



INVITATION TO BID (#22-92)

.....
PAINT TRUCK
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ATTENTION: This is not an order. Read all instructions, terms, and conditions carefully.

IMPORTANT: Bids must be received no later than 2:00 p.m. Eastern Time (ET) on Thursday, January 5, 2023.

BID INVITATION #: 22-92

DATE ISSUED: December 15, 2022

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

Pursuant to the provisions of KRS 424.260, the Kenton County Airport Board ("KCAB") will receive bids for a **Paint Truck** at the Cincinnati/Northern Kentucky Int'l Airport ("CVG"). Bids will be received no later than January 5, 2023, at 2:00 p.m. ET. No bids will be accepted after that time unless such date or time is extended pursuant to an addendum issued by KCAB.

KCAB reserves the right to waive any informality or irregularity in any proposal or bid guaranty, to reject any or all proposals, to award or refrain from awarding a contract for the work, and to negotiate with the apparent qualified responsible proposer to such extent as may be beneficial to KCAB.

Preference for Kentucky resident bidders will be applied in accordance with Kentucky law.

KCAB in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

Further information and copies of the Invitation to Bid (ITB) may be downloaded from our website <http://www.cvgairport.com/bids> - PlanetBids & New Vendor Registration.

KENTON COUNTY AIRPORT BOARD
Candace S. McGraw, Chief Executive Officer
CINCINNATI/NORTHERN KENTUCKY INTERNATIONAL AIRPORT
Hebron, KY 41048

**KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)**

SCHEDULE OF EVENTS

- | | |
|-----------------------------------|---|
| • December 26, 2022 | Deadline for questions to be submitted. |
| • December 29, 2022 | Answers to questions issued. |
| • January 5, 2023 at 2:00 p.m. ET | Bids due. |

KCAB reserves the right to modify or alter the schedule of events to such extent as may be beneficial to KCAB.

SECTION A - GENERAL INFORMATION & BID INSTRUCTIONS

A.1 BACKGROUND AND SCOPE

The Kenton County Airport Board (“KCAB”) is soliciting bids for one (1) Paint Truck for use at the Cincinnati/Northern Kentucky International Airport (“CVG”). Complete specifications are listed in Section B.

A.2 SUBMISSION OF BIDS

Responses to this ITB must be submitted electronically through KCAB’s online bidding system which can be accessed at <http://www.cvgairport.com/bids> under “PlanetBids & New Vendor Registration.” Select the project titled **Paint Truck (Invitation #22-92)** and follow the instructions for submittal. The completed and signed bid (together with all required attachments) must be transmitted and received in the system no later than **January 5, 2023, at 2:00 p.m. ET**. Bidders should allow for sufficient time to upload and transmit all required information. Bidder is solely responsible to ensure its submission is transmitted prior to the due date and time. KCAB will not accept submissions after the due date and time and is not responsible for any error in transmission including but not limited to power outage, internet connectivity, unauthorized access, etc.

A.3 BID QUESTIONS

KCAB is not bound by, and bidders may not request or rely on any oral interpretation or clarification of this ITB. Therefore, any questions regarding this ITB are encouraged and must be submitted electronically using the Q&A tab of this ITB on KCAB’s online bidding system, which can be accessed at <http://www.cvgairport.com/bids> under “PlanetBids & New Vendor Registration”.

Questions received on or before the Deadline to Submit Questions in the Schedule of Events will be posted on the Q&A tab of this ITB on the bidding system per the Schedule of Events. Answers to questions from any Bidder will be available to all Bidders.

All communications regarding this invitation to bid shall only be through the Contract and Procurement Administration Department. No communication is to be directed to any other KCAB personnel unless otherwise instructed by the Contract and Procurement Administration Department. Failure to comply may result in the disqualification of bidder’s submittal.

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

A.4 ADDENDA

In the event it becomes necessary to revise, change, modify or cancel this ITB or to provide additional information, KCAB will issue addenda to all recipients of this ITB.

A.5 BID REQUIREMENTS

Each bid must include the following written information:

- A.5.1 Pricing must be all-inclusive, firm fixed and delivered to the address specified inclusive of all transportation charges FOB Cincinnati/Northern Kentucky International Airport.
Bids must be submitted electronically using the Line Items tab on KCAB's electronic bidding system. Submittals must be confirmed by a duly authorized official of the bidding company.
- A.5.2 List the lead time for the paint truck being proposed in the Comment section of the Line Items tab.
- A.5.3 Complete specifications for the paint truck being proposed.
- A.5.4 Complete warranty documentation for the paint truck being proposed.
- A.5.5 Completed applicable bidder residence form.

A.6 KENTUCKY OPEN RECORDS ACT

Each bidder must specifically identify any portion of its bid which it deems confidential, or which contains proprietary information, patents, copyrights, or trade secrets. Bidder should provide justification of what material should not be disclosed, upon request, by KCAB to a third party. All documents received by KCAB are subject to general inspection under the provisions of Kentucky Revised Statutes Chapter 61.870 et seq, the "Kentucky Open Records Act," subject to very narrow exceptions. These statutes may require disclosure of documents a bidder deems confidential. KCAB may otherwise use or disclose the data submitted by each bidder for any purpose unless such data is so identified as confidential or proprietary by the bidder. The bidder's opinion of proprietary information is not necessarily binding upon KCAB.

A.7 ACCEPTANCE PERIOD

Bids in response to this ITB shall indicate that they are valid for a period no less than 120 days from the closing date.

A.8 AWARDS

- A.8.1 KCAB intends to award a purchase order(s) resulting from this solicitation to the responsible bidder whose bid represents the best value after evaluation.
- A.8.2 KCAB reserves the right to waive any informality or irregularity in any bid guaranty, to reject any or all bids, to award or refrain from awarding a contract for the work, and to negotiate with the apparent qualified responsible bidder to such extent as may be beneficial to KCAB.
- A.8.3 KCAB intends to evaluate bids and award a purchase order(s) without discussions with bidders. Therefore, the bidder's initial bid should contain the bidder's best terms from a cost or price and technical standpoint.

