



A-52-18

Nassau County
Office of Purchasing

Staff Summary A-52-2018

Subject: Fire Marshal Command Unit (S/B # 07053-08078-111)
Department: Office of Purchasing
Department Head Name: Melissa Gallucci
Department Head Signature <i>Melissa Gallucci</i>

Date: August 17, 2018
Vendor Name: L. I. Proliner, Inc.
Contract Number: A-52-2018
Contract Manager Name: Anette Sullivan, Buyer

Proposed Legislative Action					
	To	Date	Approval	Info	Other
	Assgn Comm				
	Rules Comm				
	Full Leg				

Internal Approvals			
Date & Init.	Approval	Date & Init.	Approval
	Dept. Head		
	Budget	09/11/2018	County Atty.
	Deputy C.E.		County Exec.

Narrative

Purpose: To authorize and award a purchase order for a command unit vehicle for the Nassau County Fire Marshal.

Discussion: This solicitation was advertised in Newsday and posted to the Nassau County Bid Solicitation Board where five (5) vendors viewed the bid. Minority Affairs was given a copy of the bid. One (1) vendor submitted a bid.

Impact on Funding: Estimated cost of this contract is Two Hundred Seventy-Four Thousand Six Hundred Dollars (\$274,600.) from grant funds.

Recommendation: Office of Purchasing recommends an award be given to L. I. Proliner, Inc., as the lowest responsible bidder meeting specifications.

APPROVED:

[Signature] 9/11/18

INSURANCE SECTION

(DATE)

REAL ESTATE INSURANCE DIV
INSURANCE SECTION

RECEIVED
CLERK OF THE LEGISLATURE
NASSAU COUNTY
2018 SEP 25 P 2:51

COUNTY OF NASSAU
INTER – DEPARTMENTAL MEMO

TO: CLERK OF THE COUNTY LEGISLATURE

A-52-2018

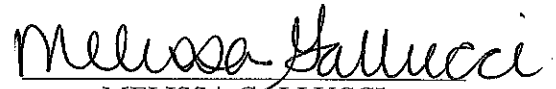
FROM: MELISSA GALLUCCI -~~COMMISSIONER~~ OF SHARED SERVICES

DATE: AUGUST 20, 2018

SUBJECT: RESOLUTION-NASSAU COUNTY FIRE MARSHAL

THIS RESOLUTION IS RECOMMENDED BY THE DIRECTOR, OFFICE OF PURCHASING TO AUTHORIZE AN AWARD AND TO EXECUTE A PURCHASE ORDER IN THE AMOUNT OF TWO HUNDRED SEVENTY -FOUR THOUSAND SIX HUNDRED DOLLARS (\$274,600.00) ON BEHALF OF THE NASSAU COUNTY FIRE MARSHAL TO L.I. PROLINER, INC WHO IS THE LOWEST RESPONSIBLE BIDDER MEETING SPECIFICATIONS TO PROVIDE A COMMAND UNIT FOR NASSAU COUNTY FIRE MARSHAL.

THE ABOVE DESCRIBED DOCUMENT ATTACHED HERETO IS FORWARDED FOR YOUR REVIEW AND APPROVAL AND SUBSEQUENT TRANSMITTAL TO THE RULES COMMITTEE FOR INCLUSION IN ITS AGENDA.


MELISSA GALLUCCI
COMMISSIONER OF SHARED SERVICES

MS: br

ENCL: (1) STAFF SUMMARY
(2) DISCLOSURE STATEMENT
(3) RESOLUTION
(4) BID SUMMARY
(5) BID PROPOSAL
(6) CERTIFICATE OF LIABILITY INSURANCE
(7) RECOMMENDATION OF AWARD
(8) POLITICAL CONTRIBUTION FORM



RULES RESOLUTION

2018

A RESOLUTION AUTHORIZING THE DIRECTOR OF NASSAU COUNTY OFFICE OF PURCHASING TO AWARD AND EXECUTE A CONTRACT BETWEEN THE COUNTY OF NASSAU ACTING ON BEHALF OF THE NASSAU COUNTY FIRE MARSHAL AND L.I. PROLINER, INC.

WHEREAS, the County of Nassau on behalf of the NASSAU COUNTY OFFICE OF PURCHASING has received competitive bids 07053-08078-111 for a Command Unit for The Nassau County Fire Marshal as more particularly described in the bid document; and

WHEREAS, the Director is representing to the Rules Committee that the firm, L.I. Proliner, Inc. submitted the lowest responsible bid and meets all specifications for the product described in the said contract as determined by the Director of the Office of Purchasing.

RESOLVED, that the Rules Committee of the Nassau County Legislature authorizes the Director, Office of Purchasing to award and execute the said Purchase Order with L.I. Proliner, Inc.



COUNTY OF NASSAU

POLITICAL CAMPAIGN CONTRIBUTION DISCLOSURE FORM

1. Has the vendor or any corporate officers of the vendor provided campaign contributions pursuant to the New York State Election Law in (a) the period beginning April 1, 2016 and ending on the date of this disclosure, or (b), beginning April 1, 2018, the period beginning two years prior to the date of this disclosure and ending on the date of this disclosure, to the campaign committees of any of the following Nassau County elected officials or to the campaign committees of any candidates for any of the following Nassau County elected offices: the County Executive, the County Clerk, the Comptroller, the District Attorney, or any County Legislator? If yes, to what campaign committee?

NO.

2. VERIFICATION: This section must be signed by a principal of the consultant, contractor or Vendor authorized as a signatory of the firm for the purpose of executing Contracts.

The undersigned affirms and so swears that he/she has read and understood the foregoing statements and they are, to his/her knowledge, true and accurate.

The undersigned further certifies and affirms that the contribution(s) to the campaign committees identified above were made freely and without duress, threat or any promise of a governmental benefit or in exchange for any benefit or remuneration.

Vendor: LI PROLINE, INC
Dated: 8/10/12 Signed: [Signature]
Print Name: BILLY GERARDI
Title: PRESIDENT

ALL BIDS MUST BE F.O.B. DESTINATION AND INCLUDE DELIVERY WITHIN DOORS UNLESS OTHERWISE SPECIFIED.

BIDDER SIGN HERE [Signature] LI PROLINE, INC [Signature]
BIDDER TITLE

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COUNTY OF NASSAU

CONSULTANT'S, CONTRACTOR'S AND VENDOR'S DISCLOSURE FORM

1. Name of the Entity: L.I. Proliner Inc.

Address: 18 Peconic Ave

City, State and Zip Code: Medford NY 11763

2. Entity's Vendor Identification Number: 11 333 0825

3. Type of Business: ☐ Public Corp ☐ Partnership ☐ Joint Venture
☐ Ltd. Liability Co ☒ Closely Held Corp ☐ Other (specify)

4. List names and addresses of all principals; that is, all individuals serving on the Board of Directors or comparable body, all partners and limited partners, all corporate officers, all parties of Joint Ventures, and all members and officers of limited liability companies (attach additional sheets if necessary):

Vasilios Hadzigeorgiou 3 Hulse Ct Patchogue NY 11772

5. List names and addresses of all shareholders, members, or partners of the firm. If the shareholder is not an individual, list the individual shareholders/partners/members. If a Publicly held Corporation include a copy of the 10K in lieu of completing this section.

Vasilios Hadzigeorgiou 3 Hulse Ct Patchogue NY 11772

Page 2 of 4

6. List all affiliated and related companies and their relationship to the firm entered on line 1. above (if none, enter "None"). Attach a separate disclosure form for each affiliated or subsidiary company that may take part in the performance of this contract. Such disclosure shall be updated to include affiliated or subsidiary companies not previously disclosed that participate in the performance of the contract.

None

7. List all lobbyists whose services were utilized at any stage in this matter (i.e., pre-bid, bid, post-bid, etc.). The term "lobbyist" means any and every person or organization retained, employed or designated by any client to influence - or promote a matter before - Nassau County, its agencies, boards, commissions, department heads, legislators or committees, including but not limited to the Open Space and Parks Advisory Committee and Planning Commission. Such matters include, but are not limited to, requests for proposals, development or improvement of real property subject to County regulation, procurements, or to otherwise engage in lobbying as the term is defined herein. The term "lobbyist" does not include any officer, director, trustee, employee, counsel or agent of the County of Nassau, or State of New York, when discharging his or her official duties.

(a) Name, title, business address and telephone number of lobbyist(s):

None

Page 3 of 4

(b) Describe lobbying activity of each lobbyist. See page 4 of 4 for a complete description of lobbying activities.

None


(c) List whether and where the person/organization is registered as a lobbyist (e.g., Nassau County, New York State):

None.

8. VERIFICATION: This section must be signed by a principal of the consultant, contractor or Vendor authorized as a signatory of the firm for the purpose of executing Contracts.

The undersigned affirms and so swears that he/she has read and understood the foregoing statements and they are, to his/her knowledge, true and accurate.

Dated: 8-7-18

Signed: 
Print Name: Vasilios Hadzigeorgiou
Title: President

Page 4 of 4:

The term lobbying shall mean any attempt to influence: any determination made by the Nassau County Legislature, or any member thereof, with respect to the introduction, passage, defeat, or substance of any local legislation or resolution; any determination by the County Executive to support, oppose, approve or disapprove any local legislation or resolution, whether or not such legislation has been introduced in the County Legislature; any determination by an elected County official or an officer or employee of the County with respect to the procurement of goods, services or construction, including the preparation of contract specifications, including but not limited to the preparation of requests for proposals, or solicitation, award or administration of a contract or with respect to the solicitation, award or administration of a grant, loan, or agreement involving the disbursement of public monies; any determination made by the County Executive, County Legislature, or by the County of Nassau, its agencies, boards, commissions, department heads or committees, including but not limited to the Open Space and Parks Advisory Committee, the Planning Commission, with respect to the zoning, use, development or improvement of real property subject to County regulation, or any agencies, boards, commissions, department heads or committees with respect to requests for proposals, bidding, procurement or contracting for services for the County; any determination made by an elected county official or an officer or employee of the county with respect to the terms of the acquisition or disposition by the county of any interest in real property, with respect to a license or permit for the use of real property of or by the county, or with respect to a franchise, concession or revocable consent; the proposal, adoption, amendment or rejection by an agency of any rule having the force and effect of law; the decision to hold, timing or outcome of any rate making proceeding before an agency; the agenda or any determination of a board or commission;

any determination regarding the calendaring or scope of any legislature oversight hearing; the issuance, repeal, modification or substance of a County Executive Order; or any determination made by an elected county official or an officer or employee of the county to support or oppose any state or federal legislation, rule or regulation, including any determination made to support or oppose that is contingent on any amendment of such legislation, rule or regulation, whether or not such legislation has been formally introduced and whether or not such rule or regulation has been formally proposed.



Page 1 of 4

COUNTY OF NASSAU

LOBBYIST REGISTRATION AND DISCLOSURE FORM

1. Name, address and telephone number of lobbyist(s)/lobbying organization. The term "lobbyist" means any and every person or organization retained, employed or designated by any client to influence - or promote a matter before - Nassau County, its agencies, boards, commissions, department heads, legislators or committees, including but not limited to the Open Space and Parks Advisory Committee and Planning Commission. Such matters include, but are not limited to, requests for proposals, development or improvement of real property subject to County regulation, procurements. The term "lobbyist" does not include any officer, director, trustee, employee, counsel or agent of the County of Nassau, or State of New York, when discharging his or her official duties.

None

2. List whether and where the person/organization is registered as a lobbyist (e.g., Nassau County, New York State):

None.

3. Name, address and telephone number of client(s) by whom, or on whose behalf, the lobbyist is retained, employed or designated:

Page 2 of 4

None

4. Describe lobbying activity conducted, or to be conducted, in Nassau County, and identify client(s) for each activity listed. See page 4 for a complete description of lobbying activities.

None

5. The name of persons, organizations or governmental entities before whom the lobbyist expects to lobby

None

Page 3 of 4

6. If such lobbyist is retained or employed pursuant to a written agreement of retainer or employment, you must attach a copy of such document; and if agreement of retainer or employment is oral, attach a written statement of the substance thereof. If the written agreement of retainer or employment does not contain a signed authorization from the client by whom you have been authorized to lobby, separately attach such a written authorization from the client.

7. During the previous year, has the lobbyist/lobbying organization or any of its corporate officers provided campaign contributions pursuant to the New York State Election Law to the campaign committees of any of the following Nassau County elected officials or to the campaign committees of any candidates for any of the following Nassau County elected offices: the County Executive, the County Clerk, the Comptroller, the District Attorney, or any County Legislator?

If yes, to what campaign committee? If none, you must so state:

None

I understand that copies of this form will be sent to the Nassau County Department of Information Technology ("IT") to be posted on the County's website.

I also understand that upon termination of retainer, employment or designation I must give written notice to the County Attorney within thirty (30) days of termination.

VERIFICATION: The undersigned affirms and so swears that he/she has read and understood the foregoing statements and they are, to his/her knowledge, true and accurate.

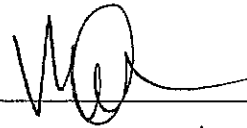
The undersigned further certifies and affirms that the contribution(s) to the campaign committees listed above were made freely and without duress, threat or any promise of a governmental benefit or in exchange for any benefit or remuneration.

Dated: 8-7-18

Signed:

Print Name:

Title:


Vasilios Hadzigeorgiou
President

Page 4 of 4:

The term lobbying shall mean any attempt to influence: any determination made by the Nassau County Legislature, or any member thereof, with respect to the introduction, passage, defeat, or substance of any local legislation or resolution; any determination by the County Executive to support, oppose, approve or disapprove any local legislation or resolution, whether or not such legislation has been introduced in the County Legislature; any determination by an elected County official or an officer or employee of the County with respect to the procurement of goods, services or construction, including the preparation of contract specifications, including but not limited to the preparation of requests for proposals, or solicitation, award or administration of a contract or with respect to the solicitation, award or administration of a grant, loan, or agreement involving the disbursement of public monies; any determination made by the County Executive, County Legislature, or by the County of Nassau, its agencies, boards, commissions, department heads or committees, including but not limited to the Open Space and Parks Advisory Committee, the Planning Commission, with respect to the zoning, use, development or improvement of real property subject to County regulation, or any agencies, boards, commissions, department heads or committees with respect to requests for proposals, bidding, procurement or contracting for services for the County; any determination made by an elected county official or an officer or employee of the county with respect to the terms of the acquisition or disposition by the county of any interest in real property, with respect to a license or permit for the use of real property of or by the county, or with respect to a franchise, concession or revocable consent; the proposal, adoption, amendment or rejection by an agency of any rule having the force and effect of law; the decision to hold, timing or outcome of any rate making proceeding before an agency; the agenda or any determination of a board or commission; any determination regarding the calendaring or scope of any legislature oversight hearing; the issuance, repeal, modification or substance of a County Executive Order; or any determination made by an elected county official or an officer or employee of the county to support or oppose any state or federal legislation, rule or regulation, including any determination made to support or oppose that is contingent on any amendment of such legislation, rule or regulation, whether or not such legislation has been formally introduced and whether or not such rule or regulation has been formally proposed.

The term "lobbying" or "lobbying activities" does not include: Persons engaged in drafting legislation, rules, regulations or rates; persons advising clients and rendering opinions on proposed legislation, rules, regulations or rates, where such professional services are not otherwise connected with legislative or executive action on such legislation or administrative action on such rules, regulations or rates; newspapers and other periodicals and radio and television stations and owners and employees thereof, provided that their activities in connection with proposed legislation, rules, regulations or rates are limited to the publication or broadcast of news items, editorials or other comment, or paid advertisements; persons who participate as witnesses, attorneys or other representatives in public rule-making or rate-making proceedings of a County agency, with respect to all participation by such persons which is part of the public record thereof and all preparation by such persons for such participation; persons who attempt to influence a County agency in an adjudicatory proceeding, as defined by § 102 of the New York State Administrative Procedure Act.

PRINCIPAL QUESTIONNAIRE FORM

All questions on these questionnaires must be answered by all officers and any individuals who hold a ten percent (10%) or greater ownership interest in the proposer. Answers typewritten or printed in ink. If you need more space to answer any question, make as many photocopies of the appropriate page(s) as necessary and attach them to the questionnaire.

COMPLETE THIS QUESTIONNAIRE CAREFULLY AND COMPLETELY. FAILURE TO SUBMIT A COMPLETE QUESTIONNAIRE MAY MEAN THAT YOUR BID OR PROPOSAL WILL BE REJECTED AS NON-RESPONSIVE AND IT WILL NOT BE CONSIDERED FOR AWARD

1. Principal Name Vasilios Hadzigeorgiou
Date of birth 7 / 23 / 1977
Home address 3 Hulse Ct
City/state/zip Patchogue NY 11763
Business address 18 Peconic Ave
City/state/zip Medford NY 11763
Telephone 631 447 9558
Other present address(es) None
City/state/zip None
Telephone None
List of other addresses and telephone numbers attached
2. Positions held in submitting business and starting date of each (check all applicable)
President 7 / 23 / 1996 Treasurer 7 / 23 / 1996
Chairman of Board / / Shareholder 7 / 23 / 1996
Chief Exec. Officer / / Secretary 7 / 23 / 1996
Chief Financial Officer / / Partner / /
Vice President / / / /
(Other)
3. Do you have an equity interest in the business submitting the questionnaire?
YES ☒ NO ☐ If Yes, provide details. owner
4. Are there any outstanding loans, guarantees or any other form of security or lease or any other type of contribution made in whole or in part between you and the business submitting the questionnaire?
YES ☐ NO ☒ If Yes, provide details.
5. Within the past 3 years, have you been a principal owner or officer of any business or not-for-profit organization other than the one submitting the questionnaire? YES ☐ NO ☒ If Yes, provide details.
6. Has any governmental entity awarded any contracts to a business or organization listed in Section 5 in the past 3 years while you were a principal owner or officer? YES ☐ NO ☒ If Yes, provide details.

NOTE: An affirmative answer is required below whether the sanction arose automatically, by operation of law, or as a result of any action taken by a government agency.

Provide a detailed response to all questions checked "YES". If you need more space, photocopy the appropriate page and attach it to the questionnaire.

7. In the past (5) years, have you and/or any affiliated businesses or not-for-profit organizations listed in Section 5 in which you have been a principal owner or officer:
- a. Been debarred by any government agency from entering into contracts with that agency?
YES _____ NO X If Yes, provide details for each such instance.
 - b. Been declared in default and/or terminated for cause on any contract, and/or had any contracts cancelled for cause? YES _____ NO X If Yes, provide details for each such instance.
 - c. Been denied the award of a contract and/or the opportunity to bid on a contract, including, but not limited to, failure to meet pre-qualification standards? YES _____ NO X If Yes, provide details for each such instance.
 - d. Been suspended by any government agency from entering into any contract with it; and/or is any action pending that could formally debar or otherwise affect such business's ability to bid or propose on contract? YES _____ NO X If Yes, provide details for each such instance.
8. Have any of the businesses or organizations listed in response to Question 5 filed a bankruptcy petition and/or been the subject of involuntary bankruptcy proceedings during the past 7 years, and/or for any portion of the last 7 year period, been in a state of bankruptcy as a result of bankruptcy proceedings initiated more than 7 years ago and/or is any such business now the subject of any pending bankruptcy proceedings, whenever initiated? If 'Yes', provide details for each such instance. (Provide a detailed response to all questions checked "YES". If you need more space, photocopy the appropriate page and attach it to the questionnaire.)
- a) Is there any felony charge pending against you? YES _____ NO X If Yes, provide details for each such charge.
 - b) Is there any misdemeanor charge pending against you? YES _____ NO X If Yes, provide details for each such charge.
 - c) Is there any administrative charge pending against you? YES _____ NO X If Yes, provide details for each such charge.
 - d) In the past 10 years, have you been convicted, after trial or by plea, of any felony, or of any other crime, an element of which relates to truthfulness or the underlying facts of which related to the conduct of business? YES _____ NO X If Yes, provide details for each such conviction.
 - e) In the past 5 years, have you been convicted, after trial or by plea, of a misdemeanor?
YES _____ NO X If Yes, provide details for each such conviction.
 - f) In the past 5 years, have you been found in violation of any administrative or statutory charges?
YES _____ NO X If Yes, provide details for each such occurrence.

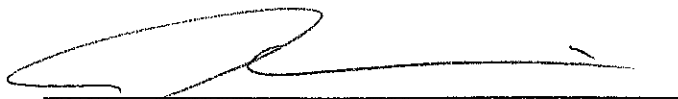
9. In addition to the information provided in response to the previous questions, in the past 5 years, have you been the subject of a criminal investigation and/or a civil anti-trust investigation by any federal, state or local prosecuting or investigative agency and/or the subject of an investigation where such investigation was related to activities performed at, for, or on behalf of the submitting business entity and/or an affiliated business listed in response to Question 5? YES ____ NO X If Yes, provide details for each such investigation.
10. In addition to the information provided, in the past 5 years has any business or organization listed in response to Question 5, been the subject of a criminal investigation and/or a civil anti-trust investigation and/or any other type of investigation by any government agency, including but not limited to federal, state, and local regulatory agencies while you were a principal owner or officer? YES ____ NO X If Yes; provide details for each such investigation.
11. In the past 5 years, have you or this business, or any other affiliated business listed in response to Question 5 had any sanction imposed as a result of judicial or administrative proceedings with respect to any professional license held? YES ____ NO X If Yes; provide details for each such instance.
12. For the past 5 tax years, have you failed to file any required tax returns or failed to pay any applicable federal, state or local taxes or other assessed charges, including but not limited to water and sewer charges? YES ____ NO X If Yes, provide details for each such year.

