

THE CITY OF MENTOR  
8500 CIVIC CENTER BOULEVARD  
MENTOR, OH 44060

SPECIFICATIONS AND BID FORMS FOR:  
**PURCHASE OF SELF CONTAINED AIRLESS PAINT STRIPING  
MACHINE TO BE MOUNTED ON A 2021 CHEVROLET CAB-OVER  
TRUCK**

CONTENTS:

I. LEGAL NOTICE ..... Page LN-1  
II. INSTRUCTIONS TO BIDDERS ..... Pages IB-1/4  
III. BUSINESS ENTITY RESOLUTION ..... Page BER-1  
IV. BIDDERS ACCEPTANCE TO CONTRACT ..... Page BAC 1-5  
V. SPECIFICATIONS ..... Page 6 - 23  
VI. PROPOSAL-CONTRACT FORM ..... Pages 24 - 25  
VII. STATEMENT OF BIDDER QUALIFICATIONS..... Pages 26 - 27

CITY OF MENTOR  
PURCHASING OFFICE

**DATE: Monday, DECEMBER 28, 2020**

**12:00 noon**

**ALL BIDS SUBMITTED MUST INCLUDE THE REQUIRED BID DEPOSIT  
AND A PROPERLY EXECUTED BIDDERS ACCEPTANCE TO  
CONTRACT (BAC-1).**

## **I. LEGAL NOTICE**

The CITY OF MENTOR will receive sealed bids at the Purchasing Office, 8500 Civic Center Blvd., Mentor, Ohio 44060, until NOON (local time) on Monday, December 28, 2020 for:

### **PURCHASE OF A SELF-CONTAINED AIRLESS PAINT STRIPING MACHINE TO BE MOUNTED ON A 2021 CHEVROLET CAB-OVER TRUCK**

Bids must be in accordance with specifications advertised on the City of Mentor website: [www.cityofmentor.com/category/rfp](http://www.cityofmentor.com/category/rfp) or RFP's will be available for pick-up at the Purchasing Office for the cost of printing. Bidders are responsible for checking for Addenda and obtaining any from the website.

Kenneth Filipiak, City Manager  
([cityofmentor.com/legal notices](http://cityofmentor.com/legal%20notices))

NEWS HERALD:  
PUBLISH DATES:

December 14, 2020  
December 21, 2020

## II.

### INSTRUCTIONS TO BIDDERS

*The Instructions to Bidders governs, except where amended by the Specifications.*

The Bidder is responsible for reading and understanding all items herein:

1. Except as otherwise provided herein, the Instructions to Bidders, Proposal-Contract Form, and all specifications, drawings and other documents referred to herein shall be a part of the contract.

2. DEFINITIONS:

A. The term "Bidder" or "Contractor" shall mean the corporation, partnership or individual proposing or under contract to furnish the material, labor, and/or equipment listed in the Specifications.

B. The term "City" shall mean the City of Mentor, Ohio.

C. "Calendar Day" shall mean every day shown on the calendar.

D. "City Manager" shall mean the Mentor City Manager or his duly authorized representative.

3. PROPOSAL: To be entitled to consideration, a proposal must be made in accordance with the following instructions:

A. Preparation: Each proposal shall be submitted on the forms furnished by the City. All signatures shall be clearly and legibly written in long hand. No oral, facsimile or telephonic proposal or modifications will be considered. Each proposal shall show the breakdown for each item as directed on the Proposal-Contract Form. All proposals shall be considered informal which contain items not specified in the Proposal-Contract Form.

Prices for material and equipment shall include transporting and delivery to any place designated on the City's purchase order, within the corporate limits of the City. In the event of a discrepancy between unit proposal prices and extension thereof, the unit proposal price shall govern.

B. Names of Bidders: Each proposal shall give the full business address of the Bidder(s) and be signed by them with their usual signature. Proposals by partnerships shall furnish the full names of all partners and shall be signed with the partnership name by one of the members of the partnership or by an authorized representative, followed by the signature and title of the person signing.

Proposals by corporations must be signed with the legal name of the corporation, followed by the name of the state of incorporation and by the signature and title of the President, Secretary or other person authorized to bind it in the matter.

The name of each person signing shall also be typed or printed below the signature. A proposal by a person

who affixes to their signature the word "President," "Secretary," "Agent" or other title without disclosing their principal may be held to be the proposal of the individual signing.

When requested by the City, satisfactory evidence of the authority of the officer or agent signing on behalf of a corporation or partnership shall be furnished.

C. Delivery: The proposal shall be sealed in an envelope, addressed to:

City of Mentor  
c/o Purchasing Department  
8500 Civic Center Boulevard  
Mentor, Ohio 44060

and delivered to the office of the Purchasing Coordinator on the date set forth in the legal advertisement. The sealed envelope shall also bear the name of the Bidder, the general item(s) proposed, and the date the proposals are to be opened. Proposals will be received until the date and time specified in the legal advertisement. Proposals will be opened and read immediately thereafter, in 2nd Floor Conference Room, Mentor Municipal Center. Proposals received after the date and time specified will be returned unopened to the Bidder.

D. Proposal to Include All Work: Each proposal shall include all equipment, material, supplies or services described in the Instructions to Bidders, Specifications, Proposal-Contract Form and all drawings.

E. Withdrawal of Proposal: Permission will not be given to withdraw or modify any proposal after it has been deposited as provided above. Negligence on the part of a Bidder in preparing the proposal confers no right for the withdrawal of the proposal after it has been opened.

F. Acceptance or Rejection of Proposal: The City reserves the right to accept any proposals within sixty (60) calendar days after the same are opened, as provided above. The City reserves the right to accept any proposals which, in its opinion, are deemed to be in the best interest of the City. The City reserves the right to reject any or all proposals.

In determining the award, each item may be considered separately, and separate contracts may be awarded on the various items, unless specified to the contrary in the Specifications.

G. Proposal Bond or Check: Each proposal must be accompanied by a cashier's or certified check, an irrevocable letter of credit, or by a proposal bond, signed by a surety company authorized to do business in the State

of Ohio, in the amount of five (5) percent of the proposal and made payable to the City of Mentor, as a guarantee that the contract will be honored in the event it is awarded to the Bidder, and as a guarantee that the Bidder to whom the contract is awarded will sign all documents necessary to formalize the contract, if any.

H. Forfeiture of Check or Proposal Bond: If the Bidder to whom the contract is awarded shall fail to honor the contract, or fail to sign the documents necessary to formalize the contract, if any, the deposit accompanying the proposal shall thereupon be forfeited to the City for and as liquidated damages. The work may then be readvertised or awarded to the deemed second best Bidder as the City may determine.

I. Quantities: The quantities of the work shown on the Specifications and Proposal-Contract Form are estimated by the City and will be used as the basis for comparison of the proposals only. The City reserves the right to decrease or increase any quantities and to eliminate any item(s) on the plans or proposal.

J. Informal Proposals: Proposals may be rejected for the following reasons:

- 1) If the proposal is on a form other than that furnished by the City or if the form is altered or any part thereof detached.
- 2) If there are any unauthorized additions, conditional or alternate proposals, or other irregularities of any kind which may tend to make the proposal incomplete, indefinite or ambiguous as to its meaning.
- 3) If the Bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award. This does not exclude a proposal limiting the maximum gross amount of awards acceptable to any one Bidder at any one proposal letting, provided that the City will make any selection of awards.
- 4) If the proposal does not contain a unit price for each pay item listed, except in the case of authorized alternate pay items or lump sum items.

