



Department of Environmental Protection

2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form: 62-762.901(9)

Form Title: Storage Tank Equipment

Registration Form

Effective Date: July 2019

Incorporated in Rule 62-762.851, F.A.C.

Storage Tank System Equipment Registration Form

Fill out completely

General Information

Company Name:

Contact Name:

Company Address:

City, State:

Zip:

E-mail:

Contact Number:

Product Name:

Product Type:

Model Number(s):

Rule(s) citation that registration is being requested within Chapter 62-761 (UST), and/or 62-762 (AST), F.A.C.:

Write a brief description of equipment registration request including product limitations:

Information Checklist (Choose Yes, No, or N/A - Not Applicable):

Yes No N/A

1. Third-party Certification by a Nationally Recognized Testing Laboratory? (Required)
2. Documentation of third-party evaluation that the equipment meets DEP Rules?
3. Documents included about the qualifications of the Nationally Recognized Testing Laboratory?
4. Technical information and drawings included?
5. Installation instructions included?
6. Annual Operability Testing Requirements (Rules 62-761.500, 62-762.501, & 62-762.502 F.A.C.)?
7. Integrity Testing Requirements (Rules 62-761.700, 62-762.701, & 62-762.702, F.A.C.)?
8. Compatible with fuel blends containing >10% ethanol or >20% biodiesel?
9. Has the product been approved or registered in other countries or states? (If so provide list)
10. Any requirements for company-certified installers or trainers?
11. Was this product(s) previously approved or registered by the Department? If yes, EQ-
12. Any changes or modifications to the equipment since the last submittal to DEP?

Document Information: Provide supporting documents indicated as "Yes" above including this form via email to Tanknotify@floridadep.gov, or documents can be sent to FDEP, Division of Waste Management, 2600 Blair Stone Road, MS 4560, Tallahassee, FL 32399.

Write a brief description of equipment installation and performance in the U.S.:

Equipment Registration Certification:

To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

Printed Name and Title

Signature (right click to sign)

Date

For Department Use Only:

Date Application Received:

Application complete:

Yes:

No: Re

EQ-

Date of complete or incomplete letter sent:

Date Equipment Requires Renewal:

Storage tank system equipment requires renewal every 5 years in accordance with subsection 62-762.851(2), F.A.C.

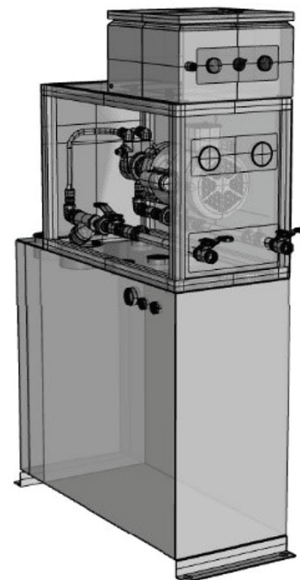
EARTHSAFE

FUEL SYSTEMS FOR CRITICAL POWER

M5_{DT}

M5DT: Day Tank UL142 Cubic with Containment

- UL 142 Cubic Steel Tank with Containment
- Accessories: Emer.And Standard Vent Caps, Direct Read Gauge, Inspect Port, Engine Suction Pipe and Return Fittings
- C1 Control Panel with High, Low, Leak Alarm, Output Relays, 4 Point Level and Leak Sensor
- Standard Configuration is Inlet Solenoid Valve for Remote Pump Refill. Optional 3 GPM Simplex or Duplex Suction Pump for Refill. Optional 7 GPM Return Flow Pump.



Tank Specification	UL 142 Steel Cubic DW Tank Coating Enamel (Epoxy Opt)
Controller	C1 Control Panel
Power (With Pump)	120 230 VAC, 1P, 50 60 Hz 0.33 – 1.5 HP (0.25–1.1KW)
Interface	Fill-Off-Jog Select Power ON Light Valve Open/Pump ON Light Level Alarm Light Audible Horn Silence Pushbutton
Output Relays (Dry Contact)	Remote Pump Start High and Low Level Leak Alarm Common Alarm
Standard Accessories	Emer and Standard Vent Caps Level Indicator, Gauge Port Inlet Solenoid Valve (1/2"25), Ball Valve, and Strainer 4 Point Level and Leak Sensor
Optional Accessories	C8 Control Analog Level 4 20mA

Pump Options	SP3 Simplex Supply 3 GPM DP3 Duplex Supply 3 GPM RP7 Return Pump 7 GPM
Pump Spec	Positive Displacement Viking H475 Series TEFC (IP 55) Motor
Other Equipment	Pumps 3 30 GPM Alternate Voltages and HP (KW) Fuel Heaters and Coolers Flow Sites, Sensors, and Meters Filters and Strainers Actuated Ball Valves Dual Inlet Control Valves Hand Pumps Fire Safety Valves Anti Siphon Valves Suction Foot Valves Press Vacuum Gauges/Sensors Temperature Sensors and Control

Model	GAL	WxLxH IN	Liter	W.L.H CM
M5DT.025	25	14x30x48	100	36.76.122
M5DT.050	50	14x30x60	200	36.76.152
M5DT.075	75	14x42x60	300	36.106.152
M5DT.100	100	14x54x60	400	36.137.152



Thank you for giving UL the opportunity to partner with you.

Inspections at your plant will be conducted by the Inspection Center in your vicinity. More information on Follow-up Service Inspections can be found at <https://www.ul.com/resources/follow-up-services-additional-resources>.

Please note, Follow-Up Procedure Revisions or Report Revisions do not include Authorization Pages, Indices, Section General, and/or Appendices unless revisions were required or requested.

Should you have any questions, after reviewing the material, or need to report any inaccuracies, please reach out to your UL representative or find UL contact details for your local Customer Service Department at <https://www.ul.com/about/locations>.