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

- A.8.4 KCAB reserves the right to make an award on any item for a quantity less than the quantity offered, at the unit cost or prices offered.
- A.8.5 KCAB reserves the right to make multiple awards if, after considering the bids submitted, it is in KCAB's best interest to do so.
- A.8.6 KCAB has the right, at its sole election, to alter the specifications, frequency of services, and/or quantities of goods required and tailor the price to said change (increase or decrease).

A.9 PERFORMANCE AND PAYMENT

- A.9.1 KCAB will issue a Purchase Order to the successful bidder(s) ("Vendor"). The Purchase Order shall govern the agreement between KCAB and the Vendor and incorporate all the specifications, terms, and conditions included in this invitation, its addenda, and all proposal documents.
- A.9.2 Vendor shall submit one (1) invoice per delivery which KCAB will pay on a net thirty (30) basis.

A.10 BONDS AND SURETIES (Not applicable for this ITB.)

A.11 RECORDS/FINANCIALS

In submitting bids on any item to be purchased by KCAB, the bidder hereby agrees to make available any and all records, books of account, correspondence, or other information reasonably necessary to enable KCAB or its designated agents to investigate the responsibility of the bidder in terms of its financial status, capacity to produce, sources of supply, performance record in the business or industry, and any other matter reasonably related to the bidder's probable ability to perform adequately under a contract if it is awarded to the bidder.

A.12 GRATUITIES AND KICKBACKS

It is a breach of ethical standards for any person to offer, give, or agree to give any employee or former employee, or for any employee or former employee to solicit, demand, accept, or agree to accept from another person, a gratuity, or an offer of employment in connection with any proposal, contract, or subcontract.

It is a breach of ethical standards for any payment, gratuity, or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime vendor or higher tier subcontractor or any person associated therewith, as an inducement for the award of a subcontract or order.

In the event that any gratuities or kickbacks are offered or tendered to any KCAB employee, the bid shall be disqualified and shall not be reinstated.

A.13 NON-COLLUSIVE VENDOR CERTIFICATION

By the submission of this bid, the bidder certifies that:

- A.13.1 The bid has been arrived at by the bidder independently and has been submitted without collusion with any other vendor.

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

- A.13.2 The contents of the bid have neither been communicated by the bidder nor, to its best knowledge and belief, by any of its employees or agents, to any person not an employee or agent of the bidder or its surety on any bond furnished herewith and will not be communicated to any such person prior to the official opening of the bid.
- A.13.3 No bidder shall submit more than one bid for this purchase. It shall be the responsibility of each bidder to obtain the prior written permission of KCAB before bid opening in every situation in which the bidder, due to corporate association or other affiliation, may be found to be impermissibly associated with another vendor. Failure to observe this requirement could result in all such affiliated bids being rejected.

A.14 GOVERNMENT PROVISIONS

EQUAL EMPLOYMENT OPPORTUNITY. During the performance of this Contract, the Contractor agrees to comply with all Federal, state, and local laws respecting discrimination in employment and non-segregation of facilities including, but not limited to, requirements set out at 41 CFR 60-1.4, 60-250.4, 60-300.5(a), 60-741.4, and 60.741.5(a), which equal opportunity clauses are hereby incorporated by reference. These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities and prohibit discrimination against all individuals based on their race, color, religion, sex, or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability. Notification is hereby given that compliance with these clauses may require you to file annually certain reports (e.g., the EEO-1 Report, and the VETS-100 Report) with the Federal government and may require you to develop written Affirmative Action Programs for Women and Minorities, Covered Veterans and/or Persons with Disabilities.

CIVIL RIGHTS ACT OF 1964, TITLE VI-49 CFR PART 21. During the performance of this Contract, Contractor for itself, its assignees and successors in interest agree as follows:

1. **Compliance with Regulations.** Contractor shall comply with regulations relative to non-discrimination in federally assisted programs of the Department of Transportation (DOT) Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time (Regulations) which are herein incorporated by reference and made a part of this Contract.
2. **Non-Discrimination.** Contractor, with regard to the work performed by it during the Contract, shall not discriminate on the grounds of race, gender, color or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. Contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the Contract covers the program set forth in Appendix B of the Regulations.
3. **Solicitations for Subcontractors, Including Procurements of Materials and Equipment.** In all solicitations either by competitive bidding or negotiation made by Contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by Contractor of its obligations under this Contract and the Regulations relative to non-discrimination on the grounds of race, gender, color, or national origin.
4. **Information and reports.** Contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto and shall permit access to its books, records, accounts, other sources of information and its facilities as KCAB or the FAA may determine to be

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

pertinent to ascertain compliance with such Regulations, orders, and instructions. Where any information required of Contractor is in the exclusive possession of another who fails or refuses to furnish this information, Contractor shall so certify to KCAB or the FAA, as appropriate, and shall set forth what efforts it has made to obtain the information.

5. Sanctions for non-compliance. In the event of Contractor's non-compliance with this Contract's non-discrimination provisions, KCAB shall impose such contract sanctions as it or the FAA may determine to be appropriate, including, but not limited to:
 - a. withholding payments to Contractor under the Contract until Contractor complies, and/or
 - b. cancellation, termination, or suspension of the Contract in whole or in part.

