



CITY OF DUBLIN  
INVITATION TO BID

**Bid #17-08-002**

Issue Date: August 21, 2017

**DUE DATE AND TIME: September 12, 2017, AT 2:00 P.M.**

The City of Dublin will receive sealed bids for furnishing supplies or services at:

**CITY OF DUBLIN PURCHASING OFFICE  
215 TRUXTON ST.  
DUBLIN, GA 31021**

Bids will be publicly opened and read on the above stated date and time, local time prevailing. Late bids will not be accepted. No extension of the bidding period will be made. The City reserves the right to award a bid to multiple bidders when more than one item appears in a bid package.

Purchase requested by: Fire Dept.

ITEM	SUPPLIES/SERVICES	QTY.	TOTAL COST
1.	<b>Light Duty Fire Rescue Unit</b> per attached specs	1 ea.	\$_____

f.o.b. Dublin

\*\*Delivery Time: \_\_\_\_\_

\*\*Warranty information for vehicle must be provided with bid

\*\*\*Manuals/CDs **MUST** be delivered with the vehicle

In compliance with the above, the undersigned offers and agrees, if this bid is accepted within sixty (60) calendar days from the date of opening, to furnish any and all of the items upon which prices are quoted, at the price set opposite each item, delivered at the designated point(s) within the time specified in the schedule. Items on bid are exempt from federal excise tax and Georgia sales and use tax. Title shall pass to the City only upon actual receipt and acceptance of the items. In the event there is a discrepancy between the unit price and the extended price, the unit price shall govern. Terms are N30. Bids will not be accepted via facsimile or e-mail. \_\_\_\_\_ (Please initial)

NAME & ADDRESS OF BIDDER		SIGNATURE OF BIDDER	
_____		_____	
_____		_____	
_____		DATE	
PHONE NUMBER & FAX NUMBER		SIGNER'S NAME & TITLE (Type or Print)	
_____		_____	
_____		_____	
EMail: _____			

For information regarding this bid, contact Kris Harden, CPPB, Purchasing Dir., at 478-277-5047.

## INSTRUCTIONS FOR BIDDERS

- I. Bids must be received by the designated date and time. Late bids will not be accepted.
  - II. Bids must be delivered to:

City of Dublin - Purchasing Department  
P. O. Box 690  
215 Truxton St.  
Dublin, GA 31040  
ATTN: Kris Harden
  - III. Bids must be sealed with the bid number clearly printed on the outside of the envelope.
  - IV. Bids must be complete and include:
    - A. Completed Bid Proposal Form
    - B. Executed Affidavit of Non-Collusion
    - C. Executed Bidder's Declaration
- All bids submitted shall be subject to acceptance or rejection and the City of Dublin specifically reserves the right to accept or reject any or all bids, to waive any technicalities and formalities in the bidding.
  - Failure of the bidder to sign the bid or have the signature of any authorized representative or agent on the bid/proposal **IN THE SPACE PROVIDED** may be cause for rejection of the bid. Signature must be written in ink. Typewritten or printed signatures are not acceptable.
  - All bids should be tabulated, totaled and checked for accuracy. The unit price will prevail in case of errors.
  - If only one bid is received, the bid will be forwarded to the Mayor and Council for a determination to accept and award the bid or to reject and re-bid.
  - Bids requiring bid bonds will not be read or considered if bond is not enclosed. Bond may be in the form of cash, certified check, cashier's check or Surety Bond issued by a Surety Company licensed to conduct business in Georgia.
  - Bids must meet or exceed the specifications in order to be considered by the City of Dublin. Any reference to brand name is to be considered generic. The City of Dublin reserves the right to award a bid to more than one bidder when two or more items appear on the bid schedule. Awards will be based on the lowest and best bid with local vendors within the City of Dublin receiving a 3% preference. Payment terms are N30 unless otherwise stated in the bid.

- Bidders shall submit all required forms and information simultaneously with sealed bids, which forms and information become a part of the property of the City of Dublin and will not be returned to bidders unless a written request to withdraw is received prior to the designated date and time of the bid opening.
- It shall be the responsibility of **all** bidders to indicate the brand name and model or series number of the product offered and to furnish with their bid such specifications, catalog pages, brochures, or other data that will provide an adequate basis for determining the quality and functional capabilities of the product offered. **Failure to provide the requested data or product demonstrations and/or sample may be considered valid justification for rejection of bid.**
- All bidders must be recognized and authorized dealers in the materials or equipment specified and be qualified to advise in their application or use. A bidder at any time requested must satisfy the Purchasing Office and City Council that he has the requisite organization, capital, plant, stock, ability and experience to satisfactorily execute the contract in accordance with the provisions of the contract in which he is interested.
- When requested, SAMPLES will be furnished free of expense, properly marked for identification and accompanied by a list where there is more than one sample. The City reserves the right to mutilate or destroy any samples submitted whenever it may be in the best interest of the City to do so for the purpose of testing.
- The unauthorized use of patented articles is done entirely at risk of successful bidder.
- The ESTIMATED QUANTITY given in the specifications or advertisement is for the purpose of bidding only. The City may purchase more or less than the estimated quantity, and the vendor must not assume that such estimated quantity is part of the contract.
- Only the latest model equipment as evidenced by the manufacturer's current published literature will be considered. Obsolete models of equipment not in production will not be acceptable. Equipment shall be composed of new parts and materials. Any unit containing used parts or having seen any service other than the necessary tests will be rejected. In addition to the equipment specifically called for in the specifications, all equipment catalogued by the manufacturer as standard or required by the State of Georgia shall be furnished with the equipment. Where required by the State of Georgia Motor Vehicle Code, vehicles shall be inspected and bear the latest inspection sticker of the Georgia Department of Revenue.
- A contract will not be awarded to any corporation, firm or individual who is, from any cause, in arrears to the City or who has failed in any former contract with the City to perform work satisfactorily, either as to the character of the work, the fulfillment of the guarantee, or the time consumed in completing the work.
- Contracts may be cancelled by the City with or without cause with 30-day written notice.

NON-COLLUSION AFFIDAVIT

The following affidavit is to accompany the bid:

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

\_\_\_\_\_  
Owner, Partner or Officer of Firm

\_\_\_\_\_  
Company Name, Address, City and State

being of lawful age, being first duly sworn, on oath says that he/she is the agent authorized by the bidder to submit the attached bid. Affiant further states as bidder, that they have not been a party to any collusion among bidders in restraint of competition by agreement to bid at a fixed price or to refrain from bidding. Affiant also states as bidder, that they have not been a party to any collusion with any officer of the City of Dublin or any of their employees as to quantity, quality or price in the prospective contract; and that discussions have not taken place between bidders and any office of the City of Dublin or any of their employees concerning exchange of money or other things of value for special consideration in submitting a sealed bid for:

\_\_\_\_\_  
Firm Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_,  
20\_\_\_\_.

\_\_\_\_\_  
Notary Public

## BIDDER'S DECLARATION

The bidder understands, agrees and warrants:

- That the bidder has carefully read and fully understands the full scope of the specifications.
- That the bidder has the capability to successfully undertake and complete the responsibilities and obligations in said specifications.
- That this bid may be withdrawn by requesting such withdrawal in writing at any time prior to the scheduled bid opening, but may not be withdrawn after such date and time.
- That the City of Dublin reserves the right to reject any or all bids and to accept that bid which will, in its opinion, best serve the public interest. The City of Dublin reserves the right to award the bid to separate bidders when more than one item appears on the schedule. The City of Dublin reserves the right to waive any technicalities and formalities in the bidding.
- That the bidder understands that these specifications are the minimum requirements and must be met or exceeded in order to be considered by the City of Dublin. The bidder acknowledges that the item bid is suitable for the intended application.
- That by submission of this bid the bidder acknowledges that the City of Dublin has the right to make any inquiry or investigation it deems appropriate to substantiate or supplement information supplied by the bidder.

If a partnership, a general partner must sign.

If a corporation, the authorized corporate officer(s) must sign and the corporate seal must be affixed to this bid.

BIDDER:

\_\_\_\_\_

Name

\_\_\_\_\_

Title

\_\_\_\_\_

Name

\_\_\_\_\_

Title

AFFIX CORPORATE SEAL (if applicable)

## TERMS AND CONDITIONS -- INVITATION TO BID

**1. CHANGES:** No change will be made to this invitation except by written modification by the City Purchasing Office. Requests for changes must be in writing and received at least five (5) calendar days prior to the time set for opening of the bids.