Please find attached the related material

For your convenience, the below describes the related updates:

MH66965-Vol1-AuthorizationPage
MH66965-vol1-Index
MH66965-vol1-AppendixStandardized
MH66965-20240424-Description
Illustration-6-Total

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File MH66965

Vol 1

Authorization Page 1

Issued: 2024-04-26

Revised: 2024-04-26

FOLLOW-UP SERVICE PROCEDURE
(TYPE L)

ABOVEGROUND FLAMMABLE-LIQUID TANKS
(EEEV, EEEV7)

Manufacturer:	SEE ADDENDUM FOR MANUFACTURER LOCATIONS
Applicant:	3017536 (Party Site) Earthsafe Systems, Inc 2300 WISCONSIN AVE STE 317 DOWNERS GROVE IL 60515 US
Listee/Classified Company:	3017536 (Party Site) SAME AS APPLICANT

Use of the Mark

This Follow-Up Service Procedure authorizes the above Manufacturer(s) to use the marking specified by UL LLC, or any authorized licensee of UL LLC, including the UL Contracting Party, only on products when constructed, tested and found to be in compliance with the requirements of this Follow-Up Service Procedure and in accordance with the terms of the applicable service agreement with UL Contracting Party. The UL Contracting Party for Follow-Up Services is listed in the addendum to this Follow-Up Service Procedure ("UL Contracting Party"). UL Contracting Party and UL LLC are referred to jointly herein as "UL."

It is the responsibility of the Applicant, Manufacturer(s), and Listee/Classified Company to make sure that only the products meeting the aforementioned requirements bear the authorized Marks of UL LLC, or any authorized licensee of UL LLC.

Additional Responsibilities

Additional responsibilities, duties and requirements for the Applicant and Manufacturers are defined under Additional Resources at the following website: <https://www.ul.com/fus>. Manufacturers without Internet access may obtain the current version of these documents from their local UL customer service representative or UL field representative. For assistance, or to obtain a paper copy of these documents or the Follow-Up Service Terms referenced below, please contact UL's Customer Service at <https://www.ul.com/aboutul/locations/>, select a location and enter your request, or call the number listed for that location.

Acceptance of Follow-Up Services

The Applicant and the specified Manufacturer(s) and any Listee/Classified Company in this Follow-Up Service Procedure must agree to receive Follow-Up Services from UL Contracting Party. If your applicable service agreement is a Global Services Agreement ("GSA"), the Applicant, the specified Manufacturer(s), and any Listee/Classified Company will be bound to a Service Agreement for Follow-Up Services upon the earliest by any Subscriber of a) use of the prescribed UL Mark, b) acceptance of the factory inspection, or c) payment of the Follow-Up Service fees. The Service Agreement incorporates such GSA, this Follow-Up Service Procedure and the Follow-Up Service Terms which can be accessed by clicking the following link: <https://www.ul.com/resources/contracts/follow-up-service-terms>. In all other events, Follow-Up Services will be governed by and incorporate the terms of your applicable service agreement and this Follow-Up Service Procedure.

Use and Ownership of the Follow-Up Service Procedure

This Follow-Up Service Procedure, and any subsequent revisions, is the property of UL and is not transferable. This Follow-Up Service Procedure contains confidential information for use only by the Applicant, the specified Manufacturer(s), and representatives of UL and is not to be used for any other purpose. It is provided to the Subscribers with the understanding

that it is not to be copied, either wholly or in part unless specifically allowed, and that it will be returned to UL, upon request.

Definition of Terms

Capitalized terms used but not defined herein have the meanings set forth in the GSA and the applicable Service Terms or any other applicable UL service agreement.

No Third Party Liability

UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages arising out of or in connection with the use or reliance upon this Follow-Up Service Procedure to anyone other than the above Manufacturer(s) as provided in the agreement between UL LLC or an authorized licensee of UL LLC, including UL Contracting Party, and the Manufacturer(s).

Certification Body

UL LLC has signed below solely in its capacity as the certification body to indicate that this Follow-Up Service Procedure fulfills the requirements for certification documentation issued by the certification body. The certification body's accreditation status for the applicable certification scheme and identification of the accreditation body can be found at <https://www.ul.com/resources/accreditation>.

Deborah Jennings-Conner
VP Regulatory Services
UL LLC

LOCATION

3017536 (Party Site)
Earthsafe Systems, Inc
2300 WISCONSIN AVE STE 317
DOWNERS GROVE IL 60515 US

Factory ID: None

UL Contracting Party for above site is: UL LLC

ModelsSectionReport Date

Single wall and secondary containment aboveground
rectangular tanks for flammable and combustible liquids

1

2024-04-24

**STANDARDIZED APPENDIX PAGES
SUBJECT 142**

for

**ABOVEGROUND FLAMMABLE LIQUIDS TANKS (EEEV)
and/or
ABOVEGROUND FLAMMABLE LIQUIDS TANKS CERTIFIED for CANADA (EEEV7)**

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STANDARDIZED APPENDIX PAGES

TABLE OF CONTENT

ABOVEGROUND FLAMMABLE LIQUIDS TANKS (EEEV) and/or
ABOVEGROUND FLAMMABLE LIQUIDS TANKS CERTIFIED for CANADA (EEEV7)

APPENDIX A - FIELD ENGINEER'S RESPONSIBILITIES AND INSTRUCTIONS FOR EXAMINATION OF PRODUCTS

I FIELD ENGINEER'S RESPONSIBILITIES1

II PROCEDURE IN THE EVENT OF NONCONFORMANCE1

III SPECIAL INSTRUCTIONS FOR STEEL TANKS1

APPENDIX B – INSTRUCTIONS FOR FIELD ENGINEER'S SAMPLE SELECTION

RESERVED FOR FUTURE USE1

APPENDIX C - INSTRUCTIONS FOR FOLLOW-UP TESTS AT UL

RESERVED FOR FUTURE USE1

APPENDIX D - MANUFACTURER'S RESPONSIBILITIES AND REQUIREMENTS FOR CONSTRUCTION CONSIDERATIONS AND PRODUCTION TESTS

I MANUFACTURER’S GENERAL RESPONSIBILITIES1

II MANUFACTURER’S SPECIAL RESPONSIBILITIES FOR STEEL TANKS1

III MANUFACTURER’S RESPONSIBILITIES FOR TANK PRODUCTION TESTS.....2

**ABOVEGROUND FLAMMABLE LIQUID TANKS (EEEV) and/or
ABOVEGROUND FLAMMABLE LIQUID TANKS CERTIFIED FOR CANADA (EEEV7)**

APPENDIX A – FIELD ENGINEER’S RESPONSIBILITIES AND INSTRUCTIONS FOR EXAMINATION OF PRODUCTS

I FIELD ENGINEER’S RESPONSIBILITIES

The Field Engineer’s general responsibilities, as part of the Follow-Up Services Procedure, are as noted in the published document titled, “UL Mark Surveillance Requirements”, and is available through UL’s internet site www.ul.com/fus. Manufacturers that do not have Internet access may obtain the current version of these requirements from their local UL Customer Service Representative or UL Field Engineer.