4. A. Competency of Bidders: No proposal will be considered unless the Bidder submitting the same shall furnish evidence satisfactory to the City Manager that they have the necessary equipment, ability and financial resources to fulfill the conditions of the contract and Specifications. Previous experience and responsibility of the Bidders will be considered in awarding the contract. No contract will be awarded to any Bidder who is in arrears to the City upon debt or contract, or who is in default as surety or otherwise upon any obligation to the City.

B. Disqualification of Bidders: Any of the following reasons may be considered as being sufficient for the disqualification of a Bidder and the rejection of their proposal or proposals.

- 1) More than one proposal for the same work from an individual, firm or corporation under the same or different names.
- 2) Evidence of collusion among Bidders. Participants in such collusion will receive no recognition as Bidders for any further work of the City until any such participant shall have been reinstated as a qualified Bidder.
- 3) Proposal prices that obviously are unbalanced.

5. WRITTEN AND ORAL EXPLANATIONS: Should a Bidder find discrepancies in, or omissions from, the drawings or Specifications, or should they be in doubt as to their meaning, they shall at once notify the City, which may send written instructions to all Bidders. The City will not be responsible for any oral instructions.

6. ADDENDUM OR MODIFICATION: Any addendum or modification issued during the time of bidding shall be covered in the proposal and in awarding a contract, such addendum or modification will become part thereof. In the event any such addendum or modification is issued by the City within 72 hours of the time set for the closing of proposals, excluding Saturdays, Sundays and legal holidays, the time for submitting proposals shall be extended one (1) week, with no further advertising of proposals.

7. TAX EXEMPTIONS: The City is exempt from federal excise and transportation taxes and Ohio State sales tax. Prices quoted should not include either federal excise or Ohio State sales tax. Tax exemption certificates covering these taxes will be furnished upon request.

The transportation tax is not applicable on any purchase consigned to the City and no tax exemption certificate is required. If for any reason a contemplated purchase would not be tax exempt, this fact will be indicated in the Specifications, and such taxes may be included in the price or shown as a separate item in the proposal.

8. DISCRIMINATION: In hiring of employees for the performance of work under this contract or any subcontract, neither the Contractor, subcontractor, nor any person acting in their behalf shall by reason of race, creed, color, age, sex or handicap discriminate against any citizen of the State in the employment of any laborer or worker who is qualified and available to perform the work to which the employment relates.

Neither the Contractor, subcontractor, nor any person in their behalf shall in any manner discriminate against or intimidate any employee hired for the performance of work under this contract on account of race, creed, color, age, sex or handicap.

9. INSURANCE: If the Specifications indicate insurance is required, then the Contractor shall obtain and pay for the following types of insurance:

- (a) Commercial General Liability insurance with minimum limits of not less than \$1,000,000 combined single lim-

it. Coverage is to include contractual liability, a per project general aggregate limit, primary and non-contributory other insurance provision, waiver of subrogation in favor of the City and additional insured status for the City including ongoing operations and products and completed operations. If such coverage is written on a Claims Made or Claims Made and Reported basis, (i) such coverage will have a retroactive date that is equal to or that precedes the date of the contract and be maintained for a minimum period of not less than three (3) years after the termination or expiration of the contract, (ii) may be replaced with other Claims Made or Claims Made and Reported coverage with a retroactive date that is equal to or that precedes the date of the contract and maintained for a minimum period of not less than three (3) years after the termination or expiration of the contract or (iii) may be cancelled after the termination of or expiration of the contract only if it is replaced by an extended reporting period with a duration of not less than three (3) years.

- (b) Automobile Liability insurance providing coverage for all owned, non-owned and hired automobiles with minimum limits not less than \$1,000,000 combined single limit. Coverage shall include additional insured status for the City and a waiver of subrogation for the City.
- (c) Worker's Compensation which meets all statutory minimum requirements

All policies must be written with insurance companies acceptable to the City. All policies are to provide the City with thirty (30) days advanced written notice of cancellation or non-renewal with the exception of cancellation for non-payment of premium which shall be ten (10) days. Contractor shall supply certificates of insurance evidencing the required coverage and shall furnish renewal certificates thirty (30) days prior to the renewal date. Failure of the City to request certificates does not relieve the Contractor from the obligation to maintain the required insurance.

- 10. **LIABILITY:** The Bidder shall defend, indemnify, and save harmless the City and its officers and agents from all claims, demands, payments, suits, actions, recoveries and judgments of every description, whether or not well founded by law, brought or recovered against it, by reason of any act or omission of said Bidder(s), their agents, subcontractors or employees, in the execution of the contract, or for the use of any patented inventions by said Bidder. A sum sufficient to cover aforesaid claims, including attorneys' fees, may be retained by the City from monies due or to become due to the Bidder under contract, until such claims shall have been discharged.
- 11. **ROYALTIES AND/OR LICENSE FEES:** The Bidder shall pay all royalties and license fees. The Bidder herein agrees to assume and save the City, its officers and agents harmless from liability of any kind or nature whatsoever, arising out of the use by the City, its officers and agents of any item, appliance, apparatus or mechanism, material or service which may be furnished or installed by the Bidder under the terms of this contract, including patent or copyright in-

fringement, and to defend the City from any and all such liabilities whether or not such claims are well founded by law.

- 12. **ASSIGNMENT OF CONTRACT:** The Bidder who is awarded a contract shall not assign, transfer, convey, sublet or otherwise dispose of said contract, or right, title or interest in or to the same, or any part thereof, without previous consent in writing from the City Manager, endorsed on or attached to the contract.
- 13. **CANCELLATION:** Should the material(s) supplied or delivered to the City under this contract fail at any time to meet the Specifications required by the contract, then in such event, the City may cancel this contract upon written notice to the Bidder.
- 14. **CONTROL OF WORK:** The City Manager, or his designated agent, will decide all questions which may arise as to the quality and acceptability of materials furnished and work performed and as to the rate of progress of the work; all questions which may arise as to the interpretation of the plans and Specifications; all questions as to the acceptable fulfillment of the contract on the part of the Contractor, and as to compensation.
- 15. **CLAIMS FOR ADJUSTMENT AND DISPUTES:** If, in any case, the Contractor deems that additional compensation is due for work or material not clearly covered in the contract or not ordered by the City Manager as extra work, as defined herein, the Contractor shall notify the City Manager in writing of their intention to make claim for such additional compensation before they begin the work on which the claim is based. If such notification is not given and the City Manager is not afforded proper facilities by the Contractor for keeping strict account of actual costs as required, then the Contractor hereby agrees to waive any claim for such additional compensation. Such notice by the Contractor, and the fact that the City Manager has kept account of the cost aforesaid, shall not in any way be construed as proving or substantiating the validity of the claim. If the claim, after consideration by the City Manager, is found to be just, it will be paid as extra work in the amount as approved by the City Manager.
- 16. **DURATION OF CONTRACT:** The duration of the contract shall be for the period stated in the Specifications, and shall include all material, equipment and/or services ordered or delivered during the period. All prices quoted shall be for a definite fixed period unless otherwise noted in the Specifications.
- 17. **PURCHASES:** After a contract has been signed, it shall only become operative upon delivery to the Bidder a duly signed purchase order. The City shall only be obligated under the contract to the extent of such purchase order. The City shall not become liable for any claims in the event that the total quantity of material ordered or services performed under the contract should prove to be greater or less than the estimated amount in the Specifications.
- 18. **DELIVERY:** The Bidder agrees to make deliveries of supplies and materials within a reasonable period from the time purchase orders are received, which reasonable time is estimated to be thirty (30) days.

