

LITCHFIELD MUNICIPAL AIRPORT LITCHFIELD, ILLINOIS

Request for Bids and Specifications Above Ground 100LL Tank

Description:

The Litchfield Airport Authority is accepting bids to install a turnkey 10,000 gallon 100LL Avgas dispensing tank. The Authority is using municipal bond money to fund this project so the State and Federal governments are not involved. This work can start immediately after the bidder is selected.

Scope of Work: The work covered by this specification shall include the purchase, delivery, furnishing, and installation of one (1) 10,000 Gallon 100LL Avgas aboveground fuel storage tank equipped with the latest Fuel Master card reader and associated dispensing system and the associated site work, concrete pad, bollards, and electrical work. The work shall include all labor, equipment, materials, transportation, shipping, tools, field measurements, verification of existing site conditions, site work, foundations, anchorage, electrical work, grounding, shop drawings, operational and maintenance manuals, warranties, all technical assistance and Airport personnel training, coordination, utility coordination, labeling, testing, and all incidentals required to place the respective facilities into proper working order to the satisfaction of the Owner's Representative, in accordance with these specifications and subject to the terms and conditions of the Contract Documents

Submittal Date:

Bids must be submitted by 7:00 PM Tuesday May 21, 2019 at the Litchfield Airport Authority's monthly meeting at the Airport Administration, 1201 US Route 66 S, Litchfield, IL. Sealed bids should be mailed to:

Litchfield Airport Authority
"Above Ground 100LL Tank Project Bid"
PO Box 381
Litchfield, IL 62056

Bids may also be submitted in person at the May 21st, 2019 monthly meeting.

Withdrawal of Bid:

No bidder may withdraw his bid for a period of thirty (30) days after date of bid opening without the Owner's approval.

Bid Bond:

A Bid Bond or Certified Check in the amount of 5% of the bid, payable to the Litchfield Airport Authority shall be submitted with the Contractor's proposal.

The Bid Bond of the successful Bidder will be returned upon successful execution of the Contract Documents as specified herein. Failure by the successful Bidder to execute the Contract Documents within the specified time shall result in forfeiture of the Bid Bond. The Bid Bond of the second and third lowest responsible Bidders will be retained for a period of 30 days, pending the execution of the Contract Documents by the successful Bidder. **Except as noted above, the Bid Bond of unsuccessful Bidders will be returned at the point their proposal is rejected.**

Bidder Qualifications:

Bidders are required to have previous experience installing above ground fuel tanks and dispensers at airports. All Bidders shall furnish a resume to the Owner no later than one week prior to the bid opening. The resume will document the Bidder's competency to perform the proposed work, and that they are a responsible firm that possesses the skills, abilities, and integrity to faithfully perform the project work. Evidence of competency shall consist of statements covering the Bidder's past experience on similar work. No bids will be opened from Bidders that are considered "unqualified".

Bidders must be bonded and insured.

After analyzing the Bidder's resume, The Litchfield Airport Authority reserves the right to not open the Bidder's bid document on the basis of not meeting the required prerequisites of experience, quality of workmanship, and/or financial stability.

Bidder Responsibility:

By submittal of a proposal (bid), the Bidder represents the following:

- The Bidder has read and thoroughly examined the project documents and has a complete understanding of the terms and conditions required for the satisfactory performance of project work.
- The Bidder has fully informed themselves of the project site, the project site conditions, and the surrounding area.
- The Bidder has familiarized themselves of the requirements of working on an operating airport, and understands the conditions that may in any manner affect cost, progress, or performance of the work.
- The Bidder has correlated their observations with that of the project documents.
- The Bidder has found no errors, conflicts, ambiguities, or

omissions in the project documents, except as previously submitted in writing to the Owner that would affect cost, progress, or performance of the work.

- The Bidder is familiar with all applicable Federal, State, and local laws, rules, and regulations pertaining to execution of the Contract and the project work.
- The Bidder has complied with all requirements of these instructions and the associated bid documents.

Errors and Discrepancies in Project Documents:

Should Bidder find an error, discrepancy, ambiguity, or omission in the project documents, prior to submittal of a proposal, the Bidder is obligated to contact the Owner or Owner's Representative with written notice of the error, discrepancy, ambiguity, or omission. The written notice shall identify the nature and location of the error, discrepancy, ambiguity, or omission. Corrections or modifications to the project documents will only be made by written addendum as prescribed herein. By submittal of a Bid Proposal, Bidder represents that they have thoroughly reviewed the project documents, and that they have not identified any error, discrepancy, ambiguity, or omission that would affect cost, progress, or performance of the project work.

Clarifications and Interpretations:

A Bidder requiring a clarification or interpretation of the project documents shall make a written request to the Owner or Owner's Representative. The Owner or Owner's Representative must receive the written request a minimum of seven (7) calendar days prior to the date of the bid opening.

Site Inspection:

Arrangements to inspect the site will be made by contacting Nic Weatherford (Airport Manager), cell phone number (217-556-4299).