6. Incorporation of provisions. Contractor shall include the provisions of paragraphs (1) through (5) in every subcontract, including procurements of materials and leases of equipment, unless exempted by the Regulations or directives issued pursuant thereto. Contractor shall take such action with respect to any subcontract or procurement as KCAB or the FAA may direct as a means of enforcing such provisions including sanctions for non-compliance. Provided, however, that in the event Contractor becomes involved in or is threatened with, litigation with a subcontractor or a supplier as a result of such direction, Contractor may request KCAB to enter into such litigation to protect the interest of KCAB and, in addition, Contractor may request the United States to enter into such litigation to protect the interest of the United States.

Title VI List of Pertinent Nondiscrimination Authorities

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin).
- 49 CFR part 21 (Non-discrimination in Federally-Assisted Programs of The Department of Transportation—Effectuation of Title VI of The Civil Rights Act of 1964).
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects).
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR part 27.
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age).
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex).
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act of 1990, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 – 12189) as implemented by Department of Transportation regulations at 49 CFR parts 37 and 38.

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex).
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations.
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100).
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

DISADVANTAGED BUSINESS ENTERPRISE POLICY.

1. Policy. It is the policy of the United States DOT that Disadvantaged Business Enterprises (DBE) as defined in 49 CFR Part 26 shall have the maximum opportunity to participate in the performance of contracts financed in whole or in part with Federal funds. Consequently, the DBE requirements of 49 CFR Part 26 may apply to this Contract.
2. DBE Obligation. The Contractor and its subcontractors, successors and assigns agree to ensure that DBEs as defined in 49 CFR Part 26 have the maximum opportunity to participate in the performance of contracts and subcontracts financed in whole or in part with Federal funds. In this regard, the Contractor and its subcontractors, successors and assigns shall take all necessary and reasonable steps in accordance with 49 CFR Part 26 to ensure that DBEs have the maximum opportunity to compete for and perform contracts. The Contractor, its subcontractors, successors, and assigns, shall not discriminate on the basis of race, color, national origin, gender, physical disability or veteran's status in the award and performance of DOT assisted contracts.

AIRPORT AND AIRWAYS IMPROVEMENT ACT OF 1982. Contractor assures that it will comply with pertinent statutes, Executive Orders, and such rules as are promulgated to assure that no person shall, on the grounds of race, creed, color, national origin, gender, age, or physical disability, be excluded from participating in any activity conducted with or benefiting from Federal assistance. This provision obligates Contractor, its subcontractors, successors, or assignees for the period during which Federal assistance is extended to the airport program, except where Federal assistance is to provide, or is in the form of personal property or real property or an interest therein or structures or improvements thereon. In these cases, the provision obligates the Contractor, its subcontractors, successors and assigns for the longer of the following periods:

1. the period during which the property is being used by the airport sponsor or any transferee for a purpose for which Federal assistance is extended, or for another purpose involving the provision of similar services or benefits; or,
2. the period during which the airport sponsor or any transferee retains ownership or possession of the property. In the case of contractors, this provision binds the contractors from the bid solicitation period to the completion of the contract.

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

INCORPORATION OF REGULATIONS. Contractor agrees to negotiate in good faith the incorporation into this Contract any and all statutes, rules and regulations which may now or during the term of this Contract be required by the FAA or other governmental agency as a prerequisite to or a condition of KCAB and/or Contractor receiving any federal or state grant or loan or other governmental assistance.

Federal Fair Labor Standards Act (Federal Minimum Wage). This Contract incorporates by reference the provisions of 29 CFR part 201, the Federal Fair Labor Standards Act (FLSA), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part time workers. The Contractor has full responsibility to monitor compliance to the referenced statute or regulation. The Contractor must address any claims or disputes that arise from this requirement directly with the U.S. Department of Labor – Wage and Hour Division.

Occupational Safety and Health Act of 1970. This Contract incorporates by reference the requirements of 29 CFR Part 1910 with the same force and effect as if given in full text. Contractor must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. The Contractor retains full responsibility to monitor its compliance and their subcontractor's compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (20 CFR Part 1910). Contractor must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor – Occupational Safety and Health Administration.

A.15 BID CONDITIONS AND PROVISIONS

A.15.1 All participating bidders shall comply with all of the conditions, requirements and instructions of this ITB. Any alteration, erasure or interlineation by the bidder may constitute cause for rejection by KCAB. Should KCAB omit anything from this ITB which is necessary to a clear understanding of the work, or should it appear that various instructions are in conflict, then the bidder shall notify the Contract and Procurement Administration Department prior to the deadline for question submissions as per the time and date shown in the Schedule of Events.

Typographical errors in entering quotations on this bid may result in the disqualification of this bid.

All bidders shall complete all information requested in this ITB. Failure to do so may result in the disqualification of bid.

Unit price for each item must be shown for the unit of measurement indicated. In case of error in extension of prices, the unit price will govern.

The successful bidder shall comply with all of this ITB's specifications, terms and conditions.

A.15.2 In submitting bids on any item to be purchased by the Kenton County Airport Board, the bidder hereby agrees to:

A.15.2.a Provide technical specifications together with any other data to evaluate properly brands of products or equipment offered as equal to those specified in the invitation prior to the date the bid is to be opened and to state clearly, on the bid proposal or in an attached letter, any deviation of the brand offered from the brand specified.

