

900 American Rd

DEF Tank

852

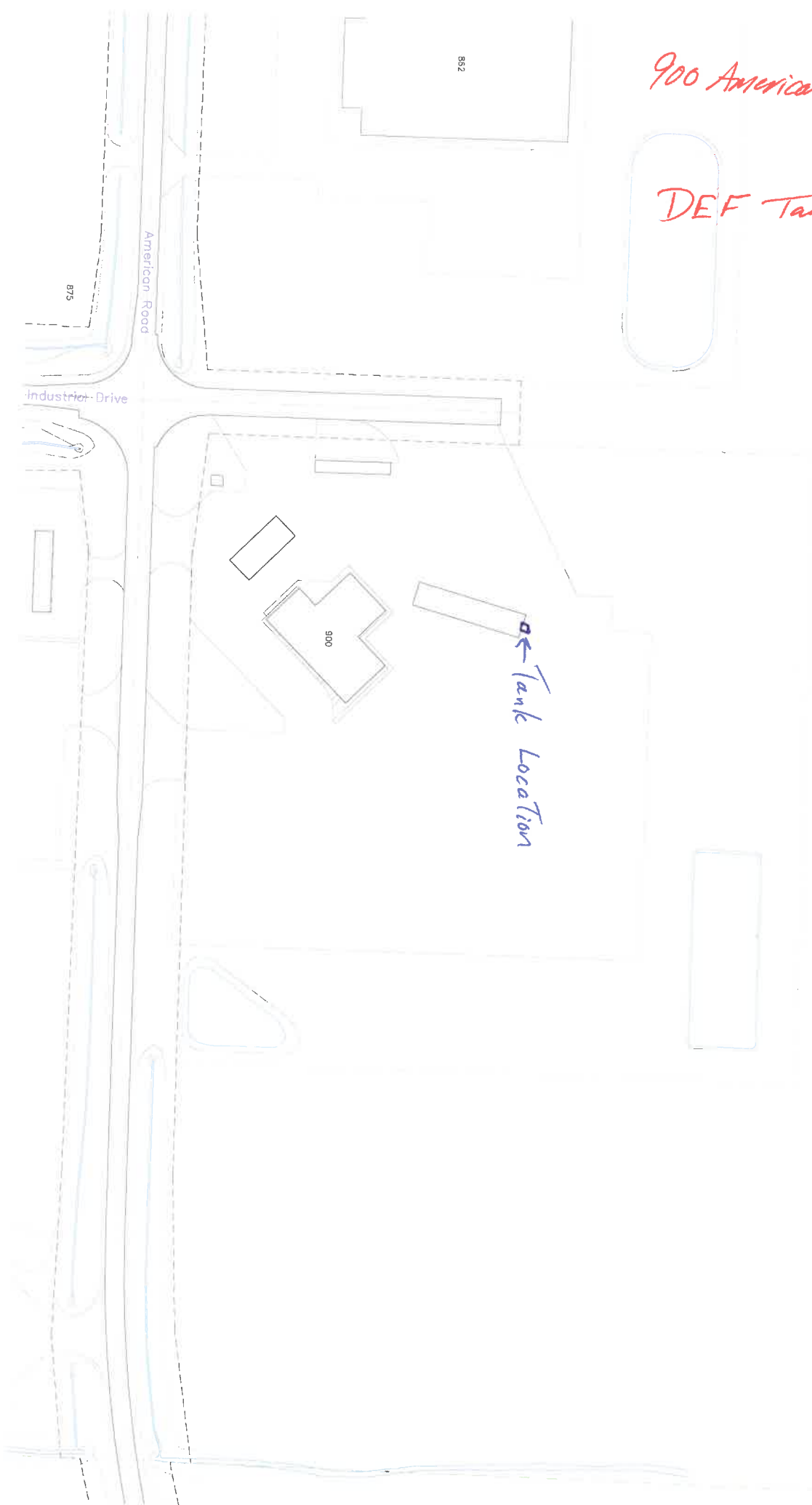
American Road

875

Industrial Drive

900

← Tank Location





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COMMERCIAL USERS

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- KleeBlue Product Catalog
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- KleeBlue Mini-Bulk Tanks
- KleeBlue Dispensers
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- 400 Gallon Mini-Bulk Schematic
- Special Offers

Commercial Complete Package

The Commercial Dispenser Package is a turnkey unit that combines the KleeBlue Retail Mini-Bulk storage tank and the KleeBlue Commercial Dispenser. They are preassembled and fully tested, providing for a quick and easy on-site installation.