Prevailing Wage:

Prevailing wages must be paid using the current wages found at the Illinois Department of Labor's website: <http://www.state.il.us/agency/idol/rates/ODDMO/MONTGOME.htm>

Certified Transcripts of Payroll that meet the Illinois Department of Labor's requirements must be provided before payment for services will be made.

Bidder Selection:

The Litchfield Airport Authority will select the lowest responsible bidder. The Litchfield Airport Authority does reserves the right to reject any or all bids or to accept the bid

which it may consider most advantageous to said Airport Board and to hold all bids for thirty (30) days from the date of the letting before taking action thereon.

Cancellation of Award:

At any time prior to execution of a Contract Agreement, the Owner reserves the right to cancel the award for any reason without liability to the Bidder, with the exception of the return of the Bid Guaranty, at any time prior to execution of the Contract.

Notice of Award of Contract:

It is the intent of the Owner, after a period of review and evaluation, to award a Contract to the responsible Bidder that submits the lowest responsive proposal. The successful Bidder will be informed their bid has been accepted through the Owner's issuance of a Notice of Award. The Notice of Award shall not be construed as a binding agreement. The proper execution of a Contract Agreement shall serve as the binding Agreement.

Contract Agreement:

The successful Bidder shall execute the Contract Agreement in accordance with the accepted bid proposal within fifteen (15) days of the date of the Notice of Award. Failure to execute the Contract Agreement within the specified timeframe may result in the bid being awarded to the next low Bidder, and shall result in the forfeiture of the Bidder's Bid Bond as a liquidated damage.

Laws and Regulations:

The Bidder who is awarded the Contract must comply with all laws of Federal, State, and all lawful ordinances and regulations of the Litchfield Airport Authority, respecting labor and compensation and all other status, ordinances, rules and regulations applicable, and having the force of law.

Airport Operations:

The Contractor shall coordinate with the Airport Manager to provide runway access and minimize inconvenience to Airport operations.

The Contractor must coordinate the runway 18/36 closure with the Airport Manager. 72 hours must be given to the Airport Manager of the anticipated start date and duration of the runway closing. The Contractor will be responsible for providing the runway crosses for the runway closure (see AC 1505970-2G Operational Safety on Airports During Construction for details).

Cleaning of Grounds:

At the completion of the project and before final acceptance by the Owner, the construction site shall be cleared of all rubbish and/or debris which accumulate during the project.

Safety and Security:

The Litchfield Airport Authority assumes no responsibility for safety in, on, or about the job site, nor shall the Litchfield Airport Authority have any responsibility for the safety or adequacy of any equipment or other work aids provided by the Contractor; nor is the Litchfield Airport Authority responsible for the superintendence of the Contractor's work.

The Airport Manager will, at all times, have jurisdiction over airport safety. His decision and recommendations as to methods, procedures, and measures used shall be followed by any and all Contractors.

The Contractor shall be responsible for cleaning and maintaining the work area to the satisfaction of the Airport Manager.

The Contractor's equipment and vehicle parking areas will be as directed by the Airport Manager.

Airport security will be maintained at all times, as directed by the Airport Manager.

The contractor will be responsible for all airport safety measures.

Certifications and Permits:

The contractor will be responsible for obtaining all necessary permits or license to complete project in compliance with local building codes and state and federal rules and regulations.

Duration of Work:

The work can begin as soon as The Airport receives site approval from the Illinois Fire Marshall. The contractor will have 30 Calendar days after work begins to finish all work with the exception of the second coat of pavement markings. A \$100 per day fee will be charge to contractor after the 30 day time frame has expired.

Specifications:

All work must be in compliance with the following referenced codes and regulations:

- A. NFPA 1 – Uniform Fire Code.
- B. NFPA 10 - Standard for Portable Fire Extinguishers.
- C. NFPA 30 - Flammable and Combustible Liquids Code (most current issue in force).
- D. NFPA 30A – Code for Motor Fuel Dispensing Facilities and Repair Garages (most current issue in force).
- E. NFPA 70 - National Electrical Code (NEC) (most current issue in force).
- F. NFPA 70E – Standard for Electrical Safety in the Workplace.
- G. NFPA 77 – Recommended Practice on Static Electricity (most current issue in force). H. NFPA 327, “Standard Procedures for Cleaning or Safeguarding Small Tanks and Containers.”
- I. NFPA 407 – Standard for Aircraft Fuel Servicing (most current issue in force), including Appendices for design and construction, installation, inspection and testing of fuel distribution system, tanks, piping, and other components related to installation of fuel storage and dispensing system.
- J. UL 142, Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids.”
- K. UL 842, “Standard for Valves for Flammable Fluids.” L. UL 2085, “Standard for Protected Aboveground Tanks for Flammable and Combustible Liquids.”
- M. ANSI/UL 87, “Power Operated Dispensing Devices for Petroleum Products.”
- N. ANSI/UL 913, “Standard for Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III Division 1 Hazardous (Classified) Locations.”
- O. American Petroleum Institute (API) Standards. Regulations and Publications, including Appendices for design, cleaning, construction, installation of tanks, piping, and dispensing system.
- P. API Bulletin 1529 Latest Edition, “Aviation Fueling Hose.”
- Q. Petroleum Equipment Institute (PEI) Standards RP-200 and RP-100-90.

