around the bottom quadrant Prior to backfilling to top of tank, all openings shall be visually inspected to assure that the sti-P3® nylon bushings remain in place. Where finanged

gaskets. Isolation of the fittings is required to assure tank integrity

If the tank is to be installed in the presence of an impressed current system, the effect of the system must be considered on the sti-P3@ tank. The corrosion

consultant must consider including the sti-P3® tank into the design of the impressed current system

FINAL AIR TEST

Install required ank piping using compatible non-hardening sealant, taking care not to cross thread or damage the non-metallic bushings. Torque of 400 to 1,000 ft-lbs (542.3 to 1355.8 N-m) may be required to fully insert pipe.

Where air or hydrostatic testing is required after installation the pressure shall not be in excess of 5 psig (34.5 kPa) as measured at the top of the tank. A soap

solution shall be applied around pipe connectors while air test is being performed.

ank Monitoring system Installation Each tank shall have a cathodic protection monitoring station (PP4®, PP2®, PP1®, or other) installed in such a way so that there will be at least a tank

structure lead easily accessible and identifiable at the finish grade and provide easy placement of a reference electrode during monitoring

9.2

9.4 the reference cell element midway from front to back between two tanks so that it is covered by 6 inches (152mm) of moist bedding material Drape the flexible pipe up to the top of the tank and temporarily secure the pipe to prevent damage during backfill operations. Backfill the excavation Prior to installation of the PP4®, remove the plastic bag from the reference cell element. After the tanks have been placed in the excavation, position

the reference cell element to the black test lead already installed on the tank using the hardware supplied or by performing a field splice. until the tanks are almost covered. Jocate the PP4® test head in its approximate final position and support with a wooden stake or other similar device. Connect the appropriate tank test wire from

9.6 connection from corrosion using the material supplied with the PP4@ or by wrapping the connection in half lapped layers of rubber and PVC electrical tape Assure that the wire connection is strong by simultaneously placing tension on the wire at either side of the connection point. Protect the wire

During pouring of the al-grade slab protect the metal contact points on the test head from being covered by concrete. 9.8 If your tank is equipped with a Protection Prover 2® (PP2®), prior to completion of the backfill, the monitoring terminal located near the top of the tank The test heat shall be placed in a small grade manhole to protect it from vehicular traffic or set directly in the concrete covering for the excavation.

must be positioned as follows:

location with an additional 4 feet (1.2 m) of slack. 9.8.2 Select a terminal location on a pipe near grade that will be accessible through a grade manhole upon completion of installation. Loosen the black nylon pipe lashing by releasing the locking tab. Uncoil enough lead wire from the tank mounting lug to reach the termina

9.8.3 Secure the PP2® terminal to the pipe by tightening the black nylon pipe lashing. The lead wire terminations shall remain sealed

9.8.4 Route wire to avoid strain or breakage during backfill. Do not cover PP2® terminal with backfill material.

prior to any backfilling, extend the monitoring system to 4 inches (102 mm) below grade level without pulling it out of the mounting bracket. The PPI® test 6.6 station shall If the tank is equipped with a Protection Prover 1 (PP1®) monitoring system, which includes a monitoring test station mounted at the end of the tank. be protected by a grade manhole of 71/2 inches (191 mm) minimum diameter.

0.0 TANK EQUIPMENT

10.1 This tank requires venting. Refer to applicable local codes and PEI RP-100 for proper installation

102 Contact between the steel lank and all other structures such as external and internal piping, pumps, valves, gauge and monitoring equipment, and grounding systems, will multify the cathodic protection design. Prior to backfill, asimple continuity test between the tank lead wire and each connected system will will be detriced isolation. Continuity shall note present. After backfill, sontimuity can be decided with a high impedance voltmeets by fixing a coopper/copper suffate reference cell in the soil and contacting all structures with the other voltmeter lead wire. Do not move the reference cell. Potential affirences between the

tank to soil and all other structures to soil must exceed 10 millivolts to verify electrical isolation.

FINAL BACKFILL

local codes for minimum depth of cover required). 12.0 POST-INSTALLATION CATHODIC PROTECTION MONITORING Homogeneous backfill shall be deposited carefully around the tank and to a depth of at least one foot (305mm) over the tank. (See NFPA 30 and state or

12.1 All tanks must be monitored to assure proper installation and ensuing cathodic protection of the tank. Before pouring concrete or asphalt pad atop tank a tank to soil potential reading with a high impedance voltmeter and copper/copper sulfate reference electrode must be taken. Reference electrode shall be placed in most soil directly above the tank. A minimum reading of -850 millivolts should be obtained to indicate that the tank anodes are activated. Record reading on installer information card and other permanent files.

probes to the appropriate test head terminals as shown in the diagram above. As stated in 12.1, a minimum reading of -850 millivolts should be obtained. 13.0 OPERATING LIMITATIONS 12.2 If the tank is connected to a PP4® test station the cathodic protection can be easily verified using a high impedance digital volt-meter. Touch the meter

tank use, of the owner's intent to operate this tank above 120□F (49□C) so that proper components and materials can be incorporated. 13.1 When the product stored is heated, the temperature inside the tank shall be constantly monitored to assure the maximum allowable temperature is not Operation of the tank above 120 IF (49 IIC) requires the use of specific components and materials. The tank manufacturer must be notified, prior to

exceeded 4.0

MAINTENANCE

Remove any water found. Water and sediment in fuel can cause plugging of filters. Also, bacterial growth, originating from the fuel, can cause filters to plug and corrosion of marks and lines. For procedures on how to check for the presence of water and removal of water, refer to API Recommended Practice 1621, Appendix D and API Standard 2510. Another source of information is a report by the US Department of Finergy, Brookhaven National Laboratory BNL 48406, which provides information on methods to test for and remove water, test for bacterial presence in fuel, tank cleaning and fuel additives. 4 The primary tank shall be inspected monthly for the presence of water. Inspection shall take place at the lowest possible points inside the primary tank

third year. In addition, double-wall sti-P3@systems that use interstitial monitoring that is capable of detecting a breach of either tank wall, do not require testing every third year. (See EPA UST Technical Compendium for complete details www.epa.gov/swerust1/compend/nus18th.pdf). Follow applicable local, state, an the CP system. sti-P3@ tanks which might otherwise be classified as ACT-100@ composite tanks, due to factory attachment of anodes, do not require testing every ederal regulations for any additional requirements. Reference NACE RP-0285 for more specifics on protection criteria 4. sti-P3@ tanks shall be tested for cathodic protection at installation in 3 year intervals for the life of the installation and after any activity that might affect Follow applicable local, state, and

recertify the tank. 4.3 Tank must be installed within one year of delivery from tank manufacturer. If tank is not installed within this time period, contact tank manufacturer to

USTs are, but not limited to, confined space entry, cleaning, inspection, moving and any other aspect of in-service work. 14.4.1 Contact tank manufacturer before moving tank for information on recertifying tank for continued use. Safety considerations and controls should be established prior to undertaking physical activities associated with USTs. Some hazards associated with

1/1/08



sti-P₃® NYLON BUSHINGS

The nylon bushing is a di-electric threaded gasket for underground steel storage tanks with the sti- $P_3^{(*)}$ corrosion control system.



The chemical resistance, di-electric properties, and overall strength of the nylon, coupled with thread design that effectively eliminates the risk of cross threading, make the sti-P₃® nylon bushing an excellent component for the electrical isolation of the sti-P₃® corrosion control system.

Nylon is strong, tough, and relatively stiff over a wide temperature range, while maintaining good resistance to abrasion from repeated impact and most chemicals.

All nylons are hygroscopic and will absorb water and hydrocarbons. This process plasticizes the nylon adding toughness and resulting in slight dimensional changes without affecting the polymer. A nylon bushing in an underground fuel tank will tend to expand due to its absorption properties, which will create and maintain a leak-tight seal.

If tanks exhibit slight air leaks at the fittings during aboveground air testing, additional torque must be applied to the bushing or fitting to effect a positive leakproof seal.

To assure a leak-tight seal the Installer must use an approved sealant, and tighten the plug or pipe to its maximum tightness. The nylon bushing will then perform-like a gasket.

INSTALLATION INSTRUCTIONS

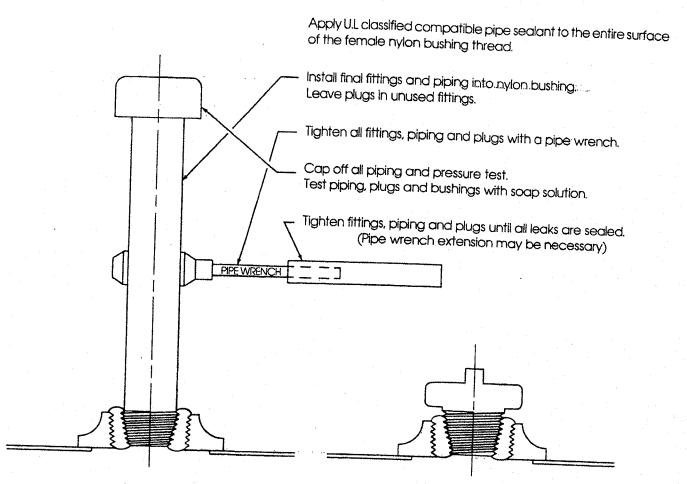
- 1. Nylon bushings are threaded electrical insulating gaskets. They are designed to provide a leak-proof seal.
- 2. Remove all factory installed plugs and thread protectors. Clean internal pipe thread.
- 3. Fill all internal pipe threads with approved pipe sealant. Nylon, having a very smooth surface, will not spread the pipe sealant into the steel pipe threads. Complete filling of all internal threads will produce an air-tight seal more efficiently.
- 4. Apply sealant and install all permanent plugs and desired piping into the preselected openings, and tighten them fully. These fittings will *not* be removed after the aboveground air test.
- 5. Install all temporary plugs and air-test apparatus into the designated openings. Application of a light layer of oil or grease to the male threads of these fittings will help facilitate easy removal after the air test.
- 6. Perform the air test as described in the sti-P₃® installation procedures and by local regulations. During the test additional tightening may be required at the fittings.
- 7. Immediately after the air test, remove the air test apparatus from the tank, clean the internal thread, and install a temporary plug in the opening until piping is to be installed.
- 8. When installing piping, remove temporary plugs and clean internal threads. Apply approved pipe sealant to all threads and install the piping as required.
- 9. Nylon is softer than steel and can be damaged by cross threading at the time of piping installation or by undue stresses placed on the piping during backfill process. All piping must be connected with the proper swing joints or flexible connectors to prevent undue strain to both the nylon bushing and piping system from ground movements due to construction and/or deep ground frost.

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Nylon Bushing for Electrical Insulation of sti-P₃® Underground Tanks

INSTALLATION INSTRUCTIONS-Tank Installation Site

Follow these instructions to achieve leak-tight nylon bushing installation



Use extreme caution when removing fittings, piping, or plugs after air test.

Damage to the nylon bushing may result.

If changes in fittings are necessary a new nylon bushing may be required;

contact tank manufacturer for details.

Nylon bushings are "threaded insulating gaskets" and must be thoroughly tightened at time of aboveground air test.