If deliveries are not made within such period, then the City may purchase such items in the open market; and if the prices paid by the City shall be greater than the contract price, the Bidder agrees to reimburse the City for any loss or losses that the City may thereby sustain.

Delivery time for vehicles and equipment may be extended beyond thirty (30) days, provided the Bidder has noted the delivery time in the appropriate space on the Proposal-Contract Form.

19. PAYMENT OF INVOICES: Invoices will be due and payable within thirty (30) days of receipt of the invoice by the City. All invoices should be mailed to the attention of the Accounts Payable Department. Payments may be made on a basis of estimated partial completion of work or delivery, and the City may withhold a percentage of each partial payment until completion of the contract. The City may withhold a percentage of the final estimate for a specified period as a guarantee. Such a procedure for partial payments must be provided for in the Specifications.
20. CONTRACT BOND: The successful Bidder will be required to furnish the approved bond for the faithful performance of the contract in the amount of one hundred percent (100%) of the contract price. Such bond shall be that of an approved surety company or personal bond upon which the sureties are persons not interested in the contract, or, if interested, collateral security shall be furnished, all of which is to be to the satisfaction of the Law Director, including sureties.  
  
In lieu of a performance bond the City may elect to hold the Proposal Deposit Check, submitted with the proposal, until the contract has been fulfilled. **Any deviation from the required one hundred percent (100%) figure will be noted in the Specifications.**
21. GENERAL: Contractors shall furnish all labor, equipment, materials, services and supplies necessary to complete the proposed work. All work shall be performed according to all standards of good workmanship complete in every detail. Contractors shall coordinate their work with the work of others and, upon completion, remove tools, equipment, waste and debris and leave the site in "broom-clean" condition. Contractors shall warrant all equipment, materials, services and supplies with the normal and usual warranties, including, where applicable, warranties of merchantability and fitness for a particular purpose.
22. WAIVERABILITY: The City of Mentor reserves the right to accept any part of any proposal and reject all or parts of any and all proposals, and waive any informalities in the bidding procedure.
23. PREVAILING WAGE: Contractors must comply with ORC Chapter 4115 when applicable. It is the Contractor's responsibility to contact the City's Prevailing Wage Coordinator to determine requirements.
24. TAXES: Contractor shall pay and/or withhold all sales, consumer, use, employment and other taxes (including the City of Mentor 2% income tax) paid or withheld by Contract-

tor in accordance with the Laws and Regulations of the United States, State of Ohio and City of Mentor which are applicable during the performance of the work.

QUESTIONS: Call the Finance Department at (440) 974-5776.

### III. BUSINESS ENTITY RESOLUTION

\_\_\_\_\_, of \_\_\_\_\_  
(Name of Officer) (Name of Business Entity)

an \_\_\_\_\_ Business Entity hereby certifies that the following is a true  
(State where incorporated/organized if applicable)

and correct copy of a resolution duly adopted by the Board of Directors of \_\_\_\_\_,  
(Business Entity Name)

on \_\_\_\_\_, \_\_\_\_\_, to wit:  
(Month, Day) (Year)

“Resolved, that \_\_\_\_\_\* of this Business Entity, namely  
(Name of Officer)

\_\_\_\_\_, be and he/she hereby is authorized and directed to enter into any and all  
(Title of Officer)

contracts, bid guaranty and performance bonds with **THE CITY OF MENTOR, OHIO**, for the purpose of

furnishing labor and/or materials as to \_\_\_\_\_  
(Title of Bid)

at such price and upon such terms and conditions, including any amendments or modifications thereto, as

said \_\_\_\_\_ in his/her sole discretion shall deem best,  
(Title of Officer)

and that said actions shall be binding upon the Business Entity.

“Resolved, further, that said \_\_\_\_\_\* be, and he/she further is  
(Name of Officer)

hereby authorized and directed to execute and deliver unto said **CITY OF MENTOR, OHIO** other  
instruments which in his/her discretion he/she shall deem necessary to carry out the forgoing resolution.”

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Business  
Entity (if applicable) at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_,  
and I further certify that said resolution is still in force and effect.

\_\_\_\_\_  
**SECRETARY**

**SEAL**

BER-1

\*Name must agree with signature on page Bidders Acceptance to Contract

#### **IV. BID SUBJECT TO ACCEPTANCE AS CONTRACT**

Page intentionally left blank, contact Veronica Fetsko at [fetsko@cityofmentor.com](mailto:fetsko@cityofmentor.com) or 440-974-5776 for the omitted form.



## B. NOTICE OF AWARD

Whereas, \_\_\_\_\_ responded to an invitation to bid as to pavement lane marking services and whereas said bid by \_\_\_\_\_ was approved by the City Council as the lowest and best bid, now, therefore, the City of Mentor awards the contract subject to final acceptance below to \_\_\_\_\_ to be performed pursuant to the terms and conditions specified in the following documents (component parts):

1. Instructions to Bidders
2. Bond or Certified Check
3. Specifications: General Requirements/Contractor's Responsibilities
4. Proposal/Contract Form
5. Other

\_\_\_\_\_  
Veronica Fetsko, **Purchasing**

\_\_\_\_\_  
**Date**

## C. VENDOR AGREEMENT

\_\_\_\_\_ hereby agrees to perform the services as bid and agrees to abide by all terms and conditions as identified. In the event of contradiction or ambiguity between the paragraphs contained in the *Instructions to Bidders* versus the other more specific paragraphs under *Specifications: General Requirements/ Contractor's Responsibilities, Proposal/Contract Form, Other*, the paragraphs in the *Specifications: General Requirements/Contractor's Responsibilities, Proposal/Contract Form and Other*, shall control. And whereas, the City of Mentor intends to be bound by the contract, it will pay to \_\_\_\_\_ the sums so stated in the *Proposal/Contract Form* upon satisfactory delivery of the goods and/or performance of the service.

\_\_\_\_\_ has reviewed the above component parts of the contract documents and finds no ambiguity in the terms and conditions thereof.

\_\_\_\_\_  
Company Officer

\_\_\_\_\_  
**Date**

**D. ACCEPTANCE BY THE CITY OF MENTOR**

THE FOREGOING CONTRACT IS HEREBY ACCEPTED AS TO ALL OF THE COMPONENT PARTS AND, IN SPECIFIC, TO ITEM(S) #

Item(s) #

Pursuant to Ordinance \_\_\_\_\_ Passed on \_\_\_\_\_.

By the Council of the City of Mentor, for the period through \_\_\_\_\_.

**FUNDS AVAILABLE:**

\_\_\_\_\_  
David W. Malinowski, *Finance Director*

\_\_\_\_\_  
*Date*

\_\_\_\_\_  
Kenneth J. Filipiak, *City Manager*

\_\_\_\_\_  
*Date*

**APPROVED AS TO FORM:**

\_\_\_\_\_  
Richard A. Hennig, *Law Director*

\_\_\_\_\_  
*Date*

**E. ESCROW WAIVER**

In accordance with a certain Contract between the City of Mentor, (hereinafter referred to as "the Owner") and \_\_\_\_\_, (hereinafter referred to as "the Contractor"), it is mutually agreed by and between the parties hereto that because of the short term duration of the within contract, no escrow account will be established pursuant to Sections 153.13, 153.14 and 153.63 of the Ohio Revised Code nor shall any interest be paid on any retainage.