**2. FOB POINT:** Bid price to include shipping, packing, crating, and unloading at the address in the BID SCHEDULE. Title to remain with vendor until fully accepted by the City. Goods damaged or not meeting specifications will be rejected and removed at vendor's expense. Concealed damaged goods to remain the property of vendor until replaced or removed at City's direction. All bid responses received will be F.O.B. Dublin. Due to volume of order, delivery shipment schedule will be coordinated between the successful bidder and the City of Dublin.

**3. RISK OF LOSS:** Vendor agrees to bear all risk of loss, injury, and destruction of goods and materials ordered herein which occur prior to delivery to include concealed damage; and such loss, injury, or destruction shall not release vendor from any obligation.

**4. BID IDENTIFICATION:** All bids submitted as a result of this invitation must be returned in a sealed envelope with the bid number on the envelope.

**5. WITHDRAWAL OF BIDS:** Bids may be withdrawn by written request only, if the request is received prior to the time and date set for the opening of bids. Negligence on the part of the bidder in preparing his bid confers no right of withdrawal or modification of his bid after bid has been opened.

**6. BID BONDS:**

- A. Bid Bond: not required
- B. Payment and Performance Bonds: not required

**7. SITE INSPECTIONS:** When applicable, bidders should inspect the site to ascertain the nature and location of work and the general conditions which could affect the cost of the work. The City will assume no responsibility for representations or understandings made by its officers or employees unless included in this Invitation for Bid. While site inspections are not a mandatory requirement to submit a proposal, vendors are urged to schedule inspections to ascertain all the requirements of this invitation.

**8. AWARD OF CONTRACT:** Awards will be made to that responsible bidder whose bid, conforming to the Invitation for Bid, will be most advantageous to the City. Prices will not necessarily be controlling, but quality, equality, efficiency, delivery, suitability of item(s) offered, maintainability, and reputation of item(s) in general use will also be considered with any other relevant factors. The City reserves the right to reject any and/or all bids submitted and to waive any technicalities or minor irregularities in bids received. A written award, mailed (or otherwise furnished) shall be deemed to result in a binding contract without further action by either party. Contract(s), if awarded, will be on a lump sum basis or individual item basis, whichever is found to be in the best interest of the City of Dublin.

**8.1:** In accepting this contract, the vendor attests that he is in compliance with the  
City of Dublin Bid #17-08-001

Nondiscrimination Clause contained in Section 202 of Executive Order 11246, as amended, relative to equal employment opportunity for all person without regard to race, color, religion, sex, or national origin, and the implementing rules and prescribed by the Secretary of Labor, which is incorporated herein by reference.

**9. EXCEPTIONS TO SPECIFICATIONS:** Any award resulting from this invitation shall bind the bidder to all Terms, Conditions, and Specifications set forth in this invitation. Bidders whose bids do not conform should so note on a separate page if necessary and/or on the **Bid Schedule**. While the City reserves the right to make an award to a nonconforming bidder when in the best interest of the City, such awards will not be readily made, and bidders are urged to conform to the greatest extent possible. No exceptions will be considered to have been taken by bidder unless it is properly set out as provided above. No exception will be deemed to have been taken by the City unless incorporated in an award resulting from this invitation and so stated.

**10. BID RESULTS:** Interested parties may request, in writing, a **Bid Tabulation** by sending a self-addressed, stamped envelope with their request to City of Dublin Purchasing Department, P. O. Box 690, Dublin, GA 31040. Tabulations may also be requested by e-mail to [hardenk@dlcga.com](mailto:hardenk@dlcga.com).

**11. PAYMENT:** Payments will be made upon all items completed each month or completion of all work and acceptance by City on invoices submitted and approved by the proper city representative within thirty (30) days of receipt of invoice unless discounts apply (see item #13). Invoices are to be submitted to: City of Dublin, P. O. Box 690, Dublin, GA 31040.

**11.1** Itemize all invoices in full. Mail the original invoice to the address above. A shipping or receiving ticket will be signed and a copy left with each delivery. Purchase order numbers must appear on all delivery tickets and invoices.

**11.2** Vendor must furnish delivery receipt identifying that this order has been delivered in accordance with the specifications, quantities, and price as set forth on the purchase order. A City of Dublin employee's signature must appear on the delivery receipt or invoice.

**11.3** Items on this order are exempt from Federal Excise Tax and Georgia Sales and Use Tax. A certificate will be furnished if requested. The CITY OF DUBLIN is exempt from taxes but the successful bidder shall pay all taxes required of him by law and the CITY OF DUBLIN can not exempt others from tax.

**11.4** Payment terms and provisions herein or otherwise found within the contract documents supersede all provisions of the Georgia Prompt Pay Act (House Bill 837; 13 O.C.G.A. chapter 11 **ET. SEQ.**).

**12. INQUIRIES REGARDING PAYMENT:** All inquiries regarding payment of invoices are to be directed to Account Payable at (478) 277-5018 or to City of Dublin, ATTN: Accounts Payable, P. O. Box 690, Dublin, GA 31040.

**13. DISCOUNTS:** Prompt payment discounts offered for a period of less than fifteen (15) days will not be considered in determining the low bidder on this invitation. However, such discounts, when offered, will be taken provided payment is made within



the time specified. Time, in connection with discounts for prompt payments, will be computed from the date of acceptance of work for which payment is claimed, or the date the correct invoice is received by the City, whichever is later.

**14. EXECUTION OF CONTRACT:** Subsequent to the award, the successful bidder will be presented with a contract which may be in the form of a purchase order. Contract is to be executed with ten (10) calendar days of from award notice. If the contract document is mailed, the date of presentation shall be the postmark date.

**15. INCLUSION:** All items and/or services which are standard, expected, necessary, and/or routine to such a project as this and not actually stated in this invitation will be the responsibility of the successful bidder to provide at no other cost to the City unless so stated on the successful bidder's proposal as additional cost items and accepted by the City at the time of the award and/or contract.

**16. REGULATORY AGENCIES:** Successful bidder will be responsible for all required permits or licenses required by regulatory agency of the City, County, State, or Federal Governments. Further, successful bidder will be responsible for meeting all requirements of any regulation(s) or guideline(s) of any of the said governments or any independent agency recognized by said Government as publisher of any such regulation(s) or guideline(s).

**17. INDEPENDENT CONTRACTORS:** The bidder represents to the CITY OF DUBLIN that he is fully experienced and properly qualified to perform the functions provided herein and that he is properly equipped, organized, and financed to perform such functions. The bidder shall finance his own operations hereunder, shall operate as an independent contractor and not as an agent of the CITY OF DUBLIN and nothing contained in this invitation or a contract resulting from same shall be construed to constitute the bidder or any of his employees, agents, or subcontractors as a partner, employee, or agent of the City nor shall either party have any authority to bind the other in any respect; it being intended that each shall remain an independent contractor.

**18. ASSIGNMENT OF CONTRACTUAL RIGHTS:** It is agreed that the successful bidder will not assign, transfer, convey, or otherwise dispose of a contract that results from this invitation or his right, title, or interest in or to the same, or any part thereof, without written consent of the City.

**19. STARTING TIME:** work will commence within the stated calendar days and commence in a routine, orderly manner until completion and acceptance by the City.

**20. INDEMNITY:** Successful bidder agrees, if entering into a contract as a result of this invitation, to defend, indemnify, and hold harmless the CITY OF DUBLIN from any and all courses of action or claims of damages arising out of or related to bidder's performance or actions or those of his employees or agents, under said contract.

**21. TERMINATION:** Pursuant to O.C.G.A. 36-60-13, if applicable, any contract resulting from this invitation, if not sooner terminated pursuant to the provisions of terminations contained herein, is terminable by the CITY OF DUBLIN Council on December 31 of each calendar year during the term of said contract, except that said contract shall be renewed automatically on such date, and without any lapse, unless positive action is taken to terminate said contract by the Council in a public meeting and

such action entered in the Official Minutes of the CITY OF DUBLIN Council.

**22. APPROPRIATION OF FUNDS:** Initial contract and any continuation contract(s) will terminate immediately and absolutely at any such time as there are no appropriated unobligated funds available to satisfy the City's obligations under said contract(s).