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

- A.15.2.b Provide new and current commodities (latest model) unless this Invitation to Bid specifies otherwise.
- A.15.2.c Accept any purchase order awarded on the price, terms and conditions stated in the submitted bid.
- A.15.3 The bidder further agrees that the Kenton County Airport Board may, in addition to any other remedies to which it may be entitled under a purchase order, agreement, or contract arising from this ITB, or which may otherwise be available to it under law or equity, cancel any contract for the following causes.
 - A.15.3.a Failure to make delivery within the time specified in the contract.
 - A.15.3.b Failure to provide commodities, supplies or equipment that conforms with the specifications in the contract, or that fails to conform with samples the bidder submitted.
 - A.15.3.c Where there is sufficient evidence to show that the contract was obtained by fraud, collusion, conspiracy or other unlawful means or the contract violates any statutory or constitutional provision of the Commonwealth of Kentucky or of the United States.
- A.15.4 The bidder further agrees that the following items may be included as compensable damages for any breach of contract with the Kenton County Airport Board:
 - A.15.4.a Replacement cost.
 - A.15.4.b Any cost of repeating the competitive bidding procedure; and
 - A.15.4.c Expenses incurred as the result of delay in obtaining replacements.
- A.15.5 The enumeration of compensable damages contained in this section is not intended to be exclusive and will not operate to bar recovery by the Kenton County Airport Board for any other damages occasioned by the bidder's breach of a contract. However, in cases where the contract provides for liquidated damages, said liquidated damages are in lieu of all other damages, including those enumerated.
- A.15.6 Neither any failure nor any delay on the part of KCAB in exercising any rights, power, or privilege hereunder, or under any document or instrument delivered or executed pursuant hereto, shall operate as a waiver thereof, nor shall a single or partial exercise thereof preclude any right, power, or privilege.
- A.15.7 KCAB is not liable for any costs incurred by bidder in the preparation of bids or for any work performed in connection therein.

A.16 ELECTRONIC SIGNATURES

By submitting a proposal, the proposer consents to its use and acceptance of electronic signatures to execute any awarded contract and associated agreements. Proposer agrees to be bound by electronic signatures to the same legal effect and extent as if manually signed. KCAB expects the successful proposer will execute any awarded contract using KCAB's electronic signature service unless the proposer includes an exception with its proposal signifying its desire to sign manually. Included with the

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

proposal, proposers must identify the following information regarding the person with full authority to legally bind proposer and sign agreements on its behalf:

1. Full Name;
2. Position Title; and
3. Email Address.

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

SECTION B – SPECIFICATIONS

It is the intent and purpose of this specification to describe a truck-mounted self-contained “pumper” application striping machine. The machine must apply reflectorized lines utilizing a water based (latex) or low VOC traffic paint and glass beads. The equipment must be capable of applying this material at ambient temperatures of 70° Fahrenheit on clean, dry pavement. The machine must be capable of applying lines from the left side of the unit and on the right, in either a solid or skip pattern, or combination of these patterns.

The machine must operate in a range of 5 to 12 MPH. All truck parts and materials must conform to the truck manufacturers’ recommendations and the applicable Federal SAE Standards.

The successful bidder (“Contractor”) must provide new and the latest or current year model and be in excellent condition for this contract. Any unit that does not meet this requirement will be returned to the Contractor, at their expense, and replaced with a new unit.

B.1 ONE (1) PAINT TRUCK

B.1.1 MATERIALS & WORKMANSHIP

- All equipment furnished and all parts thereof must be of the manufacturers’ latest listed and published stock models, which meet all the applicable requirements of the specification.

B.1.2 GUARANTEE

- The machine must be guaranteed against defective materials and workmanship for a period of five (5) years after acceptance of the machine, if properly serviced, maintained, and operated under normal conditions according to the manufacturers’ instructions. All guaranteed claims (parts) will be repaired or replaced by the line striper manufacturer. All replacement parts must be shipped to the user within one (1) working day if the parts are available. The vendor must agree to sell all parts needed for the operating life of the equipment, which must be a minimum of ten (10) years. The manufacturer will assume no field expense for service or parts unless authorization is granted in advance. The manufacturer will assume no liability for normal maintenance items, consumable or damage resulting from neglect or abuse of the equipment.
- The vendor must provide all wear parts (hoses, tips, etc.) needed for the first three (3) years after the delivery date of the unit.

B.1.3 STANDARD CHASSIS EQUIPMENT

- 2022 or Newer
- 200” wheelbase or less
- GVWR: 36,000 lbs. or greater
- Front axle GAWR: 13,000 lbs. or greater
- Rear axle GAWR: 23,000 lbs. or greater
- Low speed control: chassis must be set up for low-speed cruise control from factory
- Maximum height: 11’6” in stowed position, 13’6” in operational position
- Color: MUST be Chrome Yellow, Axalta #4357 EB, Imron Elite 3.5 VOC
(sample can be provided)

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

B.1.4 AUXILIARY EQUIPMENT

- One (1) 5 lb. dry powder fire extinguisher mounted in chassis cab
- One (1) 10 lb. dry powder fire extinguisher mounted on equipment deck
- Mud flaps, front and rear
- Piped ¼ inch air supply for a hand take-off mounted at the right-hand corner of the platform

B.1.5 FENDERS FOR REAR WHEELS

- Aluminum fenders must be supplied over the rear wheels. The fenders must be easily removed and reinstalled on the vehicle to facilitate maintenance and serviceability. Mudguards must be installed on the fenders' rear edge.

B.1.6 DIGITAL SPEED METER SYSTEM

- A digital speed meter must be included on the striping unit that will allow the truck operator to read his speed in three (3) digits to aid him in maintaining a desired speed. Must be powered and protected by the skip timer system via a network cable.

B.1.7 REAR BACKUP COLOR VIDEO SYSTEM

- There must be a rear-view backup video system installed on the vehicle. A 7" minimum Color monitor must be mounted in the truck cab. The camera, in a weatherproof housing, must be mounted on the rear of the unit. The system must be pre-wired for 12-volt operation, including a 65-foot interconnect cable. This system must also include a DVR recording system with ability to record information on a 32GB SD Card.

B.1.8 RAILING

- A steel railing must be installed around the platform where necessary and bolted in place. Railing must be constructed of 1¼ inch square tubing. The height of the railing must be 42 inches with a 21-inch-high cross member. Corners must be rounded for operator safety.