- R. Applicable Local, State, and Federal Codes and Regulations.
- S. FAA Advisory Circular 150/5230-4A Aircraft Fuel Storage, Handling, and Dispensing on Airports.
- T. FAA Advisory Circular 150/5370-2F (or most current issue in effect) "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".
- U. Illinois Environmental Protection Agency.
- V. Occupational Safety & Health Administration (OSHA) .
- W. American Petroleum Institute Specification API/PI 1581 5th Edition "Specifications and Qualification Procedures for Aviation Jet Fuel Filter/Separators."
- X. Illinois Administrative Code, Title 8: Agriculture and Animals, Chapter I: Department of Agriculture, Subchapter p: Weights and Measure, Part 600 Weights and Measures Act, Subpart F: Liquid Petroleum Measuring Devices, Section 600.660 Retail Liquid Petroleum Pumps Accurately Marked: Liters or Gallons. The Illinois Bureau of Weights and Measures confirmed that retail fuel dispensing systems used at airports are required to comply with this code.
- Y. Applicable Regulations, as specified in Title 41: Fire Protection, Chapter 1, Office of the State Fire Marshall, State of Illinois, Parts 160 and 180.
- Z. 2006 International Fire Code, Section 312-Vehicle Impact Protection

A. The complete fuel facility is to be turnkey. The tank shall have a fuel dispensing system. The fuel facility shall be complete with aboveground tank, dispensing system, concrete pad, bollards, site lighting, grounding, associated electrical work, and interface to the credit card reader and fuel management system.

B. The work covered shall include the furnishing of all equipment, materials, and labor to install and place into satisfactory operation, a complete factory-assembled, aboveground fuel storage tank for Avgas with a dispensing system, Fuel Master credit card reader and fuel management system, and accessories in accordance with the Plans and Specifications. Items included, but not limited to, are:

1. One 10,000-gallon Aviation Fuel "Fireguard" protected, double-wall, aboveground, steel, horizontal fuel storage tank constructed to UL 142 and UL 2085. Aboveground fuel storage tank shall be UL 2085 listed, and shall bear the UL 2085 label.

2. Fuel dispensing system for an Aviation Fuel tank.
3. The latest Fuel Master credit card reader and fuel management system.
4. Electrical power to the site, as detailed on the Plans, per the requirements of Division 26 Electrical Specifications, and in accordance with all applicable Federal, State, and Local codes.
5. Concrete pad and bollards, in accordance to the Plans and Specifications.
6. Minor excavation, grading, and seeding, as required.
8. Spill kit.
9. Complete systems start up, including travel expense.
10. Training of designated personnel.
11. All electrical/electronic equipment shall be properly protected from power fluctuations and/or lightning.
12. Power consumption by equipment/components of the fuel facility system shall not affect performance of each other.

ABOVEGROUND FUEL STORAGE TANK FOR AVIATION FUEL

A. The aboveground fuel storage tank shall be a Fireguard double-wall, UL-2085 Listed "Protected" Aboveground Tank for Flammable and Combustible Liquids and shall bear the UL-2085 label. The tank shall have a minimum two-hour fire rating. The tank shall be leak tested after delivery and prior to installation. The Avgas Tank shall be a 10,000 Gallon tank. The fuel storage tank shall be an aboveground horizontal cylinder with flat heads, non-pressure, nonvacuum type, with support saddles, secondary/containment structure Type II, and shall consist of a secondary tank encompassing the primary tank. Unit shall be furnished with factory installed accessories, as specified herein or as indicated on the Drawings. The primary tank shall be located inside the containment structure, and shall be supported by steel supports attached to the secondary containment.

B. Tank Finishes: The fuel tank and equipment surface shall be blasted in accordance with SSPCSP6 and painted with a high solids epoxy primer or equal. The exterior finish shall consist of two (2) coats of a white finish, weather-resistant, acrylic enamel paint. The exterior finish shall conform to the respective coating manufacturer's requirements for application and for minimum dry-film thickness requirements. The fuel tank interior shall be sandblasted in accordance with SSPC-SP10 and furnished with an epoxy coating compatible with aviation fuel. The interior liner finish shall conform to the respective coating manufacturer's requirements for applications and for minimum dry-film thickness requirements, final coat to be white to off-white in color. The tanks will be subject to a 10 day soak test as required by major Aviation Fuel suppliers to verify the fuel and coating are compatible. The contractor is responsible for all costs

associated with this test and the associated ASTM 1655 laboratory testing. In the event of a failure of this soak test, the contractor will be responsible for all cost associated with the removal and re-application of the tank interior coating as well as all costs associated with removal, disposal and replacement of the fuel used for the failed test.