REQUIRES ACTION

Steel Tank Institute 570 Oakwood Road Lake Zurich, IL 60047 847/438-8265 Fax 847/438-8766



TO THE INSTALLER:

To assure immediate operation of Cathodic Protection System, each anode shall be thoroughly saturated with water at time of backfill operations.

All tanks must be monitored to assure proper installation and ensuing cathodic protection operation of the tank.

Before pouring concrete or asphalt pad atop tank, a tank to soil potential reading with a high impedence voltmeter and copper/copper sulfate reference electrode must be taken. Reference electrode shall be placed in moist soil directly above tank.

Record reading on the installer checklist or on the installer copy of the warranty validation card in the installation instruction brochure. Provide the installation checklist to the tank owner. Mail the installer warranty validation card to STI or provide it to the tank owner.

The tank-to-soil potential reading is required for the tank owner to validate the warranty on the sti- P_3 ® tank.

Generally a reading of more negative than -850 millivolts indicates the tank is protected from corrosion.

Enter your company name here

Customer:

Tank Description 144" X 579"

JOB 8839

COLO, DEPART. OF TRANSPOR. EAT40000P3

Depti	n Capacity	<u>Depth</u>	Capacity	<u>Depth</u>	Capacity		<u>Zapacity</u>	Contraction of the second s	Capacity
(inche 0	s) (gallons).	(inches) 4 ¹³	(gallons) 444	(inches) 9	(gallons) 1.173	(inches) 14	(gallons) 2,092	(mches) Î8	(gallons) 3.156
0	14	$4\frac{7}{8}$	460	9 ^T ₂	1,196	14 ^T ₈	2,119	18_{4}^{3}	3,186
0 2	t	5 [°]	477	9 5 8	1,218	14 ¹ / ₄	2,146	18 7 8	3,217
0	1 26	5 1	494	9 ³ / ₄	1,241	14_{8}^{3}	2,173	19	3,248
0	2	$5\frac{1}{4}$	511	9 78	1,264	$14 \frac{1}{2}$	2,201	$19 \frac{1}{8}$	3,278
0	,	5 3	529	10	1,287	$14\frac{5}{8}$	2,228	19 ¹ / ₄	3,309
0	⁴ 7 48	5 ¹ / ₂	546	10^{-1}_{-8}	1,311	14_{4}^{3}	2,255	$19\frac{3}{8}$	3,340
	s 56	5 ² 5 ³	564	10^{-1}_{-4}	1,334	14 ⁷ ₈	2,283	$19\frac{1}{2}$	3,371
1	1 64	$5\frac{3}{4}$	582	$10\frac{3}{8}$	1,358	15	2,311	19 5	3,402
1	1 73	5 7 8	600	10 1	1,381	15 18	2,339	$19\frac{3}{4}$	3,433
1	3 · 83	6	618	$10\frac{2}{8}$	1,405	15 1	2,367	19 ⁷ / ₈	3,465
1	92	6 8	637	$10 \frac{3}{4}$	1,429	$15\frac{3}{8}$	2,395	20	3,496
1		6	655	10 7 8	1,453	$15\frac{1}{2}$	2,423	20 1	3,527
1	³ 113	6 ³ / ₈	674	11	1,477	15 ⁵ 8	2,451	20 4	3,559
1	7 124	6 1	693	$11 \frac{1}{8}$	1,501	$15 \frac{3}{4}$	2,479	$20 \frac{3}{8}$	3,590
2	° 135	6 5 8	712	11_{4}^{1}	1,526	$15\frac{7}{8}$	2,508	$20 \frac{1}{2}$	3,622
2	1 146	$6\frac{3}{4}$	732	$11\frac{3}{8}$	1,550	16	2,536	20 ⁵ 8	3,654
2	1 158	6 7	751	$11 \frac{1}{2}$	1,575	$16 \frac{1}{8}$	2,565	20_{4}^{3}	3,686
2	3 8 170	. 7	771	11_{-8}^{-5}	1,600	$16 \frac{1}{4}$	2,593	20 8	3,717
2		7 1	791	$11\frac{3}{4}$	1,625	$16 \frac{3}{8}$	2,622	21	3,749
2		7 ¹ / ₄	811	11 7 8	1,650	$16\frac{1}{2}$	2,651	$21\frac{1}{8}$	3,781
2		$7\frac{3}{8}$	831	12	1,675	16_{8}^{5}	2,680	$21 \frac{1}{4}$	3,814
2	⁷ 220	7 ¹ ₂	851	$12 \frac{1}{8}$	1,700	$16 \frac{3}{4}$	2,709	$21\frac{3}{8}$	3,846
3	233	7 5	872	12 4	1,725	16_{8}^{7}	2,738	$21\frac{1}{2}$	3,878
3	8 247	$7\frac{3}{4}$	892	$12 \frac{3}{8}$	1,751	17	2,767	21 8	3,910
3	¹ 261	7 7 8	913	$12 \frac{1}{2}$	1,776	$17\frac{1}{8}$	2,797	$21\frac{3}{4}$	3,943
3	³ 275	. 8	934	12_{8}^{5}	1,802	$17\frac{1}{4}$	2,826	$21\frac{7}{8}$	3,975
	¹ ₂ 289	8 <mark>1</mark>	955	$12 \frac{3}{4}$	1,828	$17\frac{3}{8}$	2,856	22	4,008
	⁵ / ₈ 303	8 ¹ / ₄	976	12 8	1,854	$17\frac{1}{2}$	2,885	22 8	4,041
3	³ ₄ 318	8 ³ 8	997	13	1,880	17 8	2,915	22 $\frac{1}{4}$	4,073
3	7 ₈ 333	8 ¹ / ₂	1,019	$13 \frac{1}{8}$	1,906	$17 \frac{3}{4}$	2,945	$22 \frac{3}{8}$	4,106
4	348	8 ⁵ / ₈	1,040	13 4		$17 \frac{7}{8}$	2,975	$22\frac{1}{2}$	4,139
4		,8 ³ ₄	1,062	$13 \frac{3}{8}$	1,959	18	3,005	22 8	4,172
4		8 7 8	1,084	$13 \frac{1}{2}$	1,985	18 1	3,035	$22\frac{3}{4}$	4,205
4		9	1,106	13 ⁵ ₈	2,012	18 4	3,065	22 $\frac{7}{8}$	4,238
4		9 1	1,128	$13 \frac{3}{4}$	2,038	18 ³ 8	3,095	23	4,271
4	5 427	9 ¹ / ₄	1,151	$13 \frac{7}{8}$	2,065	18 ¹ ₂	3,126	23 8	4,304

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Customer:			L'HUY J		escription:				
), DEPART. C	JF TRANSPO	ЭR.		4" X 579"	2 N			
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Depth	Capacity	<u>Depth</u>	Capacity	Concernance and the second	Capacity	(CO) (CO) and the second s	Capacity	<u>Depth</u>	Capacity
(mches)	(gallons)	(inches)	(gallons)	(inches)	(gallons) 6,980	(inches)	(gallons) 8.412	(inches)	(gallons) 9.904
23 4	4,371	28	5,618 5,653	32 ⁵ / ₈	7,018	8 37 ¹ / ₄	8,452	$41\frac{7}{8}$	9,945
$23 \frac{3}{8}$	4,371	28 28 ¹ / ₈	5,689	32_{8}^{3} 32_{4}^{3}	7,056	$37\frac{3}{8}$.	8,492	42	9,986
$23 \frac{1}{2}$	4,403	$28\frac{1}{4}$	5,725	32_{4}^{7}	7,094	$37\frac{1}{2}$	8,531	42 1	10,027
$23 \frac{5}{8}$	4,436	$28\frac{3}{8}$	5,761	33	7,132	37 ⁵ 37 ⁵	8,571	42 4	10,068
$23 \frac{3}{4}$		-	5,797	33 ¹ / ₈	7,170	$37\frac{3}{4}$	8,611	42^{-3}_{-8}	10,109
$23 \frac{7}{8}$	4,505	$28\frac{1}{2}$	5,833	$33 \frac{1}{4}$	7,170	$37\frac{4}{8}$	8,651	42_{8}^{1}	10,150
24 24	4,539	$28 \frac{5}{8}$			7,208	38	8,690	42^{-5}_{-8}	10,192
$24 \frac{1}{8}$	4,573	$28 \frac{3}{4}$	5,869	$33\frac{3}{8}$		38 1	8,730	42^{-8}_{-4}	10,233
$24 \frac{1}{4}$	4,607	28_{8}^{7}	5,906	$33\frac{1}{2}$	7,284	$38\frac{1}{4}$	8,730	42_{4} 42_{8}^{7}	10,233
$24 \frac{3}{8}$	4,641	29 20	5,942	$33 \frac{5}{8}$	7,322	,	8,770	42 8	10,214
$24 \frac{1}{2}$	4,675	29 ¹ / ₈	5,978	$33 \frac{3}{4}$	7,361	$38 \frac{3}{8}$ $38 \frac{1}{2}$	8,810	43 43 ¹ / ₈	10,357
$24 \frac{5}{8}$	4,709	$29 \frac{1}{4}$	6,015	33 ⁷ 34	7,399 7,438	38 ⁵ / ₈	8,890	$43 \frac{1}{4}$	10,398
$24 \frac{3}{4}$	4,743	$29\frac{3}{8}$	6,051		7,438	38_{4}^{3}	8,930	43_{4}^{3} 43_{8}^{3}	10,398
$24 \frac{7}{8}$	4,777	$29 \frac{1}{2}$	6,088	$34 \frac{1}{8}$	1 N		8,930	43_{8}^{1}	10,440
25	4,811	$29\frac{5}{8}$	6,124	34_{4}^{1}	7,514 7,553	38 ⁷ / ₈ 39	9,010	43_{2}^{2} 43_{8}^{5}	10,523
$25\frac{1}{8}$	4,846	$29 \frac{3}{4}$	6,161	$34 \frac{3}{8}$	7,592	39^{1}_{8}	9,010	43_{8}^{3}	10,525
$25 \frac{1}{4}$	4,880	29 ⁷ 30	6,197 6,234	$34 \frac{1}{2}$ $34 \frac{5}{8}$	7,592	$39\frac{1}{8}$	9,031	43_{4}^{7}	10,504
$25\frac{3}{8}$	4,915			$34 \frac{3}{8}$ $34 \frac{3}{4}$	7,630	$39\frac{1}{4}$ $39\frac{3}{8}$	9,091	44 44	10,648
$25\frac{1}{2}$	4,949	$30 \frac{1}{8}$	6,271 6,308		7,009	$39\frac{1}{8}$	9,131	$44 \frac{1}{8}$	10,689
$25\frac{5}{8}$	4,984	30_{4}^{1}	6,308 6,345	34 ⁷ / ₈ 35	7,746	$39\frac{1}{2}$ $39\frac{5}{8}$	9,171	44_{8} 44_{4}^{1}	10,039
$25 \frac{3}{4}$	5,018	$30\frac{3}{8}$	6,345 6 382			$39\frac{3}{8}$	9,212	44_{4}	10,773
$25\frac{7}{8}$	5,053	$30\frac{1}{2}$	6,382 6,419	$35 \frac{1}{8}$	7,785 7,824	$39\frac{7}{4}$	9,292	$44 \frac{1}{2}$	10,775
26	5,088	$30\frac{5}{8}$	6,419 6,456	$35 \frac{1}{4}$ $35 \frac{3}{8}$	7,824	39 ₈ 40	9,293	44_{2} 44_{8}	10,856
$26\frac{1}{8}$	5,123	$30 \frac{3}{4}$			7,803	40^{1}	9,333	$44 \frac{3}{4}$	10,898
$26 \frac{1}{4}$	5,158	$30 \frac{7}{8}$	6,493	$35\frac{1}{2}$	7,902	40 ¹ / ₄	9,374	$44 \frac{7}{8}$	10,940
$26\frac{3}{8}$	5,193	31	6,530 6,567	$35 \frac{5}{8}$ $35 \frac{3}{4}$	7,941	$40_{\frac{4}{8}}$	9,414	45	10,982
$26\frac{1}{2}$	5,228	$31\frac{1}{8}$	6,507 6,604	$33\frac{4}{4}$ 35 $\frac{7}{8}$	8,019	40_{8} 40_{2}^{1}	9,495	45 ¹ / ₈	11,023
$26.\frac{5}{8}$	5,263	$31 \frac{1}{4}$	6,604 6,642	26	8,019	40_{2}^{2} 40_{8}^{5}	9,536	45^{8}_{8}	11,065
$26 \frac{3}{4}$	5,298	$31\frac{3}{8}$	6,679	$36\frac{1}{8}$	8,097	40_{8}^{8}	9,577	$45 \frac{3}{8}$	11,107
$26 \frac{7}{8}$	5,333	$31 \frac{1}{2}$ $31 \frac{5}{8}$	6,717	36_{4}^{1}	8,137	$40_{\frac{7}{8}}$	9,617	45 ½	11,149
27 27	5,369 5,404	$31\frac{3}{4}$	6,754	$36\frac{3}{8}$	8,176	41	9,658	45 ⁵ ₈	11,191
$27\frac{1}{8}$	5,404		6,792	$36 \frac{1}{2}$	8,215	$41\frac{1}{8}$	9,699	$45 \frac{3}{4}$	11,233
$27 \frac{1}{4}$	· · · ·	$31 \frac{7}{8}$ 32	6,829	36 ⁵ / ₈	8,255	41_{4}^{1}	9,740	$45\frac{7}{8}$	11,276
$27\frac{3}{8}$	5,475	32 $32 \frac{1}{8}$	6,867	36_{8}^{8}	8,295	$41 \frac{3}{8}$	9,781	46	11,318
$27\frac{1}{2}$	5,546	32_{8}^{1} 32_{4}^{1}	6,905	$36 \frac{7}{8}$	8,333	$41 \frac{1}{2}$	9,822	46 1	11,360
$27\frac{5}{8}$	5,540		6,903 6,942	30 8	8,373	$41\frac{2}{8}$	9,863	$46 \frac{1}{4}$	11,402
$27 \frac{3}{4}$	5,582	32 8	0,942	57	0,575	41 8	7,005	40 4	11,102