- Model KB-2060 400 Gallon tank with KB-1060 dispenser
- Model KB-2070 1000 Gallon tank with KB-1060 dispenser

COMMERCIAL DEF DISPENSER

The KleeBlue model KB-1060 Commercial dispenser is designed for commercial user locations that are looking for economical and solid performance.

The KB-1060 offers a Tuthill polypropylene meter, polypropylene Cim-tek 1-micron cartridge filter, heater, 12' Goodyear DEF hose with polypropylene nozzle, enclosed in an industrial grade, powder coated and insulated cabinet. This dispenser, when coupled with the KleeBlue Mini-Bulk storage tank, delivers a flow rate of 10 GPM.

- Industrial grade, insulated cabinet with heater
- Powder coated finish-white
- Tuthill polypropylene meter with liquid crystal display
- Goodyear DEF hose 12'
- Cim-Tek polypropylene 1-micron cartridge filter
- Operational cutoff when dispenser reaches 20° F

Options:

- DEF Stainless Steel nozzle
- Dispenser color
- Length of DEF delivery hose

COMMERCIAL 400 GALLON MINI-BULK TANK

- Over 400 gallons usable storage capacity
- UV protected exterior polyethylene tank
- Primary tank constructed from virgin grade polyethylene
- Impact resistant
- Totally enclosed R-16 value insulated tank system
- Redundant heating system with automatic thermostat
- Submersible pumping system, producing 10 GPM
- Krueger Sentry Gauge with LED At-A-Glance console
- Overfill protection
- Completely pre-piped and wired
- Mobile design and Forklift accessible
- Secondary containment
- High security tamper proof design
- 38" width x 10' length x 60" height
- Pressure vacuum vents
- Standard light blue color
- 2" fill port with stainless locking valve located in sealed fill box

Options:

- Fill drybreak connection
- Pneumercator tank level monitor
- Tank monitoring communication by Ethernet, land line or cell
- Custom color choices available-minimum 40 tanks

COMMERCIAL 1000 GALLON MINI-BULK TANK

- Over 1000 gallons usable storage capacity
- UV protected exterior polyethylene tank
- Primary tank constructed from virgin grade polyethylene
- Impact resistant
- Totally enclosed R-16 value insulated tank system
- Redundant heating system with automatic thermostat
- Submersible pumping system, producing 10 GPM
- Krueger Sentry Gauge with LED At-A-Glance console
- Overfill protection
- Completely pre-piped and wired
- Mobile design and Forklift accessible
- Secondary containment
- High security tamper proof design
- 44" width x 10' length x 101" high
- Pressure vacuum vents
- Standard light blue color
- 2" fill port with stainless locking valve located in sealed fill box

Options:

- Fill drybreak connection
- Pneumercator tank level monitor
- Tank monitoring communication by Ethernet, land line or cell
- Custom color choices available-minimum 40 tanks

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KleerBlue™

"Your Total DEF Storage Solution"



Separation By Design (SBD) has been a leader in the design and manufacture of custom fuel systems, including gasoline, diesel, biodiesel and ethanol transloading, storage and dispensing facilities located throughout the United States. Other product offerings include a patented aboveground oil/water separator and aviation/marine fueling dispenser.

To meet the EPA 2010 NOx emission mandate, most large diesel engine vehicles will use Diesel Exhaust Fluid (DEF). DEF is injected into the exhaust stream to reduce the NOx emissions in the engine's exhaust. Since DEF has both low and high temperature restraints, plus if not completely held to the purity standards required by ISO 22241, the product can harm the Selective Catalyst Reduction (SCR) exhaust system components utilized on the vehicles. SBD created a complete turn-key storage and handling system featuring a rotomolded ultra-pure virgin polyethylene mini-bulk tank specifically engineered to meet the critical operating and design parameters. The KleerBlue system includes a single wall polyethylene primary tank within a double wall polyethylene containment shell that has UV5 protection, a R16 insulated rating, is impact resistant, corrosion proof and maintenance free, as well as efficiently heated.