CITY OF MENTOR

\_\_\_\_\_  
Kenneth J. Filipiak, City Manager

COMPANY

\_\_\_\_\_

# DELINQUENT PERSONAL PROPERTY STATEMENT

\_\_\_\_\_ having been awarded a contract by the City of Mentor, hereby affirms under oath, pursuant to Ohio Revised Code Section 5719.042, that at the time the bid was submitted, my company **was / was not** charged with delinquent personal property taxes on the General Tax List of Personal Property for Lake County, Ohio.

If such charge for delinquent personal property tax exists on the General Tax List of Personal Property for Lake County, Ohio, the amount of such due and unpaid delinquent taxes, including due and unpaid penalties and interest, shall be set forth below.

This statement shall be incorporated into the Contract made between the City of Mentor and \_\_\_\_\_ and no payment shall be made with respect to any Contract unless such statement has been so incorporated as a part hereof.

Delinquent Personal Property Tax \$ \_\_\_\_\_

Penalties \$ \_\_\_\_\_

Interest \$ \_\_\_\_\_

Signed: \_\_\_\_\_

Subscribed in my presence, and sworn to before me, this \_\_\_\_\_ day of \_\_\_\_\_, 2021.

Signed: \_\_\_\_\_  
(Notary Public)

## V. SPECIFICATIONS FOR THE PURCHASE OF SELF-CONTAINED AIRLESS PAINT STRIPING MACHINE TO BE MOUNTED ON A 2021 CHEVROLET CAR-OVER TRUCK

### A. GENERAL REQUIREMENTS

- 1.0 Intent: It is the intent and purpose of this specification to establish the minimum requirements for a self-contained airless paint striping machine to be mounted on a 2021 Chevrolet W5500XD cab-over truck.

The paint striping machine must have factory warranty and with the purpose of meeting the specifications outlined below.

Recommendation regarding other options that would be a benefit to the package are welcome. Indicate and price those options on the Proposal Sheet.

The bid award shall be based upon competitive bidding and awarded to the lowest responsible bidder that includes the required specifications. The bid shall include a specification sheet indicating vehicle equipment, warranty information and available delivery date.

The City of Mentor and Public Works Department reserves the right to reject any bid not in compliance with all prescribed public bidding procedures and requirements, and may reject for good cause any or all bids upon findings if it is in the public interest to do so. The City reserves the right to accept or reject any or all bids and to waive minor formalities.

- 2.0 Exceptions to Specifications: The bids will meet or exceed all specifications listed. Substitutions and/or articles to be omitted shall be listed on the proposal. Failure to list any exception may render a bid incomplete.

Questions to be directed to Matt Schweikert, City of Mentor Public Works Director, [schweikert@cityofmentor.com](mailto:schweikert@cityofmentor.com); 440-974-5780.

- 3.0 Quality of Product: Unless otherwise indicated in this bid, it is understood and agreed that any item offered or shipped on this bid shall be new and in first class condition and suitable for shipment.
- 4.0 Warranty: Manufacturer's warranty bidder shall submit written conditions and periods of warranty with the bid proposal.

- 5.0 O.S.H.A.: Bidder shall comply with the provisions of the Occupational Safety and Health Act and Standards and Regulations issued thereunder and certify that all items conform to and comply with said standards and regulations.
- 6.0 Service and Delivery: Price bid must include all charges, including handling and delivery. Dealer preparation and conditioning required prior to delivery. Any increase in rates becoming effective after the date hereof shall be absorbed by the seller. Quote length of time after purchase order is issued for initial delivery.

Delivered equipment not conforming to these specifications will be rejected.

- 7.0 Delivery: Deliveries must be made between 8:00 a.m. and 2:30 p.m., Monday through Friday, except holidays.
- 8.0 Payment Terms: Standard payment terms are NET THIRTY (30) DAYS after invoice date unless specifically indicated.
- 9.0 Proposal (Bid) Bond: In accordance with Section 3G of the Instructions to Bidders, is hereby amended. A certified check or bond in the amount of \$500 must accompany the proposal.
- 10.0 Contract (Performance) Bond: Section 20 of the Instructions to Bidders is hereby amended. The successful bidder will be required to furnish a performance bond or certified check in the amount of \$500. *The City may elect to hold the bid deposit check as the contract bond.*
- 11.0 SalesTax: No charges will be allowed for federal, state or municipal sales and excise taxes since the City of Mentor is exempt. Tax Exempt form available at time of issued Purchase Order.
- 12.0 Hold Harmless Agreement: By acceptance of this Purchase Order, the Contractor shall defend, indemnify and hold harmless the City and its officers and employees from and against all losses, liability, damages, injuries, claims, demands, costs and expenses of every kind and nature arising out of or in connection with the actions or inactions of the Vendor, its employees, agents, and subcontractors.

## B. MINIMUM REQUIREMENTS

These specifications detail minimum requirements acceptable to the City of Mentor. Should the manufacturer's current specifications exceed these, they shall be considered minimum and shall be furnished, and equipment

and components included in the bid shall be stipulated. Any additions, deletions, or variations from the minimum must be stated in the space provided with the specifications. No entry on the "Exceptions to Specifications" form will be indicative of full compliance.

Any and all parts not specifically mentioned in these specifications but which are required for proper and safe operation of the vehicle(s) shall be furnished by the bidder and shall conform in strength, quality of material and workmanship to that provided by the automotive industry in general. All items not specifically mentioned but which are standard factory items shall be furnished.

## 1.0 GENERAL

It is the intent and purpose of this specification to establish the minimum requirements for a self-contained airless paint striping machine to be mounted on a 2021 Chevrolet W5500XD cab-over truck. This unit shall be capable of being used to apply reflectorized lines, having a wet film thickness of 0.015 inches of high viscosity waterborne line marking material. The equipment must be capable of applying this material at speeds up to 10 mph at temperatures as low as 50 degrees Fahrenheit on clean dry surfaces.

The machine shall be capable of simultaneously applying 3 lines in 2 colors of high viscosity waterborne traffic paint. It shall be capable of applying either a solid or skip pattern or any combination of these patterns.

It is the intentions of these specifications to describe a road marking machine that has 100% 300 grade (303, 304, 316) stainless steel wetted metallurgy. By wetted metallurgy, we are referring to any metal part that is exposed or comes in contact with the traffic paint. No wetted parts are to be constructed of nor contain steel, carbon steel, galvanized steel, 400, 410, 416 grade stainless steel, cast iron, ductile iron, brass, bronze, copper, aluminum or zinc plating. No exceptions are allowed. These metals are not compatible with waterborne traffic paint.

## 2.0 CAB AND CHASSIS

The truck shall meet the following minimum requirements:

### 2.1 DIMENSIONS

Wheelbase nominal 132"

## 2.2 GVW

Front axle- minimum 7,275 lb. With heavy duty springs and shock absorbers.

Rear axle- minimum 14,550 lb. With multileaf springs with two additional helper springs supplied by the vendor.

## 2.2 ENGINE

The engine shall be 4-cylinder diesel powered liquid cooled, rated at not less than 5.2 L, 215 gross horsepower @ 2500 rpm. The engine shall produce 452 ft-lb at 1850 rpm. It shall have an oil level check switch and light. The engine warning system shall incorporate audible warning for low oil pressure, high coolant temperature, and low coolant level. It shall further be equipped with a governor, magnetic oil sump drain plug, readily serviceable oil, fuel and air filters. Fuel and oil filters shall be "spin-on" type

## 2.4 FUEL

Minimum total capacity, 30 gallons. The tank shall be clearly labeled "Diesel Fuel"

## 2.5 TRANSMISSION

Six speed automatic with lock up converter and overdrive, model A465 -Hydra-Matic.