II PROCEDURE IN THE EVENT OF NONCONFORMANCE

When a product does not comply with the Follow-Up Service Procedure require that the manufacturer implement appropriate action as outlined in the “UL Variation Notice and Corrective Action Requirements” document.

III SPECIAL INSTRUCTIONS FOR STEEL TANKS

A. The Field Engineer shall pay particular attention to the critical items and/or perform special tasks related to inspection of steel tanks as described below:

1. Periodically witness (at least one shipment/year) manufacturer measurement and acceptance procedures of incoming steel plate and pipe stock as described in Appendix D – Steel Stock Verification.
2. Periodically witness (at least one test/year) manufacturer production tests on completely fabricated tanks as described in Appendix D - Tank Production Tests.
3. For cUL, ULC or cULus Marks Only - Periodically review (at least once/year) each manufacturer’s procedures and records for compliance with ULC-S601 Sec 4.3 and similar “welding” requirements in other ULC Standards covered under EEEV7.

The written welding procedure shall be 3rd party recognized (see examples below) to ensure that welders are trained and qualified, with records available for review to verify each welder’s compliance to it.

- a) American Welding Society (AWS) for AWS B2.1 Weld Procedure Specification and D Series Structural Codes,
- b) American Society of Mechanical Engineers (ASME) for ASME Sec 8 Pressure Vessels “U” or “H” Stamps,
- c) American Society of Mechanical Engineers (ASME) for ASME IX
- d) Canadian Welding Bureau (CWB) for CSA W47.1 Div 2 or 3,
- e) Alberta Boiler Safety Association (ABSA),
- f) Technical Safety Standards Association (TSSA),
- g) Mechanical Contractors Association of America,
- h) A PE who is Licensed for steel tank design, or
- i) Other equivalents as accepted by the Canadian Welding Bureau or Authority Having Jurisdiction

**ABOVEGROUND FLAMMABLE LIQUID TANKS (EEEV) and/or
ABOVEGROUND FLAMMABLE LIQUID TANKS CERTIFIED FOR CANADA (EEEV7)**

B. The Field Engineer shall apply the following general guidelines for accessories and components that are shipped attached to or separately from the tank:

- 1.** Tanks are permitted to have either UL Certified or unlisted accessories and/or components attached directly to, or shipped with the tank assembly as follows:
 - a)** Accessories and components that are covered by a Standard (such as tank supports, lift lugs and heating coils) shall comply with all applicable construction and/or performance requirements, shall be Procedure covered, and shall subject to inspections. See Sec Gen Table 3C for details.
 - b)** Accessories and components that are not covered by a Standard (such as most e-vent devices, pressure/vacuum vent devices, overfill prevention devices, leakage monitor, sensors, etc.), shall not be subject to inspection. See Sec Gen Table 3C for details.
 - c)** If tanks are used as a component in construction of a more complex end product (such as generators) at the same manufacturing location, only the tank shall be subject to inspection.
- 2.** Tanks shall be shipped from the manufacturer as a completely assembled unit with all procedure covered mechanical accessories and components attached, except as permitted below:
 - a)** If the complete assembly is too large and/or too heavy for transportation, major accessories (such as access devices, supports, or dikes) may be shipped disassembled from the base tank.
 - b)** If components (such as pressure/vacuum vents, emergency vents, overfill preventers, etc.) could be damaged during transport if assembled to the base tank, they may be shipped disassembled.
 - c)** Where accessories or components are shipped disassembled, assembly instructions, hardware and any other information supplied by the OEM shall be provided.
 - d)** Where access devices are covered under the Certification, ladder rungs and handrails shall be free of sharp objects, such as burrs, and walking surfaces shall be free of trip hazards, such as uneven walkway sections.

**ABOVEGROUND FLAMMABLE LIQUID TANKS (EEEV) and/or
ABOVEGROUND FLAMMABLE LIQUID TANKS CERTIFIED FOR CANADA (EEEV7)**

APPENDIX B – INSTRUCTIONS FOR FIELD ENGINEER'S SAMPLE SELECTION

RESERVED FOR FUTURE USE

**ABOVEGROUND FLAMMABLE LIQUID TANKS (EEEV) and/or
ABOVEGROUND FLAMMABLE LIQUID TANKS CERTIFIED FOR CANADA (EEEV7)**

APPENDIX C – INSTRUCTIONS FOR FOLLOW-UP TESTS AT UL

RESERVED FOR FUTURE USE

**ABOVEGROUND FLAMMABLE LIQUID TANKS (EEEV) and/or
ABOVEGROUND FLAMMABLE LIQUID TANKS CERTIFIED FOR CANADA (EEEV7)**

**APPENDIX D - MANUFACTURER'S RESPONSIBILITIES AND REQUIREMENTS FOR CONSTRUCTION
CONSIDERATIONS AND PRODUCTION TESTS**

The Follow-Up Services Procedure covering these tanks is loaned to the manufacturer and constitutes the basis on which these tanks are judged for continued Certification compliance. Some construction, marking/instruction and other requirements may reference Standards applicable for the specific tank type, as identified in the Section General or each Descriptive Section.

I MANUFACTURER'S GENRAL RESPONSIBILITIES

The Manufacturer's general responsibilities, as part of the Follow-Up Services Procedure, are as noted in the published document titled, "UL Mark Surveillance Requirements", and is available through UL's internet site www.ul.com/fus. Manufacturers that do not have Internet access may obtain the current version of these requirements from their local UL Customer Service Representative or UL Field Engineer.

II MANUFACTURER'S SPECIAL RESPONSIBILITIES FOR STEEL TANKS

A. Steel Stock Verification – All base stock steel used for the fabrication of certified tanks shall be verified to comply with the material requirements of UL 142 Sec 5.1-5.3 (for UL Marks), ULC-S601 Sec 4.2.1-4.2.2 (for cUL or ULC Marks) and/or other specific steel tank standards referenced in each description for the tank type if applicable. Steel Mill Specifications, Bill of Materials or other proof of compliance shall be kept with records for review by the UL Field Engineer.