Through our extensive design background in fuel systems, SBD also developed a complete series of electronic dispensers that can be stand alone or attached to our mini-bulk tanks. The KleerBlue series of dispensers can be utilized for Retail, Fleet or Commercial requirements. Using Triangle Microsystems' VRR-100 electronic display, originally developed to convert mechanical pumps to emulate communication just like other new electronic dispensers, the KleerBlue dispensers can provide sales and totals information to most any 3rd party point of sale systems as well as provide a pulse output option allowing them to connect to most fuel management systems. The Retail and Fleet dispensers come complete with high quality steel flow meters, industrial grade reel, solenoid valve, filter, insulation, industrial gauge powder coated cabinets and a redundant heating system.

All the KleerBlue dispensers can also be used remotely with a tote or an aboveground or underground DEF storage tank.

Besides mini-bulk storage tanks and electronic dispensers, KleerBlue products and capabilities also include:

- Drum & tote dispensing systems
- Tote storage systems
- Bulk storage, filling & dispensing systems
- Inside & warm climate solutions
- Blending systems
- Dilution systems
- Delivery & transloading systems
- Custom design

All KleerBlue™ products comply with ISO 22241 standards for the proper handling of DEF.

Our customers include retail truck stops, commercial and private fleets, transit authorities, school bus fleets, municipalities, construction and agricultural.

SBD can custom design a DEF handling, storage and dispensing system to meet your needs.



921 Keck Ave | Evansville, IN 47711 | (800) 320-2122 | www.kleerbluesolutions.com

SBD KleerBlue Mini-Bulk 22012



Separation By Design has brought together a complete line of products for handling, storing and dispensing Diesel Exhaust Fluid (DEF). The KleerBlue™ triple wall mini-bulk storage tank system uses a unique proven and reliable design to store and protect DEF whether located in line with an existing diesel fueling island or remote from the diesel fueling island.

Capacity Dimensions w/ Lane Oriented KB Dispenser

Capacity	Dimensions	Dimensions w/ Lane Oriented KB Dispenser
400 Gallon	38" wide x 144" long x 82" high	38" wide x 172" long x 88" high
1000 Gallon	44" wide x 144" long x 108" high	44" wide x 172" long x 108" high
2000 Gallon	108" wide x 144" long x 108" high	108" wide x 172" long x 108" high

Standard Features

- Single wall polyethylene primary tank
- Double wall polyethylene containment shell; UV8 protected, R16 insulated, impact resistant, corrosion proof and maintenance free
- Environmentally safe triple wall containment
- Stainless steel hardware
- Efficient 400 watt (400 gallon, tank pad heaters) and 900 watt (1000 gallon, immersion heaters) redundant heating system performs to -40° F
- Pneumatorc TMS 1000 DEF automatic tank gauging system with tank end mounted weatherproof/corrosion proof enclosure displaying product volume and temperature, high and low product alarm, high and low heater control, audible alarm for overfill, modem/ethernet optional

Options

- Polyethylene sump for mounting KleerBlue fleet/retail dispenser lane oriented dispenser island
- Industrial grade, powder coated transition sump for mounting KleerBlue fleet/retail dispenser island oriented or attaching Bernett, Gilbarco or Wayne DEF dispenser
- Remote site location capability with tank and cover for piping and electric
- Deduction for heating components if not required
- Interstitial leak detection
- Economical digital and mechanical tank gauging systems
- Audible overfill alarm
- CPV, VeeStar Root or other DEF compatible ATC probe
- Custom color choices including granite, minimum quantity required
- Multiple submersible capability
- Anchor brackets
- Graphic design and graphics for advertising panels
- Custom design support available