C. The fuel storage tank dispensing system shall be skid-mounted package unit suitable for outdoor installation. Note it is not mandatory that the fuel dispensing system be attached to the frame of the aboveground fuel storage tank. Where the dispensing system skid is attached to the frame of the aboveground fuel storage tank it shall be done in a manner that is acceptable to the respective tank manufacturer, shall not affect the tank warranty, and shall not void the tank UL listing. The fuel dispensing system skid shall be adequately sized for the respective equipment and shall include a spill containment area in accordance with the requirements of sized in accordance with the requirements of Title 41: Fire Protection, Chapter 1, Office of the State Fire Marshall, State of Illinois, Part 180.

D. Man-way: The man-way for the primary tank shall be a steel extension cylinder welded in the top of the tank with flange for cover, and shall be a minimum of 24-in. diameter and located in a position to allow access to the floating suction.

E. Tank nozzles and connections: The fill and suction nozzles shall be 3 in., 150# flanged and located on the tank head above the maximum liquid level of the tank. All other tank bung connections and locations shall be in accordance with the respective tank manufacturer's recommendations. Tank bungs 2 in. or less, threaded steel pipe connections are acceptable. Tank bungs larger than 2 in. shall use welded and/or flanged pipe connections.

F. A water collecting sump system with anti-siphon valve and a lockable 3/4-in. valve shall be installed in the tank and piped from an outlet above the maximum fill level. The hand pump shall be positioned to operate from ground level and be capable of pulling the fuel from the tank low point sump pipe and discharging the sample into a sample bucket placed on the pavement at the tank rear.

ABOVEGROUND TANK ACCESSORIES

A. The following accessories for the storage tank shall be provided factory installed, as indicated herein.

1. Certification Plate: Underwriter's Laboratory UL 2085 label shall be permanently affixed to each tank.
2. Tank Fill: Tank shall be equipped with a means of transferring fuel through a bottom loading system into the tank. Tanks filling connection shall be accessible at ground level. Seal welded, 3-in. fill piping into primary tank with over-fill protection to completely stop the flow of fuel at 95 percent. The bottom loading system shall conform to NFPA 30 Article 4.3.2.5 Tank Openings Other than Vents for Aboveground Tanks, and shall include the following:

- a. 3-in. cam lock fill pipe with hose fitting and dust cap for tank truck hookup.
- b. 3-in. x 20-in. mesh removable baskets of Type 316 stainless steel, wire mesh screen. Pressure drop for clean strainer shall not exceed 3 psig at design flow rates.
- c. 3-in. manual ball valve or manual butterfly style valve suitable for aviation fuel service and the respective application.
- d. 3-in. 150# flanged ductile iron swing check valve.
- e. 3-in. 150# flanged ductile iron overfill/check valve.

3. Overfill Protection System: Tank shall be equipped with a 3-in. float activated diaphragm valve by CLA-VAL, or approved equal, in conformance with NFPA 30 Article 4.6.1 Prevention of Overfilling of Tanks. An internal float shall activate the valve completely stopping the flow when tank is 95 percent full. Include alarm notification to alert the transfer operator when the tank is no more than 90 percent full by restricting the flow of liquid into the tank or triggering the high level alarm.

4. Fusible Link Emergency Fire Valve: Conforming to NFPA 30 and located adjacent to the tank. The valve shall close upon sensing heat from a fire. The fire valve can also be manually closed for maintenance of dispensing components while product remains in the tank. The valve shall be of ductile iron construction, Teflon packing, stainless steel spring, and shall have 165° F. rated fusible link. Morrison 2-in. - Fig. 346DI, or approved equal.

5. Explosion-Proof Solenoid Valve: The solenoid shall prevent the siphoning of product in the event of failure of connected piping or components in accordance with NFPA 30A Part 4.2.4. The solenoid valve shall not be energized, except when the fuel pump is on. All soft seal parts of the solenoid valve shall be of Viton®. If the solenoid valve was to fail, it shall fail in a position that will prevent the fuel in the tank from being siphoned or pumped from the tank.

6. Check Valve: Provide check valve in the suction piping. Check valve shall be properly sized and selected for the respective fuel type, system piping, and application.

7. Operating Vent: An operating vent shall be provided on the top of the aboveground fuel storage tank extending to 12 ft aboveground level. The vent shall conform to the requirements of NFPA 30 Article 4.2.5 Design of Tank Vents and suitable for the respective fuel type.

8. Emergency Vent: Provide on the top of the storage tank. The emergency vent shall relieve internal pressures in excess of 2.5 psi above the pressure/vacuum vent. The vent shall conform to the requirements of NFPA 30 Article 4.2.5.2 Emergency Relief Venting for Fire Exposure for Aboveground Tanks. The vent shall be sized for the respective tank, and shall have flow and pressure stamped on emergency vent. The emergency vent shall be a Morrison 244, or approved equal.

9. Interstitial Emergency Vent: The vent shall conform to the requirements of NFPA 30 Article 4.2.5.2 Emergency Relief Venting for Fire Exposure for Aboveground Tanks. The vent shall be sized for the respective tank, and shall have flow and pressure stamped on emergency vent. Should the

product tank rupture in a fire, the interstitial vent shall allow adequate venting of the secondary containment tank. The interstitial emergency vent shall be a Morrison 244, or approved equal.