B.1.9 LADDER

- Ladders with skid resistant steps must be furnished on sides, one (1) left and two (2) right. Safety chains must be provided to secure the ladders in the stored position.

B.1.10 PLATFORM

- The steel platform must not exceed 96 inches' total width, including all projections, and must be approximately 229 inches long. The platform framing must be constructed of 3-inch structural channel cross members and 5-inch structural longitudinal members to support all required equipment mounted on it. The spacing of the cross members must not exceed 18 inches. Perimeter tubing must be 2"x4".
- The platform must be supported by a minimum of eight (8) equally spaced risers. The risers must be manufactured into a built-in structural channel and must allow a 7.5-inch opening from the top of the chassis rail to the bottom of the platform. This opening will facilitate accessibility to material and control plumbing in the area located between the chassis rails.
- The risers must be welded to the bottom of the platform and fastened to the chassis rails vertical flange by at least two (2) 5/8-inch diameter, grade #8 bolts, in order to transfer the loading on the rails, a soft aluminum spacing must be placed between the risers and the

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

chassis rails top flange. Provisions must be made to permanently secure these spacers in their locations.

- The platform must have 1/8-inch medium pattern steel safety tread surface.

B.1.11 TOOLBOXES

- Two (2) weatherproof toolboxes of adequate size must be supplied and mounted under rear operator seats. The box must have a full face, bottom hinged door with a latch with integral lock. Any special tools needed for adjustments or disassembly of the various machine components must be furnished in these boxes.

B.1.12 FINISH

- The complete machine and all components, including tanks, compressor, etc., must have the following minimum protective coatings applied: one (1) prime coat and one (1) finish coat of paint, unless chromium plated or galvanized. The prime coat material must be specifically compounded for the respective metals to which it is applied.
- Finish Coat Color – platform and above deck: Chrome Yellow to match chassis (Chrome Yellow, Axalta #4357 EB, Imron Elite 3.5 VOC), PPG Delta Grade High Solids Urethane with Enhancer™ or equal, unless otherwise stated. Below deck: components must be painted black.
- All fasteners must be chromium or cadmium plated.

B.1.13 OPERATOR PROTECTIVE CANOPY

- A canopy must be provided to protect the operators from the sun and weather. The structure must be constructed so the roof is sufficiently secured and supported by tubular columns. The structure must be designed to withstand normal traffic speeds. The approximate size of this canopy must be 96 inches wide and 60 inches deep with an inside ceiling height of 72 inches. For the operator's comfort, there must be a padded armrest on the railing. Two (2) dome lights must be mounted in the canopy ceiling, lights must be capable of changing from white to red for night striping.

B.1.14 OPERATOR SEATS

- Two (2) operator seats must be mounted on the vehicle platform. Seats to be Air Suspended. They must be fitted with foam rubber seat cushions, and foam rubber, shoulder-high back rests, with dual arm rests. Covering must be weather resistant plastic. Each must be fitted with a seat belt in accordance with SAE and Federal Standards.
- Water resistant covers must be supplied for the operator's seats

B.1.15 PAINT SUPPLY

- This unit must have a paint storage capacity of 550 gallons (two totes of 275 gallons each). The paint supply for this striper must be totes or refillable portable containers, one side must be dedicated for white and the other for yellow as required by the operator.
- Adequate deck space and hold down clamps must be provided to accommodate the paint totes. These totes must not be included as part of this equipment contract as they will be provided by the paint manufacturer. A two (2) inch quick connect is to be provided to attach

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

to the bulk containers and 2 inches I.D. crush resistant chemical type suction hoses must be provided to connect the low-pressure paint pumps to the paint totes. A recirculation line must be provided for both the yellow and white paint systems to return paint from the low-pressure paint pump back to the tote. This recirculation system will also aid in cleaning of system.

- The platform must be designed to accommodate reusable bulk paint containers. Since paint containers may vary in size and design, it will be necessary to provide for the mounting and securing of any vendor's containers.
- Recirculation lines to each tote, to run air agitators.

B.1.16 FILL/SUPPLY PUMPS

- Two (2) pumps, air operated diaphragm type, with 2-inch ports must be furnished on the truck to transfer paint at the rate of 25 GPM from the storage containers to the tanks on deck (if necessary).
- The pumps must be equipped with Teflon balls and Teflon diaphragms.
- The pump construction must have stainless steel wetted parts. Two (2) 12-foot sections of 2-inch diameter suction hose and a strainer assembly must be provided (one (1) for each paint color).
- Transfer of paint must be done from the right-hand side of the truck.
- Provisions must be provided to clean the pumps by re-circulating cleaner from a cleaner bucket.

B.1.17 GLASS SUPPLY

- A pressurized tank having a capacity of 4,000 lbs. of glass spheres is to be provided. This tank is to be of all steel ASME certified construction with a top opening of not less than 14 inches in diameter. A 0-160 PSI pressure gauge, pressure regulator, 110 PSI pressure relief valve, and auto evacuating moisture trap are to be included and mounted on the tank. In addition, the tank must have a minimum 2-inch sight glass for viewing the bead levels. These sight glasses must meet all ASME and maximum pressure requirements. The sight glasses must allow the operator to determine bead levels at $\frac{3}{4}$ full stage, $\frac{1}{2}$ full stage and $\frac{1}{4}$ full stage.
- By creating a vacuum in the glass tank, glass is to be drawn into the tank without contaminating the vacuum unit. The speed of the unit is to be controlled and a muffler is to assure quiet operation at all times.
- The glass filling system on this unit must include a 12-foot-long, 2-inch I.D. fill hose with all the necessary fittings, including quick disconnect fittings and a new, unused 55-gallon drum with a combination bag splitter and strainer top.
- The glass spheres are to be conveyed under pressure to glass sphere dispensing guns through rubber pressure hoses.