**23. CANCELLATION FOR CAUSE:** Should either party fail to comply with the Terms and Conditions of this contract, the aggrieved party must give, in writing, to the other party any complaint for non-compliance to the Terms and Conditions of this contract. The other party shall have fifteen (15) calendar days to correct the matter. If corrected to the satisfaction of both parties within the fifteen (15) calendar days and stated in writing, then the contract will continue uninterrupted. Failure to correct the matter will result in termination of this contract at the end of the thirty (30) calendar days following the date of the initial letter of complaint.

**24. LIQUIDATED DAMAGES:** Any liquidated damages will be listed in the Special Terms and Conditions.

**25. COMMODITY STATUS:** It is understood and agreed that materials delivered shall be new, of latest design, and in first quality condition, that all bags, container, etc. shall be new and suitable for storage; unless otherwise stated by the CITY OF DUBLIN.

CITY OF DUBLIN  
P. O. BOX 690  
DUBLIN, GA 31040

**NO BID RESPONSE**

IF FOR SOME REASON YOU ARE NOT BIDDING ON THIS PROPOSAL, PLEASE COMPLETE THE FOLLOWING AND RETURN TO THE ADDRESS BELOW BEFORE THE BID DEADLINE STATED ON THE ORIGINAL SCHEDULE.

**REASON(S) FOR NO BID:**

- CANNOT SUPPLY AT THIS TIME
- ENGAGED IN OTHER WORK
- QUANTITY TOO SMALL
- JOB TOO LARGE
- CANNOT MEET REQUIRED DELIVERY
- OPENING DATE DOES NOT ALLOW SUFFICIENT TIME TO PREPARE BID
- EQUIVALENT NOT PRESENTLY AVAILABLE

**OTHER REASON OR REMARKS:**

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\_\_\_\_\_  
COMPANY OR FIRM NAME

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
TITLE

\_\_\_\_\_  
DATE

RETURN TO: CITY OF DUBLIN  
PURCHASING DEPT.  
PO BOX 690  
DUBLIN, GA 31040



**City of Dublin  
Contractor Affidavit under O.C.G.A. § 13-10-91(b)(1)**

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services on behalf of City of Dublin has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned contractor will continue to use the federal work authorization program throughout the contract period and the undersigned contractor will contract for the physical performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the contractor with the information required by O.C.G.A. § 13-10-91(b). Contractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

\_\_\_\_\_  
Federal Work Authorization User Identification Number

\_\_\_\_\_  
Date of Authorization

\_\_\_\_\_  
Name of Contractor

\_\_\_\_\_  
Name of Project

\_\_\_\_\_  
Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on \_\_\_\_\_, 201\_\_ in \_\_\_\_\_(city), \_\_\_\_\_(state).

\_\_\_\_\_  
Signature of Authorized Officer or Agent

\_\_\_\_\_  
Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME  
ON THIS THE \_\_\_\_\_ DAY OF \_\_\_\_\_, 201\_\_.

\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires:  
\_\_\_\_\_



**City of Dublin  
Subcontractor Affidavit under O.C.G.A. § 13-10-91(b)(3)**

By executing this affidavit, the undersigned subcontractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services under a contract with \_\_\_\_\_ on behalf of the City of Dublin has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned subcontractor will continue to use the federal work authorization program throughout the contract period and the undersigned subcontractor will contract for the physical performance of services in satisfaction of such contract only with sub-subcontractors who present an affidavit to the subcontractor with the information required by O.C.G.A. § 13-10-91(b). Additionally, the undersigned subcontractor will forward notice of the receipt of an affidavit from a sub-subcontractor to the contractor within five business days of receipt. If the undersigned subcontractor receives notice that a sub-subcontractor has received an affidavit from any other contracted sub-subcontractor, the undersigned subcontractor must forward, within five business days of receipt, a copy of the notice to the contractor. Subcontractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

\_\_\_\_\_  
Federal Work Authorization User Identification Number

\_\_\_\_\_  
Date of Authorization

\_\_\_\_\_  
Name of Subcontractor

\_\_\_\_\_  
Name of Project

\_\_\_\_\_  
Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on \_\_\_\_\_, \_\_\_\_, 2017 in \_\_\_\_\_(city), \_\_\_\_\_(state).

\_\_\_\_\_  
Signature of Authorized Officer or Agent

\_\_\_\_\_  
Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME  
ON THIS THE \_\_\_\_\_ DAY OF \_\_\_\_\_, 2017.

\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires:

\_\_\_\_\_  
City of Dublin Bid #17-08-001

**Light Duty Fire Rescue Unit  
Bid #17-08-002**

It is the intent of these specifications to describe a new fire apparatus that will withstand the continuous use encountered in the emergency firefighting service. The apparatus shall be of the latest type, symmetrically proportioned and constructed with due consideration of the load to be sustained.

All parts not specifically mentioned herein, but which are necessary in order to furnish a complete fire apparatus, shall be furnished and shall conform to the best practices known to the fire apparatus industry.

The apparatus shall comply with all Federal, State, and local requirements pertaining to vehicles used for firefighting and emergency vehicles. The apparatus must also comply with all requirements as specified in N.F.P.A. standards that are applicable. The unit is to be of current year manufacture, and is to be new and unused. The bid price shall not include any local, State, or Federal taxes.

These specifications shall be construed as minimum. Should the manufacturer's current published data or specifications exceed these, they shall be considered minimum and be furnished.

**PRIME BIDDER, MANUFACTURER**

The manufacturer shall be prime bidder and shall identify the location of their facility.

**BIDDERS BACKGROUND**

Bids are requested from responsible manufacturers who are engaged in the manufacture of fire apparatus. To insure reliable and complete acceptance of the apparatus, bidder shall have been in operation for a minimum of twenty (20) years in the manufacturing of fire apparatus.

**FAMA COMPLIANCE**

The apparatus manufacturer must be a current member of the Fire Apparatus Manufacturer's Association (FAMA) and must provide certificate of membership.

**PROPRIETARY PARTS**

It is the intention of the purchaser for all bidders to furnish the apparatus with major parts commonly used by the heavy-duty truck manufacturers and open market vendors where as replacement parts are more readily available and at reduced cost. The use of proprietary parts may not be acceptable to the purchaser.

**MANUFACTURER'S DISCRETION**

Materials, parts, or procedures used are subject to change at manufacturer's discretion at any time to provide equal or better products.

## **FAIR, ETHICAL AND LEGAL COMPETITION**

In order to ensure fair, ethical, and legal competition the apparatus manufacturer shall have ever been fined or convicted of price fixing, bid rigging, or collusion in any domestic or international fire apparatus market.

## **PRODUCT QUALITY AND WORKMANSHIP**

The components provided and workmanship performed shall be of the highest quality available for this application. Special consideration shall be given to the following areas:

- A). Accessibility to various components that require periodic maintenance or lubrication checks.
- B). Ease of vehicle and pump operation.
- C). Features beneficial to the intended operation of the apparatus.

Construction of the complete apparatus shall be designed to carry the loads intended to meet the road and terrain conditions and speed requirements desired when specified by the purchaser.

Welding shall not be employed in the assembly of the apparatus in a manner that will prevent the removal of any major component part for service and/or repair.

## **INSURANCE REQUIREMENTS**

Each bidder must submit with their bid proposal a Certificate of Insurance listing the proposed manufacturer's product liability insurance coverage. Liability insurance shall be a minimum amount of one (1) million dollars. Submitted certificate shall name the apparatus manufacturer, insurance company, policy number, and effective dates of the insurance policy. Bids submitted without the required certificate will be considered non responsive and automatically rejected. No exceptions are allowed to the minimum insurance coverage requirement.

The manufacturer shall maintain full insurance coverage on the purchaser's cab and chassis from time of first possession by the manufacturer until the apparatus is delivered and accepted by the purchaser (No Exceptions). Purchaser reserves the right to require proof of insurance from the manufacturer's insurance carrier prior to entering into a contract for the apparatus.

## **PAYMENT TERMS**

Full payment for the apparatus shall be made within ten (10) days after delivery of the completed vehicle. The City of Dublin will insure the unit upon delivery.

Final delivery price shall not include any Local, State or Federal taxes. The manufacturer shall not be liable for any State or Federal mandated tax or program after sale or delivery of the apparatus.