10. Liquid Level Gauge Assembly: External product level gauge with dial readout for ground level reading per the applicable sections of NFPA 30. Clock [dial] gauge with overflow alarm. High-level warning alarm shall consist of a battery-powered, intrinsically safe, alarm, unit-mounted remote from the gauge. Alarm shall be set for desired level during installation, and can be reset at any time for a change in alarm level requirements.

The alarm shall have 90 decibel, high pitched "Beep" cycle alarm, an on-off test switch, and powered by two (2) 9-Volt batteries, housed in plastic weather-proof housing. The gauge shall be adjustable to rotate 360 degrees after mounting. Provide necessary flat device, direct read face plate, decals for indicating overflow, and re-order levels. Morrison 2-in. - Fig. 818 clock gauge with Morrison 909 overflow alarm, or approved equal. Provide conversion charts necessary to convert product reading to gallons. Include a spare tank port to accommodate a Tank Sentinel tank monitoring system level probe.

11. Interstitial Monitoring: Provide a gauge to monitor the interstitial space of the respective tank. Should a leak occur in the primary tank, it shall be quickly noted in the sight gauge.

Provide an interstitial vacuum test port located on the top of the tank, conforming to the applicable sections of NFPA 30. Test port shall be designed to enable a vacuum test on the interstitial space throughout the life of the tank. Include a spare tank port in the interstitial space to accommodate a Tank Sentinel tank monitoring system leak detector.

12. Leak Containment Chamber: Spill containment shall be provided for dispensers.

13. Stage I Vapor Recovery/Overflow: AVGAS SYSTEM ONLY, Provide Stage I vapor recovery piping and connections in locking cover.

14. Floating Suction System: Floating suction system, with a test pull line of coated stainless steel cable installed in each system, minimizing the potential of allowing water or particulate matter through filter systems.

15. Electric Wiring in Conduit: The systems shall arrive pre-wired with conduit stub-outs for connection to power supplies and interface to the fuel management system. All electric wiring associated with the system shall be in galvanized rigid steel conduit in accordance with the Chapter 5, Articles 500, 501, 514, and 515 of the NFPA 70, NEC.

16. Tank Supports and Equipment Porch System: The tank supports shall be as recommended by the respective tank and/or fuel system manufacturer and shall maintain the UL listed of the tank. Where the dispensing system skid/porch is attached to the tank it shall be done in a manner that is acceptable to the tank manufacturer and does not void the UL listing of the tank.

17. Lifting Lugs: Provide for handling and installation.

18. Ladders: OSHA design, carbon steel ladder rungs on rear of each tank in addition to an OSHA compliant side mounted ladder and tank top platform for access to the tank manual gauge port and floating suction test mechanism.

19. Tank Markings: The tanks shall be appropriately marked on all sides, according to the product stored in tank such as "AVGAS", and marked with all safety decals, such as "NO SMOKING, STOP ENGINES, PRIOR TO FUELING TURN OFF ALL ELECTRICAL OR HEATING DEVICES, ALL PASSENGERS MUST DEPLANE" and "FLAMMABLE - KEEP FIRE & FLAME AWAY." The marking shall comply with the Illinois State Fire Marshall's requirements and NFPA as they pertain to the system.

20. Tank Base and Protection: The tanks shall be installed on a reinforced concrete base designed to support the fully loaded tank in accordance with the tank manufacturer's recommendations and requirements and as detailed on the Plans.

21. Include an access ladder with catwalk walkway platform and railing for access to the top of the fuel tank.

FUEL DISPENSER

A. Fuel Dispenser shall be a complete dispensing system with equipment, materials, pump, hose, hose reel, with rewind motor, metering, filtering, piping, sump containment, controls, and accessories to interface to the aboveground fuel storage tank system in compliance with the requirements of the Office of the State Fire Marshall and the respective applicable codes. The fuel dispenser shall be enclosed in a stainless steel housing or corrosion resistant painted steel housing. The cabinet shall be designed to allow access to the equipment. Unit shall have the following factory-installed, piped, and wired:

1. Self-contained, suction-type, single-hose dispensing, gear pump, rated capacity require to deliver a minimum of 20 GPM for Aviation Fuel and to the nozzle at the end of a 1 in. inside diameter hose, 50 ft in length with manufacturer's recommended accessories. All components shall be UL listed, ETL listed, or FM approved suitable for the respective application and suitable for use in the respective classified hazardous location.

2. Continuous duty, explosion-proof motor for Class I, Division 1, Group D hazardous locations, as defined in NFPA 70. Horsepower shall be as required per manufacturer's recommendations for the respective fuel system. Power available at the site is 120/240 VAC, single-phase.

3. Motor starters/contactors shall be properly sized and rated suitable for the respective pump motor horsepower and full load Amps. Motor starter enclosures located at the fuel facility site shall be NEMA 7, UL-listed, or FM-approved, suitable for use in Class I, Division 1, Group D hazardous locations. Provide clear working space in front of and about the motor starter means to comply with National Electrical Code clearance requirements, including NEC 110.26. No obstructions will be permitted.