B. Steel Thickness Measurement – Acceptance of all steel stocks in a lot for compliance with the minimum thickness requirements for specific tank types and sizes in referenced Standards before welding or coating shall use measurement methods per UL 142 Sec 5.4 (for UL Marks), and/or ULC-S601 Sec 4.2.3-4.2.4, or similar methods in other ULC Standards covered under EEEV7 (for cUL or ULC Marks) with a calibrated micrometer, caliper, or other instrument accurate to at least 0.0005 in or 0.0125 mm.

C. The above steel stock verification and thickness determination method shall also be used for acceptance of flanges, pipes, angles, channels or other pre-fabricated complex shapes or forms, or a calibrated micrometer, caliper, or other instrument accurate to at least 0.0005 in or 0.0125 mm.

D. Where access devices are covered under the Certification, ladder rungs and handrails shall be free of sharp objects, such as burrs, and walking surfaces shall be free of trip hazards, such as uneven walkway sections.

E. For cULus Dual Certifications, the most stringent requirement referenced in the applicable UL or ULC Standard shall be applied.

F. MANUFACTURER'S TECHNICAL REPRESENTATIVE (MTR)- Each Manufacturer shall designate and maintain at least one representative that meets the criteria of a Manufacturers Technical Representative. To qualify, this individual shall successfully obtain at least 80% on the UL142 Aboveground Tank MTR Exam located on the MyAbsorb website <https://www.ul.com/LMS>. The "MTR" will demonstrate knowledge of UL requirements and be actively involved in the manufacturer's assessment process to verify compliance with UL requirements. Continued compliance to this requirement will be verified by the UL Field Engineer. Failure to maintain an "MTR" will render the manufacturer ineligible to label Aboveground Flammable Liquid Tanks and may result in UL Variation Notice and Corrective Action Requirements: UL/C-UL/ULC Mark Follow-Up Services with UL requirements which can be found under Additional Resources at www.ul.com/fus.

**ABOVEGROUND FLAMMABLE LIQUID TANKS (EEEV) and/or
ABOVEGROUND FLAMMABLE LIQUID TANKS CERTIFIED FOR CANADA (EEEV7)**

III MANUFACTURER'S RESPONSIBILITIES FOR TANK PRODUCTION TESTS

A. Tank Production Tests - Conduct all Tank Production Tests in accordance with the referenced test method and basis of acceptability as identified in Table A before painting and application of the UL Mark or other required markings. General information for the test methods are specified below:

TABLE A

Sec #	Tank Type	Freq	Production Test	Test Method Reference
1	Primary (Single Wall) Tank	100%	Tank Leakage	UL 142 Sec 49 and/or ULC-S601 Sec 9 (*)
2	Secondary (Double Wall or Integrally Contained) Tank	100%	Tank Leakage	UL 142 Sec 49 and/or ULC-S601 Sec 9 (*)
3	Diked (Contained Tank Assembly) Tank	100%	Dike Leakage	UL 142 Sec 50 and/or ULC-S653 Sec 7 (*)
All	Any Tank Type with Supports or Walking & Working Surfaces	100%	Alignment of Structural Members	UL142 Sec 50A, but NA for ULC or cUL Mark Tanks
(*) For the cULus Mark – the most stringent requirements shall be applied.				

1. Any pressure or vacuum supply source shall have manual or automatic control at the tank, and a safety relief device. The pressure or vacuum shall be determined on the tank by a calibrated gauge with accuracy of +/- 2.0 % or better.
2. Unless other alternatives are allowed by the specific Test Method Referenced, the Leakage Test shall be conducted with either a) positive air pressure and a soap/water solution applied to all welded tank joints, welded tank accessories, seams and gaskets, or b) filled with water and pressurized.
3. Where vacuum testing is allowed as an alternate interstitial space leak detection, but method details are unspecified, no loss of vacuum after 30 min @ 5.0 in Hg (16.9 kPa) or 15 min @ 25.0 in Hg (84.7 kPa) for every 10 cu ft of interstitial volume shall be applied.
4. All pressure tests shall be conducted with a calibrated pressure gauge with scale range from 0 to not more than 30 psi (200 kPa) and scale increments of not more than 1.0 psi (5 kPa).
5. All vacuum tests shall be conducted with a calibrated vacuum gauge with scale range from 0 to not less than 30 in Hg (100 kPa) and scale increments of not more than 1.0 in Hg (2.0 kPa).
6. Where pressure or vacuum testing of dike tanks is not possible, a Hydro Load Test where the dike is filled with water to maximum capacity while inspecting joints for leakage is an equivalent.
7. For UL142 Tanks, the leak test pressures (gauge) ranges for the following tank shapes shall be:
 - a) Horizontal Cylindrical Tanks - not less than 3 psi (21 kPa) or more than 5 psi (35 kPa)
 - b) Vertical Cylindrical Tanks - not to be less than 1-1/2 psi (10 kPa) nor more than 2-1/2 psi (17 kPa) or a pressure above 1-1/2 psi which first causes visible deformation of the tank.
 - c) Rectangular Tanks - not to be less than 1-1/2 psi (10 kPa) nor more than 3 psi (21 kPa) or a pressure above 1-1/2 psi which first causes visible deformation of the tank.

File MH66965
Project 4790792202

April 24, 2024

REPORT

on

ABOVEGROUND FLAMMABLE-LIQUID TANKS

EARTHSAFE SYSTEMS, INC.
DOWNERS GROVE, IL

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PRODUCT COVERED:

USL, CNL - Aboveground Tanks and Secondary Containment Aboveground Tanks for Flammable Liquids.

COMPLIANCE:

USL indicates the tanks described herein have been investigated to, and found in compliance with, the current requirements of UL 142, Steel Aboveground Tanks for Flammable and Combustible Liquids, 10th Edition with revisions through January 21, 2021.

CNL indicates the tanks described herein have been investigated to, and found in compliance with, the current requirements of CAN/ULC-S601-14, Standard for Shop Fabricated Steel Aboveground Tanks for Flammable and Combustible Liquids, 5th Edition with revisions through October 20, 2021.