CERTIFICATION

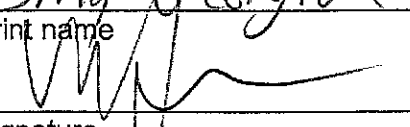
A MATERIALLY FALSE STATEMENT WILLFULLY OR FRAUDULENTLY MADE IN CONNECTION WITH THIS QUESTIONNAIRE MAY RESULT IN RENDERING THE SUBMITTING BUSINESS ENTITY NOT RESPONSIBLE WITH RESPECT TO THE PRESENT BID OR FUTURE BIDS, AND, IN ADDITION, MAY SUBJECT THE PERSON MAKING THE FALSE STATEMENT TO CRIMINAL CHARGES.

I, Billy Georgiou, being duly sworn, state that I have read and understand all the items contained in the foregoing pages of this questionnaire and the following pages of attachments; that I supplied full and complete answers to each item therein to the best of my knowledge, information and belief; that I will notify the County in writing of any change in circumstances occurring after the submission of this questionnaire and before the execution of the contract; and that all information supplied by me is true to the best of my knowledge, information and belief. I understand that the County will rely on the information supplied in this questionnaire as additional inducement to enter into a contract with the submitting business entity.

Sworn to before me this 3 day of Aug 2018


Notary Public

JOSEPH A. CARACCI
Notary Public, State of New York
No. 01CA6103679
Qualified in Suffolk County
Commission Expires Jan. 5, 2020

L.I. Prodiner Inc
Name of submitting business
Billy Georgiou
Print name

Signature
President
Title
8, 3, 17
Date



L.I. Proliner, Inc.

18 Peconic Avenue, Medford NY 11763

(631) 447-9558 Fax (631) 447-9548

Rescue Vehicle & Equipment Sales & Service

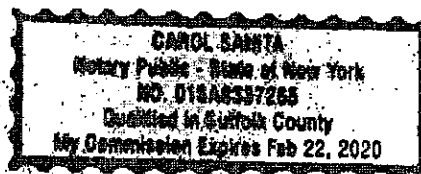
August 14th, 2018

Vasilios Hadzigeorgiou English name is Billy Georgiou and that is how the bank/notary knows him by. Vasilios/Billy signed as Billy. Please note the signature is consistent throughout.

Signed

[Signature] 8-17-18

Date



Notary

Carol Santa

Date

8/17/18

Business History Form

The contract shall be awarded to the responsible proposer who, at the discretion of the County, taking into consideration the reliability of the proposer and the capacity of the proposer to perform the services required by the County, offers the best value to the County and who will best promote the public interest.

In addition to the submission of proposals, each proposer shall complete and submit this questionnaire. The questionnaire shall be filled out by the owner of a sole proprietorship or by an authorized representative of the firm, corporation or partnership submitting the Proposal.

NOTE: All questions require a response, even if response is "none". No blanks.

(USE ADDITIONAL SHEETS IF NECESSARY TO FULLY ANSWER THE FOLLOWING QUESTIONS).

Date: August 7 2018

1) Proposer's Legal Name: L.I. Proliner Inc

2) Address of Place of Business: 18 Peconic Ave Medford NY 11763

List all other business addresses used within last five years:

None

3) Mailing Address (if different): Same as above

Phone: 631-447-9558

Does the business ☒ own or rent its facilities? Own

4) Dun and Bradstreet number: NO.

5) Federal I.D. Number: 113330825

6) The proposer is a (check one): ☐ Sole Proprietorship ☐ Partnership ☒ Corporation ☐ Other
(Describe) _____

7) Does this business share office space, staff, or equipment expenses with any other business?
Yes ☐ No ☒ If Yes, please provide details: _____

8) Does this business control one or more other businesses? Yes ☐ No ☒ If Yes, please provide details: _____

9) Does this business have one or more affiliates, and/or is it a subsidiary of, or controlled by, any other business? Yes ☐ No ☒ If Yes, provide details: _____

OFFICE OF PURCHASING
COUNTY OF NASSAU STATE OF NEW YORK

FORMAL SEALED BID PROPOSAL
07053-08078-111

- 10) Has the proposer ever had a bond or surety cancelled or forfeited, or a contract with Nassau County or any other government entity terminated? Yes ☐ No ☒ If Yes, state the name of bonding agency, (if a bond), date, amount of bond and reason for such cancellation or forfeiture: or details regarding the termination (if a contract). _____
- 11) Has the proposer, during the past seven years, been declared bankrupt? Yes ☐ No ☒ If Yes, state date, court jurisdiction, amount of liabilities and amount of assets _____
- 12) In the past five years, has this business and/or any of its owners and/or officers and/or any affiliated business, been the subject of a criminal investigation and/or a civil anti-trust investigation by any federal, state or local prosecuting or investigative agency? And/or, in the past 5 years, have any owner and/or officer of any affiliated business been the subject of a criminal investigation and/or a civil anti-trust investigation by any federal, state or local prosecuting or investigative agency, where such investigation was related to activities performed at, for, or on behalf of an affiliated business. Yes ☐ No ☒ If Yes, provide details for each such investigation. _____
- 13) In the past 5 years, has this business and/or any of its owners and/or officers and/or any affiliated business been the subject of an investigation by any government agency, including but not limited to federal, state and local regulatory agencies? And/or, in the past 5 years, has any owner and/or officer of an affiliated business been the subject of an investigation by any government agency, including but not limited to federal, state and local regulatory agencies, for matters pertaining to that individual's position at or relationship to an affiliated business. Yes ☐ No ☒ If Yes, provide details for each such investigation. _____
- 14) Has any current or former director, owner or officer or managerial employee of this business had, either before or during such person's employment, or since such employment if the charges pertained to events that allegedly occurred during the time of employment by the submitting business, and allegedly related to the conduct of that business:
- a) Any felony charge pending? Yes ☐ No ☒ If Yes, provide details for each such charge. _____
- b) Any misdemeanor charge pending? Yes ☐ No ☒ If Yes, provide details for each such charge. _____
- c) In the past 10 years, you been convicted, after trial or by plea, of any felony and/or any other crime, an element of which relates to truthfulness or the underlying facts of which related to the conduct of business? Yes ☐ No ☒ If Yes, provide details for each such conviction _____
- d) In the past 5 years, been convicted, after trial or by plea, of a misdemeanor?

Yes ___ No ☒ If Yes, provide details for each such conviction. _____

e) In the past 5 years, been found in violation of any administrative, statutory, or regulatory provisions? Yes ___ No ☒ If Yes, provide details for each such occurrence. _____

15) In the past (5) years, has this business or any of its owners or officers, or any other affiliated business had any sanction imposed as a result of judicial or administrative proceedings with respect to any professional license held? Yes ___ No ☒ If Yes, provide details for each such instance. _____

16) For the past (5) tax years, has this business failed to file any required tax returns or failed to pay any applicable federal, state or local taxes or other assessed charges, including but not limited to water and sewer charges? Yes ___ No ☒ If Yes, provide details for each such year. Provide a detailed response to all questions checked 'YES'. If you need more space, photocopy the appropriate page and attach it to the questionnaire. _____

Provide a detailed response to all questions checked "YES". If you need more space, photocopy the appropriate page and attach it to the questionnaire.

17) Conflict of Interest:

a) Please disclose any conflicts of interest as outlined below. **NOTE: If no conflicts exist, please expressly state "No conflict exists."**

(i) Any material financial relationships that your firm or any firm employee has that may create a conflict of interest or the appearance of a conflict of interest in acting on behalf of Nassau County. No conflict Exists

(ii) Any family relationship that any employee of your firm has with any County public servant that may create a conflict of interest or the appearance of a conflict of interest in acting on behalf of Nassau County. No Conflict Exists

(iii) Any other matter that your firm believes may create a conflict of interest or the appearance of a conflict of interest in acting on behalf of Nassau County. No Conflict Exists

b) Please describe any procedures your firm has, or would adopt, to assure the County that a conflict of interest would not exist for your firm in the future.

No Conflict Exists. I will contact the County should a potential conflict arise and be guided accordingly.

A. Include a resume or detailed description of the Proposer's professional qualifications, demonstrating extensive experience in your profession. Any prior similar experiences, and the results of these experiences, must be identified. 1996 years in business.

OFFICE OF PURCHASING
COUNTY OF NASSAU STATE OF NEW YORK

FORMAL SEALED BID PROPOSAL
07053-08078-111

Should the proposer be other than an individual, the Proposal **MUST** include:

- i) Date of formation; 1996 22 years in business
- ii) Name, addresses, and position of all persons having a financial interest in the company, including shareholders, members, general or limited partner; Vasilios Hadzigeorgiou President
3 Hulse Patchogue NY 11763
- iii) Name, address and position of all officers and directors of the company; Vasilios Hadzigeorgiou President 3 Hulse Ct Patchogue NY 11763
- iv) State of incorporation (if applicable); New York state
- v) The number of employees in the firm; 13
- vi) Annual revenue of firm; — 5.7 million
- vii) Summary of relevant accomplishments; We currently hold a 5 year Blanket order with Nassau County for Ambulances. We do business with all of Suffolk and Nassau County as well as
- viii) Copies of all state and local licenses and permits. Yonkers and Westchester

B. Indicate number of years in business. 22 years

C. Provide any other information which would be appropriate and helpful in determining the Proposer's capacity and reliability to perform these services.

D. Provide names and addresses for no fewer than three references for whom the Proposer has provided similar services or who are qualified to evaluate the Proposer's capability to perform this work.

Company Yonkers Police Department

Contact Person Dennis M. Borrelli

Address 1106 Yonkers Ave

City/State Yonkers NY 10704

Telephone 914-377-7346

Fax # 914-377-7392

E-Mail Address Toybuff911@aol.com

ALL BIDS MUST BE F.O.B. DESTINATION AND INCLUDE DELIVERY WITHIN DOORS UNLESS OTHERWISE SPECIFIED.

BIDDER SIGN HERE

IAA

President

OFFICE OF PURCHASING
COUNTY OF NASSAU STATE OF NEW YORK

FORMAL SEALED BID PROPOSAL
07053-08078-111

Company Selden Fire District
Contact Person John Bartnick
Address PO Box 870
City/State Selden NY 11784
Telephone 631-732-5570
Fax # 631-732-0524
E-Mail Address none

Company Westchester County Police Department
Contact Person Police
Address One Saw Mill River Park
City/State Hawthorne NY 10532
Telephone 914 864 7700
Fax # N/A none
E-Mail Address none

OFFICE OF PURCHASING
COUNTY OF NASSAU STATE OF NEW YORK

FORMAL SEALED BID PROPOSAL
07053-08078-111

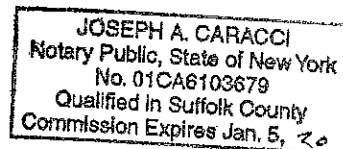
~~CERTIFICATION~~

A MATERIALLY FALSE STATEMENT WILLFULLY OR FRAUDULENTLY MADE IN CONNECTION WITH THIS QUESTIONNAIRE MAY RESULT IN RENDERING THE SUBMITTING BUSINESS ENTITY NOT RESPONSIBLE WITH RESPECT TO THE PRESENT BID OR FUTURE BIDS, AND, IN ADDITION, MAY SUBJECT THE PERSON MAKING THE FALSE STATEMENT TO CRIMINAL CHARGES.

I, Billy George, being duly sworn, state that I have read and understand all the items contained in the foregoing pages of this questionnaire and the following pages of attachments; that I supplied full and complete answers to each item therein to the best of my knowledge, information and belief; that I will notify the County in writing of any change in circumstances occurring after the submission of this questionnaire and before the execution of the contract; and that all information supplied by me is true to the best of my knowledge, information and belief. I understand that the County will rely on the information supplied in this questionnaire as additional inducement to enter into a contract with the submitting business entity.

Sworn to before me this 3 day of Aug 2017

[Signature]
Notary Public



Name of submitting business: LI Proliner inc

By: Billy George
Print name

[Signature]
Signature

Pres
Title

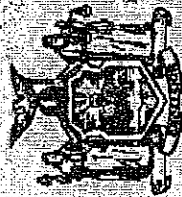
8.3.17
Date

New York State Department of Taxation and Finance
Certificate of Authority

Identification number

11-3330825

(Use this number on all returns and correspondence)



VALIDATED

12/21/2009

Dept of Tax
and Finance

L.I. PROLINER, INC.
18 PECONIC AVE.
MEDFORD NY 11763-3200

is authorized to collect sales and use taxes under Articles 28 and 29 of the New York State Tax Law.

Nontransferable

This certificate must be prominently displayed at your place of business.
Fraudulent or other improper use of this certificate will cause it to be revoked.
The certificate may not be photocopied or reproduced

40501110A009A

1DC3 - 3580635 P0000288 - 01

DTF-17-AR (11/08)



New York State Department of Motor Vehicles

OFFICIAL BUSINESS CERTIFICATE

THIS CERTIFICATE EXPIRES 10/31/18

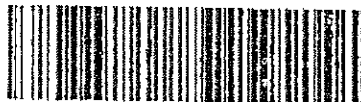
FACILITY IDENTIFICATION NO. 7083101

Validation Date and Number: 09/27/16 15135

This person is REGISTERED AS A
DEALER

pursuant to the provisions of the Vehicle and Traffic Law.

LI PROLINER INC
18 PECONIC AV UNIT 1
MEDFORD NY 11763



MV-61P (11/95)

This document does not certify that this business complies with zoning and other local laws
POST IN A CONSPICUOUS PLACE



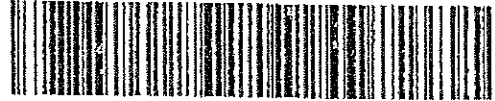
New York State Department of Motor Vehicles
**OFFICIAL BUSINESS
CERTIFICATE**

THIS CERTIFICATE EXPIRES 10/31/18
FACILITY IDENTIFICATION NO. 7083101 ISP

Validation Date and Number: 09/27/16 15133

This person is LICENSED AS A
PUBLIC INSPECTION STATION
pursuant to the provisions of the Vehicle and Traffic Law,
1A-1B

LI PROLINER INC
18 PECONIC AV UNIT 1
MEDFORD NY 11763



This document does not certify that this business complies with zoning and other local laws
POST IN A CONSPICUOUS PLACE

MV-61P (11/95)



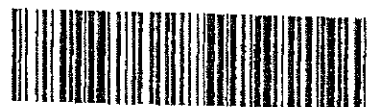
New York State Department of Motor Vehicles
**OFFICIAL BUSINESS
CERTIFICATE**

THIS CERTIFICATE EXPIRES 10/31/18
FACILITY IDENTIFICATION NO. 7083101 RS

Validation Date and Number: 09/27/16 15132

This person is REGISTERED AS A
REPAIR SHOP
pursuant to the provisions of the Vehicle and Traffic Law.

LI PROLINER INC
18 PECONIC AV UNIT 1
MEDFORD NY 11763



This document does not certify that this business complies with zoning and other local laws

New York State Department of Motor Vehicles

OFFICIAL BUSINESS CERTIFICATE

THIS CERTIFICATE EXPIRES 10/31/18

FACILITY IDENTIFICATION NO. 7083101 TRS

LI PROLINER INC
18 PECONIC AV UNIT 1
MEDFORD NY 11763

This document does not certify that this business complies with zoning and other local laws
POST IN A CONSPICUOUS PLACE

MV-61P (11/95)

Validation Date and Number: 09/27/16

15134

This person is REGISTERED AS A
TRANSPORTER
pursuant to the provisions of the Vehicle and Traffic Law.



New York State Department of Motor Vehicles

OFFICIAL BUSINESS CERTIFICATE

THIS CERTIFICATE EXPIRES 10/31/18

FACILITY IDENTIFICATION NO. 7083101 ISP

LI PROLINER INC
18 PECONIC AV UNIT 1
MEDFORD NY 11763

This document does not certify that this business complies with zoning and other local laws
POST IN A CONSPICUOUS PLACE

MV-61P (11/95)

Validation Date and Number: 09/27/16

15133

This person is LICENSED AS A
PUBLIC INSPECTION STATION
pursuant to the provisions of the Vehicle and Traffic Law.



FORMAL SEALED BID PROPOSAL



STATE OF NEW YORK

COUNTY OF NASSAU

BIDS WILL BE RECEIVED AND OPENED AT
OFFICE OF PURCHASING, 1 WEST STREET,
NORTH ENTRANCE, MINEOLA, NEW YORK 11501
OFFICE HOURS 9 AM - NOON & 1 PM - 4:45 PM

BID NUMBER
07053-08078-111

Dated: 07/26/18

BID OPENING DATE
08/07/18
11:00 A.M. E.D.S.T.

BUYER
Anette Sullivan

TELEPHONE
516 571 6103

REQUISITION NUMBER
RQFC18000886

PREPARE YOUR BID ON THIS FORM USING BLACK INK OR TYPEWRITER

BID TITLE Command Unit For Fire Marshal's Office

- ALL BIDS MUST BE F.O.B. DESTINATION AND INCLUDE DELIVERY WITHIN DOORS UNLESS OTHERWISE SPECIFIED

THE UNDERSIGNED BIDDER AFFIRMS AND DECLARES THAT HE/SHE HAS CAREFULLY EXAMINED THE ADVERTISED SPECIFICATIONS FOR BIDS, THE BID TERMS AND CONDITIONS, AND DETAILED SPECIFICATIONS, AND CERTIFIES THAT THIS BID IS SIGNED WITH FULL KNOWLEDGE AND ACCEPTANCE OF ALL THE PROVISIONS THEREOF AND OFFERS AND AGREES, IF THIS BID IS ACCEPTED WITHIN NINETY (90) DAYS FROM THE BID OPENING DATE TO FURNISH ANY OR ALL THE ITEMS UPON WHICH PRICES ARE HEREINAFTER QUOTED IN THE QUANTITY AND AT THE PRICES BID.

CASH DISCOUNT OF 0 PERCENT WILL BE ALLOWED FOR PROMPT PAYMENT WITHIN 20 BUSINESS DAYS

THE BIDDER CERTIFIES THAT: (A) THE BID HAS BEEN ARRIVED AT BY THE BIDDER INDEPENDENTLY AND HAS BEEN SUBMITTED WITHOUT COLLUSION WITH ANY OTHER VENDOR OF MATERIALS, SUPPLIES OR EQUIPMENT OF THE TYPE DESCRIBED IN INVITATION FOR BIDS, AND (B) THE CONTENTS OF THE BID HAVE NOT BEEN COMMUNICATED BY THE BIDDER, NOR, TO ITS BEST KNOWLEDGE AND BELIEF, BY ANY OF ITS EMPLOYEES OR AGENTS, TO ANY PERSON NOT AN EMPLOYEE OR AGENT OF BIDDER OR ITS SURETY ON ANY BOND FURNISHED HERewith PRIOR TO OFFICIAL OPENING OF THE BID.

NC
Fire Commission
1194 Prospect Ave.
Westbury NY 11590

GUARANTEED DELIVERY DATE

240

DAYS AFTER RECEIPT OF ORDER

EMPLOYERS FEDERAL TAX ID NUMBER

113330825

TOLL FREE TELEPHONE NUMBER:

BIDS MUST BE SIGNED BY PROPRIETOR, PARTNER OR OFFICER AUTHORIZED TO SIGN FOR CORPORATION

NAME OF BIDDER L.I. Proliner Inc.

ADDRESS 18 Peconic Ave

CITY Medford STATE NY ZIP CODE 11763 TELEPHONE 631 447 9558

SIGNATURE OF AUTHORIZED INDIVIDUAL [Signature]

Vasilios Hadzigeorgiou President
PRINT OR TYPE NAME OF SIGNER AND TITLE

IN EXECUTING THIS BID, THE BIDDER WARRANTS THAT THE PRICES SUBMITTED HEREIN ARE NOT HIGHER THAN THOSE OFFERED TO ANY GOVERNMENTAL OR COMMERCIAL CONSUMER FOR LIKE DELIVERIES. THE PRICES HEREIN SHOULD NOT INCLUDE ANY FEDERAL EXCISE TAXES OR SALES TAXES IMPOSED BY ANY STATE OR MUNICIPAL GOVERNMENT. SUCH TAXES, IF INCLUDED, MUST BE DEDUCTED BY THE BIDDER WHEN SUBMITTING BID. BIDDERS ARE REQUESTED TO ALSO READ THE TERMS AND CONDITIONS.

BID TERMS AND CONDITIONS

1. Bids on equipment must be on standard new equipment, latest model, except as otherwise specifically stated in proposal or detailed specification. Where any part of nominal appurtenances of equipment is not described, it shall be understood that all equipment and appurtenances which are usually provided in the manufacturer's stock model shall be furnished.

Bids on materials and supplies must be for new items except as otherwise specifically stated in bid or detailed specifications.

3. Bidder declares that the bid is made without any connection with any other Bidder, submitting a bid for the same items, and is in all respects fair and without collusion or fraud.

4. PRICES The provisions of the New York State Fair Trade Law (Federal-Crawford Act) and the federal price discrimination law (Robinson-Patman Act) do not apply to purchases made by the County.