## 2.6 ELECTRICAL

The truck shall have two (2) 12V M/F type 31 750/1500 CCA threaded stud type battery. The Alternator shall be 12V 110 amps.

## 2.7 EXHAUST

Exhaust shall be vented under the frame of the truck.

## 2.8 WHEELS AND TIRES

Tires shall be a (SBR) steel belted radial type, 225/70R-19.5F 12 ply. The truck shall have aluminum diamond plate fenders that wrap 180 degrees around the rear wheels with mud flaps extending to 4" from the ground.



## 2.9 BRAKES

The brake system shall have dual circuit, hydro-boost hydraulic with EBD (Electronic Brake Distribution). Disc front and self-adjust outboard mounted drum rear. Mechanical, transmission mounted parking brake. It shall have 4 channel anti-lock brake system.

The brakes shall be vacuum/hydraulic, front disc and rear drum.

## 2.10 STEERING

Hydraulic, power assist.

## 2.11 THROTTLE CONTROL

Foot operated.

## 2.12 CAB

Manufacturers' standard tilt type including tinted safety glass, side opening windows, individual adjustable operator/passenger suspension seats, 2 speed electric operated windshield wiper/washer, dual sun visors, dual arm rest, three point seat belts, cigar lighter, high capacity heater/defroster, floor mat, entry grab handles, keyed alike door locks and ignition, dual electric horns, external retracting rear view mirrors (approx. 12" x 6"), and storage compartment/glove box. The cab shall be painted a standard white.

## 2.13 CONTROLS

In cab dash mounted controls consisting of, but not limited to the following: volt meter or amp meter, fuel, DEF gauge, engine temperature, oil pressure, speedometer, hand throttle and tachometer. All dash mounted instruments and gauges shall be permanently labeled and shall be clearly visible from the drivers' position.

## 2.14 WIRING AND CIRCUITRY

Electrical wiring outside the cab shall be encased in heavy-duty loom, or equal. All unused wires, plugs and connectors shall be removed or secured inside the loom. A sealed harness wiring system shall be provided from the front of the weatherproof (WP) junction box to all body and chassis lights. Splices of any type will not be accepted.

Paint spray system wiring shall be similarly protected and secured.

All wiring connections shall be either soldered or connected with Deutsch plug connectors.

All wiring shall be secured, wherever possible, to the inside web of the chassis frame at eighteen (18") intervals. This spacing of cable clamps or straps shall be maintained everywhere. Wiring shall not hang loose in any area where debris, mud, etc. may collect causing a strain on the wires.

Cables shall be secured directly to devices or within working distance thereof.

## 2.15 CHASSIS LIGHTING

Front lighting shall be manufacturers' standard. Rear, stop, directional, tail and back up lights shall also be manufacturers' standard.

## 3.0 PLATFORM

The platform shall be of heavy-duty construction and of adequate size and strength to accommodate all the component equipment and accessories. The platform shall be constructed of 3" structural steel channel covered by minimum 3/16" steel non-skid diamond plate in all walk areas. The bed shall be 96" wide and 156" long. Longitudinal stringers shall be 2" x 4" channel running the length of the deck. Cross members shall be 1 1/2" x 3" channel on 16" centers running the width of the deck. The diamond plate at the edge of the bed shall have two 90-degree bends for extra bed strength. The first bend shall fold the diamond plate perpendicular to the platform surface and the second bend will fold the diamond plate back under the 3" structural steel channel and be parallel with the platform surface.

There shall be a 7" space between the chassis and the platform for consideration of center of gravity and to accommodate all electrical and plumbing without interference with the truck frame. Risers shall be attached to the longitudinal stringers of the deck to space the deck from the chassis frame rails. These risers shall be welded to the platform and bolted to the chassis rails, using minimum 5/8" diameter grade 8 bolts.

The operators shall have access to the bed of the truck via stairs built at the back of the truck. These stairs shall be built within the outside

dimensions of the truck bed. A handrail will be positioned on both sides of the stairs extending to the first step. The top surface of the stairs shall be coated with Rhino Lining.

Two access ladders shall be provided with a steel railing around all walk areas. The ladders shall be positioned to achieve best access possible to service the various equipment and accessories.

A steel railing shall be installed around the entire platform except at the ladder entrance areas. The steel railing shall be constructed of 1 ¼" square tubing and be 42" high. All top corners where the railing makes a turn shall be rounded, to prevent accidental contact by the operators with sharp edges. The ladder entrance areas shall be able to be closed off with a safety chain.

The operator's high back air ride seats shall be mounted to enable the operator to look down and forward to view the gun. The front of both operator seat shall be in line or behind the paint guns to ensure the operator is sitting behind the paint guns.

#### 4.0 AUXILARY MOTOR

The striping truck shall have a Kubota D1803CRE4B diesel power plant to run the hydraulic system. This unit shall be capable of generating 37 hp at 2700 RPM. The auxiliary motor shall utilize the truck's fuel supply.

The auxiliary motor shall be configured to accept a direct mount for the load sense hydraulic pump. Belts and pulleys will not be acceptable for powering the hydraulic system.

#### 5.0 HYDRAULIC OIL SUPPLY

An open loop pressure compensated load sense variable displacement piston pump shall be installed on the auxiliary motor. This shall be a direct mount; belt driven transmissions are not acceptable for running the hydraulic pump. The pump shall have a rated capacity of not less than 42 GPM at discharge pressures up to 3000 psi. The pump shall be capable of supplying 42 GPM at 2400 rpm. The hydraulic loop shall have built in pump run-a-way valves (one for each pump) to limit the pump cycle rate in a paint pump run dry condition, or any other pump runaway condition. The 12-volt restrictor (spool valve) shall allow that each individual paint pump reach the intended application cycle rates. All of the valves shall be on one manifold and be located in a position on the truck that is readily accessible. The hydraulic pump shall be built with a single

piece ferrous housing and heavy-duty tapered roller bearings (aluminum pump housing is not acceptable). The pump must have a load sense port as well as a remote pressure control port. The hydraulic pump shall be capable of 2600 RPM at full stroke and pressure at 0 PSI (PSIA) inlet condition (non-supercharged) and have 93% minimum volumetric efficiency at 1000 RPM at 1500 PSI. The pump must have hardened steel piston shoes on the pumping pistons. The pump shall have rear inlet and outlet ports as well as side case drain port. The pump must have an off-stroke response of not more than 50 mS (.050 S) when pump is pressurized 500 PSI over a 1500 PSI compensator setting. The pump must be capable of running efficiently at contamination levels of ISO 19/16 or equivalent. Literature on pump must accompany the bid.

The hydraulic pressure for each paint pump will be remotely controlled from the operator's position.

#### 6.0 HYDRAULIC RESERVOIR

A hydraulic reservoir of adequate size (30 gallons minimum) to maintain the proper cooling of the hydraulic system shall be supplied. The reservoir shall be equipped with baffles, filtered breather cap, clean out cover, and drain plug. A 10 Micron replaceable spin on filter shall be placed in the suction and return line.

A 12-v cooling fan shall be incorporated into the hydraulic system. This fan shall be capable of preventing the hydraulic oil from getting above 135 degrees Fahrenheit while the truck is operating under a full load when the ambient temperature is 95 degrees Fahrenheit.

#### 7.0 PAINT STORAGE AREA

The unit shall be equipped with four (4) drum holders for securing the 55-gallon drums to the bed of the truck. There shall be suction tubes with filters for drawing paint from the drums to the paint pumps.