GENERAL:

The products covered are single wall and secondary containment rectangular steel tanks for storage of flammable and combustible liquids at atmospheric pressure in aboveground stationary installations.

The tanks are intended for stationary installation in accordance with the Standard for Flammable and Combustible Liquids Code of the National Fire Protection Association, NFPA No. 30; the National fire Code of Canada, Part 4; and CSA B139, Installation Code for Oil Burning Equipment.

The tanks are fabricated, inspected, and tested for leakage before shipment from the factory as completely assembled vessels.

REQUIREMENTS:

Details not specifically covered in the descriptive section of this Follow-Up Service Procedure shall conform with the current edition of the Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids, UL 142 and/or CAN/ULC-S601-14, Standard for Shop Fabricated Steel Aboveground Tanks for Flammable and Combustible Liquids.

TESTS TO BE CONDUCTED BY THE MANUFACTURER:

Shall be as specified in the appropriate Standard.

MARKING:

Shall be as specified in the Standard.

Method of marking shall be in accordance with the Standard, UL142. If a UL Component Recognized pressure sensitive marking and labeling system label (PGDQ2) is used, it shall be suitable for use when exposed outdoors and to occasional exposure to gasoline when affixed to the appropriate substrate. All tanks provided with the US Listing Mark shall be marked with the following:

1. The manufacturer's name.
2. The following statements:
 - A. "This Tank Is Intended For Stationary Installation Only."
 - B. "This Tank Requires Emergency Relief Venting. Capacity Not Less Than (+) CFH Based on Installation within One Foot of the Tank Top"

(+) - See Table 8.1 of UL 142.
 - C. On secondary containment tanks only, "The Annular Space Requires Emergency Relief Venting. Capacity Not Less Than (+) Cubic Feet Per Hour"

(+) - See Table 8.1 of UL 142.
 - D. On secondary containment tanks only, "Pressurize Primary Tank When Pressure Testing Annular Space"
 - E. Do Not Exceed 3 psig Test Pressure", or equivalent.
3. The emergency vent openings shall be identified.
4. The US and/or Canadian Listing Mark of UL.

MARKINGS (Canadian):

The following markings shall be engraved or stamped on a nameplate affixed to each tank bearing the Canadian Listing Mark. The nameplate and attachment methods are described in ULC-S601-14, Section 11, Figure 18 or permanently affixed to the tank in a manner that will destroy the nameplate if removed from the tank. Note: some Canadian authorities may require markings in both English and French

1. The tank manufacturer's name.
2. The year of manufacture.
3. Primary tank/compartment nominal capacity adjacent to each fill fitting
4. Maximum Operating Pressure, 7 kPa.
5. Maximum Test Pressure, kPa (see Table 6 of ULC-S601-14 for pressure value)
6. Maximum Operating Vacuum, 300 Pa
7. Required capacity of venting (normal + emergency), m³/min.
8. The Standard Number CAN/ULC-S601-14.
9. "WITH INTEGRAL SPILL CONTAINMENT", if provided with spill containment.
10. Do Not Exceed 3 psig Test Pressure", or equivalent.

Each Tank shall be clearly marked with materials that are resistant to the environment to which the tank is intended to be exposed with the following information in letters at least 10 mm in height, located as indicated:

1. Located adjacent to each lifting lug on tanks larger than 5000 L:

Empty Weight ____ Kg. (____ Tons).

2. Located adjacent to each normal vent:

NORMAL VENT(S) SHALL BE INSTALLED PRIOR TO USE

DO NOT PLUG OR USE FOR ALTERNATE PIPING

3. Located adjacent to each emergency vent:

EMERGENCY VENT(S) SHALL BE INSTALLED PRIOR TO USE

DO NOT PLUG OR USE FOR ALTERNATE PIPING

4. For tanks having normal and emergency venting combined with fill opening as allowed by Clause 4.6.3 of ULC-S-601-14:

DO NOT TIGHT FILL AND DO NOT INSTALL DROP TUBE

For all Secondary Containment Tanks, the tanks shall also include:

"CONSULT WITH AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION"

For all Secondary Containment Tanks (Double Wall Tanks), the tanks shall also include:

- A) Adjacent to secondary emergency vents: "EMERGENCY VENTING - DO NOT REMOVE"
- B) Adjacent to vacuum monitor device: "SECONDARY CONTAINMENT VACUUM MONITOR - DO NOT OPEN VALVE OR REMOVE. A VACUUM GAUGE READING BELOW 42kPA INDICATES A PROBLEM. CONTACT THE TANK MANUFACTURER"

CONSTRUCTION DETAILS:

General - Single wall and secondary containment rectangular tanks shall be constructed in accordance with the applicable requirements of the current edition of the Standards and as described in ILLS. 1 - 3 for single wall tank, and ILLS. 4 -6 and 3 for secondary containment tanks. Tanks shall have maximum width, height and length not exceeding that specified in the ILLS. provided they are fabricated using 3/16 in. minimum thick carbon steel and the maximum stiffener spans are as shown in the ILLS.

Material and Thickness - The steel shall be in accordance with the standards. The thickness of the tank wall and stiffeners shall not be less than 3/16 in.

Joints and Seams - Joints and seams shall be in accordance with the ILLS. and standards.

Provisions for Normal Venting - The single wall tank and the primary portion of the secondary containment tank shall be provided with a normal vent opening sized and located in accordance with the Standard. The normal vent opening shall be at least the size as the fill and withdrawal openings.

Provisions for Emergency Venting - The single wall tanks and the primary and annular space of the secondary containment tanks shall be provided with an emergency vent opening sized in accordance with the Standard.

Additional Openings - Separate openings in the tanks shall be provided for connection of fill, withdraw and other purposes, and shall be in accordance with the Standard. The size, quantity and location of the openings may vary from that shown in the ILLS.

Lift Lugs - 4 Model FLMM lift lugs form Global Tank Components (EGVV2.MH46387) are welded to the tank top using minimum 5 in. long welded on each side of each lug. See ILL. 3 for the lug details.