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Enter your company name here

Tank Description:

COLO. DEPART. OF TRANSPOR. EAT40000P3

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144" X 579" JOB 8839

UL #M32271 STI-P3 #274329 Serial Number:

Customer:

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Depth	Capacity	<u>Depth</u>	Capacity	<u>Depth</u>	Capacity	Depth	Capacity	Depth
(inches)	(gallons)	(inches)	(gallons)	(inches).	., (gallons)	(inches) 60 l	(gallons) 16.276	(inches), 64
46 8	11,444	51, ,	13.025	2018	14,638			
$46 \frac{1}{2}$	11,486	51 8	13,068	55_{4}^{3}	14,682	$60\frac{3}{8}$	16,321	65
46 5	11,529	51 ¹ / ₄	13,112	55 ⁷ ₈	14,726	$60 \frac{1}{2}$	16,365	$65 \frac{1}{8}$
46^{3}_{4}	11,571	51 3	13,155	56	14,770	60 ⁵ / ₈	16,410	$65 \frac{1}{4}$
46 7/8	11,613	$51\frac{1}{2}$	13,198	56 ¹ / ₈	14,814	60_{4}^{3}	16,454	$65\frac{3}{8}$
47	11,656	51 5	13,241	56 $\frac{1}{4}$	14,858	60 ⁷ / ₈	16,499	$65 \frac{1}{2}$
47 ¹ / ₈	11,698	$51\frac{3}{4}$	13,285	56 ³ / ₈	14,902	61	16,544	65 ⁵ 8
47 1	11,740	51 7	13,328	56 ¹ / ₂	14,947	61 ¹ / ₈	16,588	$65 \frac{3}{4}$
47 3	11,783	52	13,371	56 ⁵ 8	14,991	$61 \frac{1}{4}$	16,633	$65 \frac{7}{8}$
47 ³	11,825	52 ¹ / ₈	13,415	56 $\frac{3}{4}$	15,035	$61\frac{3}{8}$	16,678	66
47 5	11,868	52 1	13,458	56 8	15,079	$61\frac{1}{2}$	16,722	66 ¹ / ₈
47^{3}_{4}	11,910	52 ³	13,502	57	15,123	$61 \frac{5}{8}$	16,767	66 ¹ / ₄
47 7	11,953	52 $\frac{1}{2}$	13,545	57 1	15,167	61_{4}^{3}	16,812	$66 \frac{3}{8}$
48	11,995	52 ⁵ / ₈	13,589	57 ¹ / ₄	15,211	61 7	16,856	66 1
48 ¹ / ₈	12,038	52 $\frac{3}{4}$	13,632	57 ³ / ₈	15,256	62	16,901	66 ⁵ / ₈
48 1	12,081	52 7	13,676	57 $\frac{1}{2}$	15,300	62 1 8	16,946	$66 \frac{3}{4}$
48 3	12,123	53	13,719	57 ⁵ 8	15,344	62 4	16,990	66 78
48 ¹ ₂	12,166	53 ¹ / ₈	13,763	57 $\frac{3}{4}$	15,388	62_{8}^{3}	17,035	67
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Page 3 of 7

Capacity

(gallons)

17,932 17,976

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18,291 18,336 18,381 18,426 18,471 18,516 18,561 18,606 18,651 18,696

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Enter your company name here Tank Description:

Customer:

COLO, DEPART, OF TRANSPOR.

EAT40000P3

144" X 579" JOB 8839

Serial Number: UL #M32271 STI-P3 #274329

Depth	Capacity	<u>Depth</u>	Capacity	Depth	Capacity	Depth	Capacity	Depth	<u>Capacity</u>
(inches)	(gallons)	(inches)	(gallons)	(inches)	(gallons)	(inches)	(gallons) ~ 24,586	(inches).	(gallons) 26,224
69 ÷	19,642	$74\frac{1}{4}$	21,266 21,311	$70 + 78 \frac{7}{8}$	22,976	83 ¹ / ₂	24,631	88 ¹ / ₈	26,268
$69\frac{5}{8}$	19,642	74_{4} 74 $\frac{3}{8}$	21,311	78 ₈ 79	23,021	83 ⁵ / ₈ .	24,675	88 ¹ / ₄	26,311
$69 \frac{3}{4}$	1	74_{8} 74 $\frac{1}{2}$	21,330	79 ¹ / ₈	23,066	83_{4}^{3}	24,720	88 ³ / ₈	26,355
69 ⁷ 70	19,732 19,777	74 ₂ 74 §	21,407	79 ¹ / ₄	23,111	83 ⁷ / ₈	24,764	88 ¹ / ₂	26,399
	19,777	74_{8}^{3}	21,440	79 ³	23,156	84 s	24,809	88 ⁵ / ₈	26,443
70 ¹ / ₈	19,823	$74_{\frac{4}{8}}$	21,491	79 ¹ / ₂	23,201	84 ¹ / ₈	24,853	$88 \frac{3}{4}$	26,487
70 $\frac{1}{4}$	19,808	74 8	21,530	79 ⁵ 79 ⁵	23,245	84 ¹ / ₄	24,898	88 ⁷ / ₈	26,531
$70\frac{3}{8}$	19,913	75 ¹ / ₈	21,627	79 ³ / ₄	23,290	$84 \frac{3}{8}$	24,942	89	26,575
70 $\frac{1}{2}$ 70 $\frac{5}{8}$	20,003	$75\frac{1}{4}$	21,672	79 ⁷ 79 ⁷	23,335	84 ¹ / ₂	24,986	89 ¹ / ₈	26,618
70 $\frac{5}{8}$ 70 $\frac{3}{4}$	20,003	75_{4}^{4} 75 $\frac{3}{8}$	21,717	80	23,380	84 ⁵ / ₈	25,031	89 1	26,662
70_{4}^{7}	20,040	$75\frac{1}{2}$	21,762	80 ¹ / ₈	23,425	84 ³	25,075	89 ³ / ₈	26,706
70 g 71	20,138	75 ⁵ 8	21,807	80 ¹ / ₄	23,470	84 7 8	25,120	89 ¹ ₂	26,750
71	20,183	$75 \frac{3}{4}$	21,852	80 ³ / ₈	23,514	8 5	25,164	89 5	26,793
$71\frac{1}{4}$	20,229	$75\frac{7}{8}$	21,897	80 1	23,559	85 ¹ / ₈	25,208	89 ³ / ₄	26,837
$71\frac{3}{8}$	20,274	76	21,942	80 5	23,604	85 1	25,253	89 ⁷ ₈	26,881
$71\frac{1}{2}$	20,319	76 ¹ / ₈	21,987	80 3	23,649	85 3	25,297	90	26,924
$71\frac{5}{8}$	20,364	76 ¹ / ₄	22,032	80 7	23,693	85 ¹ / ₂	25,341	90 ¹ / ₈	26,968
$71\frac{3}{4}$	20,409	76 ³ / ₈	22,077	81	23,738	85 ⁵ ₈	25,385	90 ¹ / ₄	27,012
$71\frac{7}{8}$	20,454	$76\frac{1}{2}$	22,122	81 ¹ / ₈	23,783	85_{4}^{3}	25,430	90 ³ / ₈	27,055
72	20,499	76 ⁵ / ₈	22,167	81 ^I	23,828	85 ⁷ ₈	25,474	90 ¹ / ₂	27,099
72 1	20,544	76_{4}^{3}	22,212	81 8	23,872	86	25,518	90 ⁵ 8	27,142
72 4	20,589	76 ⁷ / ₈	22,257	81 ¹ / ₂	23,917	86 ¹ / ₈	25,562	90 $\frac{3}{4}$	27,186
72 3	20,635	77	22,302	81 8	23,962	86 ¹ / ₄	25,607	90 ⁷ / ₈	27,229
72^{1}_{2}	20,680	77 18	22,347	81 ³ ₄	24,006	86 ³ / ₈	25,651	91	27,273
$72 \frac{5}{8}$	20,725	77 ¹	22,392	81 ⁷	24,051	86 ¹ ₂	25,695	91 ¹ / ₈	27,316
72_{4}^{3}	20,770	$77\frac{3}{8}$	22,437	82	24,096	86 ⁵ 8	25,739	91 ¹ ₄	27,360
72 78	20,815	77^{-1}_{-2}	22,482	82 ¹ / ₈	24,140	86_{4}^{3}	25,783	91 ³ ₈	27,403
73	20,860	77 8	22,527	82 4	24,185	86 ⁷ 8	25,827	91 ¹ ₂	27,447
73 $\frac{1}{8}$	20,905	$77 \frac{3}{4}$	22,572	82 ³	24,230	87	25,871	91 ⁵	27,490
73 $\frac{1}{4}$	20,950	77 8	22,617	82 ¹ ₂	24,274	87 ¹ / ₈	25,916	91 ³ 4	27,533
73 $\frac{3}{8}$	20,995	78	22,662	82 ⁵	24,319	87 4	25,960	91 ⁷ ₈	27,577
73 $\frac{1}{2}$	21,041	7,8 ¹ / ₈	22,707	82 ³ ₄	24,363	87 ³ 8	26,004	92	27,620
73 ⁵ 8	21,086	$78 \frac{1}{4}$	22,752	82 ⁷ ₈	24,408	87 ¹ / ₂	26,048	92 1	27,663
73 $\frac{3}{4}$	21,131	$78 \frac{3}{8}$	22,797	83	24,453	87 58	26,092	92 4	27,706
73 78	21,176	78 ¹ ₂	22,842	83 1	24,497	87 ³ / ₄	26,136	92 ³ / ₈	27,750
74	21,221	78 ⁵ 8	22,886	83 ¹ / ₄	24,542	87 ⁷ 8	26,180	92 1	27,793