4. Each pump motor shall be provided with a disconnecting means located in site from the motor location to comply with National Electrical Code 430.102 and to allow lock out/tag out of each pump motor independent of the other pump motor(s). Safety switches/disconnects shall have horsepower ratings equal to or greater than those of the respective pump motor it is powering. Safety switches/disconnects shall have amperage ratings equal to or greater than that of the over-current protective device (circuit breaker or fuse) that feeds the respective pump motor. The disconnecting means shall open all ungrounded supply conductors and shall be designed so that no pole can be operated independently to

comply with National Electrical Code 430.103. Safety switches/disconnects shall be pad lockable in the off position. Disconnecting means located in a hazardous classified area of the fuel facility shall be NEMA 7, UL-listed, or FM-approved, suitable for use in Class I, Division 1, Group D hazardous locations. Note the controller disconnecting means shall be permitted to serve as the disconnection means for the motor if it is in site from the motor location. Provide clear working space in front of and about the disconnecting means to comply with National Electrical Code clearance requirements, including NEC 110.26. No obstructions will be permitted.

5. Register: Lighted and mechanical/digital electronic displays. Register shall display volume in total gallons, the unit selling price per gallon, and the total selling price in dollar and cents. This requirement is based on Illinois Administrative Code, Title 8: Agriculture and Animals, Chapter I: Department of Agriculture, Subchapter p: Weights and Measure, Part 600 Weights and Measures Act, Subpart F: Liquid Petroleum Measuring Devices, Section 600.660 Retail Liquid Petroleum Pumps Accurately Marked: Liters or Gallons. The Illinois Bureau of Weights and Measures has previously confirmed that retail fuel dispensing systems used at airports are required to comply with this code. Please include a light in the dispensing unit so that the unit price, total gallons and total cost can be seen with low light.

6. Aviation Fuel hose, 1.5 in. inside diameter, or as recommended by the fuel system equipment manufacturer to accommodate the respective fuel deliver rate, 50 ft long, complying with NFPA 407 and API 1529. Include hose reel with a motor rewind.

7. Nozzle: Nozzle shall be UL-listed for aviation gasoline, 1-1/3 in. by 1 in. overwing nozzle with anti-misfueling spout and strainer with 100 mesh and quick disconnect fittings. Nozzle shall automatically shut-off when pump pressure shuts off, nozzle accidentally falls from tank, or tank is full. Nozzle shall be constructed of cast aluminum body, stainless steel stem, and aluminum disc. Nozzle shall have a cable with a plug or clip for bonding to the aircraft conforming to NFPA 407.

8. Hose Reel: Heavy-duty, 115 VAC, single-phase, 60 Hz, explosion-proof electric rewind, non-ferrous swing joint/internals, Hannay Reel, or approved equal with all accessories, factory-installed and wired. Provide deadman control conforming to NFPA 407 Article 4.1.7 Deadman Controls.

9. Static Grounding and Reel: With 100 ft of cable, ground rod, spring rewind reel and mounting bracket by Hannay Reel, or approved equal. Provide one (1) static ground reel to serve both dispensing systems.

10. Include containment sump in accordance with the requirements of the Office of the Illinois State Fire Marshall.

11. Filter/separator for Avgas: The Avgas system is required to be filtered when being removed from the tank (pumping from the tank into aircraft). Rated 5 to 50 gpm, water ab-sorbing type, suitable for use with Avgas. Include differential pressure gauge. Bidder shall confirm the respective filter/separator is suitable and rated for the respective application. The filter/separator shall be furnished with four spare cartridges and gaskets

FUEL MANAGEMENT SYSTEM

- A. The latest Fuel Master system with wireless and cellular capabilities.

EARTHWORK

- A. Will require removal of asphalt at site of concrete pad. Contractor will coordinate with airport manager for disposal of asphalt and excess dirt

CONCRETE PAD

- A. Pad will be 6 inches thick reinforced with ½ inch rebar on 2 foot centers

BOLLARDS

- A. Bollards are to be 4 inch diameter by 4 feet high

FIRE EXTINGUISHERS

- A. Furnish and install two UL rated 40B:C fire extinguishers; Amerex Catalog Number B462 or approved equal. Include mounting brackets and mount to bollard posts. Fire extinguishers shall be made in the United States of America to comply with the Buy American Preference Requirements. Confirm model numbers with the respective fire extinguisher manufacturer.

EQUIPMENT, MATERIALS, AND CONSTRUCTION

- A. All equipment and materials to be furnished under these specifications shall be new and free from defects in either materials or workmanship.

DELIVERY, STORAGE, AND HANDLING

- A. The Contractor is responsible for the safe delivery of the system; should damage, etc. be incurred during delivery, it will be the Contractor's responsibility to replace and/or repair damaged items to the satisfaction of the Airport Manager. The Contractor shall coordinate delivery of the system, and its' accessories, with the Airport Manager. The Contractor shall store system and components, as needed, in a safe and secure location, as directed by the Airport Manager.