5. SURETY In the event that an award is made hereunder, The Director of Purchase reserves the right to request successful bidders to post, within one week, security for faithful performance, with the understanding that the whole or any part thereof may be used by the County of Nassau to supply any deficiency that may arise from any default on the part of the Bidder. Such security must meet all the requirements of the County Attorney and be approved by the County Attorney.

6. **SAMPLES** Samples, when required, must be submitted strictly in accordance with instructions; otherwise bid may not be considered. If samples are requested subsequent to bid opening they shall be delivered within five (5) days of the request for bid to have consideration. Samples must be furnished free of charge and must be accompanied by descriptive memorandum invoices indicating if the Bidder desires their return; also specifying the address to which they are to be returned, provided they have not been used or made useless by tests. Award samples may be held for comparison with deliveries. Samples will be returned at the Bidders risk and expense.
7. Award The Director, Office of Purchasing reserves the right before making award to make investigations as to whether or not the items, qualifications or facilities offered by the Bidder meet the requirements set forth herein and are sample and sufficient to insure the proper performance in the event of award. The Bidder must be prepared, if requested by the Director, to present evidence of experience, ability and financial standing, as well as a statement as to plant, machinery and capacity of the manufacturer for the production and distribution of the material on which he is bidding. Upon request of the Director, successful bidder shall file certification from the manufacturer relative to authorization, delivery, service and guarantees. If it is found that the conditions of the bids are not complied with or that articles or equipment proposed to be furnished do not meet the requirements called for, or that the qualification, financial standing or facilities are not satisfactory, the Director may reject such bids. It is distinctly understood, however, that nothing in the foregoing shall mean or imply that it is obligatory upon the Director to make any examinations before award; and it is further understood that, if such examination is made, it in no way relieves the Bidder from fulfilling all requirements and conditions of the bid.
8. Awards will be made to the lowest responsible Bidder. Cash discounts will not be a factor in determining awards, except in tie bids. Consideration will be given to the reliability of the Bidder, the quantities of the materials, equipment or supplies to be furnished, their conformity with the specifications, the purpose for which required and the terms of delivery.
9. The Director reserves the right to reject and all bids in whole or in part and to waive technical defects, irregularities and omissions if in his judgment the best interests of the County will be served.
10. Unless otherwise indicated herein, the Director reserves the right to make award by items, by classes, by group of items, or as a whole.
11. **DELIVERIES** Upon failure of the Vendor to deliver within the time specified, or within reasonable time as interpreted by the Director, or failure to make replacement of rejected articles, when so requested immediately or as directed by the Director, the Director may purchase from other sources to take the place of the item rejected or not delivered. The Director reserves the right to authorize immediate purchase from other sources against rejections on any order when necessary. On all such purchases the Vendor agrees to promptly reimburse the County for excess cost occasioned by such purchases. Should the cost be less, the Vendor shall have no claim to the difference. Such purchases will be deducted from order quantity.
12. An order may be canceled at the Vendors expense upon nonperformance. Failure of the Vendor to furnish additional surety within ten (10) days from date of requested shall be sufficient cause for the cancellation of the order.
13. When in the determination of the Director, the articles or equipment delivered fail to meet County specifications or, if in the determination of the Director, the Vendor consistently fails to deliver as ordered, the Director reserves the right, to cancel the order and purchase the balance from other sources at Vendor expense.
14. Delivery must be made as ordered and in accordance with the bid. If delivery instructions do not appear on order. It will be interpreted to mean prompt delivery. The decision of the Director as to reasonable compliance with delivery terms shall be final. Burden of proof of delay in receipt of order shall rest with the Vendor.
15. The County Agencies will not schedule any deliveries for Saturdays, Sundays or Legal Holiday, except commodities required for daily consumption or where the delivery is an emergency, a replacement, or is overdue, in which event the convenience of the Agency will govern.
16. Supplies shall be securely and properly packed for shipment, according to accepted commercial practice, without extra charge for packing cases, reels, bailing or sacks, the containers to remain the property of the agency unless definitely stated otherwise in the bid.
17. The Vendor shall be responsible for delivery of supplies in good condition at point of destination. The Vendor shall file all claims with carrier for breakage, imperfections and other losses, which will be deducted from invoices. The receiving Agency will note for the benefit of Vendor when packages are not received in good conditions.
18. All supplies which are customarily labeled or identified must have securely affixed thereto the original un-mutilated label or marking of the manufacturer.
19. Billings for deliveries must be rendered on County claim forms.
20. Furniture, machines, and other equipment must be delivered, installed and set in place as directed, ready for use unless otherwise specified.
21. Deliveries are subject to reweighing at destination by the County and payment will be made on the basis of materials delivered. Normal shrinkage will be allowed in such instances where shrinkage is possible. Short weight shall be sufficient cause for cancellation of order at Vendors expense.
22. **GUARANTEES BY BIDDER** Bidder hereby guarantees: (a) To save the County, its agents and employees harmless from liability of any nature or kind for the use of any copyrighted or un-copyrighted composition, secret process, patented or unpatented invention, article or appliance furnished or used in the performance hereof of which the Bidder is not the Patentee, assignee or licensee, and to defend any action brought against the County in the name of the County and under the direction of the County Attorney at the sole cost of the Bidder or in the sole option of the Director to pay the cost of such defense to the County. (b) His products against defective material or workmanship and to repair any damages or marring occasioned in transit.
- (c) To furnish adequate protection from damage for all work and to repair damages of any kind, for which he or his workmen are responsible, to the building or equipment, to this own work or the work of other Vendors, or in the opinion of the Director to pay for the same by deductions in payments due under this contract.
- (d) To pay for all permits, licenses and fees and give all notices and comply with all laws ordinances, rules and regulations of the city, village or town in which the installation is to be made, and of the County of Nassau and the State of New York.
- (e) To carry proper insurance in the opinion of the Director, and approved by the County Attorney to protect the County from loss in case of accident, fire and theft.
- (f) That he will keep himself fully informed, of all municipal ordinances and regulations, state and national laws in any manner affecting the work or goods herein specified, and any extra work contracted for by him, and shall at all times observe and comply with said ordinances, laws and regulations, including all provisions of the Workmen Compensation and Labor Laws, and shall indemnify and save harmless the County of Nassau and the Nassau County Legislature from loss and liability upon any and all Claims on account of any physical injury to persons, including death, or damage to property and from all cost and expenses in suits which may be brought against the same on account of such injuries irrespective of the actual cost of the same and irrespective of whether the same shall have been due to the negligence of the Bidder or his agents.
- (g) That the items furnished shall conform to all the provisions of the bid and this warranty shall survive acceptance, or use of any material so furnished.
- (h) That all deliveries will not be inferior to the accepted bid sample.
23. **LABOR LAWS and ANTIDISCRIMINATION.** Upon the vendor acceptance hereof, the vendor agrees to comply with Article IX, Section 2 C of the Constitution of the State of New York, Section 220 220a, 220b, 220d, 220e and 230 of the Labor Law, Section 5 and 12 of the Lien Law, Article 2 of the Uniform Commercial Code, Sections 108 and 109 as well as Article 18 of the General Municipal Law, Section 2218 of the County Government Law of Nassau County. Section 224.2 of the Nassau County Administrative Code, the provisions of the anti-Discrimination Order of Nassau County, and the vendor shall keep himself fully informed of all additional municipal ordinances and regulations, State and National Laws in any manner affecting this order and the goods or services delivered or rendered or to be delivered or rendered there under, and shall at all times observe and comply with said ordinances, laws and regulations at his sole cost and expense.
24. **ASSIGNMENT.** The contractor is hereby prohibited from assigned, transferring, conveying, subletting or otherwise disposing of this contract or his right, title, or interest therein, or his power to execute such contract, to any other person or corporation without the previous consent in writing of the officer, board or agency awarding the contract.
25. The County of Nassau will not be responsible nor liable for any shipment or delivery of any materials, supplies, or equipment without it's express written instructions or valid Purchase Order.
26. No agreements, changes, modifications or alterations shall be deemed effective nor shall the same be binding upon the County unless in writing and signed by the Director, Office of Purchasing or his duly designated representative.

DISCLOSURE STATEMENT

THE NASSAU COUNTY LEGISLATURE REQUIRES THE FOLLOWING INFORMATION PRIOR TO CONSIDERATION FOR AN AWARD.

Bidders Name: L.I. Proliner Inc

Address: 18 Peconic Ave Medford NY 11763

Telephone No: 631 447 9558 Fax No: 631 447 9548

1. State Whether: A Corporation NYS corporation
Individual _____
Partnership _____

GUIDELINES FOR DISCLOSURE

THE NASSAU COUNTY LEGISLATURE REQUIRES THE NAMES AND HOME* ADDRESSES OF ALL PRINCIPALS. DISCLOSURE MUST BE PROVIDED AS INDICATED BY TYPE OF OWNERSHIP. (PLEASE LIST ALL REQUIRED INFORMATION ON A SEPARATE SHEET AND ATTACH TO BID.)

- 1) Sole Proprietorship/Individual. The Name and Home Address of the Sole Proprietorship/Individual.
- 2) Closely Held Corporation. The Name and Home Addresses of all Shareholders, Officers and Directors.
- 3) Publicly Traded Corporation. Only the page(s) of the SEC FORM 10-K setting forth the name of all officers and directors.
- 4) Not for Profit Corporation. The Names and Home Addresses of all members, Officer and Directors.
- 5) Partnership. The Names and Home Address of all General and Limited Partners.
- 6) Limited Liability Company. The Names and Home Addresses of all Members.
- 7) Limited Liability Partnership. The Name and Home Addresses of all Members.
- 8) Joint Venture. The Names and Home Addresses of all Joint Ventures.

NOTE: IF ANY ENTITY IS TIERED, YOU MUST ALSO LIST ALL INDIVIDUAL PRINCIPALS OF THE TIERED ENTITY.
*IN THE CASE OF PUBLICLY TRADED CORPORATIONS THE SEC FORM 10K SUFFICES AND HOME ADDRESSES ARE NOT NECESSARY.

QUALIFICATION STATEMENT

BIDDER'S NAME: L.I. Proliner Inc.

ADDRESS: 18 Peconic Ave Medford NY 11763

1. STATE WHETHER: CORPORATION ☒ INDIVIDUAL ☐ PARTNERSHIP ☐

2. IF A CORPORATION OR PARTNERSHIP LIST NAME(S) AND ADDRESS(S) OF OFFICER(S) OR MEMBER(S)

PRESIDENT

Vasilios Hadzigeorgiou 3 Hulse Ct. Patchogue NY 11772

VICE PRESIDENT

same

SECRETARY

same

TREASURER

same

3. HAVE YOU FILED A QUALIFICATION STATEMENT WITH THE COUNTY OF NASSAU? yes
IF SO WHEN? 2012

4. HOW MANY YEARS HAS YOUR ORGANIZATION BEEN IN BUSINESS UNDER YOUR PRESENT NAME? 22

5. HAVE YOU, OR YOUR FIRM, EVER FAILED TO COMPLETE ANY WORK AWARDED TO YOU? NO
IF SO, WHERE AND WHY?

6. IN WHAT OTHER LINES OF BUSINESS ARE YOU OR YOUR FIRM INTERESTED? Emergency
vehicle sales and service, Parts and Collision repairs

7. WHAT IS THE EXPERIENCE OF THE PRINCIPAL INDIVIDUALS OF YOUR ORGANIZATION RELATING TO THE SUBJECT OF THIS BID?

INDIVIDUALS NAME	PRESENT POSITION	YEARS OF EXPERIENCE	MAGNITUDE AND TYPE OF WORK	IN WHAT CAPACITY
<u>Billy Georgiou</u>	<u>CEO</u>	<u>26</u>	<u>Bid Review and project manager</u>	<u>President</u>

8. IN WHAT MANNER HAVE YOU INSPECTED THIS PROPOSED WORK? EXPLAIN IN DETAIL

Review of technical specifications

9. THE CONTRACT, IF AWARDED TO YOU OR YOUR FIRM, WILL HAVE THE PERSONAL SUPERVISION OF WHOM? GIVE NAME AND PRESENT POSITION

Billy Georgiou, Bid review and project manager

10. BIDDERS ARE REQUIRED TO COMPLETE THIS FORM PROVIDING THREE (3) REFERENCES OF PAST PERFORMANCE. REFERENCES SHOULD INVOLVE PROJECTS AND/OR SERVICE SITUATIONS OF SIMILAR SIZE AND SCOPE TO THIS BID. REFERENCES MUST HAVE HAD DEALING WITH THE BIDDER WITHIN THE LAST THIRTY-SIX (36) MONTHS. THE COUNTY RESERVES THE RIGHT TO CONTACT ANY OR ALL OF THE REFERENCES SUPPLIED FOR AN EVALUATION OF PAST PERFORMANCE IN ORDER TO ESTABLISH THE RESPONSIBILITY OF THE BIDDER BEFORE THE ACTUAL AWARD OF THE BID AND/OR CONTRACT. COMPLETION OF THE REFERENCE FORM IS REQUIRED.

NASSAU COUNTY (AND ANY OF ITS AGENCIES) MAY BE LISTED AS AN ADDITIONAL REFERENCE, BUT MAY NOT BE SUBSTITUTED FOR ANY OF THE THREE REQUIRED REFERENCES.

1. REFERENCE'S NAME: Selden Fire District

ADDRESS: PO Box 870

Selden NY 11784

TELEPHONE: 631-732-5570 CONTACT PERSON John Barthick

CONTRACT DATE: current

2. REFERENCE'S NAME: Yonkers Police Department

ADDRESS: 1106 Yonkers Ave

Yonkers NY 10704

TELEPHONE: 914-377-7346 CONTACT PERSON Dennis M. Borrelli

CONTRACT DATE: current

3. REFERENCE'S NAME: Westchester County Police Department

ADDRESS: One Saw Mill River Park

Hawthorne NY 10532

TELEPHONE: 914 864 7700 CONTACT PERSON Westchester Police

CONTRACT DATE: current

USE SEPARATE PAGE IF ADDITIONAL SPACE IS NEEDED.

I certify that all the statements contained in this document are true, complete and correct to the best of my knowledge and belief and are made in good faith, including data contained in the Organization's Relevant Experience. A false certification or failure to disclose information shall be grounds for disqualification or termination of any award.

Appendix EE

EQUAL EMPLOYMENT OPPORTUNITIES FOR MINORITIES AND WOMEN

The provisions of this Appendix EE are hereby made a part of the document to which it is attached.

The Contractor shall comply with all federal, State and local statutory and constitutional anti-discrimination provisions. In addition, Local Law No. 14-2002, entitled "Participation by Minority Group Members and Women in Nassau County Contracts," governs all County Contracts as defined by such title and solicitations for bids or proposals for County Contracts. In accordance with Local Law 14-2002:

- (a) The Contractor shall not discriminate against employees or applicants for employment because of race, creed, color, national origin, sex, age, disability or marital status in recruitment, employment, job assignments, promotions, upgradings, demotions, transfers, layoffs, terminations, and rates of pay or other forms of compensation. The Contractor will undertake or continue existing programs related to recruitment, employment, job assignments, promotions, upgradings, transfers, and rates of pay or other forms of compensation to ensure that minority group members and women are afforded equal employment opportunities without discrimination.
- (b) At the request of the County contracting agency, the Contractor shall request each employment agency, labor union, or authorized representative of workers with which it has a collective bargaining or other agreement or understanding, to furnish a written statement that such employment agency, union, or representative will not discriminate on the basis of race, creed, color, national origin, sex, age, disability, or marital status and that such employment agency, labor union, or representative will affirmatively cooperate in the implementation of the Contractor's obligations herein.
- (c) The Contractor shall state, in all solicitations or advertisements for employees, that, in the performance of the County Contract, all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, age, disability or marital status.
- (d) The Contractor shall make Best Efforts to solicit active participation by certified minority or women-owned business enterprises ("Certified M/WBEs") as defined in Section 101 of Local Law No. 14-2002, including the granting of Subcontracts.
- (e) The Contractor shall, in its advertisements and solicitations for Subcontractors, indicate its interest in receiving bids from Certified M/WBEs and the requirement that Subcontractors must be equal opportunity employers.
- (f) Contractors must notify and receive approval from the respective Department Head prior to issuing any Subcontracts and, at the time of requesting such authorization, must submit a signed Best Efforts Checklist.
- (g) Contractors for projects under the supervision of the County's Department of Public Works shall also submit a utilization plan listing all proposed Subcontractors so that, to the greatest extent feasible, all Subcontractors will be approved prior to commencement of work. Any additions or changes to the list of subcontractors under the utilization plan shall be approved by the Commissioner of the Department of Public Works when made. A copy of the utilization plan any additions or changes thereto shall be submitted by the Contractor to the Office of Minority Affairs simultaneously with the submission to the Department of Public Works.
- (h) At any time after Subcontractor approval has been requested and prior to being granted, the contracting agency may require the Contractor to submit Documentation Demonstrating Best Efforts to Obtain Certified Minority or Women-owned Business Enterprises. In addition, the contracting agency may require the Contractor to submit such documentation at any time after Subcontractor approval when the contracting agency has reasonable cause to believe that the existing Best Efforts Checklist may be inaccurate. Within ten working days (10) of any such request by the contracting agency, the Contractor must submit Documentation.
- (i) In the case where a request is made by the contracting agency or a Deputy County Executive acting on behalf of the contracting agency, the Contractor must, within two (2) working days of such request, submit evidence to demonstrate that it employed Best Efforts to obtain Certified M/WBE participation through proper documentation.
- (j) Award of a County Contract alone shall not be deemed or interpreted as approval of all Contractor's Subcontracts and Contractor's fulfillment of Best Efforts to obtain participation by Certified M/WBEs.

(k) A Contractor shall maintain Documentation Demonstrating Best Efforts to Obtain Certified Minority or Women-owned Business Enterprises for a period of six (6) years. Failure to maintain such records shall be deemed failure to make Best Efforts to comply with this Appendix EE, evidence of false certification as M/WBE compliant or considered breach of the County Contract.

(l) The Contractor shall be bound by the provisions of Section 109 of Local Law No. 14-2002 providing for enforcement of violations as follows:

- a. Upon receipt by the Executive Director of a complaint from a contracting agency that a County Contractor has failed to comply with the provisions of Local Law No. 14-2002, this Appendix EE or any other contractual provisions included in furtherance of Local Law No. 14-2002, the Executive Director will try to resolve the matter.
- b. If efforts to resolve such matter to the satisfaction of all parties are unsuccessful, the Executive Director shall refer the matter, within thirty days (30) of receipt of the complaint, to the American Arbitration Association for proceeding thereon.
- c. Upon conclusion of the arbitration proceedings, the arbitrator shall submit to the Executive Director his recommendations regarding the imposition of sanctions, fines or penalties. The Executive Director shall either (i) adopt the recommendation of the arbitrator (ii) determine that no sanctions, fines or penalties should be imposed or (iii) modify the recommendation of the arbitrator, provided that such modification shall not expand upon any sanction recommended or impose any new sanction, or increase the amount of any recommended fine or penalty. The Executive Director, within ten days (10) of receipt of the arbitrator's award and recommendations, shall file a determination of such matter and shall cause a copy of such determination to be served upon the respondent by personal service or by certified mail return receipt requested. The award of the arbitrator, and the fines and penalties imposed by the Executive Director, shall be final determinations and may only be vacated or modified as provided in the civil practice law and rules ("CPLR").

(m) The contractor shall provide contracting agency with information regarding all subcontracts awarded under any County Contract, including the amount of compensation paid to each Subcontractor and shall complete all forms provided by the Executive Director or the Department Head relating to subcontractor utilization and efforts to obtain M/WBE participation..

Failure to comply with provisions (a) through (m) above, as ultimately determined by the Executive Director, shall be a material breach of the contract constituting grounds for immediate termination. Once a final determination of failure to comply has been reached by the Executive Director, the determination of whether to terminate a contract shall rest with the Deputy County Executive with oversight responsibility for the contracting agency.

Provisions (a), (b) and (c) shall not be binding upon Contractors or Subcontractors in the performance of work or the provision of services or any other activity that are unrelated, separate, or distinct from the County Contract as expressed by its terms.

The requirements of the provisions (a), (b) and (c) shall not apply to any employment or application for employment outside of this County or solicitations or advertisements therefore or any existing programs of affirmative action regarding employment outside of this County and the effect of contract provisions required by these provisions (a), (b) and (c) shall be so limited.

The Contractor shall include provisions (a), (b) and (c) in every Subcontract in such manner that these provisions shall be binding upon each Subcontractor as to work in connection with the County Contract.

As used in this Appendix EE the term "Best Efforts Checklist" shall mean a list signed by the Contractor, listing the procedures it has undertaken to procure Subcontractors in accordance with this Appendix EE.

As used in this Appendix EE the term "County Contract" shall mean (i) a written agreement or purchase order instrument, providing for a total expenditure in excess of twenty-five thousand dollars (\$25,000), whereby a County contracting agency is committed to expend or does expend funds in return for labor, services, supplies, equipment, materials or any combination of the

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...regioing, to be performed for, or rendered or furnished to the County; or (ii) a written agreement in excess of one hundred thousand dollars (\$100,000), whereby a County contracting agency is committed to expend or does expend funds for the acquisition, construction, demolition, replacement, major repair or renovation of real property and improvements thereon. However, the term "County Contract" does not include agreements or orders for the following services: banking services, insurance policies or contracts, or contracts with a County contracting agency for the sale of bonds, notes or other securities.