Enter your company name here

Tank Description: 144" X 579"

COLO. DEPART. OF TRANSPOR.

EAT40000P3

11. A. S. A. S A. S. A. S A. S. A. S

Customer:

JOB 8839

Serial Number:

UL #M32271 STI-P3 #274329

Depth	Capacity	Depth	Capacity	<u>Depth</u>	Capacity (gallons)	Depth (inches)	Capacity (gallous)	<u>Depth</u> (inches)	Capacity (gallons)
(inches)	(gallons) 27,836	(inches) 97	(gallons) 29,416	(inches)	30,955	106 ¹	32.445	DB .	33,876
92 ³	27,879	97 ³ / ₈	29,458	102	30,996	106 💈	32,485	$111\frac{1}{4}$	33,913
92 ⁷ / ₈	27,922	97 ¹ / ₂	29,500	102 1	31,037	$106 \frac{3}{4}$	32,524	$111\frac{3}{8}$	33,951
93 [°]	27,965	97 58	29,542	102 1	31,078	106 7 8	32,563	$111\frac{1}{2}$	33,989
93 ¹ / ₈	28,009	97 ³ / ₄	29,585	102^{-3}_{-8}	31,119	107	32,603	$111 \frac{5}{8}$	34,026
93 ¹ / ₄	28,052	97 ⁷ 8	29,627	$102 \frac{1}{2}$	31,160	107 18	32,642	$111 \frac{3}{4}$	34,064
93 ³	28,095	98	29,669	102 5	31,200	107 4	32,681	111 8	34,101
93 ¹ / ₂	28,138	98 ¹ / ₈	29,711	102_{4}^{3}	31,241	$107 \frac{3}{8}$	32,721	112	34,139
93 5	28,181	98 ¹ / ₄	29,753	$102 \frac{7}{8}$	31,282	$107 \frac{1}{2}$	32,760	112 8	34,176
93 ³ / ₄	28,224	98 ³ / ₈	29,794	103	31,323	107 58	32,799	112_{4}^{1}	34,214
93 78	28,267	98 ¹ / ₂	29,836	103 1 8	31,363	$107 \frac{3}{4}$	32,838	112_{8}^{3}	34,251
94	28,310	98 ⁵ 8	29,878	$103 \frac{1}{4}$	31,404	107 78	32,877	112^{-1}_{-2}	34,288
94 ¹ / ₈	28,352	98 $\frac{3}{4}$	29,920	103_{-8}^{-3}	31,444	108	32,916	112 8	34,325
94 ¹ / ₄	28,395	98 ⁷ ₈	29,962	$103 \frac{1}{2}$	31,485	108 1/8	32,955	112_{4}^{3}	34,362
94 ³ / ₈	28,438	99	30,004	$103 \frac{5}{8}$	31,525	$108 \frac{1}{4}$	32,994	112 8	34,399
94 $\frac{1}{2}$	28,481	99 ¹ / ₈	30,045	$103 \frac{3}{4}$	31,566	108_{8}^{3}	33,033	113	34,436
94 ⁵ 8	28,524	99 $\frac{1}{4}$	30,087	103 7 8	31,606	$108 \frac{1}{2}$	33,072	113 8	34,473
94 ³	28,566	99 ³ ₈	30,129	104	31,646	108 5	33,110	113_{4}^{1}	34,510
94 ⁷ 8	28,609	99 ¹ 2	30,170	$104 \frac{1}{8}$	31,687	$108 \frac{3}{4}$	33,149	113 8	34,547
95	28,652	99 ⁵ 8	30,212	104 4	31,727	108 7	33,188	113 1	34,584
95 ¹ / ₈	28,695	99 $\frac{3}{4}$	30,254	104_{8}^{3}	31,767	109	33,226	113 8	34,621
95 ¹ / ₄	28,737	99 ⁷ 8	30,295	104 1/2	31,808	109 8	33,265	$113 \frac{3}{4}$	34,657
95 ³ ₈	28,780	100	30,337	104_{8}^{5}	31,848	109 4	33,304	113 8	34,694
95 ¹ ₂	28,823	$100 \frac{1}{8}$	30,378	104_{4}^{3}	31,888	109 3	33,342	114	34,730
95 ⁵ 8	28,865	100^{-1}_{-4}	30,420	104 7/8	31,928	109 ¹ ₂	33,380	114 8	34,767
95 $\frac{3}{4}$	28,908	$100 \frac{3}{8}$	30,461	105	31,968	109 8	33,419	114_{4}^{1}	34,803
95 ⁷ ₈	28,950	$100 \frac{1}{2}$	30,502	105 1	32,008	$109 \frac{3}{4}$	33,457	$114 \frac{3}{8}$	34,840
96	28,993	100 8	30,544	$105 \frac{1}{4}$	32,048	109 ⁷ 8	33,495	114_{2}^{1}	34,876
96 ¹ / ₈	29,035	$100\frac{3}{4}$	30,585	105 8	32,088	110	33,534	114_{8}^{5}	34,912
96 ¹ / ₄	29,078	100 7 8	30,626	105 1	32,128		33,572	$114 \frac{3}{4}$	34,949
96 ³	29,120	101	30,668	105 8	32,167	110^{-1}_{-4}	33,610	114_{8}^{7}	34,985
96 ¹ ₂	29,162	101 1	30,709		32,207	110^{-3}_{-8}	33,648	115	35,021
96 8	29,205	101 4	30,750		32,247	$110\frac{1}{2}$	33,686	$115\frac{1}{8}$	35,057
96 ³ / ₄	29,247	$101 \frac{3}{8}$	30,791	106	32,287	110_{8}^{5}	33,724	$115 \frac{1}{4}$	35,093
96 ⁷ 8	29,289	$101 \frac{1}{2}$	30,832		32,326	110_{4}^{3}	33,762	$115\frac{3}{8}$	35,129
97 97	29,332	101 8	30,873	106 4	32,366		33,800	115_{2}^{1}	35,165
97 ¹ 8	29,374	$101 \frac{3}{4}$	30,914	106 8	32,406	111	33,838	115 8	35,200

Enter your company name here Tank Description:

Customer:

COLO. DEPART. OF TRANSPOR. EAT40000P3

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Serial Number:

UL #M32271 STI-P3 #274329

<u>Depth</u>	Capacity	Depth .	<u>Capacity</u>	Depth	Capacity	<u>Depth</u>	Capacity	<u>Depth</u>	<u>Capacity</u>
(inches) (115 3	(gallons) 35,236	(inches) 120	(gallons) 36 514	(inches) 125	(gallons) 37/692	(inches) 129 3	(gallons) 38,753	(inches) 134 ±	(gallons) . 39,667 -
$115 \frac{7}{8}$	35,272	$120^{\frac{1}{2}}$	36,547	125 1	37,723	$129 \frac{3}{4}$	38,780	$134\frac{3}{8}$	39,690
116 [°]	35,307	$120\frac{2}{8}$	36,580	$125 \frac{1}{4}$	37,753	129 7.	38,806	134^{1}_{2}	39,712
$116 \frac{1}{8}$	35,343	$120 \frac{3}{4}$	36,613	$125\frac{4}{8}$	37,783	130	38,833	134 5	39,734
116	35,378	120 7	36,646	125 1	37,813	130 ¹ / ₈	38,859	134 4	39,756
116 3	35,414	121	36,679	125 5	37,843	130 ¹ / ₄	38,886	134 7	39,778
116 1	35,449	$121 \frac{1}{8}$	36,712	$125 \frac{3}{4}$	37,873	130 3	38,912	135	39,799
116 \$	35,485	121 1	36,745	125 7 8	37,903	130 1	38,938	135 1	39,821
$116\frac{3}{4}$	35,520	$121\frac{3}{8}$	36,777	126	37,933	130 5	38,964	135 1	39,842
116 8	35,555	$121 \frac{1}{2}$	36,810	126 18	37,962	130_{4}^{3}	38,990	135 3	39,863
117	35,590	121 5	36,843	126 ¹ / ₄	37,992	130 7 8	39,016	$135 \frac{1}{2}$	39,884
$117 \frac{1}{8}$	35,625	$121 \frac{3}{4}$	36,875	$126 \frac{3}{8}$	38,021	131	39,042	135 8	39,905
$117 \frac{1}{4}$	35,660	$121 \frac{7}{8}$	36,908	$126 \frac{1}{2}$	38,050	$131 \frac{1}{8}$	39,067	$135 \frac{3}{4}$	39,926
$117 \frac{3}{8}$	35,695	122	36,940	126_{8}^{5}	38,080	$131 \frac{1}{4}$	39,093	135_{8}^{7}	39,946
$117 \frac{1}{2}$	35,730	$122 \frac{1}{8}$	36,972	126_{4}^{3}	38,109	$131 \frac{3}{8}$	39,118	136	39,967
$117 \frac{5}{8}$	35,765	$122 \frac{1}{4}$	37,004	$126 \frac{7}{8}$	38,138	$131 \frac{1}{2}$	39,143	136 1/8	39,987
117_{4}^{3}	35,800	$122 \frac{3}{8}$	37,036	127	38,167	$131 \frac{5}{8}$	39,168	136 4	40,007
117_{8}^{7}	35,834	$122 \frac{1}{2}$	37,069	127 18	38,196	131_{4}^{3}	39,193	136 ³ / ₈	40,027
118	35,869	122 8	37,100	$127 \frac{1}{4}$	38,225	131 8	39,218	136 1	40,047
$118 \frac{1}{8}$	35,903	$122 \frac{3}{4}$	37,132	127 3	38,253	132	39,243	136 8	40,067
$118 \frac{1}{4}$	35,938	122 78	37,164	$127 \frac{1}{2}$	38,282	132_{8}^{1}	39,268	136_{4}^{3}	40,086
118 8	35,972	123	37,196	127 8	38,310	132^{1}_{4}	39,292	136 8	40,106
$118 \frac{1}{2}$	36,007	123 1	37,228	$127 \frac{3}{4}$	38,339	132_{8}^{3}	39,316	137	40,125
118 8	36,041	123 1	37,259	$127 \frac{7}{8}$	38,367	$132 \frac{1}{2}$	39,341	137 1	40,144
$118 \frac{3}{4}$	36,075	123 8	37,291	128	38,395	132 5	39,365	137 4	40,162
118 7	36,109	123 1	37,322	128 1	38,423	$132 \frac{3}{4}$	39,389	137 8	40,181
119	36,143	123 5	37,353	128 4	38,451	132 7	39,413	$137 \frac{1}{2}$	40,200
$119 \frac{1}{8}$	36,177	$123 \frac{3}{4}$	37,385	$128 \frac{3}{8}$	38,479	133	39,437	137 8	40,218
$119 \frac{1}{4}$	36,211	123 7	37,416		38,507	133 8	39,460	$137 \frac{3}{4}$	40,236
119 8	36,245	124	37,447	128 8	38,535	$133 \frac{1}{4}$	39,484	137 %	40,254
$119\frac{1}{2}$	36,279	$124 \frac{1}{8}$	37,478	$128 \frac{3}{4}$	38,563	$133 \frac{3}{8}$	39,507	138	40,272
$119\frac{5}{8}$	36,313	$124 \frac{1}{4}$	37,509	$128 \frac{7}{8}$	38,590	$133 \frac{1}{2}$	39,530	138 1	40,289
$119 \frac{3}{4}$	36,346	124_{8}^{3}	37,540 '	129	38,617	$133 \frac{5}{8}$	39,554	$138 \frac{1}{4}$	40,307
$119 \frac{7}{8}$ 120	36,380 36,413	$124 \frac{1}{2}$ 124 $\frac{5}{8}$	37,570 37,601	$129 \frac{1}{8}$ $129 \frac{1}{4}$	38,645 38,672	$133 \frac{3}{4}$	39,577 39,599	$138 \frac{3}{8}$	40,324
120 $\frac{1}{8}$	36,447	124_{8}		$129_{\frac{3}{4}}$	38,699	$133 \frac{7}{8}$ 134	39,399	$138 \frac{1}{2}$ 138 $\frac{5}{8}$	40,341
$120\frac{1}{8}$	36,480	$124 \frac{7}{8}$	37,632 37,662	$129\frac{1}{8}$ 129 ¹ / ₂	38,099		39,622	$138_{\frac{8}{4}}$	40,358 40,374
120 4	50,400	124 8	57,002	127 2	50,720	134 1/8	37,045	150 4	40,374