B.1.18 PAINT APPLICATION SYSTEM

- The unit must have a paint supply designed for two-color application. The material supply must be so arranged as to permit the simultaneous operation of four (4) spray guns on the left carriage and two (2) spray guns on the right carriage for berm or edge striping. A stainless-steel strainer must be inserted in each system. The strainer must be cylindrical in design and made from a #16 gauge perforated stainless steel material. The perforation must be an $\frac{1}{8}$ inch in diameter and on approximately $\frac{3}{16}$ -inch centers (33 holes per square inch). No wire strainers are acceptable.

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

- The strainer must be readily accessible and where necessary, valving must be provided to isolate the strainer from the feed line for cleaning. The strainers should be removed for cleaning with a single clamp sealed lid.

B.1.19 PROCESS PLUMBING

- Air piping, tubing or hose used on the vehicle must be firmly attached to the frame or bed, except where flexible conductors are required for proper operation or services.
- All plumbing on the low-pressure side must be constructed of industrial style, stainless steel, 2-inch tube process-clamp type piping, fittings, and ball valves, with at least one-bolt clamp on the low-pressure side. All elbows must be smooth 90° long radius style. Use of pipe thread fittings must be minimized.
- Paint plumbing must be stainless steel. Valves will be ball type with Teflon seals, and valve construction on the low-pressure side must be stainless steel with 4-bolt construction.
- All material conductors other than pipe must be non-metallic, paint and solvent resistant, Teflon lined, (no exceptions) insulated flexible hose. They must be capable of withstanding the respective pressures produced in each system and must not be less than 3/4-inch diameter.
- The pumps, hoses fittings, valves and all components that are in contact with the marking materials must be stainless steel.
- A zippered vinyl jacket must protect all airlines, paint, and bead hoses to each gun carriage.

B.1.20 CLEANER SYSTEM

- An air-operated, gun cleaning system must be installed on the striping machine. It must consist of a 20-gallon ASME certified stainless steel pressure tank with safety valve and valves and piping necessary to introduce cleaner into each paint line.
- An injector system must be piped into the paint hose after the main line valve at the outlet of the heat exchanger. This system must be as close as possible to the outlet of the heat exchanger to clean the paint manifolds and hoses for overnight storage.
- All piping must be solvent resistant type. The tank construction must be with a 4-inch threaded top opening and a full steel skirt support.
- Flush on the fly to be included, with controls in the rear operator console.

B.1.21 AIR NOZZLES

- Each carriage must also have a multi-channel flat jet nozzle, mounted directly in front of each paint spray gun row, to remove dirt and debris from the road surface prior to the application of paint and glass beads. The "on/off/AUTO" air supply to these nozzles must be located in the control boxes. Each air nozzle must have a manual needle valve adjustment air flow control.

B.1.22 PAINT SPRAY GUNS

- Unit must be capable of spraying minimum of 36 inches width of one color. And must be capable of painting 5 six-inch lines simultaneously of two colors. All millage must comply with FAA Par 139 specification.
- The guns must be Kamber Model 38-15 N.B. (no exceptions), capable of applying a 4" wide line at 15 mils at 12 MPH maximum striping speed. The bidder must have available for

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

demonstration at the customer's location, the gun proposed under this section. The guns must carry a minimum warranty of one (1) year.

- The paint gun must be a high quality pneumatically actuated and internally atomizing spray gun. It must be capable of spraying all standard cold and hot applied fast dry paints; oil base, chlorinated rubber, water based latex paint, and premix.
- The main gun body must be machined from a solid block, not exhibiting any seams or connections. All guns wetted components must be manufactured from stainless steel.
- In order to adapt the gun to water-based paint applications it must be easily convertible, from a bleeder to a non-bleeder configuration and reverse the process by either removing or replacing a ball check in the atomizing gun port. The guns must be in the non-bleeder mode, but with the ability to flush gun tips even in the non-bleeder mode ("flush on the fly"). The gun needle packing nut must be adjustable thus enabling the operation to compress the packings to ensure continuous sealing of the needle through the wear period.
- The lower gun assembly must contain a spring-loaded Teflon packing and be of the double-barrel design comprising of a separate fluid nozzle, air nozzle, and exterior nozzle to produce a well-defined 4" to 9" wide painted line with an even paint distribution.
- Each spray gun must have as an integral part, a gun shroud which must produce sharp line definition. The shroud must consist of a round collar that will fit on the gun's air nozzle retainer ring and be an open channel type shroud to facilitate cleaning without removal.
- For better durability and life, the following components: exterior nozzle and fluid nozzle must have a minimum surface hardness of 50 as measured on a Rockwell "B" scale. The needle must be constructed entirely of stainless steel to prevent rusting.
- Gun material inlet must be constructed at a 25° angle to allow maximum material flow.

B.1.23 REMOTE ELEVATORS

- All paint guns must be mounted on electric elevators which will permit remote vertical adjustment for each individual gun to change line width anywhere from 4 inches to 8 inches. The controls must be mounted at the operator's stations.

B.1.24 BEAD GUNS

- There must be installed pneumatically actuated, air atomized glass sphere application guns, Graco Model 238-338 or equal. Gun outlet must be fitted with a glass deflector to allow even distribution of the glass beads on the painted line.

B.1.25 SPRAY GUN CARRIAGE ASSEMBLY

- Two-gun carriage assemblies must be supplied, mounted behind the vehicle's rear wheels, to support and align the spray guns.
- The main carriage, mounted on the left-side of the vehicle, must have provisions for attaching six (6) paint spray guns (3 white, 3 yellow), six (6) glass sphere guns, and six (6) air nozzles.
- Two (2) solid wheels mounted on a caster axle, and mounted on the front of each carriage, must support the carriage, and maintain it at a fixed height from the road surface. The entire unit must be mounted with linear bearings to allow vertical motion but yet keep the spray guns normal to the road surface.
- A pneumatic lift cylinder controlled from the operator's position, must be used to raise the carriage and a safety chain must be provided to support it during transporting.