As used in this Appendix EE the term "County Contractor" means an individual, business enterprise, including sole proprietorship, partnership, corporation, not-for-profit corporation, or any other person or entity other than the County, whether a contractor, licensor, licensee or any other party, that is (i) a party to a County Contract, (ii) a bidder in connection with the award of a County Contract, or (iii) a proposed party to a County Contract, but shall not include any Subcontractor.

As used in this Appendix EE the term "County Contractor" shall mean a person or firm who will manage and be responsible for an entire contracted project.

As used in this Appendix EE "Documentation Demonstrating Best Efforts to Obtain Certified Minority or Women-owned Business Enterprises" shall include, but is not limited to the following:

- a. Proof of having advertised for bids, where appropriate, in minority publications, trade newspapers/notices and magazines, trade and union publications, and publications of general circulation in Nassau County and surrounding areas or having verbally solicited M/WBEs whom the County Contractor reasonably believed might have the qualifications to do the work. A copy of the advertisement, if used, shall be included to demonstrate that it contained language indicating that the County Contractor welcomed bids and quotes from M/WBE Subcontractors. In addition, proof of the date(s) any such advertisements appeared must be included in the Best Effort Documentation. If verbal solicitation is used, a County Contractor's affidavit with a notary's signature and stamp shall be required as part of the documentation.
- b. Proof of having provided reasonable time for M/WBE Subcontractors to respond to bid opportunities according to industry norms and standards. A chart outlining the schedule/time frame used to obtain bids from M/WBEs is suggested to be included with the Best Effort Documentation
- c. Proof or affidavit of follow-up of telephone calls with potential M/WBE subcontractors encouraging their participation. Telephone logs indicating such action can be included with the Best Effort Documentation
- d. Proof or affidavit that M/WBE Subcontractors were allowed to review bid specifications, blue prints and all other bid/RFP related items at no charge to the M/WBEs, other than reasonable documentation costs incurred by the County Contractor that are passed onto the M/WBE.
- e. Proof or affidavit that sufficient time prior to making award was allowed for M/WBEs to participate effectively, to the extent practicable given the timeframe of the County Contract.
- f. Proof or affidavit that negotiations were held in Best Efforts with interested M/WBEs, and that M/WBEs were not rejected as unqualified or unacceptable without sound business reasons based on (1) a thorough investigation of M/WBE qualifications and capabilities reviewed against industry custom and standards and (2) cost of performance. The basis for rejecting any M/WBE deemed unqualified by the County Contractor shall be included in the Best Effort Documentation
- g. If an M/WBE is rejected based on cost, the County Contractor must submit a list of all sub-bidders for each item of work solicited and their bid prices for the work.
- h. The conditions of performance expected of Subcontractors by the County Contractor must also be included with the Best Effort Documentation
- i. County Contractors may include any other type of documentation they feel necessary to further demonstrate their Best Efforts regarding their bid documents.

ALL BIDS MUST BE F.O.B. DESTINATION AND INCLUDE DELIVERY WITHIN DOORS UNLESS OTHERWISE SPECIFIED.

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As used in this Appendix EE the term "Executive Director" shall mean the Executive Director of the Nassau County Office of Minority Affairs; provided, however, that Executive Director shall include a designee of the Executive Director except in the case of final determinations issued pursuant to Section (a) through (l) of these rules.

As used in this Appendix EE the term "Subcontract" shall mean an agreement consisting of part or parts of the contracted work of the County Contractor.

As used in this Appendix EE, the term "Subcontractor" shall mean a person or firm who performs part or parts of the contracted work of a prime contractor providing services, including construction services, to the County pursuant to a county contract. Subcontractor shall include a person or firm that provides labor, professional or other services, materials or supplies to a prime contractor that are necessary for the prime contractor to fulfill its obligations to provide services to the County pursuant to a county contract. Subcontractor shall not include a supplier of materials to a contractor who has contracted to provide goods but no services to the County, nor a supplier of incidental materials to a contractor, such as office supplies, tools and other items of nominal cost that are utilized in the performance of a service contract.

Provisions requiring contractors to retain or submit documentation of best efforts to utilize certified subcontractors and requiring Department head approval prior to subcontracting shall not apply to inter-governmental agreements. In addition, the tracking of expenditures of County dollars by not-for-profit corporations, other municipalities, States, or the federal government is not required.

Prohibition of Gifts. In accordance with County Executive Order 2-2018, the Contractor shall not offer, give, or agree to give anything of value to any County employee, agent, consultant, construction manager, or other person or firm representing the County (a "County Representative"), including members of a County Representative's immediate family, in connection with the performance by such County Representative of duties involving transactions with the Contractor on behalf of the County, whether such duties are related to this Agreement or any other County contract or matter. As used herein, "anything of value" shall include, but not be limited to, meals, holiday gifts, holiday baskets, gift cards, tickets to golf outings, tickets to sporting events, currency of any kind, or any other gifts, gratuities, favorable opportunities or references. For purposes of this subsection, an immediate family member shall include a spouse, child, parent, or sibling. The Contractor shall include the provisions of this subsection in each subcontract entered into under this Agreement.

Disclosure of Conflicts of Interest. In accordance with County Executive Order 2-2018, the Contractor has disclosed as part of its response to the County's Business History Form, or other disclosure form(s), any and all instances where the Contractor employs any spouse, child, or parent of a County employee of the agency or department that contracted or procured the goods and/or services described under this Agreement. The Contractor shall have a continuing obligation, as circumstances arise, to update this disclosure throughout the term of this Agreement.

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INDEMNIFICATION:

Contractor agrees to indemnify and hold harmless County and its agents, officers and employees, from and against any and all losses, costs, expenses (including attorneys' fees and disbursements), damages and liabilities, arising out of or in connection with any acts or omissions of Contractor, its officers, agents or employees, provided, however, that Contractor shall not be responsible for that portion, if any, of a loss that is caused by the negligence of the County; and provided, further, that Contractor shall not be liable for consequential, indirect or special damages. Contractor shall, at County's demand and at County's direction, defend at its own risk and expense any and all suits, actions or legal proceedings which may be brought against County, its agents, officers or employees in connection with a loss for which Contractor is responsible under this paragraph.

DEFINITIONS:

- The term "County" as used herein, shall be deemed as reference to the County of Nassau, State of New York.
- The term "Contractor" as used herein, shall be deemed as reference to the successful bidder, vendor, proprietor, partnership, or corporation receiving an award to perform any or all of the services specified herein in accordance with the terms of this agreement.
- The term "agency" as used herein, shall be deemed as the department, division, bureau, office, agency or other Nassau County establishment authorized to receive the service specified herein.
- The term "Director" as used herein, shall be deemed as reference to the Director of the Office of Purchasing.
- The term "Blanket Order" as used herein, shall be deemed as the multiple use pricing agreement as a result of this bid.
- The term "Purchase Order" as used herein, shall be deemed as the single use pricing agreement as a result of this bid.
- The term "complete" as written in this bid must include all equipment, delivery and installation of same in its entirety, as listed in the contract documents, and is to include all supervision, labor, materials, plant equipment, transportation, testing, (if required) incidentals, and other facilities as necessary and/or required to execute all the work as herein specified, or as incidentally required to provide a complete operating installation.

NOTE: INSERT FEDERAL IDENTIFICATION NUMBER IN SPACE PROVIDED ON PAGE 1.

IMPORTANT

PRICE MUST BE INSERTED WITH TYPEWRITER OR INK. BIDS MUST BE SIGNED IN INK. TO ASSURE OFFER REACHING IN TIME, **YOU ARE URGED TO MAIL YOUR FORMAL SEALED BID EARLY. THIS FORMAL SEALED BID MUST REACH OUR OFFICE BY 11:00 A.M.** LATE FORMAL SEALED BIDS WILL NOT BE ACCEPTED.

All proposals and bid documents submitted in response **must** include a completed copy of the County of Nassau Consultant's, Contractor's and Vendor's Disclosure Form. Additionally, if the bidder – prospective vendor – utilizes the services of any individual or organization for the purposes of conducting lobbying activities, the proposal **must** also include the Lobbyist Registration and Disclosure Form, completed by that individual/organization.

In addition, all proposals and bid documents submitted in response must include a completed: (i) Business History Form and (ii) Principal Questionnaire for all "principals" who hold a ten percent (10%) or greater ownership interest in the proposer/bidder.

ALL BIDS MUST BE F.O.B. DESTINATION AND INCLUDE DELIVERY WITHIN DOORS UNLESS OTHERWISE SPECIFIED.

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COUNTY OF NASSAU

CONSULTANT'S, CONTRACTOR'S AND VENDOR'S DISCLOSURE FORM

1. Name of the Entity: L.I. Proliner Inc.

Address: 18 Peconic Ave

City, State and Zip Code: Medford NY 11763

2. Entity's Vendor Identification Number: 11 333 0825

3. Type of Business: ☐ Public Corp ☐ Partnership ☐ Joint Venture
☐ Ltd. Liability Co ☒ Closely Held Corp ☐ Other (specify)

4. List names and addresses of all principals; that is, all individuals serving on the Board of Directors or comparable body, all partners and limited partners, all corporate officers, all parties of Joint Ventures, and all members and officers of limited liability companies (attach additional sheets if necessary):

Vasilios Hadzigeorgiou 3 Hulse Ct Patchogue NY 11772

5. List names and addresses of all shareholders, members, or partners of the firm. If the shareholder is not an individual, list the individual shareholders/partners/members. If a Publicly held Corporation include a copy of the 10K in lieu of completing this section.

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6. List all affiliated and related companies and their relationship to the firm entered on line 1. above (if none, enter "None"). Attach a separate disclosure form for each affiliated or subsidiary company that may take part in the performance of this contract. Such disclosure shall be updated to include affiliated or subsidiary companies not previously disclosed that participate in the performance of the contract.

None

7. List all lobbyists whose services were utilized at any stage in this matter (i.e., pre-bid, bid, post-bid, etc.). The term "lobbyist" means any and every person or organization retained, employed or designated by any client to influence - or promote a matter before - Nassau County, its agencies, boards, commissions, department heads, legislators or committees, including but not limited to the Open Space and Parks Advisory Committee and Planning Commission. Such matters include, but are not limited to, requests for proposals, development or improvement of real property subject to County regulation, procurements, or to otherwise engage in lobbying as the term is defined herein. The term "lobbyist" does not include any officer, director, trustee, employee, counsel or agent of the County of Nassau, or State of New York, when discharging his or her official duties.

(a) Name, title, business address and telephone number of lobbyist(s):

None

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(b) Describe lobbying activity of each lobbyist. See page 4 of 4 for a complete description of lobbying activities.

None

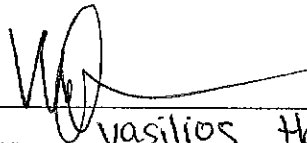
(c) List whether and where the person/organization is registered as a lobbyist (e.g., Nassau County, New York State):

None.

8. VERIFICATION: This section must be signed by a principal of the consultant, contractor or Vendor authorized as a signatory of the firm for the purpose of executing Contracts.

The undersigned affirms and so swears that he/she has read and understood the foregoing statements and they are, to his/her knowledge, true and accurate.

Dated: 8-7-18

Signed: 
Print Name: Vasilios Hadzigeorgiou
Title: President

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The term lobbying shall mean any attempt to influence: any determination made by the Nassau County Legislature, or any member thereof, with respect to the introduction, passage, defeat, or substance of any local legislation or resolution; any determination by the County Executive to support, oppose, approve or disapprove any local legislation or resolution, whether or not such legislation has been introduced in the County Legislature; any determination by an elected County official or an officer or employee of the County with respect to the procurement of goods, services or construction, including the preparation of contract specifications, including but not limited to the preparation of requests for proposals, or solicitation, award or administration of a contract or with respect to the solicitation, award or administration of a grant, loan, or agreement involving the disbursement of public monies; any determination made by the County Executive, County Legislature, or by the County of Nassau, its agencies, boards, commissions, department heads or committees, including but not limited to the Open Space and Parks Advisory Committee, the Planning Commission, with respect to the zoning, use, development or improvement of real property subject to County regulation, or any agencies, boards, commissions, department heads or committees with respect to requests for proposals, bidding, procurement or contracting for services for the County; any determination made by an elected county official or an officer or employee of the county with respect to the terms of the acquisition or disposition by the county of any interest in real property, with respect to a license or permit for the use of real property of or by the county, or with respect to a franchise, concession or revocable consent; the proposal, adoption, amendment or rejection by an agency of any rule having the force and effect of law; the decision to hold, timing or outcome of any rate making proceeding before an agency; the agenda or any determination of a board or commission; any determination regarding the calendaring or scope of any legislature oversight hearing; the issuance, repeal, modification or substance of a County Executive Order; or any determination made by an elected county official or an officer or employee of the county to support or oppose any state or federal legislation, rule or regulation, including any determination made to support or oppose that is contingent on any amendment of such legislation, rule or regulation, whether or not such legislation has been formally introduced and whether or not such rule or regulation has been formally proposed.



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COUNTY OF NASSAU

LOBBYIST REGISTRATION AND DISCLOSURE FORM

1. Name, address and telephone number of lobbyist(s)/lobbying organization. The term "lobbyist" means any and every person or organization retained, employed or designated by any client to influence - or promote a matter before - Nassau County, its agencies, boards, commissions, department heads, legislators or committees, including but not limited to the Open Space and Parks Advisory Committee and Planning Commission. Such matters include, but are not limited to, requests for proposals, development or improvement of real property subject to County regulation, procurements. The term "lobbyist" does not include any officer, director, trustee, employee, counsel or agent of the County of Nassau, or State of New York, when discharging his or her official duties.

None

2. List whether and where the person/organization is registered as a lobbyist (e.g., Nassau County, New York State):

None.

3. Name, address and telephone number of client(s) by whom, or on whose behalf, the lobbyist is retained, employed or designated:

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None

4. Describe lobbying activity conducted, or to be conducted, in Nassau County, and identify client(s) for each activity listed. See page 4 for a complete description of lobbying activities.

None

5. The name of persons, organizations or governmental entities before whom the lobbyist expects to lobby

None

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6. If such lobbyist is retained or employed pursuant to a written agreement of retainer or employment, you must attach a copy of such document; and if agreement of retainer or employment is oral, attach a written statement of the substance thereof. If the written agreement of retainer or employment does not contain a signed authorization from the client by whom you have been authorized to lobby, separately attach such a written authorization from the client.

7. During the previous year, has the lobbyist/lobbying organization or any of its corporate officers provided campaign contributions pursuant to the New York State Election Law to the campaign committees of any of the following Nassau County elected officials or to the campaign committees of any candidates for any of the following Nassau County elected offices: the County Executive, the County Clerk, the Comptroller, the District Attorney, or any County Legislator?

If yes, to what campaign committee? If none, you must so state:

None

I understand that copies of this form will be sent to the Nassau County Department of Information Technology ("IT") to be posted on the County's website.

I also understand that upon termination of retainer, employment or designation I must give written notice to the County Attorney within thirty (30) days of termination.

VERIFICATION: The undersigned affirms and so swears that he/she has read and understood the foregoing statements and they are, to his/her knowledge, true and accurate.

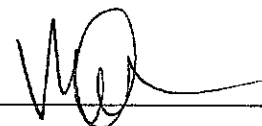
The undersigned further certifies and affirms that the contribution(s) to the campaign committees listed above were made freely and without duress, threat or any promise of a governmental benefit or in exchange for any benefit or remuneration.

Dated: 8-7-18

Signed:

Print Name:

Title:


Vasilios Hadzigeorgiou
President

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The term **lobbying** shall mean any attempt to influence: any determination made by the Nassau County Legislature, or any member thereof, with respect to the introduction, passage, defeat, or substance of any local legislation or resolution; any determination by the County Executive to support, oppose, approve or disapprove any local legislation or resolution, whether or not such legislation has been introduced in the County Legislature; any determination by an elected County official or an officer or employee of the County with respect to the procurement of goods, services or construction, including the preparation of contract specifications, including but not limited to the preparation of requests for proposals, or solicitation, award or administration of a contract or with respect to the solicitation, award or administration of a grant, loan, or agreement involving the disbursement of public monies; any determination made by the County Executive, County Legislature, or by the County of Nassau, its agencies, boards, commissions, department heads or committees, including but not limited to the Open Space and Parks Advisory Committee, the Planning Commission, with respect to the zoning, use, development or improvement of real property subject to County regulation, or any agencies, boards, commissions, department heads or committees with respect to requests for proposals, bidding, procurement or contracting for services for the County; any determination made by an elected county official or an officer or employee of the county with respect to the terms of the acquisition or disposition by the county of any interest in real property, with respect to a license or permit for the use of real property of or by the county, or with respect to a franchise, concession or revocable consent; the proposal, adoption, amendment or rejection by an agency of any rule having the force and effect of law; the decision to hold, timing or outcome of any rate making proceeding before an agency; the agenda or any determination of a board or commission; any determination regarding the calendaring or scope of any legislature oversight hearing;

the issuance, repeal, modification or substance of a County Executive Order; or any determination made by an elected county official or an officer or employee of the county to support or oppose any state or federal legislation, rule or regulation, including any determination made to support or oppose that is contingent on any amendment of such legislation, rule or regulation, whether or not such legislation has been formally introduced and whether or not such rule or regulation has been formally proposed.

The term "lobbying" or "lobbying activities" **does not include**: Persons engaged in drafting legislation, rules, regulations or rates; persons advising clients and rendering opinions on proposed legislation, rules, regulations or rates, where such professional services are not otherwise connected with legislative or executive action on such legislation or administrative action on such rules, regulations or rates; newspapers and other periodicals and radio and television stations and owners and employees thereof, provided that their activities in connection with proposed legislation, rules, regulations or rates are limited to the publication or broadcast of news items, editorials or other comment, or paid advertisements; persons who participate as witnesses, attorneys or other representatives in public rule-making or rate-making proceedings of a County agency, with respect to all participation by such persons which is part of the public record thereof and all preparation by such persons for such participation; persons who attempt to influence a County agency in an adjudicatory proceeding, as defined by § 102 of the New York State Administrative Procedure Act.

The contract shall be awarded to the responsible proposer who, at the discretion of the County, taking into consideration the reliability of the proposer and the capacity of the proposer to perform the services required by the County, offers the best value to the County and who will best promote the public interest.

NOTE: All questions require a response, even if response is “none”. No blanks.

Date: August 7 2018

1) Proposer's Legal Name: L.I. Proliner Inc

2) Address of Place of Business: 18 Peconic Ave Medford NY 11763

None

3) Mailing Address (if different): Same as above

Phone: 631-447-9558

Does the business own or rent its facilities? Own

4) Dun and Bradstreet number: NO.

5) Federal I.D. Number: 11 333 0825

6) The proposer is a (check one): ☐ Sole Proprietorship ☐ Partnership ☒ Corporation ☐ Other
(Describe) _____

7) Does this business share office space, staff, or equipment expenses with any other business?
Yes ☐ No ☒ If Yes, please provide details: _____

8) Does this business control one or more other businesses? Yes ☐ No ☒ If Yes, please provide details:

9) Does this business have one or more affiliates, and/or is it a subsidiary of, or controlled by, any other business? Yes No ☒ If Yes, provide details.

- 10) Has the proposer ever had a bond or surety cancelled or forfeited, or a contract with Nassau County or any other government entity terminated? Yes ___ No ☒ If Yes, state the name of bonding agency, (if a bond), date, amount of bond and reason for such cancellation or forfeiture: or details regarding the termination (if a contract). _____
- 11) Has the proposer, during the past seven years, been declared bankrupt? Yes ___ No ☒ If Yes, state date, court jurisdiction, amount of liabilities and amount of assets _____
- 12) In the past five years, has this business and/or any of its owners and/or officers and/or any affiliated business, been the subject of a criminal investigation and/or a civil anti-trust investigation by any federal, state or local prosecuting or investigative agency? And/or, in the past 5 years, have any owner and/or officer of any affiliated business been the subject of a criminal investigation and/or a civil anti-trust investigation by any federal, state or local prosecuting or investigative agency, where such investigation was related to activities performed at, for, or on behalf of an affiliated business.
Yes ___ No ☒ If Yes, provide details for each such investigation. _____
- 13) In the past 5 years, has this business and/or any of its owners and/or officers and/or any affiliated business been the subject of an investigation by any government agency, including but not limited to federal, state and local regulatory agencies? And/or, in the past 5 years, has any owner and/or officer of an affiliated business been the subject of an investigation by any government agency, including but not limited to federal, state and local regulatory agencies, for matters pertaining to that individual's position at or relationship to an affiliated business. Yes ___ No ☒ If Yes, provide details for each such investigation. _____
- 14) Has any current or former director, owner or officer or managerial employee of this business had, either before or during such person's employment, or since such employment if the charges pertained to events that allegedly occurred during the time of employment by the submitting business, and allegedly related to the conduct of that business:
- a) Any felony charge pending? Yes ___ No ☒ If Yes, provide details for each such charge. _____
- b) Any misdemeanor charge pending? Yes ___ No ☒ If Yes, provide details for each such charge. _____
- c) In the past 10 years, you been convicted, after trial or by plea, of any felony and/or any other crime, an element of which relates to truthfulness or the underlying facts of which related to the conduct of business? Yes ___ No ☒ If Yes, provide details for each such conviction _____
- d) In the past 5 years, been convicted, after trial or by plea, of a misdemeanor?