Enter your company name here

Customer:

COLO. DEPART. OF TRANSPOR. EAT40000P3 Serial Number: UL #M32271 STI-P3 #274329

Tank Description: - 144" X 579" JOB 8839

Depth.		Depth	<u>Capacity</u>	Depth	<u>Capacity</u>		Capacity	<u>Depth</u> <u>Capacity</u>
(inches) 138	(gallons) *40,391*	(inches) 143 Jan	(gallons) * 40(813	(inches)	(gallons)	(inches)	(gallons)	(mches) (gallons)
139	40,407	143 ⁵ / ₈	40,816		and the second second			
139 ¹ / ₈	40,423	$143 \frac{3}{4}$	40,818					
139 1	40,439				• .			
139 ³ / ₈	40,454	•						
$139 \frac{1}{2}$	40,470							
139 ⁵	40,485							
139_{4}^{3}	40,500							
139 ⁷ ₈	40,515							
140	40,529							
140 ¹ / ₈	40,543							
140 1	40,557							
$140 \frac{3}{8}$	40,571							
140 ½	40,585				• •			
140 8	40,598							
140_{4}^{3}	40,611					-		· · · · ·
140 ⁷ 141	40,624			•				
141 141 $\frac{1}{8}$	40,636 40,648		· .					
$141\frac{1}{8}$ 141 $\frac{1}{4}$	40,648			а				
$141_{\frac{3}{8}}$	40,672							
$141\frac{1}{2}$	40,683			- -				
141 5	40,694							•
$141 \frac{3}{4}$	40,705							
$141 \frac{7}{8}$	40,715							
142	40,725							
142 18	40,735							
142_{4}^{1}	40,745							
$142 \frac{3}{8}$	40,753							
$142 \frac{1}{2}$	40,762				А. С.			
142_{8}^{5}	40,770							
$142 \frac{3}{4}$	40,778							
142 78	40,785	•						
143	40,792							
143 ¹ / ₈	40,798							
$143 \frac{1}{4}$	40,804							
$143 \frac{3}{8}$	40,809		ļ					

Enter your company name here

Customer:

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COLO. DEPART. OF TRANSPOR. EAT40000P3 Serial Number. UL #M32270 STI-P3 #274328

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	eptii aabool	Capacity To atoms	<u>. Depth</u>	Capacity (callous)	(metres))	(gallens)	(inclass)	neattenst	A CARLES AND A C	(callons)
				20, 24,				2.092		3 (56
	0_{4}^{1}	14	4 ⁷ ₈	460	9 ¹ ₂	1,196	$14 \frac{1}{8}$	2,119	18 4	3,186
	$0\frac{3}{8}$	20	5	477	9 ⁵ 8	1,218	$14 \frac{1}{4}$	2,146	18 8	3,217
	$0 \frac{1}{2}$. 26	5 ¹ / ₈	494	9 3	1,241	14_{8}^{3}	2,173	19	3,248
	0 5 8	33	$5 \frac{1}{4}$	511	9 7 8	1,264	14 1	2,201	19 18	3,278
	$0\frac{3}{4}$	40	5 3	529	10	1,287	14_{8}^{5}	2,228	19 ¹ / ₄	3,309
	0 7 8	48	5 1/2	546	$10 \frac{1}{8}$	1,311	14_{4}^{3}	2,255	$19\frac{3}{8}$	3,340
	1	56	5 5 8	564	$10 \frac{1}{4}$	1,334	14_{8}^{7}	2,283	$19\frac{1}{2}$	3,371
	$1 \frac{1}{8}$	64	$5\frac{3}{4}$	582	$10 \frac{3}{8}$	1,358	15	2,311	19 8	3,402
	1^{1}_{4}	73	5 ⁷ / ₈	600	$10 \frac{1}{2}$	1,381	15 1	2,339	19_{4}^{3}	3,433
	$1\frac{3}{8}$	83	6	618	10 8	1,405	$15 \frac{1}{4}$	2,367	19 8	3,465
	$1 \frac{1}{2}$	92	$6\frac{1}{8}$	637	$10\frac{3}{4}$	1,429	15 8	2,395	20	3,496
	$1\frac{5}{8}$	103	6_{4}^{1}	655	10_{8}^{7}	1,453	$15 \frac{1}{2}$	2,423	$20 \frac{1}{8}$	3,527
	$1\frac{3}{4}$	113	6 ³ / ₈	674	11	1,477	15_{8}^{5}	2,451	20_{4}^{1}	3,559
	$1\frac{7}{8}$	124	6 <u>1</u>	693	$11 \frac{1}{8}$	1,501	$15\frac{3}{4}$	2,479	$20 \frac{3}{8}$	3,590
	2	135	6 ⁵ / ₈	712	$11 \frac{1}{4}$	1,526	$15 \frac{7}{8}$	2,508	$20 \frac{1}{2}$	3,622
	2^{1}_{8}	146	6 ³ ₄	732	$11 \frac{3}{8}$	1,550	16	2,536	20_{8}^{5}	3,654
	$2\frac{1}{4}$	158	6 ⁷ 8	751	$11\frac{1}{2}$	1,575	16 ¹ / ₈	2,565	$20 \frac{3}{4}$	3,686
	$2\frac{3}{8}$	170	7	771	11 5	1,600	$16 \frac{1}{4}$	2,593	20 8	3,717
	$2\frac{1}{2}$	182	7 18	791	$11 \frac{3}{4}$	1,625	$16 \frac{3}{8}$	2,622	21	3,749
	2^{5}_{8}	194	7 4	811	11 7 8	1,650	$16\frac{1}{2}$	2,651	21 8	3,781
	$2\frac{3}{4}$	207	7 ³ 8	831	12	1,675	$16 \frac{5}{8}$	2,680	$21\frac{1}{4}$	3,814
	2 7 8	220	7 ¹ ₂	851	12 18	1,700	$16 \frac{3}{4}$	2,709	$21\frac{3}{8}$	3,846
	3	233	7 8	872	$12 \frac{1}{4}$	1,725	$16\frac{7}{8}$	2,738	$21 \frac{1}{2}$	3,878
	$3\frac{1}{8}$	247	7 ³ 4	892	$12 \frac{3}{8}$	1,751	17	2,767	21 8	3,910
	3_{4}^{1}	261	7 ⁷ 8	913	$12 \frac{1}{2}$	1,776	$17 \frac{1}{8}$	2,797	$21 \frac{3}{4}$	3,943
	3 8	275	8.	934	12_{8}^{5}	1,802	$17\frac{1}{4}$	2,826	21 8	3,975
	$3\frac{1}{2}$	289	8 ¹ 8	955	12^{3}_{4}	1,828	$17\frac{3}{8}$	2,856	22	4,008
	3 8	303	8 ¹ / ₄	976	$12 \frac{7}{8}$	1,854	$17\frac{1}{2}$	2,885	$22\frac{1}{8}$	4,041
	$3 \frac{3}{4}$	318	8 3 8	997	13	1,880	17 8	2,915	$22 \frac{1}{4}$	4,073
	3 7 8	333	8 ¹ ₂	1,019	13 18	1,906	$17\frac{3}{4}$	2,945	$22 \frac{3}{8}$	4,106
	4	348	8 ⁵ 8	1,040	$13 \frac{1}{4}$	1,932	17_{8}^{7}	2,975	$22 \frac{1}{2}$	4,139
	4^{1}_{8}	364	. 8 ³ / ₄	1,062	$13 \frac{3}{8}$	1,959	18	3,005	$22 \frac{5}{8}$	4,172
	4 4	379	8 ⁷ 8	1,084	$13 \frac{1}{2}$	1,985	18 8	3,035	$22 \frac{3}{4}$	4,205
	4_{8}^{3}	395	9	1,106	13 8	2,012	18 4	3,065	22 8	4,238
	4_{2}^{1}	411	9 1 8	1,128	13_{4}^{3}	2,038	18 ³ ₈	3,095	23	4,271
	4 8	427	9 ¹ / ₄	1,151	13 ⁷ ₈	2,065	$18 \frac{1}{2}$	3,126	23 8	4,304

Page 1 of 7

Capacity Charif

Enter your company name here Tank Description: R. 144" X:579"

Customer

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COLO DEPART. OF TRANSPOR. EAT40000P3