## **VEHICLE ACCEPTANCE AND DELIVERY**

The vehicle is to be delivered to the City Maintenance Facility located at 215 Truxton St., Dublin, GA 31021

## **ONE YEAR APPARATUS WARRANTY**

The complete apparatus detailed herein shall be warranted against defects in materials and workmanship for a period of twelve (12) months, effective upon pick up or delivery of the completed apparatus to the purchaser, as detailed in the respective warranty documents. Any unauthorized alterations or modifications to the apparatus shall void this warranty.

Other warranties, as provided by individual component manufacturers may extend beyond this warranty.

## **APPARATUS BODY WARRANTY, TEN YEAR**

The apparatus body as detailed herein shall have a structural warranty against defects in materials and workmanship for a period of ten (10) years, effective upon final payment in full by the Purchaser, and pick up or delivery of the completed apparatus to the Purchaser. Any unauthorized alterations or modifications to the body shall void this warranty.

## **PAINT WARRANTY, FIVE YEAR**

The finish paint as used on the proposed apparatus shall be warranted against defects in materials and workmanship for a prorated period of five (5) years, effective upon final payment in full by the Purchaser, and pick up or delivery of the completed apparatus to the Purchaser. Any unauthorized alterations or modifications to the apparatus shall void this warranty.

## **APPARATUS ELECTRICAL WARRANTY, TWO YEAR**

The apparatus electrical system as detailed herein shall have a electrical warranty against defects in materials and workmanship for a period of two (2) years, effective upon final payment in full by the Purchaser, and pick up or delivery of the completed apparatus to the Purchaser. Any unauthorized alterations or modifications to the electrical system shall void this warranty.

## **APPARATUS DIMENSIONS**

These are standard truck dimensions. Changes in configuration or additional options may affect these dimensions. The contract specification shall contain the exact dimensions.

## **OVERALL HEIGHT**

The overall height shall be less than 96".

## **OVERALL LENGTH**



The overall length shall be no longer than 26 feet.

### **OVERALL WIDTH**

The overall width of the body shall be 96 inches wide; chassis mirrors will extend out past this width.

### **ANGLE OF APPROACH**

The angle of approach for the apparatus shall not be less than eight (8) degrees as specified by the current edition of NFPA 1901/ 1906.

### **ANGLE OF DEPARTURE**

The angle of departure for the apparatus shall not be less than eight (8) degrees as specified by the current edition of NFPA 1901/ 1906.

### **NFPA 1906 COMPLIANCE**

The National Fire Protection Association standard #1906 (most recent edition) is hereby adopted and made a part of these specifications, the same as if they were written out in full detail, insofar as they apply with the exception of any sections dealing with "Equipment Recommended for Various Types of Apparatus". Bidders are to provide only the equipment requested herein and the Department will supply the rest before the apparatus is put into service. The unit shall comply with all federal, state, ICC, and DOT motor vehicle regulations, standards, and laws relating to commercial vehicles as well as to fire apparatus on the date of the bid.

### **ROAD TEST CERTIFICATION**

A road test shall be conducted with the finished apparatus fully loaded. During this time, the apparatus shall not show loss of power and/or overheating. The transmission driveshaft or shafts and rear axle shall run free from abnormal vibration or noise throughout the operating range of the apparatus. The apparatus, when loaded, shall have not less than 25% or more than 45% of the weight on the front axle and not less than 55% or more than 75% on the rear axle.

- A). The apparatus must be capable of accelerating to 35 mph from a standing start within 25 seconds on a level concrete highway without exceeding the maximum governed RPM of the engine.
- B). The apparatus must be capable of accelerating from a steady speed of 15 mph to a true speed of 35 mph within 30 seconds. This shall be accomplished without moving the gear selector.
- C). The fully loaded apparatus shall be capable of obtaining a speed of 50 to 55 mph on a level concrete highway.

- D). The manufacturer shall furnish copies of the engine installation approvals signed by the appropriate engine company upon delivery of the chassis to the Fire Department.
- E). The manufacturer shall furnish copies of the transmission approval signed by the transmission manufacturer upon delivery of the chassis to the Fire Department.
- F). The manufacturer shall furnish copies of the front and rear axle approvals upon delivery of the apparatus to the Fire Department.

## **ROAD TEST FAILURE**

In the event the apparatus fails to meet the test requirements of these specifications on the first trials, second trials may be made at the option of the manufacturer within thirty (30) days of the first trials. Such trials shall be final and conclusive and failure to comply with changes, as the purchaser may consider necessary to conform to any clause of the specifications within thirty (30) days after notice is given to the manufacturer of such changes, shall be cause for rejection of the apparatus. Permission to keep or store the apparatus in any building owned or occupied by the purchaser, or its use by the purchaser during the above-specified period with permission of the manufacturer, shall not constitute acceptance.

## **CAB SAFETY SIGNS**

The following safety signs shall be provided in the cab:

- A label displaying the maximum number of personnel the vehicle is designed to carry shall be visible to the driver.
- “Occupants shall be seated and belted when apparatus is in motion” signs shall be visible from each seat.
- “Do Not Move Apparatus When Light Is On” sign adjacent to the warning light indicating a hazard if the apparatus is moved (as described in subsequent section).
- A label displaying the height, length, and GVWR of the vehicle shall be visible to driver.

## **CHASSIS DATA LABELS**

The following information shall be on labels affixed to the vehicle:

### Fluid Data:

- Engine oil
- Engine coolant
- Chassis transmission fluid
- Pump transmission lubrication fluid (if applicable)
- Pump primer fluid (if applicable)

- Drive axle(s) lubrication fluid
- Air conditioning refrigerant
- Air conditioning lubrication
- Power steering fluid
- Cab tilt mechanism fluid (if applicable)
- Transfer case fluid (if applicable)
- Equipment rack fluid (if applicable)
  
- Air compressor system lubricant
- Generator system lubricant (if applicable)

Chassis Data:

- Chassis Manufacturer
- Production Number
- Year Built
- Vehicle Identification Number

Location shall be in the driver's compartment of the chassis cab.

**"NO RIDE" LABEL**

A label shall be located on the vehicle at the rear step areas, and at any cross walkways, if they exist. The label(s) shall warn personnel that riding in or on these areas while the vehicle is in motion is prohibited.

**DO NOT WEAR HELMET LABEL**

One (1) label shall be provided stating "DO NOT WEAR HELMET WHILE SEATED", and shall be visible from each seated position.

**COMMERCIAL CHASSIS SPECIFICATION**

**CHASSIS PROVIDER**

The chassis, as detailed in these specifications, shall be ordered and supplied by the apparatus manufacturer.

**CHASSIS**

One (1) new FORD F-350 (or approved equal) rear axle drive 4x2, dual rear wheels (DRW), four (4) door crew cab and chassis with XL trim.

Wheelbase: 179" Cab to  
 Axle: 60" GVWR: 14,000 pounds

Steering: Hydraulic power-assist re-circulating ball

Non-Driving Front Axle and Suspension: HD front package, firm ride suspension package, Twin I-Beam front suspension, anti-roll bar, HD front shocks, HD front coil springs

Rear Axle and Suspension: wide track, rigid rear axle, HD rear suspension package, anti-roll bar, HD rear leaf springs, HD rear shocks

Braking System: four (4) wheel disc brake system with front and rear vented discs and Anti-Lock (ABS)

## **POWERTRAIN**

Powerstroke 6.7L V-8 OHV direct diesel injection 32 valve intercooled turbo diesel engine.

Rated Brake Horsepower: 330 HP @ 2600 RPM

Rated Torque: 750 lb.-ft. @ 2,000 rpm

Stationary Elevated Idle Control, SEIC

Exhaust System: horizontally mounted, discharge on right side aft of wheels

Transmission: Six speed automatic with overdrive.

## **AMBULANCE PREPARATION PACKAGE**

Alternators: Dual 200 AMP Heavy Duty

Batteries: Dual 12 Volt: 750- CCA/ 78-amp-hour

## **MANUAL REGENERATION**

A push button switch on the dash to initiate manual DPF regeneration.

Fuel Tank: 40 gallon aft-axle with auxiliary fuel tap, to provide fuel to an auxiliary truck body mounted diesel engine (if applicable).