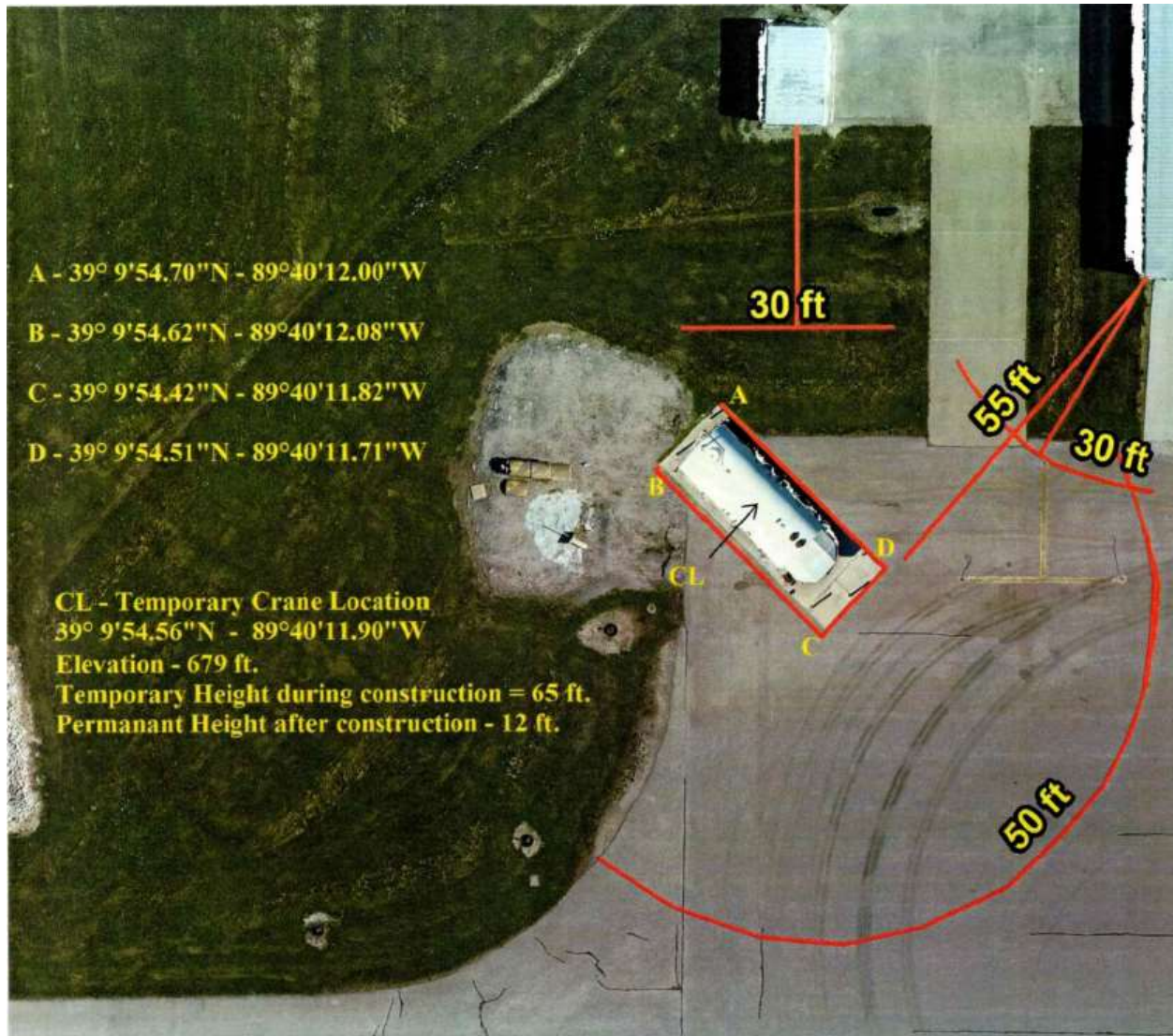
INSTALLATION OF FUEL DISPENSERS AND OTHER EQUIPMENT

- A. The fuel distribution equipment will be installed as per the pertinent manufacturer's requirements and recommendations. The installation will be completed in accordance with all Local, State, and Federal laws, codes and regulations. The Contractor must be capable of providing repair support "on a timely basis" throughout the period of warranty. The "emergency shutdown switch" shall be installed so that activation will cease fueling ability at the entire location.

SUPERVISION OF INSTALLATION AND START-UP

- A. The Contractor shall provide qualified personnel to supervise the installation of the equipment, place the equipment into operation, and provide training on the operation and maintenance of the equipment to designated Airport personnel

Exhibits and Details



****Location of tank subject to change based on fire marshal approval

Contact Information:

Nic Weatherford is the Airport Manager of the Litchfield Municipal Airport and is coordinating this project. He can be reached at airport@Litchfieldil.com or cell phone (217) 556-4299.