JOB 8839

e Depth	Capacity	Depth	Capacity.	Depth	<u>Capacity</u>		<u>Capacity</u>	<u>Depth</u>	Capacity .
a definchiese Sector L	e (adhous)	a su finche di su	 Callouse 	(unclies)	(gations) (gations)	(Inches)- 7	(gallons) 8.412	ounches) All States	saganons). A sociotori
23 ³ / ₈	4,371	28	5,653	32 5	7,018	37 4	8,452	$41\frac{7}{8}$	9,945
23^{1}_{2}	4,405	28 ¹ / ₈	5,689	$32\frac{3}{4}$	7,056	37 8	8,492	42	9,986
23 \$	4,438	28 4	5,725	32 7	7,094	$37\frac{1}{2}$	8,531	42 ¹ / ₈	10,027
$23 \frac{3}{4}$	4,472	28 3	5,761	33	7,132	- 37 5	8,571	42 4	10,068
23 78	4,505	$28\frac{1}{2}$	5,797	33 8	7,170	$37 \frac{3}{4}$	8,611	42 ³ / ₈	10,109
24	4,539	28 ⁵ / ₈	5,833	33 1	7,208	37 7 8	8,651	42^{1}_{2}	10,150
24 ¹ / ₈	4,573	$28 \frac{3}{4}$	5,869	$33\frac{3}{8}$	7,246	38	8,690	42 8	10,192
24 ¹	4,607	28 ⁷ / ₈	5,906	$33\frac{1}{2}$	7,284	$38 \frac{1}{8}$	8,730	42_{4}^{3}	10,233
24 3	4,641	. 29	5,942	33 5/8	7,322	38 ¹ / ₄	8,770	42 7 8	10,274
$24\frac{1}{2}$	4,675	29 ¹ / ₈	5,978	$33 \frac{3}{4}$	7,361	$38 \frac{3}{8}$	8,810	43	10,316
24 ⁵ 8	4,709	29 1	6,015	33 78	7,399	38 1/2	8,850	43 1	10,357
24_{4}^{3}	4,743	29 ³ / ₈	6,051	34	7,438	38 ⁵ 8	8,890	43 ¹ ₄	10,398
$24 \frac{7}{8}$	4,777	29 ¹ / ₂	6,088	34 1	7,476	$38 \frac{3}{4}$	8,930	43 $\frac{3}{8}$	10,440
25	4,811	29 ⁵ 8	6,124	34 4	7,514	38 ⁷ ₈	8,970	43 ¹ ₂	10,481
$25 \frac{1}{8}$	4,846	29 ³ / ₄	6,161	34 ³ 8	7,553	39	9,010	43 8	10,523
25 4	4,880	29 ⁷ / ₈	6,197	$34 \frac{1}{2}$	7,592	39 1	9,051	43 $\frac{3}{4}$	10,564
$25 \frac{3}{8}$	4,915	30	6,234	34 ⁵ 8	7,630	39 4	9,091	43 ⁷ ₈	10,606
$25 \frac{1}{2}$	4,949	30 ¹ / ₈	6,271	34_{4}^{3}	7,669	$39 \frac{3}{8}$	9,131	44	10,648
$25 \frac{5}{8}$	4,984	30 ¹ / ₄	6,308	34 ⁷ ₈	7,708	39_{2}^{1}	9,171	44 8	10,689
$25 \frac{3}{4}$	5,018	$30 \frac{3}{8}$	6,345	35	7,746	39 ⁵ 8	9,212	44 4	10,731
25_{8}^{7}	5,053	30 ¹ / ₂	6,382	35 18	7,785	$39 \frac{3}{4}$	9,252	44 8	10,773
26	5,088	30 8	6,419	35 4	7,824	39 ⁷ ₈	9,293	44 1	10,814
26_{8}^{1}	5,123	30^{3}_{4}	6,456	35 ³ ₈	7,863	40	9,333	44 8	10,856
$26 \frac{1}{4}$	5,158	30 7	6,493	$35\frac{1}{2}$	7,902	40 1	9,374	44_{4}^{3}	10,898
$26 \frac{3}{8}$	5,193	31	6,530	35 8	7,941	40 4	9,414	44 7 8	10,940
$26\frac{1}{2}$	5,228	$31 \frac{1}{8}$	6,567	$35 \frac{3}{4}$	7,980	40 ³ / ₈	9,455	45	10,982
$26\frac{5}{8}$	5,263	31 4	6,604	35 8	8,019	40 1	9,495	45 8	11,023
$26 \frac{3}{4}$	5,298	$31\frac{3}{8}$	6,642	36	8,058	40 8	9,536	$45 \frac{1}{4}$	11,065
26 ⁷ ₈	5,333	31 1	6,679	36 8	8,097	40_{4}^{3}	9,577	45 8	11,107
27	5,369	31 5	6,717	$36 \frac{1}{4}$	8,137	40 7 8	9,617	45 1	11,149
27 🖁	5,404	$31\frac{3}{4}$	6,754	36 ³ / ₈	8,176	41	9,658	45 ⁵ 45 ³	11,191
27 4	5,439	31 7/8	6,792	36 ¹ / ₂	8,215		9,699	$45 \frac{3}{4}$	11,233
27 3	5,475	32	6,829	36 ⁵ 8	8,255	41 4	9,740	45 ⁷ 46	11,276
$27\frac{1}{2}$	5,511	32 1/8	6,867	$36\frac{3}{4}$	8,294	$41\frac{3}{8}$	9,781	46	11,318
27 5	5,546	32 4	6,905	36 7/8	8,333	$41\frac{1}{2}$	9,822	46 1	11,360
$27 \frac{3}{4}$	5,582	32 ³ / ₈	6,942	37	8,373	41 8	9,863	46 ¹ / ₄	11,402

<u>Capacity Chart</u> Enter your company name here

Customer:

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COLO. DEPART. OF TRANSPOR. EAT40000P3 Serial Number UL #M32270 STI-P3 #274328

Tank Description: 144" X 579"-JOB 8839

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Depth amelies		<u>Depth</u>	Capacity Centronst	Depth Depth	Capacity (callours)	Depth 2 at (inclass)	Capacity	<u>Depth</u>	Capacity teationsi
	and the second		5.00000			60	162.76	0.0	
46 ¹ / ₂	11,486	$51 \frac{1}{8}$	13,068	$55\frac{3}{4}$	14,682	60^{-3}_{-8}	16,321	65	17,976
46 5	11,529	51 ¹ / ₄	13,112	55 78	14,726	60 ¹ / ₂	16,365	65 ¹ / ₈	18,021
46_{4}^{3}	11,571	51 3	13,155	56	14,770	60 ⁵ / ₈	16,410	65 4	18,066
46 7 8	11,613	$51\frac{1}{2}$	13,198	56 ¹ / ₈	14,814	$^{-60}$ $^{3}_{4}$	16,454	$65 \frac{3}{8}$	18,111
47	11,656	51 5	13,241	56 1	14,858	60 ⁷ / ₈	16,499	$65 \frac{1}{2}$	18,156
47_{8}^{1}	11,698	51 ³ ₄	13,285	56 ³ / ₈	14,902	61	16,544	$65 \frac{5}{8}$	18,201
47 ¹ / ₄	11,740	51 8	13,328	56 1	14,947	61 ¹ / ₈	16,588	$65 \frac{3}{4}$	18,246
47 3	11,783	52	13,371	56 ⁵	14,991	$61 \frac{1}{4}$	16,633	$65 \frac{7}{8}$	18,291
47 1/2	11,825	52 ¹ / ₈	13,415	56 $\frac{3}{4}$	15,035	$61\frac{3}{8}$	16,678	66	18,336
47 58	11,868	52 4	13,458	56 ⁷ / ₈	15,079	$61 \frac{1}{2}$	16,722	66 ¹ / ₈	18,381
$47 \frac{3}{4}$	11,910	52 ³ / ₈	13,502	57	15,123	61 5	16,767	66 $\frac{1}{4}$	18,426
47 8	11,953	52 ¹ / ₂	13,545	57 1	15,167	$61\frac{3}{4}$	16,812	$66 \frac{3}{8}$	18,471
48	11,995	52 8	13,589	57 1	15,211	61 78	16,856	66 ¹ / ₂	18,516
48_{8}^{1}	12,038	$52 \frac{3}{4}$	13,632	57 3	15,256	62	16,901	66 ⁵ / ₈	18,561
48_{4}^{1}	12,081	52 ⁷ ₈	13,676	57 $\frac{1}{2}$	15,300	$62 \frac{1}{8}$	16,946	$66 \frac{3}{4}$	18,606
48 3	12,123	53	13,719	57 ⁻⁵ 8	15,344	62 4	16,990	66 ⁷ / ₈	18,651
48_{2}^{1}	12,166	53 ¹ / ₈	13,763	57 $\frac{3}{4}$	15,388	$62\frac{3}{8}$	17,035	67	18,696
48_{8}^{5}	12,209	53 ¹ / ₄	13,806	57 7 8	15,433	62 1	17,080	67 1	18,741
$48 \frac{3}{4}$	12,251	53 ³ / ₈	13,850	58	15,477	62 ⁵ / ₈	17,125	67 4	18,786
48_{8}^{7}	12,294	53 $\frac{1}{2}$	13,894	58 ¹ / ₈	15,521	62_{4}^{3}	17,169	67 ³ 8	18,831
49	12,337	53 ⁵ 8	13,937	58 $\frac{1}{4}$	15,565	62 ⁷ / ₈	17,214	67 ¹ / ₂	18,876
49 ¹ 8	12,380	53 $\frac{3}{4}$	13,981	58 ³ / ₈	15,610	63	17,259	67.8	18,921
49 ₄	12,423	53 ⁷ ₈	14,025	58 $\frac{1}{2}$	15,654	63 ¹ / ₈	17,304	$67 \frac{3}{4}$	18,966
49_{8}^{3}	12,466	54	14,068	58 ⁵ ₈	15,698	63 4	17,348	67 <mark>8</mark>	19,011
49 1	12,508	54 ¹ ₈	14,112	58 $\frac{3}{4}$	15,743	63 ³ 8	17,393	68	19,056
49 8	12,551	54 ¹ / ₄	14,156	58 ⁷ / ₈	15,787	63 ¹ ₂	17,438	68 ¹ / ₈	19,101
49_{4}^{3}	12,594	54 ³	14,200	59	15,832	63 ⁵ 8	17,483	68 4	19,146
49_{8}^{7}	12,637	54 ¹ ₂	14,243	59 ¹ / ₈	15,876	63 ³ / ₄	17,528		19,191
50	12,680	54 ⁵ ₈	14,287	59 ¹ / ₄	15,920	63 ⁷ 8	17,572	68 ¹ / ₂	19,236
50 1	12,723	54 ³ ₄	14,331	59 ³ / ₈	15,965	64	17,617	$68 \frac{5}{8}$	19,281
50 $\frac{1}{4}$	12,766	54 ⁷ ₈	14,375	59 ¹ ₂	16,009	64 ¹ / ₈	17,662	68_{4}^{3}	19,327
50 ³ 8	12,809	. 55	14,419	59 ⁵ ₈	16,054	64_{4}^{1}	17,707	68 ⁷ / ₈	19,372
50 ¹ / ₂	12,852	55 ¹ 8	14,463	59 $\frac{3}{4}$	16,098	$64 \frac{3}{8}$	17,752	69 (0.1	19,417
50 ⁵ 50 ³	12,896	$55 \frac{1}{4}$	14,507	59 ⁷ 8	16,143	64_{2}^{1}	17,797	69 ¹ / ₈	19,462
50 $\frac{3}{4}$	12,939	55 ³ 55 1	14,550	60	16,187	$64 \frac{5}{8}$	17,842	$69\frac{1}{4}$	19,507
50_{8}^{7}	12,982	55 1	14,594	$60 \frac{1}{8}$	16,232	64_{4}^{3}	17,887	69 ³ 8	19,552