Yes ___ No ☒ If Yes, provide details for each such conviction. _____

e) In the past 5 years, been found in violation of any administrative, statutory, or regulatory provisions? Yes ___ No ☒ If Yes, provide details for each such occurrence. _____

15) In the past (5) years, has this business or any of its owners or officers, or any other affiliated business had any sanction imposed as a result of judicial or administrative proceedings with respect to any professional license held? Yes ___ No ☒ If Yes, provide details for each such instance. _____

16) For the past (5) tax years, has this business failed to file any required tax returns or failed to pay any applicable federal, state or local taxes or other assessed charges, including but not limited to water and sewer charges? Yes ___ No ☒ If Yes, provide details for each such year. Provide a detailed response to all questions checked 'YES'. If you need more space, photocopy the appropriate page and attach it to the questionnaire. _____

Provide a detailed response to all questions checked "YES". If you need more space, photocopy the appropriate page and attach it to the questionnaire.

17) Conflict of Interest:

a) Please disclose any conflicts of interest as outlined below. **NOTE: If no conflicts exist, please expressly state "No conflict exists."**

(i) Any material financial relationships that your firm or any firm employee has that may create a conflict of interest or the appearance of a conflict of interest in acting on behalf of Nassau County. No conflict Exists

(ii) Any family relationship that any employee of your firm has with any County public servant that may create a conflict of interest or the appearance of a conflict of interest in acting on behalf of Nassau County.

No Conflict Exists

(iii) Any other matter that your firm believes may create a conflict of interest or the appearance of a conflict of interest in acting on behalf of Nassau County.

No Conflict Exists

b) Please describe any procedures your firm has, or would adopt, to assure the County that a conflict of interest would not exist for your firm in the future.

No conflict Exists. I will contact the County should a potential conflict arise and be guided accordingly.

A. Include a resume or detailed description of the Proposer's professional qualifications, demonstrating extensive experience in your profession. Any prior similar experiences, and the results of these experiences, must be identified. 1996 years in business.

Should the proposer be other than an individual, the Proposal **MUST** include:

- i) Date of formation; 1996 22 years in business
- ii) Name, addresses, and position of all persons having a financial interest in the company, including shareholders, members, general or limited partner; Vasilios Hadzigeorgiou President 3 Hulse Patchogue NY 11763
- iii) Name, address and position of all officers and directors of the company; Vasilios Hadzigeorgiou President 3 Hulse Ct Patchogue NY 11763
- iv) State of incorporation (if applicable); New York state
- v) The number of employees in the firm; 13
- vi) Annual revenue of firm; —
- vii) Summary of relevant accomplishments; We currently hold a 5 year Blanket order with Nassau County for Ambulances. We do business with all of Suffolk and Nassau County as well as Yonkers and Westchester
- viii) Copies of all state and local licenses and permits.

B. Indicate number of years in business. 22 years

C. Provide any other information which would be appropriate and helpful in determining the Proposer's capacity and reliability to perform these services.

D. Provide names and addresses for no fewer than three references for whom the Proposer has provided similar services or who are qualified to evaluate the Proposer's capability to perform this work.

Company Yonkers Police Department

Contact Person Dennis M. Borrelli

Address 1106 Yonkers Ave

City/State Yonkers NY 10704

Telephone 914-377-7346

Fax # 914-377-7392

E-Mail Address Toybuff911@aol.com

OFFICE OF PURCHASING
COUNTY OF NASSAU STATE OF NEW YORK

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Company Selden Fire District
Contact Person John Bartnick
Address PO Box 870
City/State Selden NY 11784
Telephone 631-732-5570
Fax # 631-732-0524
E-Mail Address none

Company Westchester County Police Department
Contact Person Police
Address One Saw Mill River Park
City/State Hawthorne NY 10532
Telephone 914 864 7700
Fax # N/A none
E-Mail Address none

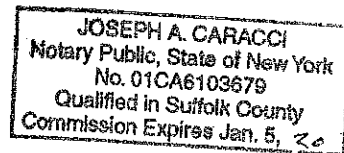
CERTIFICATION

A MATERIALLY FALSE STATEMENT WILLFULLY OR FRAUDULENTLY MADE IN CONNECTION WITH THIS QUESTIONNAIRE MAY RESULT IN RENDERING THE SUBMITTING BUSINESS ENTITY NOT RESPONSIBLE WITH RESPECT TO THE PRESENT BID OR FUTURE BIDS, AND, IN ADDITION, MAY SUBJECT THE PERSON MAKING THE FALSE STATEMENT TO CRIMINAL CHARGES.

I, Billy Georgiou, being duly sworn, state that I have read and understand all the items contained in the foregoing pages of this questionnaire and the following pages of attachments; that I supplied full and complete answers to each item therein to the best of my knowledge, information and belief; that I will notify the County in writing of any change in circumstances occurring after the submission of this questionnaire and before the execution of the contract; and that all information supplied by me is true to the best of my knowledge, information and belief. I understand that the County will rely on the information supplied in this questionnaire as additional inducement to enter into a contract with the submitting business entity.

Sworn to before me this 3 day of Aug 2018

[Signature]
Notary Public



Name of submitting business: LI Proliner inc

By: Billy Georgiou

Print name

[Signature]
Signature

Pres
Title

8 / 3 / 17
Date

PRINCIPAL QUESTIONNAIRE FORM

All questions on these questionnaires must be answered by all officers and any individuals who hold a ten percent (10%) or greater ownership interest in the proposer. Answers typewritten or printed in ink. If you need more space to answer any question, make as many photocopies of the appropriate page(s) as necessary and attach them to the questionnaire.

COMPLETE THIS QUESTIONNAIRE CAREFULLY AND COMPLETELY. FAILURE TO SUBMIT A COMPLETE QUESTIONNAIRE MAY MEAN THAT YOUR BID OR PROPOSAL WILL BE REJECTED AS NON-RESPONSIVE AND IT WILL NOT BE CONSIDERED FOR AWARD

1. Principal Name Vasilios Hadzigeorgiou
Date of birth 7 / 23 / 1977
Home address 3 Hulse Ct
City/state/zip Patchogue NY 11763
Business address 18 Peconic Ave
City/state/zip Medford NY 11763
Telephone 631 447 9558
Other present address(es) None
City/state/zip None
Telephone None

List of other addresses and telephone numbers attached

2. Positions held in submitting business and starting date of each (check all applicable)
President 7 / 23 / 1996 Treasurer 7 / 23 / 1996
Chairman of Board / / Shareholder 7 / 23 / 1996
Chief Exec. Officer / / Secretary 7 / 23 / 1996
Chief Financial Officer / / Partner / /
Vice President / / / /
(Other)
3. Do you have an equity interest in the business submitting the questionnaire?
YES ☒ NO ☐ If Yes, provide details. owner
4. Are there any outstanding loans, guarantees or any other form of security or lease or any other type of contribution made in whole or in part between you and the business submitting the questionnaire?
YES ☐ NO ☒ If Yes, provide details.
5. Within the past 3 years, have you been a principal owner or officer of any business or not-for-profit organization other than the one submitting the questionnaire? YES ☐ NO ☒ If Yes, provide details.
6. Has any governmental entity awarded any contracts to a business or organization listed in Section 5 in the past 3 years while you were a principal owner or officer? YES ☐ NO ☒ If Yes, provide details.

NOTE: An affirmative answer is required below whether the sanction arose automatically, by operation of law, or as a result of any action taken by a government agency.

Provide a detailed response to all questions checked "YES". If you need more space, photocopy the appropriate page and attach it to the questionnaire.

7. In the past (5) years, have you and/or any affiliated businesses or not-for-profit organizations listed in Section 5 in which you have been a principal owner or officer:
- a. Been debarred by any government agency from entering into contracts with that agency?
YES _____ NO X If Yes, provide details for each such instance.
 - b. Been declared in default and/or terminated for cause on any contract, and/or had any contracts cancelled for cause? YES _____ NO X If Yes, provide details for each such instance.
 - c. Been denied the award of a contract and/or the opportunity to bid on a contract, including, but not limited to, failure to meet pre-qualification standards? YES _____ NO X If Yes, provide details for each such instance.
 - d. Been suspended by any government agency from entering into any contract with it; and/or is any action pending that could formally debar or otherwise affect such business's ability to bid or propose on contract? YES _____ NO X If Yes, provide details for each such instance.
8. Have any of the businesses or organizations listed in response to Question 5 filed a bankruptcy petition and/or been the subject of involuntary bankruptcy proceedings during the past 7 years, and/or for any portion of the last 7 year period, been in a state of bankruptcy as a result of bankruptcy proceedings initiated more than 7 years ago and/or is any such business now the subject of any pending bankruptcy proceedings, whenever initiated? If 'Yes', provide details for each such instance. (Provide a detailed response to all questions checked "YES". If you need more space, photocopy the appropriate page and attach it to the questionnaire.)
- a) Is there any felony charge pending against you? YES _____ NO X If Yes, provide details for each such charge.
 - b) Is there any misdemeanor charge pending against you? YES _____ NO X If Yes, provide details for each such charge.
 - c) Is there any administrative charge pending against you? YES _____ NO X If Yes, provide details for each such charge.
 - d) In the past 10 years, have you been convicted, after trial or by plea, of any felony, or of any other crime, an element of which relates to truthfulness or the underlying facts of which related to the conduct of business? YES _____ NO X If Yes, provide details for each such conviction.
 - e) In the past 5 years, have you been convicted, after trial or by plea, of a misdemeanor?
YES _____ NO X If Yes, provide details for each such conviction.
 - f) In the past 5 years, have you been found in violation of any administrative or statutory charges?
YES _____ NO X If Yes, provide details for each such occurrence.

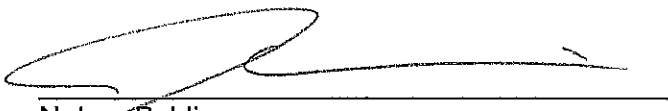
9. In addition to the information provided in response to the previous questions, in the past 5 years, have you been the subject of a criminal investigation and/or a civil anti-trust investigation by any federal, state or local prosecuting or investigative agency and/or the subject of an investigation where such investigation was related to activities performed at, for, or on behalf of the submitting business entity and/or an affiliated business listed in response to Question 5? YES ____ NO X If Yes, provide details for each such investigation.
10. In addition to the information provided, in the past 5 years has any business or organization listed in response to Question 5, been the subject of a criminal investigation and/or a civil anti-trust investigation and/or any other type of investigation by any government agency, including but not limited to federal, state, and local regulatory agencies while you were a principal owner or officer? YES ____ NO X If Yes; provide details for each such investigation.
11. In the past 5 years, have you or this business, or any other affiliated business listed in response to Question 5 had any sanction imposed as a result of judicial or administrative proceedings with respect to any professional license held? YES ____ NO X If Yes; provide details for each such instance.
12. For the past 5 tax years, have you failed to file any required tax returns or failed to pay any applicable federal, state or local taxes or other assessed charges, including but not limited to water and sewer charges? YES ____ NO X If Yes, provide details for each such year.

CERTIFICATION

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I, Billy Georgiou, being duly sworn, state that I have read and understand all the items contained in the foregoing pages of this questionnaire and the following pages of attachments; that I supplied full and complete answers to each item therein to the best of my knowledge, information and belief; that I will notify the County in writing of any change in circumstances occurring after the submission of this questionnaire and before the execution of the contract; and that all information supplied by me is true to the best of my knowledge, information and belief. I understand that the County will rely on the information supplied in this questionnaire as additional inducement to enter into a contract with the submitting business entity.

Sworn to before me this 3 day of Aug 2018



Notary Public

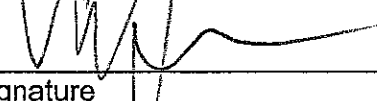
JOSEPH A. CARACCI
Notary Public, State of New York
No. 01CA6103679
Qualified in Suffolk County
Commission Expires Jan. 5, 20

L.I. Proliner Inc

Name of submitting business

Billy Georgiou

Print name



Signature

President

Title

8, 3, 17

Date

OFFICE OF PURCHASING
COUNTY OF NASSAU STATE OF NEW YORK

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SCOPE: It is the intent of the County of Nassau to properly describe by these specifications and terms an adequate method of providing: **a Command Center.**

AWARD: Award, if any, will be made to the lowest responsible bidder, who in the opinion of the Director of Purchasing, meets the specifications and qualifications stated herein. The Director of Purchasing reserves the right to make an award be items, groups, or classes of items or as a whole. Awards will be made in accordance with the terms and conditions attached hereto and made part hereof.

PURPOSE: The purpose of this bid is to establish a price structure on which items and/or services listed herein will be purchased at once by Purchase Order.

DELIVERY: Bidders are required to state guaranteed delivery date in terms of days after receipt of order in the space provided below and on page one. Bidders are cautioned to post realistic delivery dates. Guaranteed delivery dates will be strictly enforced. Must be made within 15 days A/R/O unless stated otherwise below:

Delivery to be made 240 **Days A/R/O.**

Delivery shall be made **ONLY** upon receipt of a Purchase Order, or in the case of a Blanket Order, upon receipt of a Direct Purchase Order(s) from a using agency authorized to use the Blanket Order which will be issued to the successful bidder. Purchase Order and Direct Purchase Order shall indicate the destination address. Inside delivery is required on all deliveries.

Bidders agree that all orders shall be effective and binding upon the contractor when PLACED IN THE MAIL addressed to the Contractor at the address shown on the Blanket Order/Purchase Order PRIOR TO MIDNIGHT OF THE FINAL DAY OF CONTRACT.

BILLING: Shall be made on County claim forms or Certified Invoices to the individual using County Agency upon completion of deliveries made against applicable Purchase Order(s) or Direct Purchase Order(s).

NO PARTIAL PAYMENTS WILL BE PAID.

*****VENDOR CLAIM CERTIFICATION*****

IF A CLAIM VOUCHER IS NOT BEING SUBMITTED, THE FOLLOWING CERTIFICATION **MUST** APPEAR ON THE INVOICE:

I HEREBY CERTIFY THAT ALL ITEMS OR SERVICES WERE DELIVERED OR RENDERED AS SET FORTH IN THIS CLAIM; THAT THE PRICES CHARGED ARE IN ACCORDANCE WITH REFERENCED PURCHASE ORDER, DIRECT PURCHASE ORDER OR CONTRACT, THAT THE CLAIM IS JUST, TRUE AND CORRECT; THAT THE BALANCE STATED HEREIN IS ACTUALLY DUE AND OWING AND HAS NOT BEEN PREVIOUSLY CLAIMED; THAT NO TAXES FROM WHICH THE COUNTY IS EXEMPT ARE INCLUDED; AND THAT ANY AMOUNTS CLAIMED FOR DISBURSEMENTS HAVE ACTUALLY AND NECESSARILY BEEN MADE.

Vasilios Hadzigeorgiou 8-7-18
CLAIMANT NAME DATE
[Signature] President
BY (SIGNATURE) TITLE

*CLAIM VOUCHERS AND CERTIFIED INVOICES NOT PROPERLY COMPLETED WILL BE RETURNED TO YOU UNPAID**

Vendors may download claim form NIFS560 at the following URL:

<http://www.nassaucountyny.gov/agencies/Comptroller/Docs/PDF/ClaimVoucherFormBlank.pdf>

ALL BIDS MUST BE F.O.B. DESTINATION AND INCLUDE DELIVERY WITHIN DOORS UNLESS OTHERWISE SPECIFIED.

**OFFICE OF PURCHASING
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TOTAL CONSUMPTION: Total consumption of order awarded may be PLUS/MINUS those quantities without any price change.

INSPECTION: Bidders should be aware of Inspection and Delivery requirements as stipulated.

PRICE DISCREPANCY: In the event of a discrepancy between the unit price and the extension price, the unit price will govern.

RETENTION OF BID: Vendor is required to make a copy of his completed bid document and applicable attachments. Any purchase orders issued against this bid will refer to the bid and attachments to designate items awarded.

METHOD OF BIDDING: Please submit unit price in the appropriate column.

ADDITIONAL BIDS: The County reserves the right, for any un-contemplated additional requirements of extraordinary quantities of particular items to call for new bids, therefore, whenever in the opinion of the Director of the Office of Purchase it is in the best interests of the County of Nassau to do so.

SAMPLES: Samples, when required, must be submitted strictly in accordance with instructions **otherwise the bid may not be considered**. If samples are requested subsequent to bid opening, they shall delivered within five (5) business days of the request for the bid to be considered. Samples must be furnished free of charge and must be accompanied by descriptive memorandum indicating if the bidder desires their return, also specifying the address to which they are to be returned, provided they have not been used or made useless by testing. Award samples may be held for comparison with deliveries. Samples will be returned at bidders' request and expense.

TAX PROVISION: Purchases made by the County of Nassau are not subject to State, Local Sales Taxes or Federal Excise Taxes. Federal Exemption #A-109538 State Exemption #EX 7213062C. The County of Nassau is not subject to any Existing "Fair Trade Agreements" and bidders should be governed accordingly.

SPECIFICATIONS: Submit complete specifications and illustrations of products offered with the bid. Acceptance of a bid and designation of a manufacturer's catalog description, brand name or number in any Purchase or Blanket Order resulting there-from shall not be construed as qualification of the specifications of this bid or relief there-from, except as specifically stated in the Purchase or Blanket Order.

PRODUCT IDENTIFICATION: If a product(s) is identified by a BRAND NAME, a substitute of equal quality, construction, finish, composition, size, workmanship and performance characteristics may be acceptable. In submitting a bid, each bidder warrants that the substitute product being offered is an equal. Bid sheets shall be so noted of the manufacturer's name and brand of the product offered as an equal. If as a result of an award, a delivery is made of a brand or product represented as an equal which is subsequently deemed to be unacceptable, the Contractor shall be required, at his expense, to pick up the rejected item and replace it with brand(s) listed in this bid, or an acceptable equal which will have the approval of the Director.

PROTECTION FROM CLAIM AGAINST "OR EQUAL": In the event of any claim by any unsuccessful bidder concerning or relating to the issue of "equal or better" or "or equal", the successful bidder agrees, at his own cost and expense, to defend such claims or claims and agrees to hold the County of Nassau free and harmless from any and all claims for loss or damage arising out of this transaction for any reason whatsoever.

ALTERNATIVE ITEM: In submitting a bid on a commodity other than as specified, bidder shall furnish complete data and identification with respect to the alternate commodity he proposes to furnish. Consideration will be given to

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Proposals submitted on alternate commodities to the extent that such action is deemed to serve the best interests of the County. If a bidder does not indicate that the commodity he proposes to furnish is other than as specified, it will be construed to mean that the bidder proposes to furnish the exact commodity as described. Consideration of the alternate shall be at the sole discretion of the Director. MORE THAN ONE (1) BID ON EACH ITEM WILL NOT BE CONSIDERED, UNLESS OTHERWISE SPECIFIED BY THE COUNTY.

EQUIVALENT BIDS: Bidders may offer a product of the same capability, but of different manufacture and model than that specified in this bid. The use of the name of a manufacturer, brand, make or catalog designation in specifying items described herein does not restrict or preclude bidders from offering equivalent or better product bids. Such a designation is used only to indicate the character, quality and minimum performance desired. Equal or better product bids are permissible. A bidder submitting an equal or better product shall, at his own cost and expense be responsible for submitting proof and/or a demonstration of equivalence, compatibility and performance. However, acceptance of an equivalent product shall be strictly at the discretion of the Director. Any omission of the term "or equal" in any specific bid item listing should be disregarded by the bidder. All bidders shall have an absolute right to submit "equivalent" bids notwithstanding any other provision of the bid specifications.

WARRANTY: The successful bidder warrants the equipment furnished and all associated equipment against any defects in design, workmanship and materials against failure to operate satisfactorily for one (1) year from the date of acceptance by the using department and/or agency of the equipment, other than defects or failure shown by the Contractor that have arisen solely from accident or abuse occurring after delivery to the Nassau County agency. Contractor agrees to replace any parts, which in the opinion of the user, shall fail from the above reasons.

IMPORTANT NOTES: If a company policy or trade practice requires a different warranty period, the bidder may so state without fear of disqualifications. However, the bidder is cautioned that the length of warranty may, in some cases, be a deciding factor in making an award.

Equipment furnished hereunder shall meet the standards set forth in the Occupational Safety and Health Act of 1970.

BIDDER SHALL STATE WARRANTY

PERIOD: See attached warranty forms

NOTE: All warranties take effect only upon written acceptance of equipment by using agency and shall run full term from that point.

BIDDER SHALL INDICATE COST AND TERM OF ANY EXTENDED WARRANTY OPTION, IF AVAILABLE:

NONE

NON-ASSIGNMENT: In accordance with Section 138 of the State Finance Law, the contract may not be assigned by the Contractor or its right, title or interest therein assigned, transferred, conveyed, sublet or otherwise disposed of without the previous consent, in writing, of Nassau County and any attempts to assign the contract without the County's written consent are null and void.

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REDUCTION IN PRICES: If an award is made, the Contractor agrees, should prices be reduced to the general trade during the requirement period, the County shall receive the benefit of such reduction immediately upon effect. It shall be incumbent upon the Contractor to notify the Purchasing Department of such price reductions.