ALL DOCUMENTS IN THIS SECTION

REQUIRE EXECUTION AND/OR COMPLETION

All bids must be submitted on the two forms provided below

Any bids not on provided forms will be rejected

BID PROPOSAL FORM
Above Ground 100LL Tank
Litchfield Municipal Airport
Litchfield, Illinois

TO: Litchfield Airport Authority
Litchfield, Illinois 62056

The UNDERSIGNED hereby in compliance with the request for bids for furnishing the following Construction items:

the purchase, delivery, furnishing, and installation of one (1) 10,000 Gallon 100LL Avgas aboveground fuel storage tank equipped with the latest Fuel Master card reader and associated dispensing system and the associated site work, concrete pad, bollards, and electrical work.;

hereby proposes to furnish all necessary labor, permits, material, machinery, tools, supplies and equipment to faithfully perform all work required for furnishing the construction items identified below in strict accordance with the project documents and all issued Addenda within the specified time of performance for the unit prices stated below:

SCHEDULE OF PRICES				
DESCRIPTION	EST. QUANTITY	UNIT	UNIT PRICE	ITEM COST
BASE BID				
Complete Above Ground Avgas Dispensing Tank				
BID TOTAL				

Note:

1. Each pay item should have a unit price and a total price.
2. The unit price shall govern if no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity.
3. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price.
4. A bid will be declared unacceptable if neither a unit price nor a total price is shown.

ACKNOWLEDGEMENTS BY BIDDER

- a. The BIDDER acknowledges and accepts that the Bid Documents are comprised of the documents identified within the Instructions-to-Bidders. The BIDDER further acknowledges that each of the individual documents that comprise the Bid Documents are complementary to one another and together establishes the complete terms, conditions and obligations of the successful BIDDER.
- b. As evidence of good faith in submitting this proposal, the undersigned encloses a bid guaranty in the form of a certified check or bid bond in the amount of 5% of the bid price. The BIDDER acknowledges and accepts that refusal or failure to accept award and execute a contract within the terms and conditions established herein will result in forfeiture of the bid guaranty to the owner as a liquidated damage.
- c. The BIDDER acknowledges and accepts the OWNER'S right to reject any or all bids and to waive any minor informality in any Bid or solicitation procedure.
- d. The BIDDER acknowledges and accepts the OWNER'S right to hold all Proposals for purposes of review and evaluation and not issue a notice-of-award for a period not to exceed 30 calendar days from the stated date for receipt of bids. During this evaluation period, the BIDDER agrees to honor the stated price(s) without any adjustment.
- e. The undersigned agrees that upon written notice of award of contract, he or she will execute the contract within fifteen (15) days of the notice-of-award and furthermore provide executed payment and performance bonds within fifteen (15) days from the date of contract execution. The undersigned accepts that failure to execute the contract and provide the required bonds within the stated timeframe shall result in forfeiture of the bid guaranty to the owner as a liquidated damage.

Signature of Business Representative: _____

Title of Business Representative: _____

Business Name: _____

Business Address: _____

Contact Information: Office Phone: _____ Cell Phone: _____

Email Address: _____

PROPOSAL BID BOND

Bid Opening Date: May 21, 2019

KNOW ALL MEN BY THESE PRESENTS, THAT WE,

_____ as PRINCIPAL, and

_____ as SURETY,

are held and firmly bound unto the Litchfield Airport Authority in the penal sum of 5% of the total bid price, lawful money of the United States, well and truly to be paid unto said Litchfield Airport Authority, for the payment of which we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly, severally and firmly by these presents.

THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH, That Whereas, the PRINCIPAL is submitting a written proposal to the Litchfield Airport Authority for the insulation of above ground 100LL dispensing tank.

NOW, THEREFORE, if said proposal is accepted and a contract awarded to said PRINCIPAL by said Litchfield Airport Authority for the above designated improvement, and said PRINCIPAL shall, within fifteen (15) days after the contract forms have been mailed out by said Litchfield Airport Authority, enter into a formal contract, furnish surety guaranteeing the faithful performance of the work and furnish evidence of the required insurance coverages.

IN THE EVENT the Litchfield Airport Authority determines the PRINCIPAL has failed to comply with any requirement as set forth in the preceding paragraph, then the Litchfield Airport Authority shall immediately and forthwith be entitled to recover the full penal sum set out above, together with all court costs, all attorney fees, and any other expense of recovery.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers and their corporate seals to be hereunto affixed this _____ day of _____, 2018

PRINCIPAL

(Company Name) (Seal)

By: _____
(Signature & Title)

(Company Name)

By: _____
(Signature & Title)

(Company Name) (Seal)

By: _____
(Signature & Title)

(Company Name)

By: _____
(Signature & Title)

SURETY

(Name of Surety) (Seal)

By: _____
(Signature of Attorney-in-Fact)

NOTARY CERTIFICATION FOR PRINCIPAL AND SURETY

STATE OF ILLINOIS,
COUNTY OF _____

I, _____, a Notary Public in and for said County, do hereby certify that

(insert names of individuals signing on behalf of PRINCIPAL & SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this day in person and acknowledged respectively, that they signed, sealed, and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____, 2019

My commission expires _____
Notary Public