Page 3 of 7

Customer

Enter your company name here Tank Description PR. 144" X 579"

JOB 8839

Capacity Chart

COLO. DEPART. OF TRANSPOR, EAT40000P3

Serial Number: UL #M32270 STI-P3 #274328

	Capacity	C. Depth	Capacity		Capacity	<u>. Depih</u>	Capacity	Depth	Capacity
estation de Station Nétra de Carlos de Carlos			27.0 (91.84) 27.0 (91.84) 27.0 (91.84)	nuiches). Thur near	Cotions)	oinchesize anglasi		(melies) (States)	ing an outside the second s
69 ⁵ 8	19,642	74_{4}^{1}	21,311	78 7	22,976	83 ¹ ₂	24,631	88 ¹ 8	26,268
$69 \frac{3}{4}$	19,687	$74\frac{3}{8}$	21,356	79 [°]	23,021	83 5	24,675	88 4	26,311
69 ⁷ / ₈	19,732	74 ¹ / ₂	21,401	79 ¹ / ₈	23,066	83 4	24,720	88 ³ / ₈	26,355
70	19,777	74 8	21,446	79 1	23,111	83 7 8	24,764	88^{-1}_{2}	26,399
70^{-1}_{-8}	19,823	74_{4}^{3}	21,491	79 ³ / ₈	23,156	84	24,809	88 ⁵ 8	26,443
70_{4}^{1}	19,868	74 ⁷ ₈	21,536	79 ¹ ₂	23,201	84 ¹ / ₈	24,853	$88 \frac{3}{4}$	26,487
70 ³ / ₈	19,913	75	21,582	79 ⁵	23,245	84 ¹ ₄	24,898	88 7	26,531
70^{-1}_{-2}	19,958	75_{8}^{1}	21,627	$79 \frac{3}{4}$	23,290	84 ³ ₈	24,942	89	26,575
70 58	20,003	75 ¹ / ₄	21,672	79 ⁷ 8	23,335	84 ¹ / ₂	24,986	89 8.	26,618
70 $\frac{3}{4}$	20,048	$75 \frac{3}{8}$	21,717	80	23,380	84 ⁵ ₈	25,031	89 ¹ ₄	26,662
70_{8}^{7}	20,093	$75 \frac{1}{2}$	21,762	80 1	23,425	84 ³ ₄	25,075	89 ³ 8	26,706
71	20,138	75 8	21,807	80_{4}^{1}	23,470	84_{8}^{7}	25,120	89 ¹ ₂	26,750
$71 \frac{1}{8}$	20,183	$75 \frac{3}{4}$	21,852	80 ³ / ₈	23,514	85	25,164	89 8	26,793
71 $\frac{1}{4}$	20,229	75 8	21,897	80_{2}^{1}	23,559	85 ¹ / ₈	25,208	89_{4}^{3}	26,837
$71 \frac{3}{8}$	20,274	76	21,942	80 ⁵ 8	23,604	85 4	25,253	89_{8}^{7}	26,881
71_{2}^{1}	20,319	76 ¹ / ₈	21,987	80 ³ ₄	23,649	85 ³ 8	25,297	90	26,924
71_{8}^{5}	20,364	76 ¹ / ₄	22,032	80 ⁷ ₈	23,693	85 ¹ ₂	25,341	90 ¹	26,968
71 $\frac{3}{4}$	20,409	76 ³ / ₈	22,077	81	23,738	85 8	25,385	90 ¹ / ₄	27,012
$71 \frac{7}{8}$	20,454	76 ¹ / ₂	22,122	81 8	23,783	$85 \frac{3}{4}$	25,430	90 ³ / ₈	27,055
72	20,499	76 8	22,167	81 4	23,828	85 8	25,474	90 ¹ ₂	27,099
72 ¹ / ₈	20,544	$76 \frac{3}{4}$	22,212	$81\frac{3}{8}$	23,872	86	25,518	90 8	27,142
72 ¹ 4	20,589	76 ⁷	22,257	$81 \frac{1}{2}$	23,917	86 ¹ / ₈	25,562	90 ³ / ₄	27,186
72 $\frac{3}{8}$	20,635	77	22,302	81 8	23,962	86 4	25,607	90 ⁷ 8	27,229
72 1	20,680	77 18	22,347	81 ³ 4	24,006	86 8	25,651	91	27,273
72 5	20,725	77 $\frac{1}{4}$	22,392	81 8	24,051	86 1	25,695	91 8	27,316
72_{4}^{3}	20,770	$77 \frac{3}{8}$	22,437	82	24,096	86 8	25,739	91 ¹ / ₄	27,360
72 78	20,815	$77\frac{1}{2}$	22,482	82 ¹ 8	24,140	86 3	25,783	91 ³ 8	27,403
73	20,860	77 58	22,527	82 4	24,185	86 ⁷ / ₈	25,827	91 $\frac{1}{2}$	27,447
73 1 8	20,905	$77 \frac{3}{4}$	22,572	82 ³ / ₈	24,230	87	25,871	91 ⁵ 8	27,490
73 $\frac{1}{4}$	20,950	77 78	22,617	82 ¹ ₂	24,274	87 1	25,916	91 $\frac{3}{4}$	27,533
73 ³ / ₈	20,995	78	22,662	82 ⁵ 82 ³	24,319	87 ¹ / ₄	25,960	91 ⁷ ₈	27,577
$73\frac{1}{2}$	21,041	78 ¹ 78 1	22,707	82_{4}^{3}	24,363	87 ³ 87 ¹	26,004	92	27,620
. 73 8	21,086	$78 \frac{1}{4}$	22,752	82 ⁷ 82	24,408	87 ¹ ₂	26,048	92 ¹ 92 1	27,663
73 $\frac{3}{4}$	21,131	78 ³ 78 1	22,797	83 82	24,453	87 ⁵ 87 3	26,092	92 $\frac{1}{4}$	27,706
73 ⁷ 8	21,176	78 ¹ ₂	22,842	83 ¹ / ₈	24,497	$87\frac{3}{4}$	26,136	92 ³ / ₈	27,750
74	21,221	78_{8}^{5}	22,886	83 ¹ / ₄	24,542	87 8	26,180	92 ½	27,793

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Enter your company name here Tank Description

144" X 579"

JOB 8839

Carnette Chard

Customer: COLO. DEPART. OF TRANSPOR.

EAT40000P3

Depths	Capacity	<u>. Deptù</u> se	Capacity	<u>. Depth</u>	Capacity	Depth	Capacity.	Depth	Capacity 15.
e e un che sie Recent				(inches) Maria	(editons) Sections		s de alterrations researcher de la company	(melics) EFI	
92 ³ / ₄	27,879	97 ³ 8	29,458	102	30,996	106 5	32,485	$111\frac{1}{4}$	33,913
92 ⁷ / ₈	27,922	97 ¹ / ₂	29,500	102 1	31,037	$106\frac{3}{4}$	32,524	111 3	33,951
93	27,965	97 ⁵ /8	29,542	102 1	31,078	106 7	32,563	111 2	33,989
93 ¹ / ₈	28,009	97 ³ / ₄	29,585	102^{3}_{8}	31,119	107	32,603	111 5	34,026
93 ¹ / ₄	28,052	97 78	29,627	$102 \frac{1}{2}$	31,160	107 1	32,642	$111\frac{3}{4}$	34,064
93 ⁴ / ₈	28,095	98	29,669	102 5	31,200	107 1	32,681	$111 \frac{7}{8}$	34,101
93 ¹ ₂	28,138	98 ¹ / ₈	29,711	102_{4}^{3}	31,241	107 3	32,721	112	34,139
93 ² 8	28,181	98 ¹ / ₄	29,753	102 7	31,282	$107\frac{1}{2}$	32,760	112 1	34,176
93 ³ / ₄	28,224	98 ³ / ₈	29,794	103	31,323	107 5	32,799	$112 \frac{1}{4}$	34,214
93 78	28,267	98 ¹ ₂	29,836	103 ¹ / ₈	31,363	$107 \frac{3}{4}$	32,838	112^{3}_{8}	34,251
94	28,310	98 ⁵ 8	29,878	103 1	31,404	$107 \frac{7}{8}$	32,877	$112 \frac{1}{2}$	34,288
94 1	28,352	98 ³ / ₄	29,920	103 ³ / ₈	31,444	108	32,916	112_{-8}^{-5}	34,325
94 ¹ / ₄	28,395	98 ⁷ ₈	29,962	$103 \frac{1}{2}$	31,485	108 1	32,955	112_{4}^{3}	34,362
94 ³ / ₈	28,438	99	30,004	103 8	31,525	108_{4}^{1}	32,994	112 8	34,399
94 ¹ ₂	28,481	99 ¹ 8	30,045	$103 \frac{3}{4}$	31,566	108 3	33,033	113	34,436
94 ⁵ 8	28,524	99 ¹ / ₄	30,087	103 7	31,606	$108 \frac{1}{2}$	33,072	113 1	34,473
94 ³	28,566	99 ³ 8	30,129	104	31,646	108 5	33,110	113 4	34,510
94 ⁷ ₈	28,609	99 $\frac{1}{2}$	30,170	104 1	31,687	108_{4}^{3}	33,149	$113 \frac{3}{8}$	34,547
95	28,652	99 5	30,212	104_{4}^{1}	31,727	108 ⁷ ₈	33,188	$113\frac{1}{2}$	34,584
95 ¹ / ₈	28,695	99 ³ ₄	30,254	104_{8}^{3}	31,767	109	33,226	113 8	34,621
95 ¹ 4	28,737	99 ⁷ ₈	30,295	$104 \frac{1}{2}$	31,808	109 8	33,265	$113 \frac{3}{4}$	34,657
95 ³ 8	28,780	100	30,337	104 8	31,848	109 4	33,304	113 7 8	34,694
95 ¹ / ₂	28,823	100 1	30,378	$104 \frac{3}{4}$	31,888	109 ³ 8	33,342	114	34,730
95 ⁵	28,865	$100 \frac{1}{4}$	30,420	$104 \frac{7}{8}$	31,928	109 ¹ ₂	33,380	114 8	34,767
95 $\frac{3}{4}$	28,908	$100 \frac{3}{8}$	30,461	105	31,968	109 8	33,419	114 4	34,803
95 ⁷ ₈	28,950	$100 \frac{1}{2}$	30,502	105 1	32,008	$109 \frac{3}{4}$	33,457	$114 \frac{3}{8}$	34,840
96	28,993	100 5	30,544	$105 \frac{1}{4}$	32,048	109 8	33,495	114_{2}^{1}	34,876
96 ¹ / ₈	29,035	$100 \frac{3}{4}$	30,585	$105 \frac{3}{8}$	32,088	110	33,534	$114\frac{5}{8}$	34,912
96 ¹ / ₄	29,078	100 8	30,626	$105 \frac{1}{2}$	32,128	110 8	33,572	114_{4}^{3}	34,949
96 ³ 8	29,120	101	30,668	$105 \frac{5}{8}$	32,167	110_{4}^{1}	33,610	114 8	34,985
96 ¹ ₂	29,162	101 18	30,709	$105 \frac{3}{4}$	32,207	$110 \frac{3}{8}$	33,648	115	35,021
96 ⁵	29,205	101 4	30,750	105 8	32,247	$110 \frac{1}{2}$	33,686	115 8	35,057
96 ³ / ₄	29,247	$101 \frac{3}{8}$	30,791	106	32,287	110_{8}^{5}	33,724	$115\frac{1}{4}$	35,093
96 ⁷ 8	29,289	$101 \frac{1}{2}$	30,832	106 \	32,326	110_{4}^{3}	33,762	$115\frac{3}{8}$	35,129
97 97	29,332	$101 \frac{5}{8}$	30,873	$106 \frac{1}{4}$	32,366	110 7/8	33,800	$115\frac{1}{2}$	35,165
97 ¹ / ₈	29,374	$101 \frac{3}{4}$	30,914	$106 \frac{3}{8}$	32,406	111	33,838	115 8	35,200