The following Page(s) are related to Illustration-1. The next supplement, if applicable, will be identified with a new Supplement Page Heading

12 11 10 9 8 7 6 5 4 3 2 1

NOTES:
1) USE LIFTING LUG FLIM
FROM GTC AT ALL 4 CORNERS

NOTCH TOP SUPPORT SO VERTICAL SUPPORT SLIDES INTO IT

NOTE THAT FLAT FACE IS FACING OUTWARDS ON THE END SUPPORTS
SO THAT THE VERTICAL SUPPORTS ON THE END PLATE CAN CONNECT

CUT 3" ANGLE PIECES
TO MATCH THE HEIGHT
AND WIDTH OF INSIDE
THE TANK

1/8" ALL AROUND GUSSET X4

ANGLE IS MITERED AT
BOTTOM CORNERS

PLUG WELDS

INSET END WALLS 0.25"
FROM THE END OF THE
SIDE WALLS

PLACE SIDE WALLS 0.25"
FROM THE EDGE OF THE
BASE PLATE

1/8" ALL AROUND EACH LIFTING LUG

1/8" every 6"

1/8" every 6"

1/8" every 6"

Plug Weld at Plugs

PROPERTY AND COMPOSITION				EARTHSAFES SYSTEMS			
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ITEM NO.	REV	DATE	BY	1,500 GALLON TANK			
1500-001	A2	02/20/24	JAN	ESD-JUL-1500-1			

The following Page(s) are related to Illustration-2. The next supplement, if applicable, will be identified with a new Supplement Page Heading

4

3

2

1

ITEM NO	DESCRIPTION	QTY	LENGTH (IN)	WIDTH (IN)	NOTES
1	BASE PLATE	1	96.25	61.75	
2	SIDE PLATE	2	95.375	60	
3	END PLATE	2	60.875	60	
4	TOP PLATE	1	96.25	61.75	SEE FIG. 1 FOR CUTOUTS

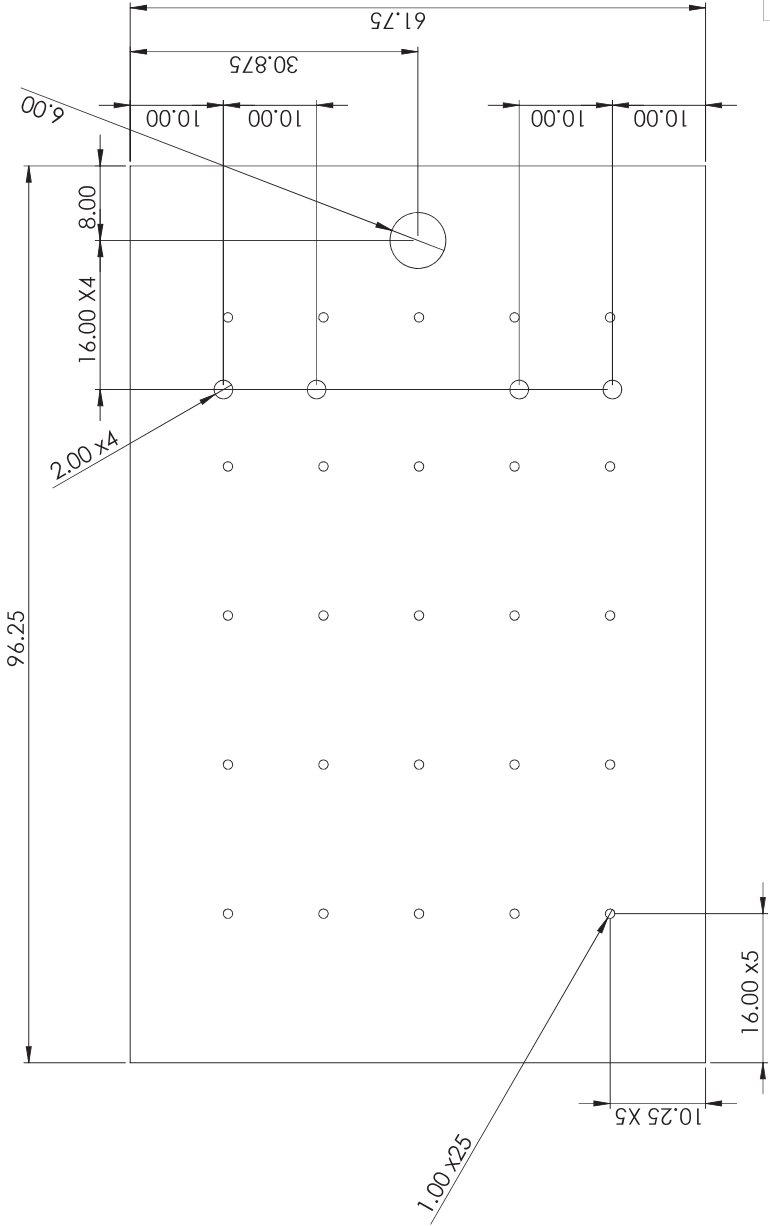


FIG. 1

EARTHSAFE SYSTEMS	
TITLE:	
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF EARTHSAFE SYSTEMS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF EARTHSAFE SYSTEMS IS PROHIBITED.	
SIZE	DWG. NO.
B	1500 gal inner plate list
REV	
SCALE: 1:20	WEIGHT: 1
SHEET 1 OF 1	