Pneumatorc Volume Display



Pneumatorc Temperature Display

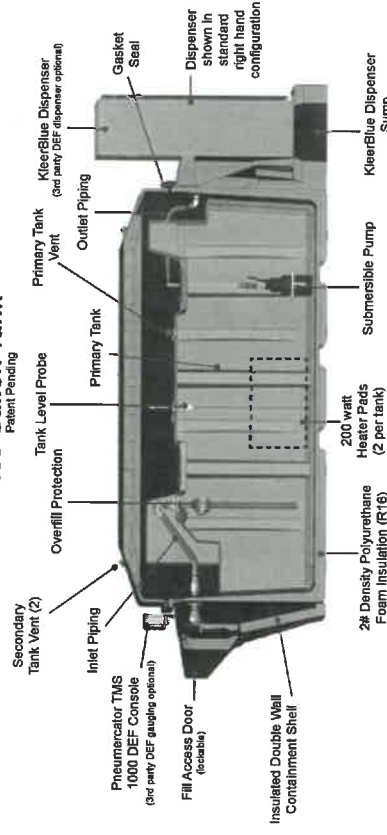


Fill Access Door

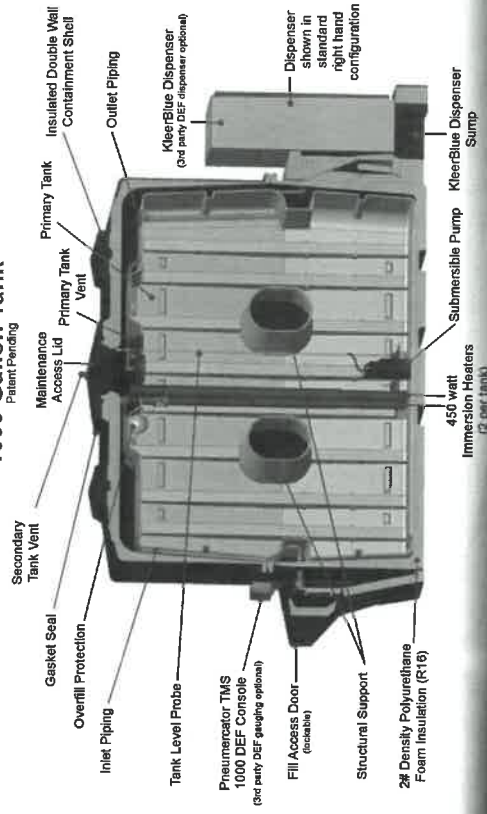
Triple Wall Containment



400 Gallon Tank

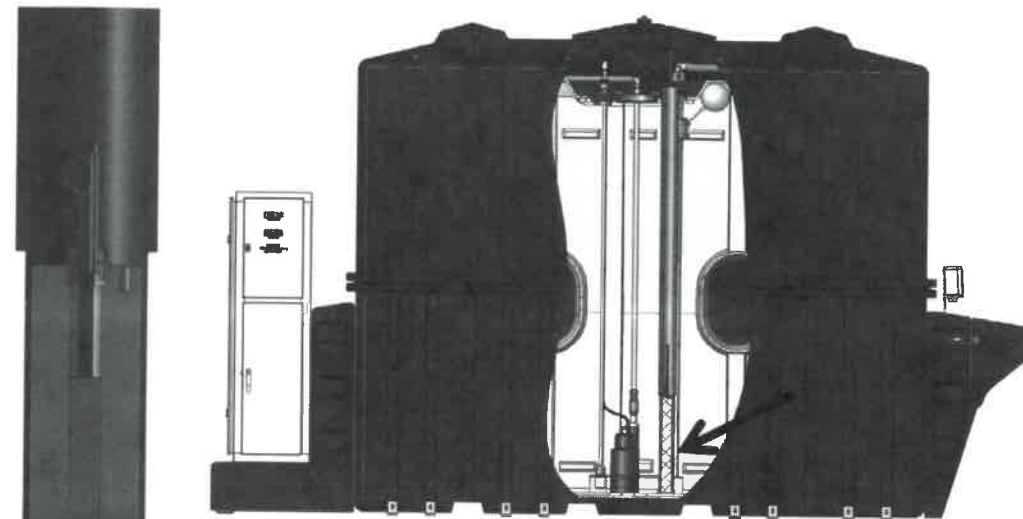


1000 Gallon Tank



KleerBlue™
 Your Total DEF Storage & Dispensing Solution

1000 Gallon
 Diesel Exhaust Fluid