Enter your company name here Tank Description: R. 144" X 579" JOB 8839

Customer:

COLO. DEPART. OF TRANSPOR. EAT40000P3

Depth.	Capacity	Depth	Capacity	Depth	Capacity	Depth	Capacity	Depth	Capacity
(inches) TIS	(gallons) 35.236	(inches) [20] ² 10 ⁻	(gallons).	(inches) 125	(gallons) 37,692	(inches)	(gallons)	(inches)	(gallons)
$115\frac{7}{8}$	35,272	120-8 120 $\frac{1}{2}$	36,514 36,547	$125\frac{1}{8}$	37,723	129 ₈ 129 ₄	38,780	134 4 134 3	39,667 39,690
116	35,307	$120\frac{5}{8}$	36,580	$125 \frac{1}{4}$	37,753	129 4	38,806	134 5	39,712
$116 \frac{1}{8}$	35,343	$120\frac{3}{4}$	36,613	$125 \frac{3}{8}$	37,783	130	38,833	134_{8}^{5}	39,734
116 1	35,378	$120\frac{7}{8}$	36,646	$125 \frac{1}{2}$	37,813	$130 \frac{1}{8}$	38,859	134_{4}^{3}	39,756
$116\frac{3}{8}$	35,414	121	36,679	125 \$	37,843	130 1	38,886	$134 \frac{7}{8}$	39,778
$116\frac{1}{2}$	35,449	121 1	36,712	$125\frac{3}{4}$	37,873	$130\frac{3}{8}$	38,912	135	39,799
116 5	35,485	121 1	36,745	125 7	37,903	130 ¹ / ₂	38,938	135 1	39,821
$116\frac{3}{4}$	35,520	$121\frac{3}{8}$	36,777	126	37,933	130 5	38,964	135 1	39,842
116 7	35,555	121 1	36,810	126 1	37,962	130^{3}_{4}	38,990	135 3	39,863
117	35,590	121 5	36,843	126 1	37,992	130 7	39,016	135 1	39,884
$117 \frac{1}{8}$	35,625	$121 \frac{3}{4}$	36,875	$126\frac{3}{8}$	38,021	131	39,042	135 \$	39,905
$117 \frac{1}{4}$	35,660	121_{8}^{7}	36,908	$126 \frac{1}{2}$	38,050	131 1	39,067	135 ³ / ₄	39,926
$117 \frac{3}{8}$	35,695	122	36,940	126_{-8}^{-5}	38,080	$131 \frac{1}{4}$	39,093	135 8	39,946
$117 \frac{1}{2}$	35,730	122 1	36,972	126_{4}^{3}	38,109	$131 \frac{3}{8}$	39,118	136	39,967
$117 \frac{5}{8}$	35,765	$122 \frac{1}{4}$	37,004	126 7	38,138	131_{2}^{-1}	39,143	136 1	39,987
$117 \frac{3}{4}$	35,800	$122 \frac{3}{8}$	37,036	127	38,167	131_{8}^{5}	39,168	136 4	40,007
$117 \frac{7}{8}$	35,834	$122 \frac{1}{2}$	37,069	$127 \frac{1}{8}$	38,196	$131 \frac{3}{4}$	39,193	136_{-8}^{-3}	40,027
118	35,869	122 8	37,100	$127 \frac{1}{4}$	38,225	$131 \frac{7}{8}$	39,218	136_{2}^{1}	40,047
$118 \frac{1}{8}$	35,903	122_{4}^{3}	37,132	$127 \frac{3}{8}$	38,253	132	39,243	136 ⁵ 8	40,067
$118 \frac{1}{4}$	35,938	122 7 8	37,164	$127\frac{1}{2}$	38,282	$132 \frac{1}{8}$	39,268	136_{4}^{3}	40,086
118 8	35,972	123	37,196	127 8	38,310	132 4	39,292	136 8	40,106
$118 \frac{1}{2}$	36,007	123 1	37,228	$127 \frac{3}{4}$	38,339	132^{3}_{8}	39,316	137	40,125
118 5	36,041	123 4	37,259	127 8	38,367	132_{2}^{1}	39,341	137 ¹ ₈	40,144
$118 \frac{3}{4}$	36,075	$123 \frac{3}{8}$	37,291	128	38,395	132 8	39,365	137 4	40,162
118 7 8	36,109	$123 \frac{1}{2}$	37,322	128 1	38,423	132_{4}^{3}	39,389	137_{8}^{3}	40,181
119	36,143	123 8	37,353	128 4	38,451	132 8	39,413	$137 \frac{1}{2}$	40,200
$119 \frac{1}{8}$	36,177	$123 \frac{3}{4}$	37,385	128 ³ / ₈	38,479	133	39,437	137 8	40,218
$119 \frac{1}{4}$	36,211	$123 \frac{7}{8}$	37,416	$128 \frac{1}{2}$	38,507	133 8	39,460	$137 \frac{3}{4}$	40,236
$119\frac{3}{8}$	36,245	124	37,447	128 8	38,535	$133 \frac{1}{4}$	39,484	137 8	40,254
$119\frac{1}{2}$	36,279	$124 \frac{1}{8}$	37,478	$128 \frac{3}{4}$	38,563	133_{8}^{3}	39,507	138	40,272
$119 \frac{5}{8}$ 119 $\frac{3}{4}$	36,313	$124 \frac{1}{4}$	37,509	$128 \frac{7}{8}$	38,590	$133 \frac{1}{2}$	39,530	$138 \frac{1}{8}$	40,289
119_{4}	36,346 36,380	$124 \frac{3}{8}$ $124 \frac{1}{2}$	37,540 37,570		38,617	$133 \frac{5}{8}$	39,554	$138 \frac{1}{4}$	
120	36,413	124 2	37,570	$129 \frac{1}{8}$ $129 \frac{1}{4}$	38,645 38,672	$133 \frac{3}{4}$ $133 \frac{7}{8}$	39,577 39,599	$138 \frac{3}{8}$ 138 $\frac{1}{2}$	40,324 40,341
120	36,447	124_{8} 124 $\frac{3}{4}$	37,632	129_{4}^{3}		133 8	39,399	138 ⁵ / ₈	40,341
120_{8}^{1}	36,480	124_{4} 124 $\frac{7}{8}$	37,662	$129\frac{8}{2}$	38,726	$134 \frac{1}{8}$	39,645	138_{4}^{8}	40,338
4	20,100		57,002	. 22 2	20,720	1.5 1 8	55,0451	100 4	10,274

Enter your company name here Tank Description: R. 144" X 579"

JOB 8839

Customer:

COLO. DEPART. OF TRANSPOR. EAT40000P3

Depth	<u>Capacity</u>	. <u>Depth</u>	<u>Capacity</u>	Dept	<u>h' Capacit</u>	<u>d</u>	<u>Capacity</u>	Depth	<u>Capacit</u>	v
(inches)	(gallons)	(inches)	(gallons)	- (inch	es) (gallons) (inches)		(inches)	(gallen:	sə.
138 § 139	40,391 40,407	143 5 143 5 8	40.813 40,816							
139 1	40,423	$143 \frac{3}{4}$	40,818							
139 ¹ / ₄	40,439	4	,	-						
139 3	40,454									
139 ¹ / ₂	40,470	н								
139 8	40,485									
$139\frac{3}{4}$	40,500									
139 ⁷ 8	40,515									
140	40,529	1			•					
140 1/8	40,543									
$140 \frac{1}{4}$	40,557			а. С						
$140 \frac{3}{8}$	40,571	а. С								
140 ¹ / ₂	40,585									
140_{8}^{5}	40,598		-			•				
140_{4}^{3}	40,611									
140_{8}^{7}	40,624									
141	40,636									
141 8	40,648									
141 4	40,660									
$141\frac{3}{8}$	40,672									
141_{2}^{1}	40,683									•
141 5	40,694									
$141 \frac{3}{4}$	40,705	- 								
$141 \frac{7}{8}$	40,715									
142	40,725 40,735									
$142 \frac{1}{8}$ 142 $\frac{1}{4}$	40,735									
$142_{\frac{4}{8}}$	40,753									
$142 \frac{1}{2}$	40,762									
142^{5}_{8}	40,770	•								
$142 \frac{3}{4}$	40,778									
142 7 8	40,785									
143	40,792	•								
143 ¹ / ₈	40,798									
143 4	40,804	·			•					
143 ³ / ₈	40,809	an e - P								



Eisenhower/Johnson Memorial Tunnel Fixed Fire Suppression System Design Build Project, NO. C 0703-360

Drainage Tanks Water Removal Procedure

Introduction:

Drainage Tanks shall be pumped free of water after each fire event. The tank full sensor may not be in alarm depending on how much water is collected but the tanks should be emptied anyways.

General Notes:

- All water that is deposited in tanks should be considered contaminated and should be dealt with accordingly.
- The level sensor in the tank will reset automatically when the water level recesses below the full threshold.

Water Removal Procedure:

- 1. Ensure sewer room valves have been reset to ensure water isn't entering tanks while tanks are being drained.
- 2. Close Over-Height Truck Area
- 3. Remove Manhole Covers
- 4. Remove Tank Manway Covers
- 5. Place Pump in Tanks
- 6. Insert hose into removal container or truck
- 7. Turn Power on to Pumps

Water Removal Equipment List:

- 1. Manhole puller
- 2. Pump
- 3. Hose
- 4. Contaminated Water Removal Container (Tank or Truck)



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Drainage Tank Consumables

The Eaton Draingage Tanks and all associated components have no required consumables for normal operation, nor for any ongoing testing and maintenance operations.