PRICE PROTECTION: Bidders are required to state period of price protection (in terms of days) after the bid opening.

STATE PRICE PROTECTION PERIOD: 90 **DAYS AFTER BID OPENING**

EXTENSION OF PRICE: It is anticipated that additional quantities of items specified herein may be required in the ensuing year. According, the County of Nassau requests that the prices bid be protected and be available to the County of Nassau for one (1) year from the date of the award. Economic conditions may not permit the price protection for an entire year. Bidders are requested to state the period for which bid prices will be applicable to potential additional orders. 250 days.

NEW YORK STATE PRICES: Bidders must represent and warrant that if they are under contract with New York State for items specified herein, that the price quoted to the County is not higher than the price per unit quoted to New York State for like quantities.

VENDOR RESPONSIBILITY CRITERIA: The Director of Purchasing reserves the right before making an award to make investigations as to whether or not the qualifications, services, facilities or items offered by the bidder meet the requirements set forth herein and are ample and sufficient to ensure the proper performance in the event of an award. The bidder must be prepared, if requested by the Director of Purchasing, to present evidence of experience, ability, financial standing, as well as a statement as to plant, machinery, trained personnel and capacity for the rendition of the service on which the vendor is bidding. Upon request of the Director, the successful bidder shall file certification from the manufacturer relative to authorization, delivery, service and guarantees. If it is found that the conditions of the bid are not complied with or that the services or equipment proposed to be furnished do not meet the requirements called for, or that the qualifications, financial standing, or facilities are not satisfactory, the Director may reject such bids. It is distinctly understood, however, that nothing in the foregoing shall mean or imply that it is obligatory upon the Director to make any examinations before an award; and it is further understood that, if such examination is made, it in no way relieves the bidder from fulfilling all requirements and conditions of the bid.

NON-COLLUSIVE BIDDING CERTIFICATION REQUIRED BY SECTION 139-D OF THE STATE FINANCE LAW

BY SUBMISSION OF THIS BID, BIDDER AND EACH PERSON SIGNING ON BEHALF OF BIDDER CERTIFIES, AND IN THE CASE OF A JOINT BID, EACH PARTY THERETO CERTIFIES AS TO ITS OWN ORGANIZATION, UNDER PENALTY OR PERJURY, THAT TO THE BEST OF HIS/HER KNOWLEDGE AND BELIEF:

- [1] The prices of this bid have been arrived at independently, without collusion, consultation, communication, or agreement for the purposes of restricting competition, as to any matter relating to such prices with any other Bidder or with any competitor;
- [2] Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the Bidder and will not knowingly be disclosed by the Bidder prior to opening, directly or indirectly, to any other Bidder or to any competitor; and
- [3] No attempt has been made or will be made by the Bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

A BID SHALL NOT BE CONSIDERED FOR AWARD NOR SHALL ANY AWARD BE MADE WITH [1], [2], [3] ABOVE HAVE NOT BEEN COMPLETE WITH; PROVIDED HOWEVER, THAT IF IN ANY CASE THE BIDDER(S) CANNOT MAKE THE FOREGOING CERTIFICATION, THE BIDDER SHALL SO STATE AND SHALL FURNISH BELOW A SIGNED STATEMENT WHICH SETS FORTH IN DETAIL THE REASONS THEREFORE:

ALL BIDS MUST BE F.O.B. DESTINATION AND INCLUDE DELIVERY WITHIN DOORS UNLESS OTHERWISE SPECIFIED.

OFFICE OF PURCHASING
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[AFFIX ADDENDUM TO THIS PAGE IF SPACE IS REQUIRED FOR STATEMENT]

Subscribed to under penalty of perjury under the laws of the State of New York,

this 3rd day of AUGUST, 20 18 as the act and deed of said Corporation or Partnership.

Identifying Data:

Potential Contractor: L.I. Proliner Inc

Address: 18

Street: Peconic Ave

City, Town, etc: Medford NY 11763

Telephone: 631 447 9558 Title: President

If applicable, responsible Corporate Officer

Name Vasilios Hadzigeorgiou Title President

Signature: [Signature]

Sign Here

**FAILURE TO COMPLETE THIS FORM AND SIGN IN APPROPRIATE PLACE SHALL RESULT IN
AUTOMATIC REJECTION OF THE BID.**

GENERAL INSTRUCTIONS: All bidders must adhere to the following conditions:

As per New York State Municipal Law 103, no exception can be taken to any material term and/or condition of this bid with the exception of any warranties as presented in this bid for the specific commodity or service required.

Any language in any proposal or document submitted by a bidder as part of their bid that is accepted by the County of Nassau cannot be in conflict with any material term and/or condition relevant to this bid with the exception of any warranties or the specifications of the commodity of service required by this bid. If there is any conflict between the bidder's terms and conditions and the terms and conditions of this bid, the terms and conditions of this bid shall govern.

Bidders must insert **FEDERAL IDENTIFICATION NUMBER** in the space provided on page one of this bid.

Late Formal Sealed Bids will NOT be accepted. Bidders are urged to mail bids early to assure delivery on time. Bids must be received by 11:00 A.M. on the bid opening date.

Prices **MUST** be inserted with **TYPEWRITER OR INK**. Entries with **WHITE OUT, CROSS-OUTS OR LIFT-OFF TAPE** **MUST** BE INITIALED or that entry will be disqualified.

ALL BIDS MUST BE F.O.B. DESTINATION AND INCLUDE DELIVERY WITHIN DOORS UNLESS OTHERWISE SPECIFIED.

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Bidders should submit bid with unit price in the appropriate column on bid pages or forms attached hereto. In the event of a discrepancy between the unit price and the extension, the unit price shall govern. Bidders shall submit one (1) original bid document and all applicable attachments. Any order issued against this bid will refer to the bid and attachments to designate items awarded. Bidders agree that all, Direct Purchase Orders and/or Purchase Orders shall be effective and binding upon the Contractor when placed in the mail, addressed to the Contractor at the address shown on the Direct Purchase Order or the Purchase Order.

Bidders **MUST** state manufacturer's name and catalog number of each item bid.

ABSOLUTELY NO MINIMUM ORDERS shall be applied to this bid.

Purchases made by Nassau County are not subject to State or Local Sales Tax or Federal Excise Taxes.

Federal Exemption Number: A-109538

State Exemption Number: EX 7213062C

Inside (receiving dock) delivery is required on all orders.

The rights and obligations of the parties under this agreement shall be governed by the laws of the State of New York.

Bids are hereby solicited for the commodities and/or services specified herein which are to be delivered and/or performed at the locations indicated, and in strict accordance with all specifications, terms and conditions attached hereto and made part hereof.

Bid document must be signed by proprietor, partner or corporate officer.

The clauses contained in these bid forms set forth the wishes of the County of Nassau in regard to the purchase and/or services required. However, the Director reserves the right to waive irregularities, omissions, or other technical defects if, in its judgment, the best interest of the County of Nassau will be served accordingly.

Bidders may take exception to paragraphs of the bid under a separate cover letter to be attached to this bid, indicating the specific bid page, paragraph and the exception(s). In any event, the decision of the Director will be final.

Qualification statement **MUST BE COMPLETED** and submitted with bid. See page 4 for further details

IMPORTANT NOTE: The Director reserves the right to accept or reject any and all bids, or separable portions of offers, and waive technicalities, irregularities, and omissions if the Director determines the best interests of the County of Nassau will be served. The Director, in his sole discretion, may accept or reject illegible, incomplete or vague bids and his decision shall be final. A conditional or revocable bid which clearly communicates the terms or limitations of acceptance may be considered and contract award may be made in compliance with the bidder's conditional or revocable terms in the offer. Prior to award, the Director reserves the right to seek clarifications, request bid revisions, or to request any information deemed necessary for proper evaluation of bids from all bidders deemed to be eligible for contract award. Failure to provide requested information may result in rejection of the bid.

EVALUATION:

The Director of the Office of Purchasing (hereinafter known as the Director) reserves the right before making award to make investigations as to whether or not the items, qualifications, services or facilities offered by the Bidder meet the requirements set forth herein and are ample and sufficient to insure the proper performance in the event of an award.

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**FORMAL SEALED BID PROPOSAL
07053-08078-111**

The Bidder must be prepared, if requested by the Director, to present evidence of experience, ability and financial standing, as well as a statement as to plant, machinery, trained personnel and capacity for the rendition of the service on which he is bidding. Upon request of the Director of Purchasing, successful bidder shall file certification from the manufacturer relative to authorization, delivery, service and guarantees. If it is found that the conditions of the bids are not complied with or that the services or equipment proposed to be furnished do not meet the requirements called for, or that the qualifications, financial standing or facilities are not satisfactory, the Director may reject such bids. It is distinctly understood, however, that nothing in the foregoing shall mean or imply that it is obligatory upon the Director to make any examinations before award; and it is further understood that, if such examination is made, it in no way relieves the Bidder from fulfilling all requirements and conditions of the bid.

INSURANCE AND WORKERS COMPENSATION: The successful bidder agrees to obtain from an insurance company, authorized to do business in the State of New York, and keep in force during the term of any agreement, a policy of Comprehensive and General Liability Insurance naming the Contractor as an Insured, and naming the County of Nassau as an additional insured, including but not limited to the torts and negligence of Contractor's personnel, with a combined minimum single limit of three million dollars (\$3,000,000.00) for bodily injury and property damage for any one occurrence at the Contractor's sole cost and expense. Evidence of insurance may be required prior to Notice of Award or issuance of a Purchase Order.

The Contractor shall comply with all provisions of the Workers' Compensation Law and shall furnish a certificate showing evidence of current coverage.

PRODUCT LIABILITY INSURANCE: The successful bidder agrees to obtain from an insurance company authorized to do business in the State of New York, and keep in force during the term of an agreement, a policy of Product Liability Insurance, including foreign objects, with a combined minimum single limit of one million dollars (\$1,000,000.00) for each occurrence, at the Contractor's sole cost and expense, and shall furnish a certificate showing evidence of current coverage. Evidence of insurance may be required prior to Notice of Award or issuance of a Purchase Order.

Record Retention

Contractor shall retain complete and accurate records and documents related to this Agreement for six (6) years following the later of termination or final payment. Such records shall at all times be available for audit and inspection by the County.

Governing Law – Consent to Jurisdiction and Venue; Governing Law. Unless otherwise specified in this Agreement or required by Law, exclusive original jurisdiction for all claims or actions with respect to this Agreement shall be in the Supreme Court in Nassau County in New York State and the parties expressly waive any objections to the same on any grounds, including venue and forum non conveniens. This Agreement is intended as a contract under, and shall be governed and construed in accordance with, the Laws of New York State, without regard to the conflict of laws provisions thereof.

Ordinance # 72-2014

The bidder declares that they are a registered vendor in accordance with Ordinance # 72-2014 (the "Ordinance"). All registered vendors must pay the One Hundred Twenty-Five Dollar (\$125.00) annual fee required under the Ordinance. Additionally, registered vendors must pay a Two Hundred Seventy-Five Dollar (\$275.00) per contract fee to register Blanket contracts on the County's procurement website, as required under the Ordinance.

Further details about the registration process may be found at

<https://eproc.nassaucountyny.gov/SupplierRegister>

ALL BIDS MUST BE F.O.B. DESTINATION AND INCLUDE DELIVERY WITHIN DOORS UNLESS OTHERWISE SPECIFIED.

Specifications

Item 1 Purchase of one Ford F550 Command Unit Or Equivalent
2018 Ford F550 Or Newer Regular Cab DRW 4x4 193" wheelbase
As per specifications attached

Pricing as per specifications attached, must respond to all questions yes or no.

1 command center @ \$274,600.00 each = \$274,600.00 Total

Two Hundred Seventy Four Thousand Six Hundred Dollars

** Any questions in regard to the specifications please contact Warren Ramskill @516 573-9912.



**Mobile Command Unit
for the
Nassau County Fire Marshal
Communications Division**

11/20/17

MINIMUM CAB AND CHASSIS REQUIREMENTS

2018 or newer Ford F550

2018 Ford F-550 4 X 4 Super Duty Two Door Chassis

F5H	F-550 REGULAR CAB DRW 4 X 4
	193" WB 108" CA
660A	XL Trim Package Includes:
	HD Vinyl 40/20/40 Bucket Seats
	40 gallon fuel tank aft of rear axle
	Grille Black Painted
	Solar Tinted Windows
	Air Conditioning Manual, Single Zone
	Tow Hooks Front (2)
525	Cruise Control (Steering Wheel Mounted)
90L	Power Equipment Group windows and door locks
99T	Engine: 6.7L 4V OHV Power Stroke, V8 Turbo Diesel B20
44W	Transmission: TorqShift 6-Speed, Automatic, Includes SelectShift.
X8L	Limited Slip w/4.88 Axle Ratio
68M	GVWR: 19,500 lb Payload Plus, Upgrade Package
	Includes upgraded frame, rear-axle and springs and low deflection/high capacity. Increases max RGAWR to 14,706.
THB	Tires: 225/70R19.5G BSW Traction (Select when using 4x4)
	Includes 4 traction tires on the rear and 2 all-season tires on the front.
64Z	19.5 Argent Painted Steel Wheels
512	Spare Tire, Wheel
945	Stainless Steel Wheel Covers Front and Rear
63B	Clean Idle Decal
213	Add when a (4x4) Electronic-Shift-On-The-Fly, (ESOF) Includes manual-locking hubs and auto rotary control on instrument panel.
41H	Engine Block Heater
62R	Transmission Power Take-Off Provision (Includes transmission mounted live drive and stationary mode PTO)
98R	Operator Commanded Regeneration (OCR)
67B	Dual Extra Heavy Duty Alternators (Total 377-Amps)
585	Radio: AM/FM Stereo/Single CD/MP3 Player

	Includes (4) speakers regular Cab
39S	Satellite Radio w-6-months service Requires (91M)
54K	Manual Telescopic Trailer Tow Mirrors
91M	SYNC System Voice Activated Communications and Entertainment 911 assist (1) USB Port requires
86S	Low Deflection Spacer Package
42S	50 States Emission
942	Day Time Running Lights
17F	Chrome front bumper
47A	Ambulance Prep Package
166	Carpet Delete (LPO) Replaced with black floor mat. (REQUIRES valid FIN code.)
S	Medium Earth Gray
Z1	Oxford White
	(4) Spare key FOBS and (4) Spare keys
	Chassis Batteries (2)
	Super duty radiator
	OEM transmission cooler

Y ☒ N ☐

ELECTRONIC FLUID LEVEL DATA DISPLAY

As required by NFPA 1901, section 12-2.3.3, chassis component fluid level data shall be displayed on the dash mounted LCD display screen in the cab. There shall be a separate screen with the appropriate information displayed. Information shall include, at a minimum:

- Engine: make, model, serial number, recommended grade of oil, recommended filters with part numbers, recommended maintenance schedule.
- Transmission: make, model, serial number, vocation codes, recommended grade of oil, recommended filters with part numbers, recommended maintenance schedule.
- Rear Axle: make, model, serial number, recommended weight and type of oil, recommended maintenance schedule.

Y ☒ N ☐

"OCCUPANT MUST BE SEATED & BELTED" WARNING PLATE

A safety warning label shall be installed in a conspicuous location on the cab dash visible to driver and all passengers that conforms to NFPA 1901, section 14-1.3.5. It shall have a universal pictorial warning and verbal warning as follows: "WARNING - Occupants must be seated and belted when apparatus is in motion". It shall be a sub-surface screen printed polycarbonate label with chrome bezel.

Y ☒ N ☐

WARNING PLATE - "SEATING OCCUPANCY"

A safety warning label shall be installed in the cab dash visible to driver and all passengers that conforms to NFPA 1901, section 14.1.2. It shall be a seating occupancy label installed visible to the driver, indicating number of personnel the vehicle is designed to carry.

Y ☒ N ☐

CAB LEDS

Minimum 6.5" x 3.3" LED ground lights shall be installed under each of the cab doors. Each light shall produce not less than 675 lumens. They shall mounted on angled stainless steel bracket with a light beam angle of approximately 120 degrees x 50 degrees for improved cab perimeter light projection beneath each cab door.

They shall be activated by park brake activation and when a cab door or the side door is opened.

Y ☒ N ☐

CAB RUNNING BOARDS

A pair of bright aluminum tread plate running boards shall be bolted under the left and right cab doors. The front of the running boards shall be flared to provide an integral mud flap or deflector. The leading edge shall be machine formed or rolled to eliminate any sharp edges. All welds shall be continuous TIG type.

Y ☒ N ☐

RECESSED TOW EYES

A pair of heavy duty black tow eyes shall be recessed into the rear body panel. The tow eyes shall have a minimum 7/8" shank that attaches directly into the end of the frame extension. The frame extension shall have a minimum 1/4" steel plate with reinforcement gussets welded on the end that permits the pulling force applied to the tow eyes to be applied directly to the frame, not the body.

Y ☒ N ☐

BODY & FRAME REQUIREMENTS

BODY MOUNTING TO CHASSIS

The body shall be mounted to the chassis utilizing Grade-8 U-bolts. The body shall be isolated from the chassis frame rails using not less than 1/2" thick x 3" wide high density neoprene rubber the full length of the body sub-frame I-beam.

Y✓N

BODY CONSTRUCTION

The following specifications are meant to be minimum requirements established for the manufacture and delivery of a vehicle supporting emergency incidents, as outlined herein. Exceptions to these minimum standards shall be permitted, but shall be evaluated based on the bidders understanding and interpretation of the mission and compliance with maximum height and length requirements. The body shall be especially fabricated for emergency service usage.

To facilitate an accurate inspection environment after completion of the vehicle, the manufacturer shall, upon the request of the purchaser, schedule specified inspections during regular working hours Monday through Friday. Said inspections shall be at the discretion of the purchaser. The manufacturer shall make the following factory personnel available during the inspection process: sales administrator responsible for the contract; engineering representative familiar with the contract; production foreman or equivalent assignment responsible for the manufacturing process of the contracted apparatus and a representative of the upper management team authorized to make decisions for the contractor. To further facilitate an accurate inspection process, the manufacturer shall provide, prior to authorization to begin construction, an itemized and detailed work order for manufacturing of the specified apparatus. The work order shall become a part of the final contract between the purchaser and the manufacturer or manufacturer's representative and shall be used for any interim and final inspections. All agreed upon and authorized changes to the apparatus prior to or during the manufacturing process shall be represented by an immediate release of a revised work order that shall be forwarded to the purchaser.

Y✓N

WARRANTY

The body construction shall be warranted, in writing from the manufacturer, for a period of not less than ten (10) years against structural failure. A copy of the manufacturer standard warranty shall be included with the bid proposal outlining specifics of warranty and shall take precedent over any and all other warranties, implied or otherwise.

Y✓N

MINIMUM CONSTRUCTION REQUIREMENTS

The apparatus body shall be modular in design and constructed completely of aluminum. It shall be of a welded, all interlocking extrusion structural design engineered specifically for use as an emergency vehicle operating under all types of environmental extremes.

All frame and structural members shall be MIG (metal arc inert gas shielded) welded together to form a "roll cage". No rivets, screws, adhesive or other mechanical fasteners shall be used for the attachment of any structural or frame member used to form this structural "roll cage".

Y✓N

MINIMUM BODY SIDEWALL CONSTRUCTION

Body Corner Post:

The corners of the body shall be constructed of hollow extruded 6063-T6 aluminum shape. The cavity of the extrusion shall be no larger than necessary to provide a solid connecting point for the vertical structural wall members. The design must allow for a minimum of six (6) inches of continuous weld where each vertical structural member abuts the corner extrusion. This extrusion shall have a minimum wall thickness of .125" (1/8)". The corner extrusion shall have at least one (1) internal wall gusset of at least .188" high and 6" X 6" used to adjoin the front and rear walls to each sidewall structure. This critical structural requirement is to reduce the possibility of the extrusion bending, twisting or suffering other deformation when impacted or otherwise stressed.

To ensure full weld penetration the interior vertical corner extrusions shall have a 45 degree "weld bevel" This "welded bevel" can be part of the extrusion design or manually ground off the extrusion prior to assembly. In either case, the extrusion's wall thickness shall be a minimum of .125" at the corner's bevel point.

Sidewall Structural Requirements:

The sidewall assembly shall be reinforced with square extruded 6063-T6 aluminum structural tubes on approximately twelve (12) inch centers. These structural members shall be 2" x 2" extruded box tubing with a wall thickness of not less than .125". To minimize the possibility of the extrusion bending, twisting or suffering other deformation when stressed the extrusion shall be designed so that the floor and wall shall incorporate a thickness of .125" high 6" x 6" gusset at a minimum of four locations curbside and roadside. These structurals shall be MIG welded together to form the body's "roll cage".

Sidewall Outer Panels:

The front, sides and rear external walls shall consist of 5052-H32 aluminum panel not less than .188" (3/16") thick for enhanced corrosion resistance. Where the panels connect with the corner extrusions or the roof rail extrusion they shall be interlocked by a minimum of ½" overlap incorporated into the extrusion design. The panel shall be attached to the vertical and horizontal wall structural's with VHB (Very High Bond) adhesive along with a series of engineered stitch welds to provide rigidity in the wall assembly. All seams shall be continuously welded and or interlocked utilizing a mid-body rub rail with a minimum of ½" overlap on the upper and lower body panel. In no case shall screws, rivets or other mechanical fasteners be used to attach the plate to these structural members.