## **REAR AXLE RATIO**

The ratio of the rear axle shall be the standard ratio supplied by the chassis manufacturer.

## **CAB TYPE**

Conventional, engine forward, four (4) door crew cab

Construction: Welded steel

Accessories:

- Solar Tinted glass in all windows

- Dual sun visors
- Electric windshield washer
- Dome light
- Fresh air heater and defroster
- Dual electric horns
- Driver and passenger air bags
- Gray Vinyl Upholstery - Roof Clearance Lights
- Black vinyl full floor covering - 12V Auxiliary Power Point

Headlamps: dual beam jewel effect

Climate Controls: controls for heat, defroster, and air conditioning

Mirrors: black manually telescope fold-away in/out for view adjustment.

Instrumentation:

- Tachometer
- Speedometer
- Turbo boost (diesel only)
- Oil pressure
- Coolant temperature
- Fuel gauge
- Transmission temperature gauge
- Indicator lights & Message Center/odometer, trip odometer, engine hourmeter & warning messages.

## **POWER EQUIPMENT GROUP**

The electrical power equipment group shall be provided on the chassis. The option package shall include power door locks, power side windows and a momentary down driver's window.

## **CAB SEATING**

The front seating shall consist of a heavy duty vinyl 40/20/40 split front bench seat w/center armrest, cup holder, storage and manual driver-side lumbar support

## **REAR CAB SEATING**

The rear seating shall consist of a heavy duty vinyl 60/40 bench flip-up/fold-down rear seat.

## **AUDIO**

AM/FM stereo, w/digital clock & 2-speakers

## **GRILLE**

Black painted

## **BUMPER**

Chrome Steel with grained MIC top cover.

## **WHEELS**

Six, 8-hole Disc, 17.00" x 6.50" J Steel

## **TIRES**

Six (6) LT245/75Rx17E black side-wall all-terrain tires shall come supplied from ford with the chassis.

## **WARRANTY**

Manufacturer's standard warranty, a copy of which must be submitted with bid.

## **CHASSIS PAINT COLOR**

The cab shall be painted a single color by the chassis manufacturer.

**Color:** Red – Vermillion, Race Red or approved color prior to ordering

## **STEP BARS**

One (1) set of polished stainless steel step bars shall be mounted to each side of the chassis. There shall be a slip resistant step pad located bellow each chassis door.

## **FRONT MOUNTED WINCH**

A WARN model M12000 electric winch with 12,000 pound (5,440 kg) rated line pull shall be installed in the brush guard. The winch shall be equipped with 125.00' of 3/8" diameter wire rope, clevis hook and a 4-way roller fairlead. The winch shall be operated through a 12.00' pendant with a hand held control. The winch shall include an automatic mechanical cone brake. It shall feature an easy to use free-spooling rotating ring gear clutch.

The installation shall maintain access to the winch controls.

## **GRILLE GUARD - STAINLESS STEEL**

A Warn model 98205 Trans4mer Gen II grille guard shall be provided. The grille guard kit shall be provided with a stainless steel finish.

## **HEADLAMP GUARD - STAINLESS STEEL**

A Warn model 98210 Trans4mer Gen II headlamp guard kit shall be provided and installed. The headlamp guard kit shall attach to the grille guard. The headlamp guard kit shall be provided with a stainless steel finish.

## **WINCH CARRIER - LARGE FRAME - BLACK FINISH**

A Warn model 90110 large frame winch carrier shall be installed in grille guard. It shall be capable of carrying Warn winch models 16.5ti, M15, M12, and M8274-50.

The winch carrier shall have a powder coated black finish.

## **TOWING HITCH RECEIVER**

A trailer towing hitch receiver with safety chain anchors shall be installed at the rear of the apparatus.

The hitch receiver shall be constructed of heavy steel tubing and reinforced to the apparatus framework. The hitch receiver shall have a Class V rating of 16,000 pounds towing and 1,600 pounds tongue weight when used with a weight distributing hitch assembly.

The receiver shall accept a 2.00" hitch.

One (1) 7-prong connector with a weatherproof cover shall be supplied and mounted near the rear receiver tube.

## **SEAT BELT CLARIFICATION**

Red seat belts shall be provided if available from the chassis manufacturer. The apparatus manufacturer shall not change commercial chassis seat belts.

## **TIRE PRESSURE MONITORING**

The apparatus shall be provided with tire pressure indicating valve stem caps. The indicators shall be installed on each tire and be a heavy duty design manufactured specifically for trucks. When tire is properly inflated, the indicator inside the cap shall be green, and when the tire is underinflated by 10%, the indicator inside the cap shall be red.

## **WHEEL COVERS**

Each wheel shall have one (1) stainless steel wheel cover installed.

## **CHASSIS TOW HOOKS**

The front tow hooks shall be supplied by the chassis manufacturer.

## **REAR TOW PLATES**

Two (2) rear tow plates with 1-1/2" I.D. holes, constructed with 1" steel plate shall be provided on the apparatus. These shall be located below the apparatus body and fastened to the rear chassis frame rails.

The tow plates shall be painted black.

## **REAR MUD FLAPS**

A pair of black rubber mud flaps shall be provided and installed behind the rear wheels.

## **HIGH IDLE SYSTEM**

There shall be a high idle system furnished and installed on the apparatus to allow an increase in the engine speed when the apparatus is parked. (NFPA 1906, 5.2.1.4 requirement).

An interlock shall prevent the operation of this engine speed control device unless the parking brake is fully engaged and the transmission is in neutral or park, or unless the engine speed control device is used with chassis engine driven components, in which case it shall be interlocked with the engagement of those components.

## **CENTER CONSOLE**

A center console fabricated from 1/8" aluminum shall be furnished and shall be located between the driver and officer's seats.

The forward area of the console shall have a mounting surface for emergency lighting switch panels and/or electronic siren control boxes within reach of the driver or officer.

## **MASTER BODY DISCONNECT SWITCH**

A master body disconnect on/off switch shall be provided in the cab, near the driver's door. The switch shall disconnect the power to the apparatus body when the ignition switch is in the off position.

One (1) reset breaker shall be installed between the solenoid output and any electrical load.

One (1) indicator light shall be provided to indicate the apparatus 12-volt system is on. The light shall be located in the chassis cab and be visible from the driver's positions. The light shall be green in color and labeled "Master Battery Disconnect".

## **BACK-UP ALARM**

One (1) 97 DB back up alarm shall be provided and installed at the rear of the unit. It shall be wired to activate when the transmission is placed in reverse.

## **APPARATUS BODY**

### **BODY DESIGN**

The body shall be modular in design, allowing it to be removed and remounted on a new chassis.

The fabrication of the body shall be formed sheet metal. Formed components shall allow the Purchaser to have the body repaired locally in the case where any object has



struck the body and caused damage. The use of proprietary extrusions will prevent the Purchaser from such repair and shall NOT be used.

## **SUBFRAME**

The body shall be attached to and supported by a heavy duty, spring loaded, aluminum subframe u-bolted to the truck frame. The subframe shall be spring mounted to the chassis frame to allow for independent flexing of the body in relation to the chassis frame.

## **BODY CONSTRUCTION**

The body shall be fabricated using aluminum extrusions, angle, smooth aluminum sheet and aluminum treadplate providing a durable, corrosion resistant, and lightweight body.

The entire body shall be a welded into a one piece module, assembled and painted prior to mounting on the chassis.

## **COMPARTMENT CONSTRUCTION**

The compartments shall be constructed of .125" 5052-H32 Aluminum. Divider walls between compartments shall be of single wall construction with a minimum wall thickness of 0.125", with double 90 degree bends on the outside to form a channel. Compartment floors shall have a minimum of a 0.50" lip above bottom of the door opening, providing a sweep out design.

The rear compartment floor shall be constructed of .125" 3003-H22 Aluminum Tread Plate.

For adequate ventilation and air displacement, each compartment shall be properly louvered with square vents. The rearmost wall of the rear compartments, shall have full height removable panels, constructed of aluminum, to cover and protect all 12 volt electrical accessories mounted on the walls. The panels shall be removable to provide access to those components.

## **FENDER PANELS**

Side fender panels above the rear wheels shall be 0.125" 5052-H32 Aluminum.

## **BODY CONFIGURATION**

The apparatus body shall be 108.00" long.

## **BODY WIDTH**

The apparatus body shall be 93.00" wide.