3

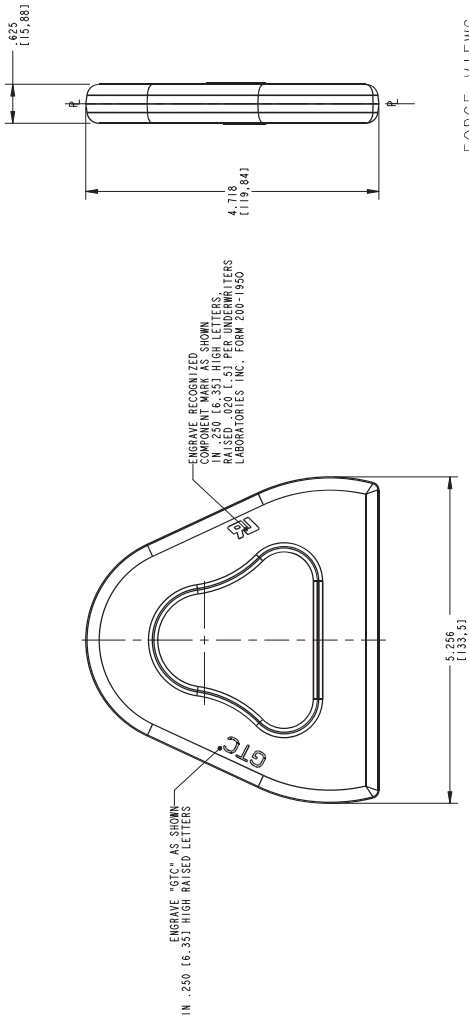
2

1

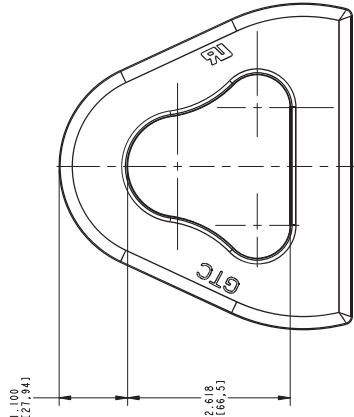
The following Page(s) are related to Illustration-3. The next supplement, if applicable, will be identified with a new Supplement Page Heading

8 7 6 5 4 3 2 1

CURRENT REVISION LEVEL	
B	01-04-19 UPDATE MATERIAL RANGE TO BE 1018-1022
C	09-25-19 ADD "RU" LOGO



FORGE VIEWS



PUNCH VIEWS

SECTION A-A

NOTES: (UNLESS OTHERWISE SPECIFIED)

-ACTUAL MISMATCH
MAX. .015 (.381)
TYP. .010 (.254)

-FLASH EXTENSION
MAX. .015 (.381)

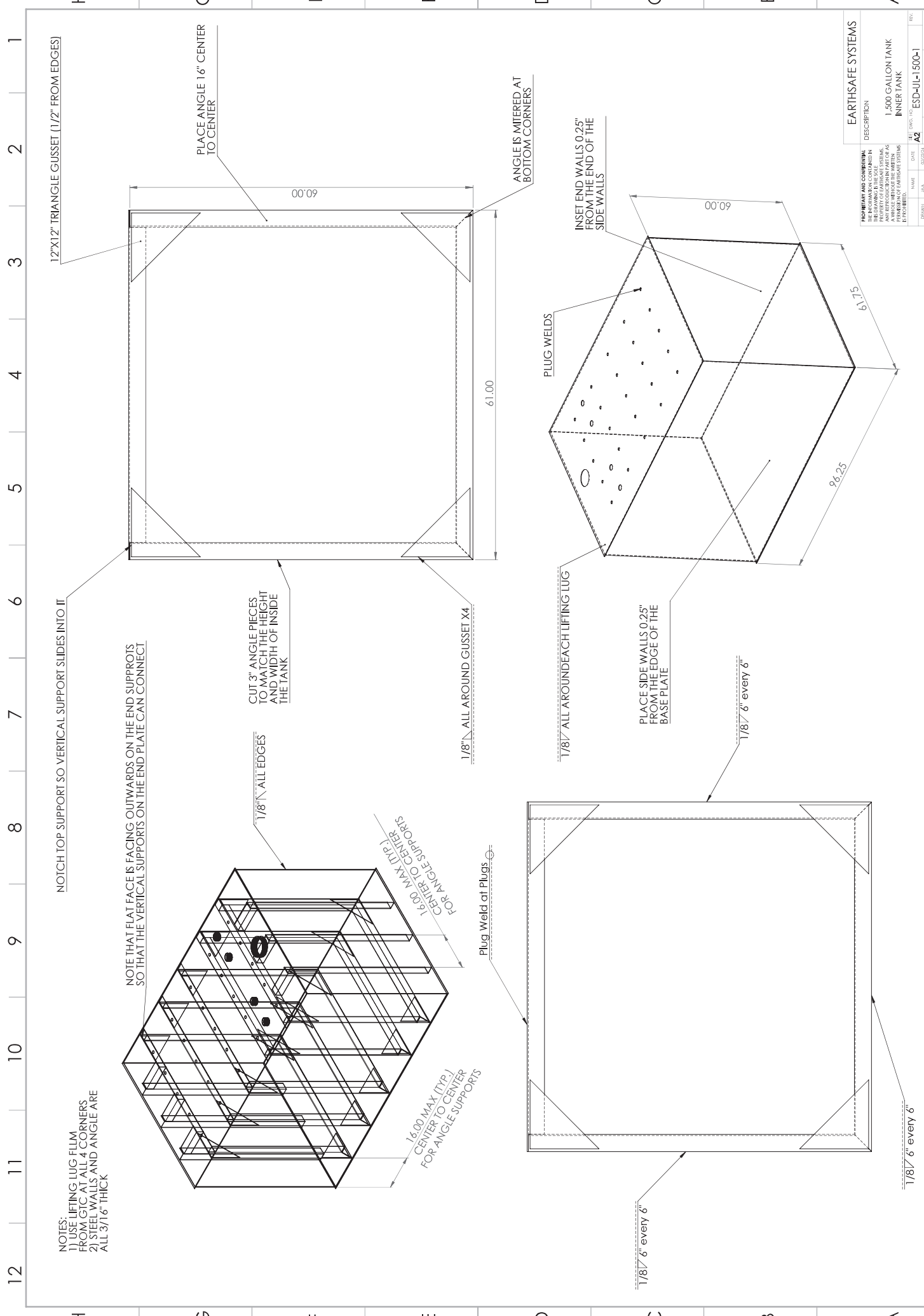
-FORGING TOLERANCES:
GENERAL DIMENSIONAL TOLERANCE .030 (.81)
DRAFT: 75°

-MATERIAL: 1018-1022 MUST COMPLY WITH ASTM A105 CHEMICAL REQUIREMENTS,
INCLUDING S4 SUPPLEMENT FOR CARBON EQUIVALENT.