Y ☒ N ☐

ROOF CONSTRUCTION REQUIREMENTS

Roof Perimeter:

The perimeter of the roof shall be fabricated of 6063-T6 extruded aluminum tubing. The cavity of this hollow extrusion shall be no larger than necessary to provide a solid connecting point for the horizontal structural members. Its design must allow for continuous weld on each side of the horizontal structural member where it abuts the extrusion. The extrusion shall have a wall thickness of not less than .125". A drip rail shall be included as an integral feature of this extrusion design. A drip rail that is screwed, taped, riveted or otherwise mechanically fastened to the roof extrusion is not acceptable.

Roof Lateral Bow (Cross members):

The lateral roof bows shall be 2" x 3" square aluminum extruded tubing with a minimum wall thickness of .125". To minimize the possibility of the extrusion bending, twisting or suffering other deformation when stressed, the extrusion shall be designed so that each of its four (4) walls incorporates an integral wall gusset of not less than .125" high and .125" wide running the entire length of the extrusion. The gusset is to provide additional strength as well as to serve as a mounting point for internal equipment or structures. These structurals shall be MIG welded together to form the body's "roll cage".

The structural members shall be located so that the roof panel is supported on an average of not less than 16" centers. The roof bows shall interconnect with the roof rails and be continuously welded on each side of all contact points.

Roof Exterior Surface:

The roof shall be not less than .125" bright aluminum diamond plate panels. The roof panels shall be fully seam welded where they contact the roof rail perimeter extrusions. The panels shall be attached to the lateral roof bows with VHB (Very High Bond) adhesive to allow flexibility in the roof assembly. In no case shall screws, rivets or other mechanical fasteners be used to attach the skin to the lateral roof bows.

Roof Corner Caps:

The corner caps shall be designed to interlock with the roof perimeter and vertical corner extrusions and roof panel. The corner caps shall be aluminum. The final finish shall be smooth and without deformation or roughness. To further enhance the structural integrity of the modular body all contact points between the corner assembly and the roof perimeter shall be fully welded.

The corner caps shall further feature a recess for integral installation of the LED corner clearance lights in a manner where they do not protrude outside the surface area.

Y ☒ N ☐

FLOOR CONSTRUCTION

The floor shall be at the lowest level permitted by clearances. The floor structure shall consist primarily of 2" x 3" x .25" thick 6063-T6 extruded aluminum structural box tubing. The finished assembly shall be securely welded to the wall structures and exterior compartments. All critical points shall be reinforced a minimum of four locations on each side with .125" x 6" x 6" gussets. The floor structural members shall be placed on centers not to exceed 16".

The lateral and longitudinal floor structural members shall be 4" high x 2.75 wide 6063-T6 extruded aluminum structural I-beam. These structurals shall be MIG welded together to form the body's "roll cage" and provide maximum support to the chassis frame rails.

Y ☒ N ☐

BODY MOUNTING TO CHASSIS

The body shall be mounted to the chassis utilizing Grade-8 U-bolts. The body shall be isolated from the chassis frame rails using not less than 1/2" thick x 3" wide high density neoprene rubber the full length of the body sub-frame I-beam.

Y ☒ N ☐

BODY DIMENSIONS

The body shall meet the following minimum dimensional requirements:

- | | |
|---|----------------------------|
| 1. Overall length: | 180" |
| 2. Overall width: | 98" |
| 3. Overall height (<i>measured from ground to top of AC</i>):
suspension deviations. | 131" + or - 2" for chassis |
| 4. Interior headroom (<i>measured from floor to ceiling</i>): | 76" |
| 5. Interior length (<i>measured from wall-to-wall</i>): | 173" |
| 6. Interior width (<i>measured from wall-to-wall</i>): | 92" |

Y ☒ N ☐

EXTERIOR BODY COMPARTMENTS

All listed dimensions are interior Left
(Street) Side:

- a. S-1 - Forward of rear wheels: 31"wide x 14" high x 20"deep with single drop-down hinged door
- b. S-2 - Forward of rear wheels: 31"wide x 14" high x 20"deep with single drop-down hinged door

- c. S-3 - Over the rear wheels: exterior rack equipment access 60"h x 21"w
- d. S-4 - Aft of rear wheels: 38"wide x 14" high x 20"deep with single drop-down hinged door

Right (Curb) Side:

- a. C-1 - Forward of rear wheels: Generator compartment minimum 38.5" wide x 26" high x 26" deep with double vertically hinged doors.
- b. C-2 - Curbside entrance door 76"h x 26"w
- c. C-3 - Aft of rear wheels: 38"wide x 14" high x 20"deep with single drop-down hinged door

Y ☒ N ☐

OVERALL APPARATUS HEIGHT WARNING PLATE

A minimum 6" wide x 3" high red plate with white letters shall be prominently displayed on the center of the cab dash that displays the overall unloaded height at the highest point on the apparatus. It shall read "WARNING - (*clearance height at time of delivery*) CLEARANCE".

Y ☒ N ☐

BRIGHT ALUMNUM TREADPLATE ROOF

The entire roof shall have a minimum .125" bright aluminum treadplate welded to the perimeter. All seams shall be continuously welded.

Y ☒ N ☐

SIDE PERSONNEL ENTRANCE DOOR

The side body shall have an insulated minimum 26" wide and maximum available height. It shall be a swing-out type located on the **curbside** (right) of the apparatus body panel for entering and exiting the compartment.

- The outer surface of the door shall be formed of minimum .188" (3/16") 5052-H32 aluminum. The door panel shall be a lap type that completely encapsulates the door opening. The top, bottom and leading edges shall have a slight angled break that turns toward the body surface partially hiding the compression gasket.
- The inner door panel shall be constructed of .125" (1/8") 5052-H32 aluminum forming a box pan that is welded to the door surface panel.
- The door shall be attached to the body with heavy duty .25" diameter pin Type 304 stainless steel continuous hinge with 2" knuckle.
- A hollow bulb-type perimeter gasket shall be attached to the leading edge of the door. The design shall provide for an air tight seal of the door preventing penetration of water and dust.
- It shall be provided with a top and bottom double-catch rotary type latch certified to meet FMVSS206. An exterior and interior stainless steel paddle handle with key lock shall be provided.
- A stainless steel door check shall be provided at the top of the door with 8" swing arm and spring weight set to hold the door open on inclines.
- A polished aluminum drip molding shall be placed over the full width of door opening.

- The inside door header shall incorporate a head bumper pad.

Y ☒ N ☐

DOOR WINDOW

A tinted and tempered minimum 30" high x 18" wide sliding window with screen shall be installed in the personnel entrance door. It shall be set in a clear anodized extruded aluminum frame.

Y ☒ N ☐

INTERIOR DOOR GRAB HANDLE

Located on the inner door panel shall be a curved grab handle to assist in closing the door and as a handrail for entering and exiting the vehicle.

- Construction: stainless steel
- Grab surfaces: friction knurled for secure grasp
- Top length: not less than 16" long
- Angled length: not less than 16" long
- Attachment: not less than six (6) 1/4" stainless steel fasteners

Y ☒ N ☐

BODY WINDOW

A minimum 18" high x 36" sliding window with screen shall be installed in the curbside upper body. It shall be set in a silver powder-coated extruded aluminum frame with 3" radius. The glass shall be 1/4" safety with a solar gray tint.

Y ☒ N ☐

EXTERIOR COMPARTMENT CONSTRUCTION

All exterior compartments shall be constructed of minimum .125" 5052-H32 aluminum plate. All seams shall be continuously welded forming a strong, weather-resistant interior storage area. The compartment shall be welded to the door opening frame and the floor shall be supported in a manner that shall support the intended loads. The floor of the compartment shall be even with the top edge of the door opening creating a sweep-out design to facilitate easy removal of stored equipment and cleaning. Louvered vents shall be installed on the side walls to facilitate air escape for closing the doors and ventilation within the compartment. Minimum 3/8" drain holes shall be provided in the left and right rear corners of the floor. Neoprene rubber bulb gaskets shall be fully encase the door opening providing a sure door seal.

Y ☒ N ☐

GENERATOR COMPARTMENT CONSTRUCTION

The floor shall be reinforced with inlet and outlet air returns meeting specifications of the generator manufacturer for proper cooling.

- The bottom of compartment shall be fully enclosed and shall have openings for cooling and exhaust as recommended by generator manufacturer
- The generator shall be mounted on 3" x 1.25" x 1/4" "C" channel welded to the body superstructure.
- The sidewalls and ceiling shall be lined with lead-lined acoustical foam insulation with heat reflective exterior barrier to prevent penetration of heat into the interior work zone and to deaden noise and acoustical vibration.

Y ☒ N ☐

HINGED COMPARTMENT DOOR CONSTRUCTION

All specified hinged compartment doors shall box-pan type constructed of aluminum shapes.

- The doors shall be a minimum 2.5 thick, including the exterior panel. The door structure shall be aluminum extruded shapes with a thickness of not less than .150".
- The outer door panel shall be a minimum .190" thick providing an overlap design.
- The design shall incorporate a closed-cell neoprene gasket top, bottom and leading edge of the overlap panel creating a seal between the door and the side of the body.
- A second 360 degree, full perimeter bulb gasket shall be installed in the corner of the inner doorframe. The doorframe shall be welded into the side of the body cut-out.
- The hinges shall be full-length continuous type polished stainless steel with heavy duty .250 pin. They shall have offset slots that permit vertical and horizontal adjustment. They shall be bolted to the door assembly.
- Latches shall be automotive rotary type with minimum .50 latch pins. The pins shall be set in oversize holes in the doorframe that allows 360 degrees of adjustment. A cage nut shall be provided on each latch pin that keeps the nut captured should it be threaded completely off the latch pin. The stainless steel paddle handle shall be provided to open the doors. The handle shall have a neoprene gasket that is formed to the handle shape isolating it from the surface of the door. The paddle release mechanism shall also be adjustable using a threaded rod between the paddle handle mechanism and the rotary latch. Double doors shall be provided on the interior secondary door with a paddle release handle.
- A minimum .125" aluminum inner door panel shall be recessed into grooves around the inner doorframe. It shall be attached using stainless steel screws permitting service access to the latch mechanisms.
- A bright aluminum drip molding shall be installed over each door extending past the door opening. It shall not be attached with any fasteners requiring drillings holes in body.

Y ☒ N ☐

POWER DOOR LOCKS ON MODULAR BODY

All specified hinged compartment and entrance doors shall have power door locks.

Y ☒ N ☐

REAR WHEEL OPENING FENDERETTES

Removable mirror finish stainless steel fenderettes shall be attached to the rear wheel opening filler panels. They shall be minimum 12-gauge 304 stainless with a radius flare. Polished aluminum or other types of materials are not acceptable.

Y ☒ N ☐

LOWER BODY RUBRAILS

Removable rub rails shall be installed on the bottom of the body, fore and aft of the rear wheels. They shall be constructed, at a minimum, of extruded aircraft alloy aluminum equal to 6063-T5. They shall be a C-Channel shape measuring approximately 2-1/2" high x 1-1/2" deep. The recess shall permit emergency flashing lights, marker lights, reflectors and, as applicable, reflective tape to be installed and protected from damage. Each end of the rails shall be angled. The rails shall be attached to the body stainless steel fasteners with nylon isolation washers between the rails and the body.

The rails shall have a powder-coat finish, applied prior to drilling any mounting holes. The color shall be silver.

Y ☒ N ☐

ANTENNA MOUNTING RAIL

A Z-channel or rail shall be attached to the roof along the outer perimeter on the roadside and curbside for mounting up to ten antennas on the curbside and ten antennas on the street side for a total of twenty antenna mount provisions.

- Each of the four Z-rail shall be a minimum of 2.75" high x 86" long and provide a 2" mounting surface for future antenna installation.
- The Z-rail shall be constructed of a minimum .125" 5052-H32 aluminum.
- It shall be attached to the roof surface by welding only, no fasteners shall be used in order to eliminate penetration for the roof material and provide an excellent ground plane.
- A waterproof enclosure with a removable lid shall be provided on the street side center of the roof to insure no water penetration into the interior of the vehicle. This tunnel shall provide a minimum 9" x 3" opening into the interior wire-way for ease of coaxial installation. The tunnel shall be constructed of a minimum .125" aluminum.
- Tunnel shall be located over the computer cabinet.
- Drip tray shall be installed below the tunnel

Y ☒ N ☐

FUEL FILLER HOUSING

A cast aluminum fuel filler housing shall be installed on the left rear wheel housing panel. It shall have a hinged door or lid with a bead blast finish. The filler housing flange shall be polished aluminum.

Y ☒ N ☐

DEF FILLER HOUSING

A DEF filler shall be installed within the fuel filler housing on the left rear wheel housing panel.

Y ☒ N ☐

FUEL & DEF FILL IDENTIFICATION PLATES

Next to the fuel fill shall be a sub-surface screen printed polycarbonate label with chrome bezel that reads "ULTRA-LOW SULFUR DIESEL FUEL ONLY".

Y ☒ N ☐

INTERIOR WALLS & CEILING FINISH

The body interior walls, ceiling and floor shall meet the following minimum requirements:

- The interior walls shall be insulated using a minimum 1" Styrofoam plank insulation leaving a minimum 1/2" air insulator effect between the insulation and the interior wall surface. The planks shall be attached to the exterior wall with adhesive.
- The interior ceiling and floor shall be insulated using a minimum 2" Styrofoam plank insulation leaving a minimum 1" air insulator effect between the insulation and the interior ceiling and floor surfaces. The planks shall be attached to the exterior wall with adhesive.
- The ceiling shall be covered with minimum 1/2" thick AC plywood. The side walls shall be covered with minimum 3/8" plywood.
- The interior surfaces of the wall and ceiling shall then be covered with light gray kemlite to reduce ambient noise associated with the confined work environment.
- Hubbell or equal surface mount metal wire raceways with detachable covers shall be installed around the perimeter of the interior body at the ceiling line. The raceway shall provide access to cables and wiring harnesses for future installation of additional communications equipment.

Y ☒ N ☐

INTERIOR CABINET CONSTRUCTION

Cabinets shall be constructed of 100 percent aluminum sheet and extrusions and must be specifically designed for installation in moving vehicles.

- All fasteners shall be zinc plated, stainless steel, or aluminum. Rivets of any type are not to be used. Hinges shall be continuous extruded all aluminum. Applicable shelf brackets are zinc-plated steel.
- All sheet components shall be coated with baked on polyester powder coat. This application shall only be done after forming and fabrication.

The doorframes shall be fabricated from minimum .090" wall extrusions with square cut and coped ends to conceal cut aluminum edges. Miter/folded joints are not to be used. All frame components shall be owner replaceable. All fasteners must be self-locking. Doors shall be formed to a 1" thickness from a single sheet of aluminum. Doors with cut frames around perimeter are not permitted. Material shall be minimum .063" thick at overhead and wall cabinets, and minimum .080" thick at base and closet cabinets. Doors shall be square and flat to 1/16 tolerance.

- ☐ Overhead doors shall receive a mechanical folding hold open mechanism to automatically hold door to an approximate 85-degree opening.
- ☐ All doors shall have full length pivoting handles with self-latching, independently sprung latch mechanism. Doors must be unlatched by pulling only, no separate tabs, latches or handles are permitted. The handle extrusions to receive 204-R1 Class 2 Architectural clear anodized finish.
- ☐ Door hinges shall be secured to frame with self-locking nut and bolt hardware and are owner re-alignable and replaceable without drilling or fabrication work.
- ☐ Where shelves are specified, they shall be constructed of minimum .090" mill aluminum. All sides shall be hemmed over to prevent sharp edges from being exposed. Shelves must include adjustable mounting bracket and securing screw. Shelf slots shall be punched in side. Shelves must be able to be placed across from each other on both sides of a panel in the same mounting slots via self-mating brackets.
- ☐ All cabinets to receive mounting angle brackets at perimeter. All panels are finished on all exposed surfaces, inside and outside, after fabrication.

Y ☒ N ☐

There shall be a one (1) cabinet closet measuring a minimum of 22" wide x 60 3/4" high x 28" deep installed on the front curbside wall. It shall have one hinged access door, and shall have 3 adjustable shelves and a hanging rod for clothing.
Cabinet color shall be TX-Gray 7038.

Y ☒ N ☐

There shall be a one (1) cabinet measuring a minimum of 77" wide x 16" high x 14" deep installed in the upper street side workstations. It shall have two(2) equal size hinged doors.
Cabinet doors shall have dry erase surface.
Cabinet color shall be TX-Gray 7038.

Y ☒ N ☐

A galley cabinet shall be installed at floor level measuring a minimum of 23.75" wide x 25" high x 28" deep. A counter top shall be installed on top of the cabinet constructed of minimum 1-1/4" solid-surface, nonporous homogenous blend of polyester and acrylic alloy and fillers. The exposed edges shall have a rounded "bull-nose" finish. It shall have a granite stone-like pattern and be color coordinated to the interior color scheme. All exposed surfaces shall be sanded and polished. It shall have an opening for a refrigerator. An opening for a refrigerator shall be provided beneath the counter top.
Cabinet color shall be TX-Gray 7038.

Y ☒ N ☐

FILING CABINET

Two (2) Iceberg Aspira black under desk two-drawer file cabinets shall be installed. They shall be constructed of scratch and dent resistant Resinite polyethylene and utilize full extension ball bearing slides. Steel cabinets are not acceptable.

Y ☒ N ☐

COMMUNICATIONS CONSOLE

The two-man communications console shall be not less than 77" (1956mm) long.

- The desktop surface shall be not less than 24" (610mm) deep.
- The desk shall be constructed of minimum 1-1/4" (31.75mm) thick solid-surface, nonporous homogenous blend of polyester and acrylic alloy and fillers.
- It shall be attached to a tubular aluminum sub-frame supported by the walls.
- The surface shall be easily cleaned using conventional cleaning agents.
- The exposed edges shall have a rounded "bull-nose" finish.
- It shall have a granite stone-like pattern and be color coordinated to the interior color scheme.
- All exposed surfaces shall be sanded and polished.
- Below the desk shall be a wiring trough for future routing of cables and harnesses and service.
- A vertical wire-way shall be provided behind the desk area wall extending from the lower wire-way to the upper wire-way that permits simple routing of future requirements for cables and wiring harnesses.

Y ☒ N ☐

A minimum 70 3/4" high x 24" wide x 24" deep electronics rack cabinet shall be installed on the street side wall. Electronic equipment mounting rails shall be installed inside the cabinet set back 3" from the door opening.

Equipment mounting opening shall be 60 1/2" H (38 RU) and 19 1/8" wide.

Rack vent panel located at the bottom of the rack enclosure for cool air supply. Rack fans (3) located at the top of the rack enclosure for hot air exhaust.

Cabinet color shall be TX-Gray 7038.

Y ☒ N ☐

POWER DISTRIBUTION VERTICAL CABINET

Located curbside front shall be a vertical aluminum cabinet formed of minimum .100" aluminum.

- The face of the cabinet shall be removable for service access and wire routing.
- It shall accommodate the circuit breaker and power distribution panel, interior light switches, CO monitor, generator remote start panel and other controls, gauges and switches as required.
- The exterior surface shall be finished with dark gray Zolatone.

Y ☒ N ☐

CONFERENCE TABLE

A minimum 60" (1524mm) long x 30" (762mm) wide conference table shall be installed.

- It shall be constructed of minimum 1-1/4" (31.75mm) solid-surface, nonporous homogenous blend of polyester and acrylic alloy and fillers.
- It shall be attached to a tubular aluminum sub-frame and table support leg.
- A trough shall be provided under the table surface for routing of communications and power cables, if specified.
- The surface shall be easily cleaned using conventional cleaning agents.
- The exposed edges shall have a rounded "bull-nose" finish.
- It shall have a granite stone-like pattern and be color coordinated to the interior color scheme. All exposed surfaces shall be sanded and polished.
- Platform base shall be coated with a gray zolatone finish.

Y ☒ N ☐

SWIVEL LOW-BACK TASK CHAIRS

Two (2) swivel type low-back task chairs with arm rests shall be provided. They shall have, at a minimum:

- Adjustable tilt controls
- 1-touch seat-height adjustment
- Adjustable armrests; and five (5) Casters
- A "bungee" type strap with securing points shall be provided for each chair to secure the chairs against the desk while the vehicle is in motion.

Y ☒ N ☐

BENCH SEAT

A bench seat shall be installed on the street side conference room.

- The seat base shall measure 72" long x 20" deep x 16" high.
- The cushion shall be not less than 71" long by 3" thick. It shall be covered with black ballistic type upholstery over high-density foam rubber.
- The seat cushions shall be hinged using continuous piano style hinge to access storage beneath.
- The seat bases shall be constructed of 5052-H32 aluminum sheet with a powder-coated exterior surface matching all other cabinets.
- Minimum .090" 6063-T5 aluminum structural extrusions with clear anodized finish.
- The backrest cushion shall be installed 8" above the bench and measure not less than 65" long x 20" high x 3" thick. It shall be covered with black ballistic type upholstery over high-density foam rubber.

Y ☒ N ☐

BENCH SEAT

A bench seat shall be installed on the curbside conference room.