#### 8.0 COMPRESSOR AND DRIVE MOTOR

The striper shall be equipped with a 16 CFM compressor. This compressor shall be hydraulically driven, and the hydraulic motor shall be capable of running the compressor at 800 - 1000 RPM. The compressor shall be twin cylinder air-cooled type, equipped with an unloader device to accurately and precisely manage the compressed air when there is no demand. The unloader shall be preset at 80 - 100 PSI and designed to unload back through the intake felt. A

safety pop-off valve set for 120 PSI shall be installed to further protect the compressed air system.

## 9.0 AIRLESS PAINT PUMPS

The airless paint pumps shall be Titan hydraulic driven, piston style pumps, rated at not less than 8 gallons per minute, no substitutions allowed.

All wetted pump metallurgy shall be 303, 304, or 316 series grade stainless steel. Pumps with wetted parts consisting of any of the 400 series stainless steel grades are not acceptable. This includes 410 and 416 SST. In addition to these stainless-steel requirements, the paint pumps piston rod, check balls, and piston sleeve shall be 316 stainless steel for corrosion resistance and then hard chrome plated for greater abrasion resistance. The airless pump packings shall be staggered leather and Ultra High Molecular Weight Polyethylene and have provisions for external adjustment of the upper packing stack. The airless pumps wet cup shall be an enclosed design featuring packing cover protectors to prevent dirt or bead contamination into the wet cup and upper packing area. In addition to the standard packing stack, the piston packing shall include a reverse directed wiper packing. The upper packing stack shall include additional leather packing as the sixth packing. No exceptions allowed.

A total of two (2) airless pumps shall be provided with a dedicated pump for each color of paint (one yellow and one white pump). The airless paint pumps shall be rated for continuous service with flow rates to 8 GPM and have a maximum paint discharge pressure of not less than 2,000 PSI. Each paint pump shall have one (1) accumulator on the hydraulic inlet port and one (1) stainless steel accumulator on the pressurized paint header.

The suction side of the airless paint pump shall include a barbed, straight suction hose fitting to allow direct, inline paint flow directly into the in low check ball. The fluid pump shall have a maximum working pressure rating of not less than 3,000 PSI, although the system requires only 2,000 PSI.

At the outlet of each paint pump (between the paint pump and the paint header) the manufacturer shall install a 10,000 PSI, 1 1/4" stainless steel check valve which has metal-to-metal seats. In addition to these check valves, the system shall have one 1/2" 5000 PSI stainless steel check valve at the filter end of each hose to prevent any hourglass effect in the painted line.

## 10.0 PAINT FILTERS AND INLET STRAINERS

Two (2) all 304/316 stainless steel filter assembly shall be located at the outlet of the airless paint pumps, for a total of two (2). Each filter assembly shall include a replaceable 30 mesh stainless steel filter screen element. Each filter shall have a minimum filtration area of not less than 18 square inches. Filters shall be rated for a working pressure of 5,000 PSI. The exterior of the filter cylinder housing shall be splined for easy hand disassembly and for easy reassembly without the use of hand tools.

Each filter shall have a combination pressure relief, dump and priming valve on the outlet side of the high-pressure housing. This combination valve shall be of all 300-grade stainless steel and feature a tungsten carbide seat and a hardened SST ball. Both paint pumps shall be protected with individual suction side, 304/316 stainless steel paint strainers. The total surface area of each suction side filter screen must be no less than 22 square inches. Each of the stainless-steel high-pressure airless filters shall have stainless steel 1/4" hand gun filter connectors with paint isolation shut off valves or paint shut off caps.

## 11.0 PAINT GUNS

Three (3) airless paint guns shall be furnished and be Graco Model 238-377. No substitutions allowed. All wetted gun parts shall be 300 grade stainless steel including the entire fluid housing and the packing assembly. The use of 400 grade (410 and 416) stainless steel is not acceptable. The paint gun outlet ball and the ball seat shall be constructed of tungsten carbide. The fluid outlet shall be ported for extra high flow rates and viscosity's which have a paint outlet of no less than 3/8" diameter orifice. Paint inlet ports shall be 3/8". The packing needle shall feature a non exposed, fully enclosed needle assembly that has provisions for instant packing nut adjustments without any disassembly.

The paint guns shall have a pressure rating of 3,000 PSI. The actuation air chamber and the fluid section shall be divorced and separate to eliminate the possibility of paint entering the air chamber upon paint seal failure. Each gun shall include two Graco Reverse-A-Clean (RAC) IV Switch Tips (one 286-433 and one 286-439) with tip guard. Provisions shall be made to allow the guns to be easily and simply adjusted in all directions including up/down, side to side and forward and back. Each gun shall be mounted on a 6" electric actuator which will allow the operator to move the gun up and down from the operator chair.

## 12.0 MATERIAL CONTAINERS & SIPHON SETS

The road-marking machine shall be set up to allow siphoning from 55-gallon drums. The drums are to be located over the rear axle of the vehicle, and a 1 ½" ID by 15' long siphon hose assembly shall be provided for each of the 2 airless pumps for the siphoning and transferring of traffic paint from the drums to the airless paint pumps.

All siphon hose connections, all fittings, siphon tubes and strainers shall be of 300 grade stainless steel materials of construction. No exceptions allowed. The siphon hose will run directly inline and into the paint pumps. Siphon hose shall have a stainless-steel filter on the end of the tube.

## 13.0 GLASS BEAD SUPPLY

The unit shall include a glass bead supply of not less than 1200 lb. It shall be constructed of carbon steel and include a minimum of a 14" powder coated lid with 6 clamps securing it in place. The tank shall be ASME certified.

To facilitate the loading of glass beads, the top of the tank shall not exceed 48" above the deck of the truck.

The bead tank shall have a separate pop off valve set at 75 psi and incorporate a jet bleed off system. To prevent moisture in the tank, it shall have a ½" heavy duty type desiccant dryer. Inside the tank there will be a bracket which will hold a replaceable 4 ½" x 18" desiccant cartridge to remove all moisture from the inside of the tank. The distribution of the beads from the tank to the guns shall include a minimum of 2" ID bead hose to a bead manifold and 1" ID hoses from the manifold to the bead guns.

The tank shall have an integral bag splitter and screen built into the neck of the tank for easy loading of beads.

## 14.0 BEAD GUNS

Three (3) bead guns shall be furnished and be Graco Model 238-329. No substitutions allowed. Bead guns shall come complete with "no tools" quick change nozzles in 4 sizes to allow for accurate and repeatable bead flow rates from 0 to 40 pounds per minute per gun. The bead guns shall have an oversized (spherical) hardened stainless steel ball and seat outlet. The ball and seat shall be

hardened to a hardness of not less than 37 - 40 on a Rockwell C scale.

The entire needle assembly shall be completely enclosed and not exposed to external bead and paint contamination. The needle packing on the pressure bead guns shall be non-adjustable type and not require any packing adjustment throughout the life of the gun. Bead guns that require needle packing adjustment are not acceptable. The bead gun shall have many common and interchangeable parts with the specified paint guns.

The external housing of the bead guns shall be hard chromed for good wear characteristics and easy clean up. Bead spreader shall be surface hardened to a hardness of 78 to 82 on a 15N scale and then chrome plated for extended service and for protection from the elements. The bead spreader shall be equipped with a replaceable carbide plug which is the point at which the beads initially come into contact with the spreader. Additionally, the spreader shall have adjustable sides that allow the operator to change the spray pattern without changing the height of the gun. Air chamber and bead chambers within the gun shall be divorced and separate. Each bead gun shall have the ability to uniformly apply beads in widths ranging from 2" to 12" in a single pass.