 Tank Heaters



Cartridge
 Heater

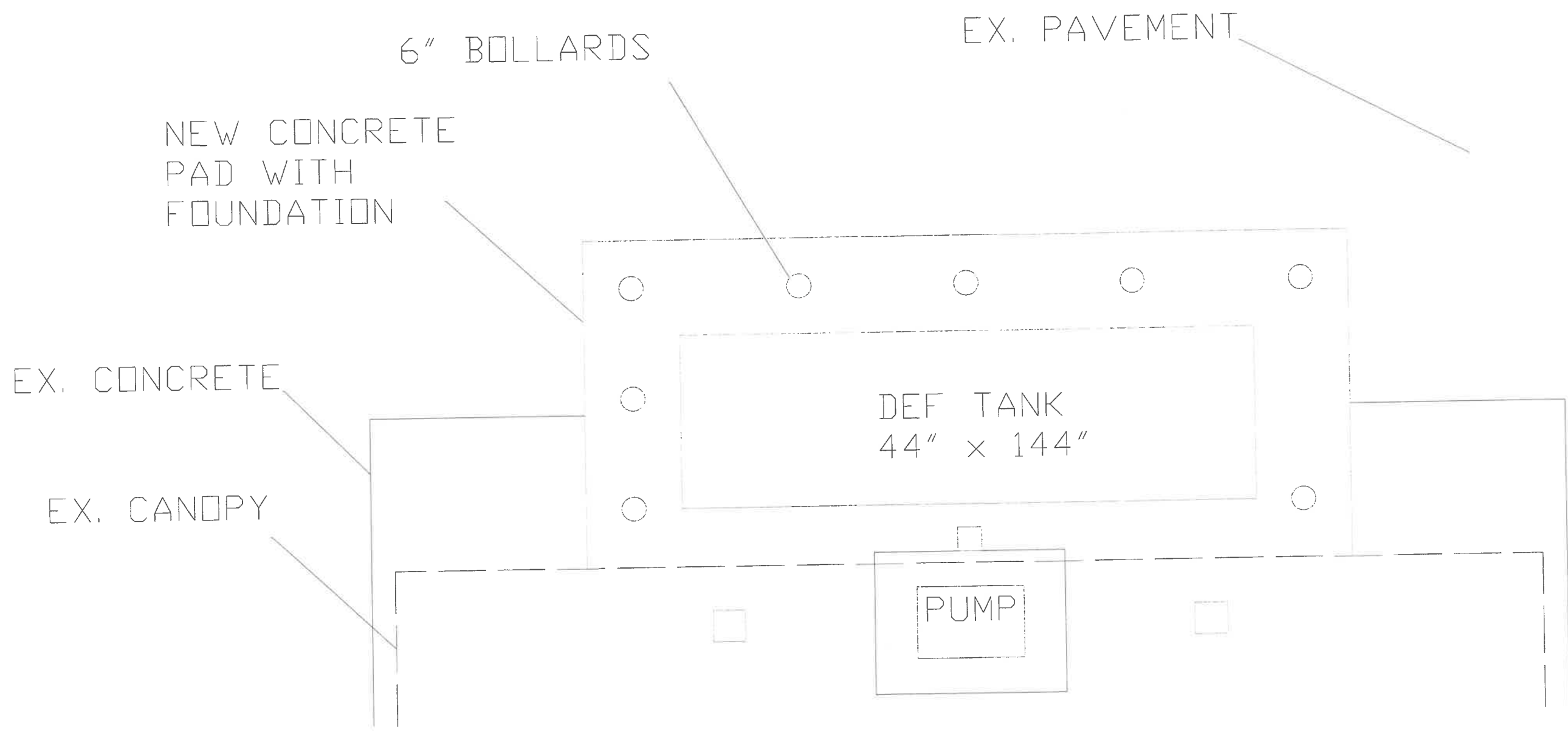
Large
 Heat Sink

Sealed
 Polypropylene
 shell, 77°F
 maximum
 surface
 temperature

The KleerBlue™ 1000 gallon tank immersion heaters, combined with a R16 insulated tank containment shell, provide the most effective and efficient method of preventing the Diesel Exhaust Fluid (DEF) from freezing.