## **BODY HEIGHT**

The overall height of the apparatus body shall not exceed 64.00".

(The above overall height is for the body only, it does not include any upper hose trays or coffin boxes, if applicable to this specification.)

## **ROLL-UP DOORS**

All compartment doors shall be equipped with AMDOR brand roll-up doors. The slats shall be 1.00" double wall aluminum with continuous ball and socket hinge joints designed to prevent water ingress and weather tight recessed dual durometer seals.

The interior door curtains shall be smooth to prevent equipment hang-ups. The door tracks and side frames shall each be one-piece aluminum. Each side seal shall be recessed, and non-marring with UV stabilizers to prevent warping.

The bottom panel flange shall have cut-outs for ease of access with gloved hands. The door strikers shall provide support beneath the lift bar to prevent door curtain bounce and potential false door ajar indications.

Each door shall be supplied with a full width lift bar, constructed of stainless steel.

## **COMPARTMENT SHELF TRACKS - ALUMINUM**

Heavy-duty aluminum Uni-Strut tracks shall be provided in the compartments as specified. The tracks shall not be welded to the apparatus body. The Uni-strut tracks shall allow the shelving to be positioned at any location in the compartment by simply loosening a bolt on each end of the shelf, pushing inward on the bolt, and sliding the shelf to the desired location.

## **COMPARTMENT SHELVING - SIDE COMPARTMENTS**

Adjustable shelving shall be installed in the side compartments as identified later in this specification. Each shelf shall be made of 0.125" smooth aluminum with a 2.00" high perimeter retaining lip with welded corners.

## **LEFT SIDE COMPARTMENT IN FRONT OF REAR WHEELS, L1**

There shall be a full height compartment located ahead of the rear wheels on the left side of the apparatus body. This compartment shall be designated as L1 within these specifications and any ensuing paperwork or drawings after contract execution.

- Dimensions: 34.75" wide x 57.625" high x 21.50" deep
- Door Opening: 28.25" wide x 53.125" high
- Usable Width: 34.75" - Usable Depth: 19.50"

The compartment shall have a roll up door. The door shall have a satin finish.

## **COMPARTMENT LIGHT(S)**

One (1) 33.00" Luma Bar LED strip light shall be installed inside the compartment.

The compartment light(s) shall be controlled by a magnetic "On-Off" switch located on each compartment door.

One (1) louver vent shall be installed in the compartment.

#### ADJUSTABLE SHELVING TRACKS

There shall be two (2) uni-strut channels, one (1) per side, installed in the compartment.

#### ADJUSTABLE SHELF(S)

There shall be One (1) adjustable shelf constructed of 0.125" aluminum with a 2.00" upward bend at front and rear, and side supports.

### **LEFT SIDE ABOVE WHEEL COMPARTMENT, L2**

There shall be a standard height compartment located above the rear wheels on the left side of the apparatus body. This compartment shall be designated as L2 within these specifications and any ensuing paperwork or drawings after contract execution.

- Dimensions: 47.00" wide x 27.625" high x 21.50" deep
- Door Opening: 44.50" wide x 23.125" high
- Usable Width: 47.00" - Usable Depth: 19.50"

The compartment shall have a roll up door. The door shall have a satin finish.

#### COMPARTMENT LIGHT(S)

One (1) 12.00" Luma Bar LED strip light shall be installed inside the compartment.

The compartment light(s) shall be controlled by a magnetic "On-Off" switch located on each compartment door.

The compartment shall be cross vented into the full height compartments

#### ADJUSTABLE SHELVING TRACKS

There shall be two (2) uni-strut channels, one (1) per side, installed in the compartment.

#### ADJUSTABLE SHELF(S)

There shall be One (1) adjustable shelf constructed of 0.125" aluminum with a 2.00" upward bend at front and rear, and side supports.

### **LEFT SIDE COMPARTMENT BEHIND REAR WHEELS, L3**

There shall be a standard height compartment located above the rear wheels on the left side of the apparatus body. This compartment shall be designated as L3 within these specifications and any ensuing paperwork or drawings after contract execution.

- Dimensions: 26.25" wide x 57.625" high x 21.50" deep
- Door Opening: 19.75" wide x 53.125" high
- Usable Width: 23.50" - Usable Depth: 19.50"

The compartment shall have a roll up door. The door shall have a satin finish.

#### COMPARTMENT LIGHT(S)

One (1) 33.00" Luma Bar LED strip light shall be installed inside the compartment.

The compartment light(s) shall be controlled by a magnetic "On-Off" switch located on each compartment door.

One (1) louver vent shall be installed in the compartment.

#### ADJUSTABLE SHELVING TRACKS

There shall be two (2) uni-strut channels, one (1) per side, installed in the compartment.

#### ADJUSTABLE SHELF(S)

There shall be One (1) adjustable shelf constructed of 0.125" aluminum with a 2.00" upward bend at front and rear, and side supports.

#### **RIGHT SIDE COMPARTMENT IN FRONT OF REAR WHEELS, R1**

There shall be a full height compartment located ahead of the rear wheels on the right side of the apparatus body. This compartment shall be designated as R1 within these specifications and any ensuing paperwork or drawings after contract execution.

- Dimensions: 34.75" wide x 57.625" high x 21.50" deep
- Door Opening: 28.25" wide x 53.125" high
- Usable Width: 34.75" - Usable Depth: 19.50"

The compartment shall have a roll up door. The door shall have a satin finish.

#### COMPARTMENT LIGHT(S)

One (1) 33.00" Luma Bar LED strip light shall be installed inside the compartment.

The compartment light(s) shall be controlled by a magnetic "On-Off" switch located on each compartment door.

One (1) louver vent shall be installed in the compartment.

#### ADJUSTABLE SHELVING TRACKS

There shall be two (2) uni-strut channels, one (1) per side, installed in the compartment.

#### ADJUSTABLE SHELF(S)

There shall be One (1) adjustable shelf constructed of 0.125" aluminum with a 2.00" upward bend at front and rear, and side supports.

## **RIGHT SIDE ABOVE WHEEL COMPARTMENT, R2**

There shall be a standard height compartment located above the rear wheels on the right side of the apparatus body. This compartment shall be designated as R2 within these specifications and any ensuing paperwork or drawings after contract execution.

- Dimensions: 47.00" wide x 27.625" high x 21.50" deep
- Door Opening: 44.50" wide x 23.125" high
- Usable Width: 47.00" - Usable Depth: 19.50"

The compartment shall have a roll up door. The door shall have a satin finish.

### **COMPARTMENT LIGHT(S)**

One (1) 12.00" Luma Bar LED strip light shall be installed inside the compartment.

The compartment light(s) shall be controlled by a magnetic "On-Off" switch located on each compartment door.

The compartment shall be cross vented into the full height compartments

### **ADJUSTABLE SHELVING TRACKS**

There shall be two (2) uni-strut channels, one (1) per side, installed in the compartment.

### **ADJUSTABLE SHELF(S)**

There shall be One (1) adjustable shelf constructed of 0.125" aluminum with a 2.00" upward bend at front and rear, and side supports.

## **RIGHT SIDE COMPARTMENT BEHIND REAR WHEELS, R3**

There shall be a standard height compartment located above the rear wheels on the right side of the apparatus body. This compartment shall be designated as R3 within these specifications and any ensuing paperwork or drawings after contract execution.

- Dimensions: 26.25" wide x 57.625" high x 21.50" deep
- Door Opening: 19.75" wide x 53.125" high
- Usable Width: 23.50" - Usable Depth: 19.50"

The compartment shall have a roll up door. The door shall have a satin finish.

### **COMPARTMENT LIGHT(S)**

One (1) 33.00" Luma Bar LED strip light shall be installed inside the compartment.

The compartment light(s) shall be controlled by a magnetic "On-Off" switch located on each compartment door.

One (1) louver vent shall be installed in the compartment.

### **ADJUSTABLE SHELVING TRACKS**

There shall be two (2) uni-strut channels, one (1) per side, installed in the compartment.

#### **ADJUSTABLE SHELF(S)**

There shall be One (1) adjustable shelf constructed of 0.125" aluminum with a 2.00" upward bend at front and rear, and side supports.

#### **REAR BODY CONFIGURATION, ENCLOSED**

The cargo area of the apparatus body shall be completely enclosed and covered with diamondplate aluminum.