## 15.0 CARRIAGES

The spray guns will be mounted on retractable carriages which extend out past the side of the truck bed on each side of the truck for painting. The left side carriage will have two (2) paint guns, two (2) bead guns and the right carriage will have (1) paint gun and one (1) bead gun. The left carriage will extend 36" inches beyond the transporting position and the right carriage will extend 36". The carriages shall further be equipped with a parallel or scissors type construction, equipped with a pneumatic air cylinder lift for automatically lifting the spray gun carriage underneath the platform for purposes of transporting and maneuvering. The cross-slide arrangement supporting the carriages shall allow the carriage to be positioned for transport within the vehicle limits, or permit its use anywhere outward from this location, up to a distance of 36" outside the rear truck wheels. The slides shall be fabricated from round tubular machined steel, with all moving portions supported by four (4) replaceable bronze bushings. The minimum diameter of the outside tube shall be 4" with a minimum wall thickness of .250". All bearings and pivots on the carriage slide, where relative motion occurs, shall be fitted with replacement bushings and anti-friction bearings and lubricating fittings. Square tube slides utilizing UHMW bearing



material will not be accepted. Similarly, 3" channel type slides that utilize steel rollers will not be accepted.

The carriage slides shall be equipped with a hydraulic cylinder for moving each carriage to any point within its 36" operating range. The cylinder shall be double acting, controlled by a 4-way control valve, located on the control panel, complete with steering wheel assembly; trucks with "joy-stick" steering will not be accepted... The cylinder shall have a minimum ram diameter of 1". The power steering system shall be smooth, without any jerk in movement. Utilization of truck chassis power steering equipment shall not be permitted for the operation of the centerline or edge line carriages. Hydraulic system shall be such a type and design that the carriage will automatically lock itself in any position and will not drift during the striping. Both carriages shall be mounted behind the rear wheels in a stacked configuration.

Each of the three paint guns shall be mounted on electric actuators. This will allow the operator to raise and lower the gun up to a height of 6". The controls for the actuators shall be within reach of the operators' chair.

The carriages (below the hinge point on the slides) shall be coated with a primer and a powder coat epoxy to withstand a pressure washer. All gun hangers and gun post and any other hardware on the carriages shall be similarly powder coated.

The truck shall have a bracket for holding the carriages in the transport position that does not require any chains or hooks. The operator shall be able to move the carriage from transport position to painting position without getting off the truck.

#### 16.0 ELECTRONIC SKIP LINE CONTROLLER

The road-marking machine shall include two (2) programmable skip line controllers. One box will control the guns on the centerline side of the truck and an exact duplicate of the centerline box will control the edge line guns. The control system shall use the pulses from a driveshaft sender. Fifth wheel senders are not acceptable. The skip line controller shall have a single, integral emergency system shut down switch that (from the driver's position) shuts down the skip line controller, the airless pumps, the compressor, the hydraulic system and all other active systems on the road-marking machine.

The controller shall have total of four (4), three-way paint gun switches to allow the choice (skip, off or solid) for any of the 4

standard paint and bead guns. Each box will further be equipped with a remote push button gun actuator.

The controller shall have a Reset/Hold switch. In the Hold position, guns 1 through 4 are disabled AND the internal cycle counter shall be reset. In the Reset position, the switch shall reset the internal cycle counter without affecting the solid line striping activity. It shall also have an Advance/Retard switch for adjusting the skip line position to accurately match a previously painted skip line. Advance shall move the dashed line forward while Retard shall move the line backward. The line position shall be shifted, in the desired direction; no more than 1.2" every time the Advance/Retard switch is toggled.

The controllers shall have a Beads On/Off/Test switch. In the Beads On position, the bead guns shall be enabled with the paint guns. In the Beads Off position, the paint guns will operate without actuation of the bead guns, in the test position, only the bead guns will turn on. The controllers shall have an Auto Cycle Setup mode to allow the measurement and calculation of a previously painted skip line pattern from the drivers/operator's position. Calculated measurements are automatically placed in the paint and cycle length menu.

The internal menu of the skip line controllers shall include the following:

- The main Screen Menu of the internal menu shall include continuous mph readout, the painted skip line distance and the total skip cycle distance (paint and skip)
- A Premark Menu shall allow the road marking machine to apply a programmable, small, preset amount of paint and a second preset amount of paint to highlight the beginning and the end of a specified length for pre-marking for roadway tape or thermoplastic application.
- A System Calibration Menu shall be used to simply calibrate the system with the touch of one button.
- A System Configuration Menu shall offer the choice of metric or standard units of measure.
- A Display Contrast Adjustment Menu shall allow the operator to adjust the color LCD display's visual contrast to the available light conditions.
- The controller shall have provisions to delay the paint gun on and off actuation time as well as provisions for the bead on and off delay.
- The controller will have actuator switches to raise and lower the paint guns.

The controller shall have an integral female plug jack port to allow the future addition of the optional remote plug-in MPH display. The controller shall be protected from reverse polarity and noise spikes. Operating temperature range for the controller shall be 32 - 130 degrees F. The face of the controller shall have a matte finish decal to eliminate glare from the sun or any of the vehicle's interior lights.

The system shall be installed in a waterproof box mounted on the deck of the truck that the operators can access while standing on the ground. Both of the control boxes at the operator's stations shall similarly be protected. The solenoids that operate the paint and bead guns shall be mounted in waterproof boxes mounted on the respective carriages.

## 17.0 INTERCOM SYSTEM

An intercommunication system shall be furnished to provide a means of vocal communication between the driver of the vehicle and the operators of the striping equipment. The unit supplied must be a "David Clark" series U3800 or an approved equal.

The system must have the master station U3800 located in the truck cab powered by the truck's electrical system. The master station must have controls, power input and remote outputs and two (2) headset jacks. The unit must have heavy gauge polycarbonate housing with all controls, connectors and covers weather tight. The system must not use more than 300 milli/amps current draw.

Each rear operator's position must have a remote with jacks and volume controls. There shall be an additional remote junction box located behind each operator station that can be easily accessed from the work platform. All wiring interfaces must be provided. All cabling, junction boxes and connectors must be from the "David Clark Co". The wiring runs must be weather resistant, grommeted protected with fuses or circuit breakers.

Furnish four (4) behind the head style headsets to accommodate safety hats or helmets, one for the truck driver and two for the striping operators located in the rear compartment. One spare set shall be supplied. The customer will determine whether the spare set is for the driver or operators.

The set for the operator must be the David Clark H3332, to provide maximum noise attenuation for hearing protection and clear isolated reception M-1A noise canceling microphone that will provide clear transmission at normal voice levels.

Furnish a single ear headset with a microphone on/off switch that will allow hands free communication for the truck driver. The headset must be a David Clark DC 3690. All electrical wiring shall be enclosed in a conduit type protective case. All electrical controls shall be 12-volt DC power only.

#### 18.0 CANOPY

There shall be a canopy over the rear operator stations. This canopy shall be no less than 6' in height.

#### 19.0 GUIDE ASSEMBLY

The unit shall be equipped with a retractable, front bumper-mounted, laterally adjustable pointer guide assembly approximately 10' in length. The guide shall be designed such that it can be located on either the left or right side of the vehicle for either centerline or edge line striping. The pointer shall have a hydraulic lift cylinder which can be operated from the cab of the truck. The pointer shall also have a hydraulic cylinder that allows the operator to move the pointer wheel laterally. These cylinders shall utilize the load sense pump mounted on the crankshaft of the auxiliary motor.