TOLERANCES: SEE NOTES	GLOBAL TANK COMPONENTS	
	PART NUMBER:	FLM
	PART NAME:	LIFTING LUG
	MATERIAL:	SEE NOTES
	DRAWN:	12-07-18
	DRAWN BY:	DWE

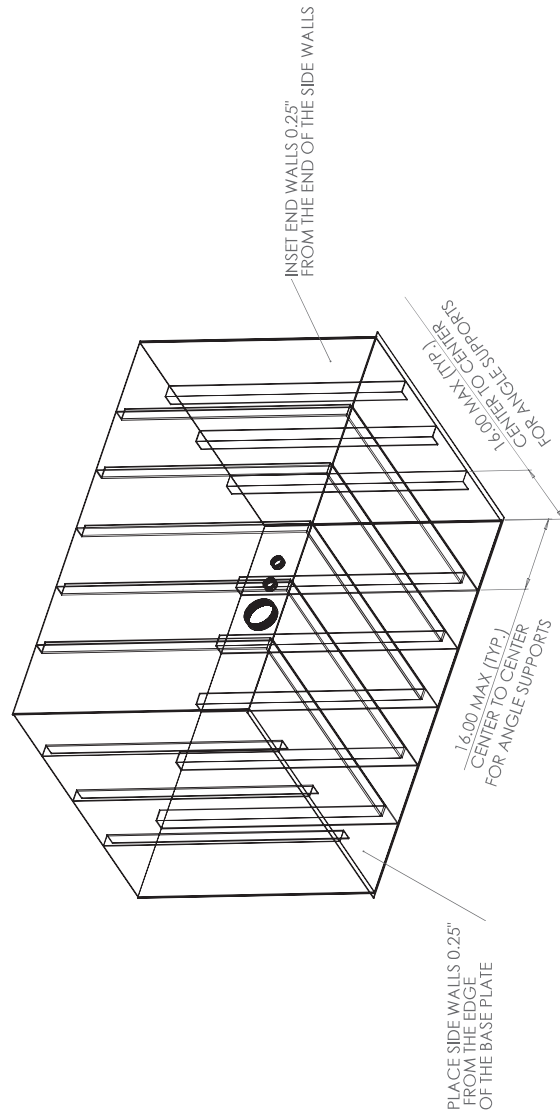
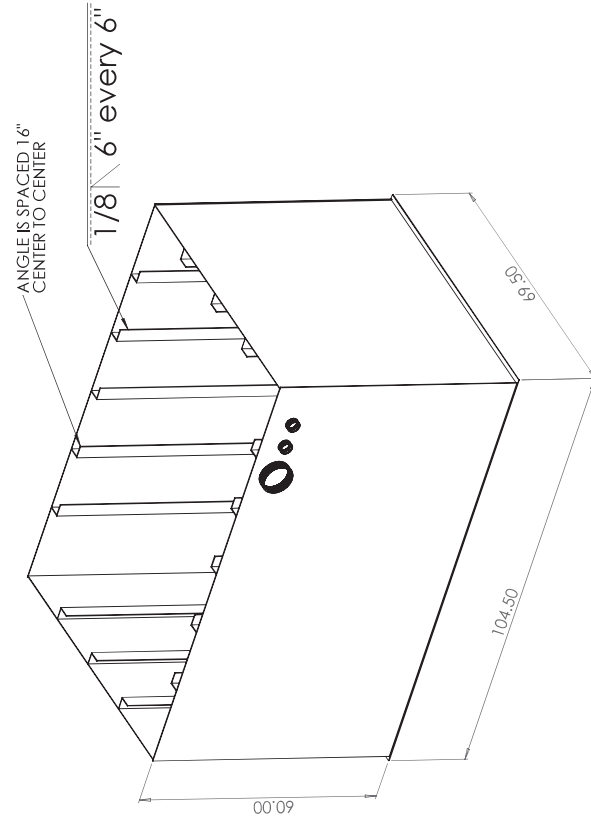
8 7 6 5 4 3 2 1

The following Page(s) are related to Illustration-4. The next supplement, if applicable, will be identified with a new Supplement Page Heading



PROPERTY AND COMPLETION				EARTHSAFES SYSTEMS			
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PROJECT NO.	NAME	DATE	REV	1,500 GALLON TANK INNER TANK			
000001	JAA	02/25/24	A2	ESD-JUL-1500-1			
				REVISION			
				DATE			

The following Page(s) are related to Illustration-5. The next supplement, if applicable, will be identified with a new Supplement Page Heading



NOTES:
1) PLATE IS 3/16" THICK CARBON STEEL
2) ANGLE IS 3" WIDE BY 3/16" THICK

CUT 3" ANGLE PIECES TO MATCH
HEIGHT AND WIDTH OF TANK

ANGLE IS MITERED AT CORNERS

EARTHSAFE SYSTEMS	
PROHIBITION AND CAUTION: THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF EARTHSAFE SYSTEMS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF EARTHSAFE SYSTEMS IS PROHIBITED.	DESCRIPTION 1,500 GALLON TANK - SECONDARY TANK
DRAWN BY NAME DATE	1441 CWS, INC. A2 ESD-JUL-1500-2 REV.

The following Page(s) are related to Illustration-6. The next supplement, if applicable, will be identified with a new Supplement Page Heading

12 11 10 9 8 7 6 5 4 3 2 1

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C

B

B

A

A

(4) LIFTING LUGS ON CORNERS
1" INSET FROM THE ENDS

(1) 6" COUPLING ON INNER TANK

(4) 2" COUPLINGS ON INNER TANK

INSERT INNER TANK
INSIDE THE OUTER TANK

WITH 4" WIDE BY 3/16" THICK
CARBON STEEL BAR, WELD IN
A COLLAR AROUND THE
OUTER TANK

1/8" ALL THE WAY AROUND

(1) 6" COUPLING ON OUTER TANK
(EXTEND AN ELBOW UPWARDS FOR VENT
ATTACHMENT IF NEEDED)

(2) 2" COUPLINGS ON OUTER TANK

NOTES:
1) ALL STEEL ANGLE AND PLATE IS
3/16" THICK
2) TOTAL ASSEMBLY WEIGHT IS APPROXIMATELY
4,500 POUNDS

EARTHSAFE SYSTEMS			
PROPERTY AND COMPOSITION		DESCRIPTION	
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DESIGNER	JAA	DATE	06/16/20
DRAWN	JAA	DATE	06/16/20
REV	A2	REV	ESD-JUL-1500-3