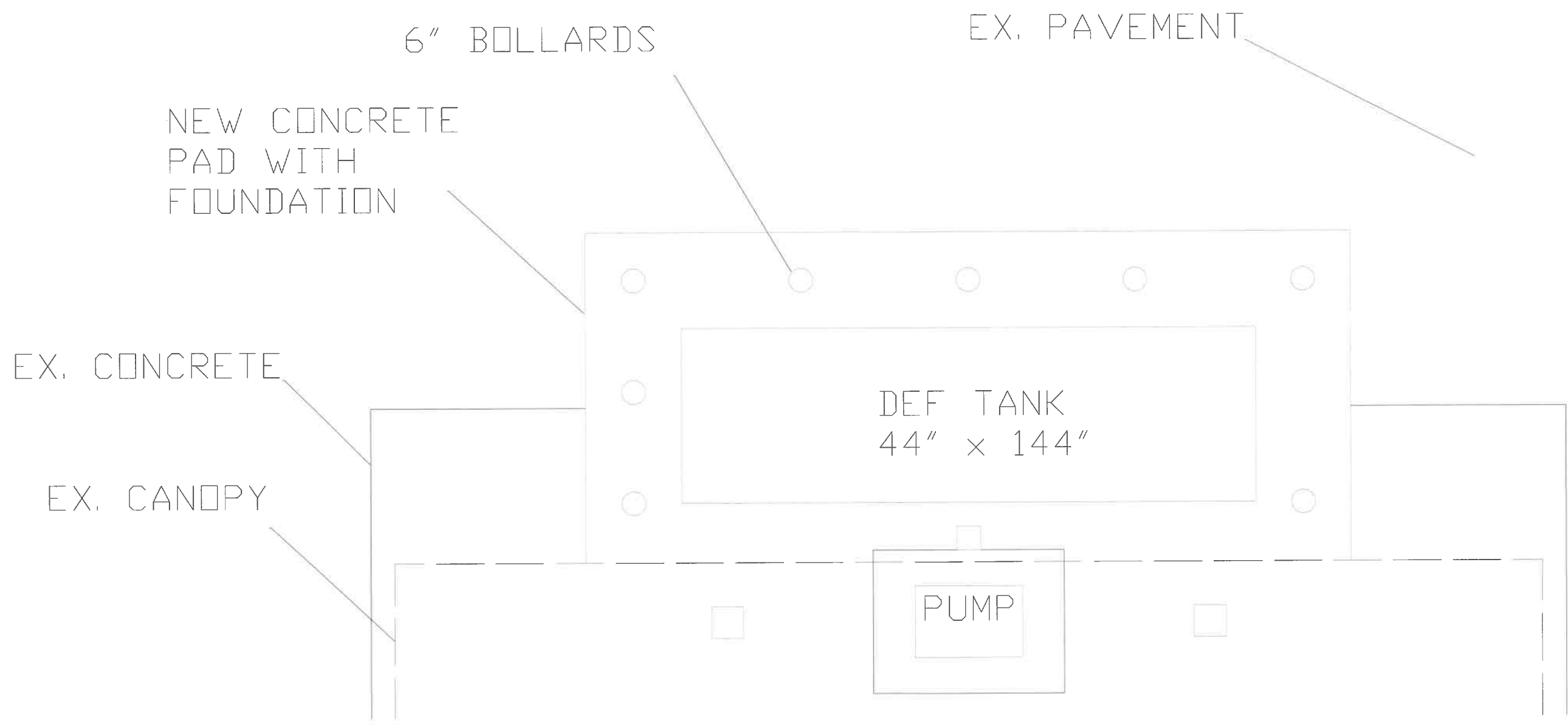
Separation by Design, in partnership with a leading immersion heater manufacturer, developed a unique heating system that combines a large, “low watt density”, sealed heater with a double wall insulated tank containment shell to provide an effective and highly efficient heat source that maintains DEF’s concentration and purity. The surface of the heater that contacts the DEF solution stays below 77°F, as recommended by the ISO and PEI*. A dual thermostat system ensures that just enough heat is delivered to the DEF liquid to maintain liquid temperature of 35 to 40°F, even with outside sustained winter temperatures as low as -40°F.

* International Organization for Standardization, ISO 22241-1
 * Petroleum Equipment Institute, PEI/RP 1100



CANOPY IS 17'25" HIGH

PETRO TRUCK STOP
DEF TANK INSTALLATION



CANOPY IS 17.25' HIGH

PETRO TRUCK STOP
DEF TANK INSTALLATION