#### 20.0 CLEANING SYSTEM

The truck shall be supplied with a 30-gallon tank for carrying water to flush out the paint pumps, paint hoses, and the paint guns. The truck shall be plumbed to allow the operator to utilize the water in the tank for cleaning the entire paint delivery system. There shall be a filter on the hose from the clean-out tank to protect the paint pumps.

#### 21.0 WARNING LIGHTS

The machine shall be equipped with four (4) amber strobe flasher lights. Two (2) lights shall be mounted on the left and right front corners of the platform and two (2) lights shall be mounted on the left and right rear corners of the platform. The truck shall have two extra strobe lights mounted on the left and right rear corners of the striping platform. In addition, there will be two (2) LED strobe lights mounted in the bed of the truck on the rear side and 2 LED strobes mounted on the front side of the truck cab. The contractor shall supply and install an LED light bar on the roof of the cab with controls mounted on the dash. The controls for the warning lights shall be mounted in the cab. In addition, all current mandatory government safety requirements applicable to a unit of this type shall be furnished.

## 22.0 GALLON TOTALIZERS

Two (2) gallon totalizers shall be installed on the truck. This will enable the operator to press a button on the control box to read how many gallons were applied through each paint pump. All necessary software will be programmed into the control box that gives the operators the gallons applied.

## 23.0 ARROW BOARD

The truck shall have a 30" x 60" arrow board with an automatic lift cylinder. The arrow board shall have a minimum of 15 LED lights. The controls for the arrow board shall be in the cab of the truck.

## 24.0 HAND PAINT AND HAND BEAD GUN

There shall be a hand paint and hand bead gun installed at the rear of the truck. This gun will have a 24" extension and be easily and quick disconnected for use. It shall be plumbed to make it capable of spraying either yellow or white paint.

## 25.0 MAINTENANCE PACKAGE

The striping truck will come with a maintenance package with the following minimum replacement components:

- a. One (1) additional paint gun
- b. One (1) additional bead gun
- c. Two (2) paint pump packing kits
- d. Two (2) paint gun repair kits
- e. Two (2) bead gun repair kits
- f. One (1) bead tank lid gasket
- g. One (1) desiccant dryer element
- h. Four (4) coalescing filter elements (3 x 3/8" and 1 x 1")
- i. One (1) auto drain assembly for moisture trap
- j. Two (2) electro air solenoids with LED DIN connections
- k. Two (2) compressor air filter
- l. Two (2) hydraulic oil filters
- m. Eight (8) hours of a factory trained technician at the end of the first season to advise the city of Mentor personnel in properly winterizing and annual maintenance of the striping truck.

## 26.0 TRAINING

The successful bidder shall furnish factory trained personnel for a minimum of five (5) days to instruct City of Mentor personnel in the use, operation and maintenance of the machine. An additional follow up visit of one (1) day shall be mutually arranged within 90 days of machine acceptance.

27.0 UNITS IN SERVICE

The potential bidder shall supply the city with 6 references of current users of recently built paint trucks that utilize a load sense hydraulic system for powering the truck. The city will not accept prototype units. The vendor shall bring a similar truck utilizing a load sense hydraulic power system to the City of Mentor for a demonstration before an award will be made.

## VI. PROPOSAL-CONTRACT FORM

The undersigned hereby proposes to furnish the City of Mentor, Ohio, the following items, in accordance with the specifications and upon the terms and conditions of this proposal or any part hereof is accepted as a contract by the City of Mentor.

ITEM #	DESCRIPTION	UNIT PRICE
1.	Total cost for the specified Paint Striping Truck, built tested, complete and delivered to the City of Mentor.	\$ _____

### **ADDITIONAL OPTION DESCRIPTION AND COSTS:**

The city shall decide between a camera system or a laser pointer system at the time the order is placed.

#### **1A. CAMERA SYSTEM**

The striping truck will have a camera guidance system installed. If the camera system is selected, it shall have two (2) cameras mounted on electric actuators so the driver can move the cameras in and out from the cab. There shall also be a crosshair generator mounted in the cab in which overlays lines onto the screen. Each of the cameras shall have dual plane adjustment on the mounting brackets that allow the driver to move the camera left and right as well as up and down utilizing electric actuators.

**OPTION #1A: CAMERA SYSTEM:** \$ \_\_\_\_\_

#### **1.B LASER POINTER SYSTEM**

If the laser system is selected, it shall be a **Laser Line Manufacturing Model GL3000P**. This laser will be mounted on the roof of the truck and the driver will be able to control the position of the dot created by the laser from the driver's seat. The truck shall have a laser pointer system mounted on the cab. **This laser shall be a high visibility 532nm class IIIA green laser.** There shall be a controller in the cab of the truck that controls laser on steady mode, laser on blinking mode, movement of the beam left, right, out, and in. The laser shall be a 12-volt dc system.

**OPTION #1B: LASER POINTER SYSTEM:** \$ \_\_\_\_\_

**VI. PROPOSAL-CONTRACT FORM (continued)**

**EXCEPTIONS:**

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**WARRANTY INFORMATION:**

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**DELIVERY: (days after receipt of Purchase Order):**

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**TERMS OF SALE:**

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**CONDITIONS:**

The Instructions to Bidders and the Specifications are a part of the contract as effectively as though they preceded the signatures of the parties. This contract is not valid until accepted and signed by the City of Mentor.



## VII. STATEMENT OF BIDDER QUALIFICATIONS

- 1) Years in business providing the goods or service requested in this bid \_\_\_\_\_
  - 2) Please list on a separate sheet(s), contracts with municipalities previously held, and now held. Please list by community name, contact person, address, phone number and scope of project (starting with the most recent).
  - 3) Is your company in satisfactory financial condition?      Yes \_\_\_\_\_ No \_\_\_\_\_
  - 4) How many miles is your facility from the Mentor Municipal Center? \_\_\_\_\_
  - 5) Please list on a separate sheet(s) the equipment to be used in fulfilling this contract.
  - 6) Identify the project manager who will be assigned to this project and applicable years of experience managing comparable jobs.
- 

For the following questions, on a separate sheet, please describe in full the circumstances for any Yes answer.

- 7) Has your company had any business interruptions as a result of financial conditions in the past two (2) years?      Yes \_\_\_\_\_ No \_\_\_\_\_
- 8) Has your company been rejected for a public contract despite being a low bidder for any reason?      Yes \_\_\_\_\_ No \_\_\_\_\_
- 9) Has your company had any claims against or a performance bond cancelled?      Yes \_\_\_\_\_ No \_\_\_\_\_
- 10) Has your company paid penalties or liquidated damages imposed as a result of delay on a public project?      Yes \_\_\_\_\_ No \_\_\_\_\_
- 11) Has your company been found to have committed an unfair labor practice or any other employment/labor law violation in such areas as discrimination, prevailing wage, Workers' Compensation or OSHA?      Yes \_\_\_\_\_ No \_\_\_\_\_
- 12) Has your company in the last three (3) years had a municipal contract cancelled or terminated?      Yes \_\_\_\_\_ No \_\_\_\_\_

**VII. STATEMENT OF BIDDER QUALIFICATIONS (continued)**

BIDDER NAME (print/type): \_\_\_\_\_

BIDDER ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

BIDDER CONTACT: \_\_\_\_\_

BIDDER PHONE NUMBER: \_\_\_\_\_

BIDDER FAX NUMBER: \_\_\_\_\_

BIDDER E-MAIL: \_\_\_\_\_

Federal Tax Identification Number \_\_\_\_\_

State Tax Identification Number \_\_\_\_\_