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

- The cross slide supporting the carriages must allow the carriages to be positioned for transport within the width of the vehicle's platform and permit its use anywhere from this location outward for a distance of 4 feet. The slide mechanism must consist of a rectangular tube within a rectangular tube telescoping design with UHMW, self-lubricating material bearing areas.
- The second spray gun carriage must be provided and mounted along the right side of the striping unit to align and support two (2) paint spray guns, two (2) glass sphere guns, and two (2) air nozzles. The design of this carriage must be identical to the main carriage, and it must also extend 4 feet from the edge of the platform.
- Each carriage slide must be equipped with a hydraulic cylinder for moving the carriage to any point within its operating range. The cylinder must be double action, controlled by a power steering control, and the steering wheel must be conveniently located for the operator.
- A tilting and telescopic steering column must be conveniently located for each operator.
- Each column must include a steering wheel with knob. The power steering control unit and hydraulic hoses must be located under the equipment platform, out of the way of the operators.
- Stacked body, quick acting solenoid valves with a manual override feature must be mounted on each carriage. Valves must be equipped with balanced spool designed to minimize back pressure or restriction in exhaust. The valves must be of a one-piece aluminum design body.
- A pneumatic lift system, with auto lock, must be provided to raise the gun carriage for transport. The control switch must be in the gun box.

B.1.26 AIR COMPRESSOR

- The air compressor must be a Boss DUS unit capable of supplying at least 210 cubic feet of free air per minute at 100 psi.
- All containers must be A.S.M.E. approved for 100 psi working pressure. All necessary safety valves, piping and fittings must be included.
- The compressor engine must be diesel powered, liquid-cooled, four-cycle, four-cylinder, overhead valve construction, heavy duty industrial type. It must include as standard equipment: a fin-tube type radiator, lubricating oil filter, 12-volt electrical system, pushbutton starting, and recommended air filter to be shared with the compressor air intake. The air compressor engine and chassis engine must have a common fuel tank.
- A Schmidt or approved equal, model number 1200-080-03 coalescing moisture extractor must be installed in the main air supply line. It must have a rating of 800 CFM.
- An electric cooling fan must be installed into the main airline to remove heat from the compressed air.
- A common skid base must be provided under the engine and compressor so they may be handled and mounted as a package unit. The compressor must be mounted to the platform longitudinal members. A complete cover with hinged or sliding access panels must be supplied for weather protection.
- The operating control panel must be located at the end of the compressor unit and the unit mounted so that it is at the curb side of the vehicle and include, in addition to operating controls, gauges showing oil and air pressures, water temperature, and voltmeter and an electric hour meter.
- The unit must be furnished with the following accessory items as a standard part of the package: hour meter, oil level gauge, automatic moisture trap for controls, automatic blowdown valve, minimum pressure valve and a hydraulic pump.

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

B.1.27 GUIDANCE SYSTEM – CAB MOUNTED

- There must be supplied a GL-3000-P Laser System using an ultrahigh visibility green laser to establish visual line control for the paint striping machine. The operator adjusts the laser spot to the desired reference point on the road via a remote-control panel located in the cab of the truck.
- The control must have a three-function switch for:
 - Laser On Steady mode
 - Laser On Blinking mode
 - Laser Off
- There must be a corresponding green light located on the laser status panel indicating the laser status:
 - Light On Steady mode
 - Light Blinking mode
 - No Light (Off)
- To position the laser spot to the desired location, i.e., center line, road edge, bike lane, etc., the operator must push the proper buttons for the direction that he/she wants the laser spot to move in; left, right, forward, back, and the laser tracks simultaneously.
- The laser, all optics, mechanical mechanisms, and electronics must be in a rugged, weatherproof housing that is typically mounted to the roof of the truck. This permanent installation must eliminate the need to remove the laser at the end of the day. Two cables must run from the laser housing, one for 12V DC power, the other for system control in the cab.
- Specifications:
 - Laser - 532mm Class IIIA
 - Power - 12V DC 4.0 amps/hour (Max Operating)
 - Operating Temperature - +36° - +120° F.
 - Power/Control Cable Length - Approximately 20 Feet (from laser box) to DB15 Connector for Control Box
 - Laser Box – Approximately, 6-1/8 H x 6-1/2 W x 12 L Inches.
 - Shipping Weight - 25 Lbs. - Approximate

B.1.28 LASER GUIDANCE SYSTEM – CARRIAGE MOUNTED

- There must be supplied two (2) carriage mounted GL-3000-PM Laser Systems using an ultra-high visibility green laser to establish visual line control for the paint striping machine. The operator adjusts the laser spot to the desired reference point on the road.
- The control must have a three-function switch for:
 - Laser On Steady mode
 - Laser On Blinking mode
 - Laser Off
- There must be a corresponding green light located on the laser status panel indicating the laser status:
 - Light On Steady mode
 - Light Blinking mode
 - No Light (Off)
- The laser, all optics, mechanical mechanisms, and electronics must be in a rugged, weatherproof housing. Two cables must run from the laser housing, one for 12V DC power, the other for system control in the cab.
- Specifications:

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

- Laser - 532mm Class IIIA
- Power - 12V DC 4.0 amps/hour (Max Operating)
- Operating Temperature - +36° - +120° F.
- Power/Control Cable Length - Approximately 20 Feet (from laser box) to DB15 Connector for Control Box
- Laser Box – Approximately, 4-1/2 H x 4-1/4 W x 9 L Inches
- Shipping Weight - 25 Lbs. - Approximate

B.1.29 CARRIAGE MARKER LIGHTS

- Flashing LED amber/red marking lights must be mounted at each extreme extension of the outrigger carriage.