#### **REAR CENTER COMPARTMENT, CR1**

There shall be one (1) compartment at the rear, approximately 50.00" wide x 43.00" tall x 96.00" deep.

The compartment shall have a roll up door. The door shall have a satin finish.

#### **COMPARTMENT LIGHT(S)**

One (1) 33.00" Luma Bar LED strip light shall be installed inside the compartment.

The compartment light(s) shall be controlled by a magnetic "On-Off" switch located on each compartment door.

#### **SLIDE-OUT TRAY, 1000 lb.**

One (1) 1000 lb. SLIDEMASTER slide-out tray with 100% extension shall be mounted in the compartment.

The frame of the tray shall be made with steel and shall roll on sealed, steel bearings.

The tray shall have a "gravity lock" that shall unlock the unit when it is turned either 90 degrees left or right and locks the unit in both the seated and extended positions by rotation of a handle.

The deck shall be constructed of 7/16" plywood and a 1 1/2" aluminum lip all around.

#### **FRONT BODY PROTECTION PANELS**

Aluminum tread plate overlays and panels shall be installed on the front of the body compartment from the lower edge to the top of the compartment doors.

#### **WHEEL WELL PROTECTION PANELS**

Aluminum tread plate overlays and panels shall be installed on the side fender panels, above the rear wheels.

## **REAR LOWER BODY PROTECTION PANEL**

Aluminum tread plate overlays and panels shall be installed the full width of the body, in the area below rear compartment and above the tailboard.

## **COMPARTMENT TOP PROTECTION PANELS**

Aluminum tread plate overlays and panels shall be installed the full length of the compartment tops.

## **FUEL FILL W/ ACCESS DOOR**

One (1) Cast Products aluminum fuel fill with a hinged access door shall be installed in the left hand side wheel well rear of the axle. It shall be labeled "Ultra Low Sulfur Diesel Fuel Only".

## **REAR TAILBOARD**

A rear tailboard shall be provided and installed at the rear of the body. The rear tailboard shall be a minimum of 10.00" deep and constructed of aluminum Grip Strut. The outside edges of the rear tailboard shall be trimmed with bright diamondplate aluminum.

The tailboard shall meet the NFPA 1901/1906 recommended requirements for non-slip surfaces.

The rear tailboard shall be the full width of the body.

## **EXTERIOR GRAB RAILS**

Each grab rail shall be non-slip, 1.25" diameter extruded polished aluminum grab rails with rubber inserts designed to provide maximum gripping ability, strength, and durability. The rails shall comply with NFPA 1901.

## **GRAB RAILS, REAR, VERTICAL**

There shall be two (2) grab rails, located at the rear of the body. One (1) shall be located on the left hand side and one (1) shall be located on the right hand side.

## **VOLT ELECTRICAL SYSTEM**

The truck shall have a 12-Volt electrical system. All wiring will be run in convoluted high temperature plastic loom. The wiring shall be color-coded, numbered, and function imprinted for permanent identification. All wiring devices shall be rated to carry 125% of the maximum ampere load for which the circuit is protected. All added electrical equipment shall be served by circuits separate and distinct from the chassis circuits. All solenoids, relays, and terminal blocks will be located in an easily accessible area. All circuits provided shall have properly rated low voltage over current protective devices. All electrical will be accordance with modern automotive wiring standards. All under side terminal junctions shall be fully enclosed in sealed plastic weather proof boxes.

## **ELECTRICAL SYSTEM (CHASSIS OEM)**

The commercial chassis electrical system shall be furnished and installed by the chassis manufacturer and shall not be altered in any way so as to void or diminish the manufacturer's warranty responsibilities. Body builder wiring interface harnesses shall be specific to the chassis being utilized and the apparatus specifications with all such harnesses, circuits and connections being documented by the body builder and made part of the electrical schematics provided with the completed apparatus.

## **ELECTROMAGNETIC INTERFERENCE PROTECTION**

The apparatus shall incorporate modern electrical system design, installation procedures, grounding techniques and wave generating components to provide the highest level of protection against electromagnetic (EMI) and radio wave frequency (RFI) interferences.

The apparatus shall be designed to operate and correctly function in congested municipal environments as well as industrial or concentrated commercial scenes without adverse effects from either EMI or RFI. Communications equipment installed after the apparatus is delivered shall be immediately tested by the installer for reception and transmission signal quality.

## **NFPA 1906 CERTIFIED 12 VOLT ELECTRICAL SYSTEM**

The 12-volt apparatus body electrical system shall be provided and shall be in compliance with NFPA 1906 testing and certification procedures as follows:

### **NFPA MINIMUM ELECTRICAL LOAD DEFINITION**

The NFPA 1906 defined minimum electrical load shall consist of the total amperage required to simultaneously operate the following in a stationary mode:

1. Propulsion engine and transmission.
2. The clearance and marker lights.
3. Communication equipment. 5 amp default.
4. Illumination of all walking surfaces, the ground at all egress points, control and instrumentation panels and 50% of total compartment lighting.
5. Minimum warning lights required for "blocking right of way" mode.
6. The current to simultaneously operate and fire pump and all specified electrical devices.
7. Anything defined by the purchaser, in the advertised specifications, to be critical to the mission of the apparatus.



## **RESERVE CAPACITY TEST**

The first electrical test to be performed will be the Reserve Capacity Test. All items listed in NFPA Minimum Load Definition shall be activated with the engine shut off. After 10 minutes of operation, the items 1-7 shall be deactivated. After deactivation, the battery system shall have ample reserve to start the engine.

## **ALTERNATOR PERFORMANCE TEST AT IDLE**

The second electrical test to be performed shall be Alternator Performance Test at Full Load. All electrical loads shall be activated with the engine running up to the governed rpm for two hours. During the test, the system voltage shall not drop below 11.7 volts or have excessive battery discharge for more than 120 seconds. Any loads not defined in the NFPA Minimum Electrical Load may be load managed to pass test.

## **TEST CONDITIONS**

All electrical testing shall be performed with the engine compartment at approximately 200 degrees.

## **LOW VOLTAGE ALARM**

One (1) Kussmaul 091-85-12 Low Voltage alarm system shall be supplied and installed with a Cole Hersee 4112-RC light/buzzer located in the cab. The system shall detect when the battery voltage drops below 11.8 volts and remains low for 120 seconds.

## **CHASSIS GROUND LIGHTS**

LED ground lights with outward facing angle brackets shall be installed, one (1) under each chassis door.

## **FRONT OF BODY GROUND LIGHTS**

Two (2) LED ground lights with outward facing angle brackets shall be installed under the front of the body. One (1) light shall be located on the left hand side and one (1) light located on the right hand side of the apparatus.

## **REAR STEP GROUND LIGHTS**

Two (2) LED ground lights with outward facing angle brackets shall be installed under the rear step of the apparatus, one (1) each side.

## **GROUND LIGHT SWITCHING**

The cab and body ground lights shall activate by engaging the parking brake.

## **HAZARD LIGHT**

A Whelen model 0SR00FCR flashing red LED light, located in the driving compartment, shall be illuminated automatically whenever any compartment door is ajar.

The hazard light shall be marked with a sign that reads "Do Not Move Apparatus When Light is On".

The warning light shall be interlocked to the parking brake and shall only alert the driver when the parking brake is released. The light shall also be used to signal that other ancillary equipment such as racks light towers etc. are not in their "ready for transport" position.

### **LICENSE PLATE LIGHT**

A license plate bracket with LED light shall be provided and installed on the rear of the body. It shall be wired to come on with the headlights.

### **BRAKE, TAIL, TURN LIGHTS**

One (1) pair of flush-mount round 4.00" red LED combination brake/ tail/ turn lights shall be provided at the rear of the body, one (1) each side, outboard of the reverse lights. The lights shall be attached with a rubber grommet.

### **BACK UP LIGHTS**

One (1) pair of flush-mount round 4.00" clear LED back up lights shall be provided at the rear of the body, one (1) each side, inboard of the B/T/T lights. The lights shall be attached with a rubber grommet.

### **MARKER LIGHTS**

LED marker lights shall be installed on the vehicle in conformance to the Department of Transportation requirements. The side and rear of the body will be provided with reflectors. All marker lights shall be incorporated into the headlight circuit of the cab/chassis

### **LED TELESCOPIC BOTTOM RAISE FLOODLIGHTS**

Two (2) Akron SceneStar LED model ELSS-SLDC telescopic lights shall be installed. The light pole shall be anodized aluminum and have a knurled twist lock mechanism to secure the extension pole in position. The extension pole shall rotate 360 degrees. The outer pole shall be a grooved aluminum extrusion and qualify as an NFPA compliant handrail. The pole mounting brackets shall have a 4" offset. Wiring shall extend from the pole bottom with a 4' retractile cord.

The lamphead shall have eight (8) ultra-bright white LEDs. It shall operate at 12 volts DC, draw 13 amps, and generate 14,000 lumens. The lamphead shall direct 50 percent of the light onto the action area while providing 50 percent to illuminate the working area. The light head shall tilt up and down with two heavy duty handles and shall be mounted with a swivel assembly. The lamphead shall incorporate heat-dissipating fins and be no more than 5.6" deep by 4 1/4" high by 14" wide. The lamphead and mounting arm shall be powder coated white. The floodlight shall be for fire service use.

An on/off switch with weatherproof boot shall be provided on the lighthouse.

Choose mounting location for pole lights

## **NFPA AUDIBLE AND LIGHTING WARNING PACKAGE**

The following warning light package shall include all of the minimum warning light and actuation requirements for the current revision of the NFPA 1901/ 1906. The lighting as specified shall meet the requirements for both "Clearing Right of Way" and "Blocking Right of Way" which includes disabling all white warning lights when the apparatus is in "Blocking Right of Way" mode.

### **WARNING LIGHT FLASH PATTERN**

All of the perimeter warning lights shall be set to the default NFPA flash pattern as provided by the warning light manufacturer.

### **WARNING PACKAGE ACTUATION CONTROLS**

The warning light package shall be actuated with two (2) warning light switches located on the cab switch panel. One (1) switch for the lightbar, and one (1) switch for the warning lights.

The wiring for the warning light package shall engage all of the lights required for "Clearing Right of Way" mode when the vehicle parking brake is not engaged. An automatic control system shall be provided to switch the warning lights to the "Blocking Right of Way" mode when the vehicle parking brake is engaged.

### **LIGHTBAR**

One (1) WHELEN model JE2NFPA 56.00" LED lightbar shall be supplied and mounted. The lightbar shall have clear lenses and contain the following modules:

- Four (4) RED LIN6 LED modules, two (2) on each corner.
- Four (4) RED CON3 LED modules, across the front
- Two (2) WHITE CON3 LED modules, on the front

The forward facing white lights shall be automatically disabled for the "Blocking Right of Way" mode.

### **LIGHT BAR ACTUATION**

The light bar shall be controlled by a switch in the cab.

### **LOWER FRONT WARNING LIGHTS**

One (1) pair of Whelen model 60R02FCR Super LED warning lights shall be installed, one (1) each side on the front of the chassis cab.

The lights shall be red in color with clear lens.

The light(s) shall be supplied and installed with a chrome bezel.

## **INTERSECTION WARNING LIGHTS**

One (1) pair of Whelen model 60R02FCR Super LED warning lights shall be installed, one (1) each side of the chassis bumper.

The lights shall be red in color with clear lens.

The light(s) shall be supplied and installed with a chrome bezel.

## **LOWER MID-BODY WARNING LIGHTS**

One (1) pair of Whelen model 60R02FCR Super LED warning lights shall be installed , one (1) each side of the apparatus, mid-body.

The lights shall be red in color with clear lens.

The light(s) shall be supplied and installed with a chrome bezel.

## **LOWER REAR WARNING LIGHTS**

One (1) pair of Whelen model 60R02FCR Super LED warning lights shall be installed, one (1) each side on the lower rear of the apparatus body.

The lights shall be red in color with clear lens.

The light(s) shall be supplied and installed with a chrome bezel.

## **LOWER WARNING LIGHT ACTIVATION**

The lights shall be controlled by a switch in the cab.

## **ELECTRIC SIREN AND CONTROL**

One (1) Whelen model #295SLSA1 electronic siren shall be mounted in the cab. This unit shall feature an electronic air horn, wail, yelp, hi-lo and shall have a hard wired PA microphone.

## **ELECTRONIC SIREN SPEAKER**

One (1) Whelen model SA315FIP 100 watt speaker shall be provided. The speaker shall have a nylon composite black housing with front loaded, powder coated speaker driver. The speaker shall produce a minimum sound output of 120 dB at 10 feet to meet current NFPA 1901/1906 requirements. The speaker shall be wired to the electric siren located in the cab.

The speaker shall be located on the right hand side of the bumper.

## **PAINT, STRIPING, AND LETTERING SECTION**

## **BODY PAINT PROCESS**

All bright metal fittings, if unavailable in stainless steel shall be heavily chrome plated. Iron fittings shall be copper plated prior to chrome plating.

All seams shall be caulked both inside and along the exterior edges with a urethane automotive sealant to prevent moisture from entering between any body panel.

The body and all parts shall be thoroughly washed with a grease cutting solvent (PPG DX330) prior to any sanding. After the body has been sanded and the weld marks and minor imperfections are filled and sanded, the body shall be washed again with (PPG DX330) to remove any contaminants on the surface.

The first coating to be applied is a pre-treat self etching primer (PPG DX1787) (.5 to 1.0 dry film build) for maximum adhesion to the body material. The next two to four coats (depending on need) shall be an acrylic urethane primer surfacer (PPG K36). The film build shall be 4-6 mils when dry. The primer surfacer coat, after appropriate dry time, shall be sanded with 320-600 grit sandpaper to ensure maximum gloss of the paint. The last step is the application of at least three coats of PPG Delfleet polyurethane two-component color (single stage). The film build being 2-3 mils dry. The single stage polyurethane, when mixed F3270 catalyst (PPG F3260) shall provide a UV barrier to prevent fading and chalking.

All products and technicians are certified by PPG every two (2) years.

## **CHASSIS PAINT**

The chassis shall be painted by the OEM Chassis Manufacturer.

## **IMMERSION PRIMING**

Before painting the body shall go through a computer controlled 12 stage electro-cathodic immersion prime paint system.

There shall be a 5-stage pre-treat system to ensure consistent primer adhesion. In this process, the body is treated with phosphate to ensure the primer adheres to the metal.

The body shall then be plunged into a vat of high voltage, electrically charged primer, that shall fuse the paint to the aluminum. This process ensures that all surfaces, even the most hidden, receive a uniform, smooth, consistent layer of protection, **NO EXCEPTION TO THIS REQUIREMENT SHALL BE ALLOWED.**

## **PAINT FINISH**

The body shall be painted with a PPG Delfleet Evolution Paint System.

As part of the curing process the painted body shall go through a baking process. The painted components shall be baked at 185 degrees for 3 hours to achieve a complete coating cure on the finished product.

After bake and ample cool down time, the coated surface shall be sanded using 3M 1000, 1200, and or 1500 grit sandpaper to remove surface defects. In the final step, the surface shall be buffed with 3M Super-duty compound to add extra shine to coated surface. No more than .5 mil shall be removed in this process.

All products and technicians shall be certified by PPG every two (2) years.

### **UNDERCOATING**

The entire understructure of the apparatus body shall be undercoated using Monsey 2.7 Low VOC Solvent Base Sound Sealer.

### **SIDE COMPARTMENT FINISH, ZOLATONE**

The apparatus side compartment interiors are to be coated with Zolatone, a polychromatic, modified nitrocellulose coating with a flat background color with accenting fleck colors. The compartments shall be cleaned with a grease remover, and then the surface sanded and prepared for painting. The Zolatone finish is washed and waxed like paint, and is resistant to man solvents and wear.

### **PAINT COLOR**

The apparatus body paint shall be "cross referenced" from the chassis paint, and shall be painted to match the main chassis color as close as possible.

### **REFLECTIVE STRIPING**

Reflective striping shall be applied to the perimeter of the truck. Size and design shall be determined by the department.

### **CHEVRON STRIPING**

At least 50% of the rear of the unit shall be covered with Red and Yellow alternating 6" stripe in an inverted Chevron pattern.

### **LETTERING**

Reflective lettering shall be applied to the cab doors at the direction of the purchaser.

Photos or drawings of the lettering and striping layout shall be provided by the City of Dublin prior to construction.