B.1.30 LIGHTING, PLATFORM LED

- Marker and clearance lighting must be LED and recessed flush mounted in grommets.

B.1.31 LIGHT BAR

- The striping unit must be equipped with (2) amber LED cab roof mounted mini light bars.
- Lights must be Class 1 with dimming option for nighttime use
- The control switches must be a lighted rocker type switch located in the truck cab.

B.1.32 STROBE LIGHTS

- Twelve (12) amber LED strobe lights must be mounted on top of the truck cab. (4 on the back, 2 on each side, 4 on front grill.)
- Lights must be Class 1 with dimming option for nighttime use
- The control switch must be a lighted rocker switch, located in the truck cab.

B.1.33 NIGHT LIGHTING SYSTEM

- Seven (7) 12 volt high-output rectangular LED work lights must be provided on the unit for nighttime striping operations
- Two (2) lights must be mounted on the deck area to illuminate the equipment
- Two (2) lights must be mounted on the front of the carriage to illuminate the road in front of the guns
- Two (2) lights must be mounted behind the carriages, illuminating the carriage/guns
- One (1) light must be mounted near the paint fill pump.

B.1.34 SKIPTIMER SYSTEM

- Make and model requested: SC-12 Control System by Skip-Line
- It is the stated intent of this specification to describe a highly reliable, easy to use, simple to install, compact skip-setting mechanism that requires little or no maintenance and no clutches, cams, gears, bearings, or devices that must be adjusted while at rest.
- The skip timer control boxes must use mid-sized IP67 rated toggle switches and must use sealed pushbuttons for menu navigation.
- The skip timer control box must have a full color, 4.3” screen. The color menu system must provide an animated preview of skip timer patterns, reflecting current settings and switch positions and must provide guided calibration processes for distance and pump calibrations.

**KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)**

The color menu system must have a descriptive information system to provide the operator with information about errors, warnings, and skip timer operation. There must be a switch test menu, for in-field diagnosis of switch failure, incorporated into the color menu system.

- The skip timer system must communicate using CAN bus serial communications protocol. It must have an operating temperature range from 33° Fahrenheit to 140° Fahrenheit and a storage temperature range of 10° Fahrenheit to 160° Fahrenheit.
- The skip timer output boxes must directly drive all loads (air dusters, material guns, bead guns, double drop bead guns, etc. where applicable). All outputs must be solid state. To simplify diagnostics, the skip timer output boxes must have driver indicator LEDs for all driver outputs.
- The skip timer must accept motion signals from a magnet wrapped driveline collar. All motion signal sources will maintain a 0.1' resolution during normal road marking operations. The skip timer system software must be field upgradeable via USB drive, and the hardware must be field upgradeable using hub expansions ports for adding more driver output boxes, sensor input boxes, or data logging equipment.
- The skip timer must separately track skip and solid distance painted per gun, and paint consumption from pump strokes, into internal, non-volatile counters.

B.1.35 DATA LOGGING

- Make and model requested: DL-18 Data Logger by Skip-Line.
- It is the stated intent of this specification to describe a highly reliable, easy to use, simple to install, compact road marking Data Logger.
- The touch screen interface must have integrated data logging software contained with its dedicated hardware. Laptop- or PC-based data loggers will not be accepted.
- The data logger must receive all sensor and system data via CAN network. Direct sensing of pneumatic or actuator solenoids will not be accepted.
- The data logger must allow input for, and record, the following custom fields for tracking and filtering work accomplished:

Common Fields (Custom fields are required):		
Job Name	Crew Name	Highway
Mileposts	Material Batch Numbers	

- The data logger must record the following data and performance measures:

Date & Time	Road surface temperature	Solid/Skip/Total footage by line width
Material usage (volume)	Ambient temperature	
GPS Coordinates	Relative temperature	
Material temperatures (multiple temperature readings allowable, such as tank, manifold, heat exchanger, or line temperature near the gun.)		Odometer (total distance striping system engaged)
Bead usage (weight), for up to six bead tanks. (Special beads or powdered compounds, such as VisiLok, 3M Element, etc. must be trackable with separate usage and application rates.)		

- Data must be recorded as raw snapshots to allow for broad data analysis and fraud or data tampering detection. Reports may be printed from the vehicle.

KENTON COUNTY AIRPORT BOARD
INVITATION TO BID
PAINT TRUCK (#22-92)

Full page (8.5"x11") allows for more complex reporting requirements.
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B.1.37 RADIOS

- Installation of KCAB radios, provided by KCAB, will be installed by the manufacturer
- KCAB will provide specs for radios to be installed

B.1.37 TECHNICAL MANUALS

- The successful bidder must supply two (2) sets of electronic version operator's manuals, service manuals, parts books, wiring diagrams and applicable technical information for each machine purchased.

B.1.38 TECHNICAL SERVICES

- The services of at least one (1) competent technician, trained in the use and operation of the striping machine, must be furnished for a period of three (3) consecutive days to be scheduled at the discretion of the Authority for each machine purchased. This service must be provided to instruct the purchaser's personnel in the use, operation, and maintenance of the machine on acceptance.
- The services of at least one (1) competent technician, trained in the use and operation of the striping machine, must be furnished on a yearly basis for three (3) consecutive years to be scheduled at the discretion of the Authority for each machine purchased. This service must be provided as a refresher to instruct the purchaser's personnel in the use, operation, and maintenance of the machine.

B.1.39 PRE-CONSTRUCTION MEETING

- Manufacturer will provide onsite pre-delivery inspection of the paint machine. They will cover any cost for transportation, boarding, and meals for 3 KCAB employees to come and inspect the machine prior to the delivery of the unit. They must be able to use the unit and inspect all of the aspects of the unit prior to this unit being shipped to KCAB.