- The seat base shall measure 90" long x 20" deep x 16" high.
- The cushion shall be not less than 89" long by 3" thick. It shall be covered with black ballistic type upholstery over high-density foam rubber.
- The seat cushions shall be hinged using continuous piano style hinge to access storage beneath.
- The seat bases shall be constructed of 5052-H32 aluminum sheet with a powder-coated exterior surface matching all other cabinets.
- Minimum .090" 6063-T5 aluminum structural extrusions with clear anodized finish.
- Three (3) piece back rest shall consist of (2) back rest cushion shall be installed 8" above the bench and measure not less than 19" long x 20" high x 3" thick. It shall be covered with black ballistic type upholstery over high-density foam rubber.
- (1) back rest cushion shall be installed 8" above the bench and measure not less than 37" long x 8" high x 3" thick. It shall be covered with black ballistic type upholstery over high-density foam rubber.

Y ☒ N ☐

DRY-ERASE MARKER BOARD

A minimum 36" wide x 20" high white surface marker board shall be installed street side conference room wall. It shall have an anodized aluminum, satin finish frame with a full-length rail across the bottom to accommodate markers and eraser.

Y ☒ N ☐

FLOORING

The floor shall be designed to provide a solid walking surface that can support, without deflection, the weight of the recommended and/or expected personnel load. Personnel weight shall be calculated based on the current federal definition of an average percentile adult male.

- The floor superstructure, beneath the body that is exposed to water spray, shall be completely covered with minimum .050" aluminum sheets and attached with rivets. All seams shall be caulked with non-shrinking and pliable sealant.
- The sub-floor shall be insulated with minimum 2" Styrofoam planking between all floor superstructure cross members.
- All voids exposed to the interior of the body shall be filled with insulation.
- The sub-floor above the insulation (interior exposure) shall be covered with minimum .050" aluminum sheets to act as a secondary barrier.
- Tongue-and-grooved exterior type minimum 3/4" plywood shall be applied on top of the moisture barrier.
- The plywood shall be attached to the floor superstructure with self-tapping countersunk screws. All seams shall be filled and sanded prior to installation of the floor covering.
- The floor covering shall be equal in quality and performance of Lonseal Loncoin II. The material shall conform with ASTM F 1303-95 and surpass the coefficient of friction (COF) as established in ASTM C 1028-89.
- It shall have an embossed coin design anti-slip surface.
- The floor installation shall be seamless full length of the interior body.

- All edges shall be sealed with non-hardening, flexible type sealant to prevent water penetration between the floor and walls.
- Other required standards shall be:
 - ASTM E648-97 Class 1 flame spread per NFPA 253
 - ASTM E662/NFPA 258 Smoke density
 - ASTM D 3884 Abrasion resistance
 - ASTM F970-87 Static load limit
 - ASTM F 137 Flexibility

Y ☒ N ☐

MINIMUM INTERIOR CONSTRUCTION STATEMENT

All requirements specified for the interior design and construction are considered minimum quality levels required for the intended long-term missions of the apparatus. Cabinets and work counters and desks constructed of plywood or other wood byproducts and laminated surfaces shall not be considered as alternatives. Floor materials of less quality than that specified shall not be considered. All specified materials and construction methodologies specified herein are open-market commodities and construction practices and are expected to be adhered to in the final finish of this apparatus. Bids that propose alternative methods must be accommodated by detailed descriptions of the materials and construction methods employed/proposed with documentation attesting to durability.

Y ☒ N ☐

STONE GUARDS, FRONT & REAR CORNER POST

The lower front and rear body corner posts shall be protected with bright aluminum tread plate shaped to fit the rounded corners. The front guards shall line up visually with the bright tread plate on the cab steps (when applicable). The tread plate shall additionally extend, at the same height, inward on the body to cover the lower body skirt. They shall be attached using roundhead drive-rivets. All edges shall be sealed with silver, non-hardening sealant to prevent corrosive agent build-up between the plates and the body.

Y ☒ N ☐

REAR DIAMOND PLATE KICK PANEL

Located on rear body panel shall be an overlay of bright aluminum tread plate extending upward from the bottom of the body a minimum of 24". The perimeter shall be sealed.

Y ☒ N ☐

REAR STEP BUMPER

Bolted to the rear frame supports shall be step bumper constructed to channel steel designed to support a minimum of 600 lbs. of combined weight.

- It shall be covered with minimum .125" bright aluminum tread plate.
- The surface of the tread plate shall be punched providing multi-directional, aggressive gripping surface forming a platform a minimum of 11" deep and minimum 90" wide.
- The gripping surfaces shall be circular in design, a minimum of 1" diameter and on centers not to exceed 4".

Y ☒ N ☐

SIDE ENTRANCE STEP

Manually deployed entrance steps shall be installed under the side entrance door.

- The step shall be a minimum of 24" wide x 8" deep with a maximum 7" drop.
- It shall have an anti-slip surface.
- The step assembly, at a minimum, shall be constructed of formed steel with a powdercoated finish for corrosion resistance.
- Black/Yellow reflective safety tape shall be applied to the exposed sides and front of the step assembly.
- It shall stow as tight against the underside of the body as possible.

WHEEL CHOCKS

ZICO model AC-2 wheel chocks complying with NFPA 1901 and SAE-J-348 shall be provided.

Two (2) ZICO model QCH-2 horizontal holder with mounting hardware shall be provided for securing the wheel chocks. They shall be mounted aft of the driver's side rear wheels.

Y ☒ N ☐

LICENSE PLATE FRAME

Located on the rear body panel shall be a Cast Products #C30004 surface-mount lighted license plate frame. It shall have a polished aluminum finish around the outer flange and bead blasted inner finish.

Y ☒ N ☐

REAR MUD FLAPS

A pair of heavy duty black rubber mud flaps shall be bolted to the rear wheel housing behind the rear wheels.

Y ☒ N ☐

COMPARTMENT MATTING

Turtle-Tile brand black open grate matting material shall be installed in the bottoms of each open compartment floor. The mat surface shall include edge strips on the front.

Y ☒ N ☐

PAINT & GRAPHICS REQUIREMENTS

BODY PAINT

The final finishing of this apparatus shall meet or exceed automotive standards, as follows:

- Minimum paint thickness shall be 2.6 mils, as measured by a Labotron film thickness gauge.
- Paint surface smoothness shall meet a minimum standard of 85 (on a scale of 100) as measured by Positector Model 3000 smoothness gauge, which measures the smoothness of the coat and other irregularities in the surface.

Paint coat Distinctness-of-Image (DOI) shall meet a minimum standard of 75 (on a scale of 100) as measured by an ATI Systems, Inc. DOI meter, which measures the ability of the paint application to reflect images as a mirror does.

All primers and paint shall be 100% lead free.

The apparatus shall be fully sanded on all exterior surfaces with 180 grit to assure removal of all imperfections in metal surface. All surfaces shall be de-greased before and after sanding.

- ☐ All surfaces shall be primed with self-etching zinc-chromate based primer. No liquid etching solutions may be used in order to prevent residual solution from leeching under paint edges and causing flaking.
- ☐ The unit shall be completely sanded following first primer coat with no less than 320 grit so that the top coat of paint can be applied to a smooth surface. All surfaces shall receive a second filler coat of primer.
- ☐ The entire apparatus shall then be painted with SIKKENS acrylic urethane with a clear urethane top coat.
- ☐ The apparatus body shall be painted separately while unmounted to insure full coverage.
- ☐ Body paint color to match the cab color.

Y ☒ N ☐

TOUCH-UP PAINT

One (1) quart of touch-up paint shall be provided for each color applied to the apparatus.

Y ☒ N ☐

UNDERCARRIAGE COATING

After the apparatus has been painted, the entire undercarriage of the chassis frame, cab and body shall be spray coated with a heavy black paint. Coating shall not be applied to exhaust or drive-line components or frame-mounted apparatus components, except brackets or permanently attached equipment.

Y ☒ N ☐

CHEVRON REAR BODY STRIPING

The rear body panel shall be fully covered with 6" Red and Yellow chevron stripe in an inverted "V" pattern.

Y ☒ N ☐

LETTERING AND GRAPHICS ALLOWANCE UP TO \$4000.00

An allowance of \$4000.00 shall be included into the price to cover any lettering or graphics determined at the pre-construction meeting.

Y ☒ N ☐

12VDC ELECTRICAL SYSTEMS

GENERAL REQUIREMENTS:

The following specifications are intended to provide minimum guidelines for the apparatus 12volt electrical power systems. The system shall utilize current industry state-of-the-art multiplexing technology. Any deviations from these minimums must be clearly noted and defined under the "Exceptions" requirements of this bid proposal. Since the specified system utilizes open-market components and are available to all apparatus manufacturers, exceptions to the general design requirements are not acceptable. Any exceptions shall be explained by the applicable paragraph. Bids taking total exception to these minimum requirements shall be subject to rejection.

MINIMUM NFPA 1901 WIRING REQUIREMENTS:

The complete 12-volt wiring system and electrical appliances shall be to modern automotive and NFPA 1901 minimum standards throughout the installation. The system shall comply with all appropriate SAE J1939 and/or J1708 recommended practices. The manufacturer shall supply an installation and components that provides for easy diagnostics and serviceability of the system.

- All required DC power conducting wiring shall be of stranded copper wire of adequate gauge for the function served so as to ensure voltage drop of less than one volt at the appliance under full amperage load. Any wiring routed through the engine compartment, within 18

inches proximity of any exhaust components or other high heat components shall be not less than GXL. As specified, any required strobe lights shall be wired using shielded cable, as recommended by the light manufacturer.

- Any required signal conductors shall be shielded twisted pairs rated by the system manufacturer to carry the multiplex command signals from the switch panel to the control modules.
- The wiring shall be routed in protective nylon HTZL Type 6 300 degree F. Rated loom in all areas. All wiring shall be specially harnessed with wire ties and, where not routed through grommets, shall be clipped to body members with vinyl coated harness clips.
- Where wire passes through sheet metal, rubber grommets shall be used to protect both wiring and wire looms.
- Primary wiring harnesses shall be bench assembled and connections machine welded. Where crimp connections are necessary, the connections shall be made using AMPS or equal connectors with heat-shrink insulators.

Y ☒ N ☐

MULTIPLEXED ELECTRICAL MANAGEMENT SYSTEM:

General Overview Requirements: The apparatus shall be equipped with a fully multiplexed electrical system, no exception. The system shall be compatible with the chassis supplied multiplexed electrical system and fully interfaced using the same diagnostics.

It shall be a peer-to-peer network consisting of all solid state nodes. Each node shall have the ability to control its own inputs and outputs. All inputs and outputs shall be configured into a scalable electrical harness utilizing Deutsche connectors. The nodes must be weatherproof and not require special mounting requirements away from wet environments.

The system, at a minimum, shall be capable of performing the following functions: load management sequencing, switch loads, receive digital and analog signals, perform and report diagnostics, continuously report vehicle status and the system shall be expandable.

"Real Time" data must be capable of being reported and displayed through dedicated operator interface modules.

The multiplex system shall be easily re-programmable and re-configurable by either the factory or a factory authorized service center.

The system shall have the following minimum features:

- Total load management
- Load shedding capabilities (*shall begin load shedding when voltage drops below selected level after a 2-minute period per output.*)
- Load sequencing capabilities
- "On-board" diagnostics readout
- Error reporting

- Full color graphics data display
- Continuous system monitoring and reporting
- Emergency warning light flasher
- Door ajar warning system
- Real time clock

Message Capabilities: The multiplex system shall have the capability to display diagnostics messages such as short or open circuits. The system shall display load shedding levels and also display when a compartment door is not secure or other equipment is not properly stowed, such as light tower.

Real-time Diagnostics: The system shall provide instant message feedback based on an output failure (i.e.: burned out bulb or electrical short). The error message shall remain displayed until such time as the "acknowledge" button is depressed. The output shall turn off whenever there is a short circuit or over current condition and shall not reactivate until the system power is reset.

PC Diagnostics: The system shall incorporate a feature that enables a service representative to troubleshoot, repair and replace nodes in the system, should they for any reason fail. It shall be run via a PC interface and shall monitor all system information. All messages going across the communications bus must be seen on the screen, including analog information. Each node must be capable of being queried for its own voltage drop and capable of obtaining the status of all inputs and outputs from the diagnostics interface.

PC Programming: The system must be programmable at the factory in a language that can be downloaded to a remote service representative's PC or down loader tool with all OEM data, as programmed for this specific apparatus and allow field reprogramming changes as provided by the apparatus manufacturer.

System Troubleshooting Guide: A troubleshooting guide must be provided with each delivered apparatus, placed within the Owner's Manual. The guide shall outline, in simplistic language, how to perform system diagnostics and troubleshooting and how to reset default circuits.

EMI/RFI PROTECTION:

The electrical system proposed shall include means to control undesired electromagnetic and radio frequency emissions. State of the art electrical system design and components shall be used to insure radiated and conducted EMI (electromagnetic interference) and RFI (radio frequency interference) emissions are suppressed at their source.

The apparatus proposed shall have the ability to operate in the electromagnetic environment typically found in fire ground operations. The contractor shall be able to demonstrate the EMI and RFI testing has been done and meets SAE J551 requirements.

EMI/RFI susceptibility shall be controlled by applying immune circuit designs, shielding, twisted pair wiring and filtering. The electrical system shall be designed to full compatibility with lowlevel control signals and high-powered two-way radio communications systems. Harness and cable routing shall be given careful attention to minimize the potential for conducting and radiated EMI/RFI susceptibility.

CONSOLE CONTROLS & FUNCTIONS:

A combination switch and color visual display panel controlling electrical appliances and equipment installed on the chassis and body shall be centrally located in the cab within easy access to the driver. It shall measure not more than 10.25" wide by 7.75" high and be capable of installing in any area of the cab that is convenient to the driver and/or officer positions.

A full color display shall be visible in direct sunlight, but shall not be overpowering during night operations. Once the headlights are activated, the screen shall automatically dim to 50% of its intensity so as not to interfere with night driving operations.

Additionally, the display screen shall have, as a minimum, the following displays:

- System diagnostic controls and alpha/numeric readouts for displaying system defaults or failures
- Compartment Open warning graphics - overhead color depiction of apparatus cab and body that graphically displays which doors are not secured.
- For safety purposes, the following minimum scenario shall be provided: When the apparatus is in the neutral (or parked) mode, the overhead view graphic display of the apparatus shall depict which door(s) are open.
- Once the apparatus is placed into the drive mode a scrolling message shall appear across the top of the Vista display screen and the overhead view graphic display of the door(s) that are open shall flash.

- A beeping sound shall also be activated as a secondary warning to the driver of unsecured door(s).

The control panel shall have four switches on each side of the LCD display screen that performs the following minimum functions:

- LEFT SIDE SWITCHES & LCD DISPLAY:
 - LEFT SCENE LIGHTS (*activates all left 12VDC scene lights*)
 - RIGHT SCENE LIGHTS (*activates all right 12VDC scene lights*)
 - REAR SCENE LIGHTS (*activates all rear 12VDC scene lights*)
- RIGHT SIDE SWITCHES & LCD DISPLAY:
 - VISTA ACK (*overrides Vista alarms*)
 - SPARE
 - SPARE
 - BACKUP CAMERA (*activates automatically in reverse mode or with manual override*)
- Switch functions shall be provided adjacent to each switch on the display screen. When activated, the nomenclature display button shall change colors to instantly identify that the circuit has been activated.
- Lower panel switches below the color LCD monitor display as follows:
 - E-MASTER (*activates all pre-set emergency response warning lights*)
 - BLOCKING OVERRIDE (*deactivates all blocking lights in Zone A or reactivates lights that have shut down in the blocking mode for emergency discretionary purposes*)
 - HOME (*returns the currently displayed screen back to the "Home" screen location*)
 - SYSTEM INFO (*displays system diagnostic menus*)
 - SERVICE INFO (*displays chassis make, model and serial number; engine and transmission serial numbers; oil capacities; service interval recommendations; other information required for routine maintenance; body builders serial number, dealer and/or service contact info; and other pertinent information that may be deemed necessary.*)
 - SPARE
 - HORN/SIREN (*overrides chassis horn button switch to activate designated warning device*)

Y ☒ N ☐

MINIMUM OPERATIONAL SCENARIO TO BE CONTROLLED BY THE MULTIPLEX SYSTEM:

- Warning Light Activation: When the Emergency Response switch is depressed, the system shall determine what needs to happen next by what the engine and transmission is doing. Once the transmission is engaged, the Clear-the-Right-of-Way mode is engaged and all emergency lights are activated.

- Compartment Lights Activation: The compartment lights shall be activated anytime the door is open and when the apparatus is in the neutral or parked position.
- Ground Lights Activation: Ground lights shall be activated by respective upper body scene light switches or whenever the apparatus is placed in the reverse mode of operation to further light the backup zone or when the respective left or right turn signal is activated.

Y ☒ N ☐

ON-BOARD ELECTRICAL SYSTEM DIAGNOSTICS:

Advanced on-board diagnostic messages shall be provided to support rapid trouble shooting of the electrical power and signal system. The diagnostic messages shall be displayed on the VISTA control screen located adjacent to the driver position. The on-board message center shall include the following minimum diagnostic information:

Multiple diagnostics on display with text description. Circuit alerts shall scroll across the top of the screen in a text message.

Simplified warning indicators (from operator's perspective).

Automatic display of further information in order of problem severity.

In addition to a visual message center, the system shall activate status indicators and audible alarms designed to provide warning of problems within any circuit or signal command module. The system shall include, at a minimum, the following attributes and improvements over analog type systems:

- On-board self-diagnostic messages and status indicators.
- Visual confirmation of communication of each Vehicle Power Module and Display Module.
- Automatic self-test on startup with provision for manual diagnostic checks.
- Minimize use of control relays.
- Provide control for NFPA 1901 mandated safety interlocks and indicators.
- Utilize system integration to eliminate redundant wiring and components
- Improve control system reliability by reducing relay and connector contacts.
- Advanced electrical system load management and sequencing system.
- Imbedded service interval information
- Customized software
- Field re-programmable to accommodate changes to the vehicle operating parameters
- Fully documented hardware.

Y ☒ N ☐

SERVICE AND MAINTENANCE DIAGNOSTICS:

- Advanced vehicle service and maintenance shall be assisted with an integral software program.
- The software shall provide troubleshooting tools to service technicians via the VISTA control screen.

- The service and maintenance program shall include the following minimum features:
- Easy to understand diagnostic procedures.
- System simulation and pinging of nodes for status verification.

Y ☒ N ☐

BATTERY SYSTEM:

- The battery system shall be activated anytime the battery switch is in the "ON" position to alert the operator of the status of the battery switch.
- The battery enclosure and system shall be located conveniently to provide for easy service and replacement.
- The original equipment chassis manufacturer shall install a battery cutoff switch that disconnects all battery power to the apparatus, except electronic memory circuits. If the chassis manufacturer does not provide a factory installed battery cutoff switch, the apparatus body manufacturer shall install an extra-heavy-duty on/off battery solenoid switch, rated at a minimum 600 amps continuous, 900 amps momentary rating. The solenoid shall be activated by a paddle type switch installed in cab, accessible from the driver's door.
- The switch shall serve as a master disconnect for the battery system, disconnecting the batteries from the chassis and apparatus appliances. Electronic memory circuits relating to the electronically controlled engine and transmission and other memory sensitive components shall have 12VDC power supplied through a separate bypass circuit that is not disconnected by the battery switch.
- A single green LED light located in the center of the Vista LCD display shall indicate the status of the batteries.
- See Chassis specifications for battery requirements.

Y ☒ N ☐

ENGINE AUTOMATIC HIGH IDLE DEVICE:

- The engine shall be equipped with an electronically controlled device that automatically increases the engine RPM level on demand.
- The system's primary activation shall be by the automatic mode, programmed through the multiplex electrical load management system to activate whenever the system detects voltage output of less than 12.7 volts for more than 30 seconds (or as established by the apparatus manufacturer).
- It shall be capable of manual deactivation or engagement of the transmission or by depressing the foot brake.
- The system shall not activate unless transmission is in the park position.

Y ☒ N ☐

VISTA CONTROL PANEL MOUNTING BRACKET

The VISTA control panel shall be mounted to a Pan-O-Vise heavy duty bracket that permits the screen to be positioned at the discretion of the user.

Y ☒ N ☐

EXTERIOR TEMPERATURE READ-OUT

The exterior ambient temperature shall be displayed on the cab LCD display screen with a continuous real-time update. The sensor shall not be placed in an area where engine or other heat producing equipment shall affect the readout.

Y ☒ N ☐

12VDC VOLTAGE OUTPUT TESTING & DOCUMENTATION

The apparatus low voltage system shall be tested and certified by the manufacturer prior to final delivery. A copy of the testing and successful completion shall be included in the Owner's Manual.

- **Reserve Capacity Test:**
The unit shall be run until all engine and engine compartment temperatures are stabilized and the battery system is fully charged. The engine shall be shut off and the minimum continuous electrical load shall be activated for ten (10) minutes. All electrical loads shall be shutoff after ten (10) minutes and the battery system shall then be capable of restarting the engine.
- **Alternator Performance Test At Idle:**
Minimum continuous electrical load shall be activated while the apparatus is at idle speed. The battery system shall be tested to detect the presence of battery discharge current. The detection of battery discharge current shall be considered a test failure and corrective actions shall be employed.
- **Alternator Performance Test At Full Load:**
The total continuous electrical load shall be activated with the engine running up to the manufacturer's governed speed. The test duration shall be a minimum of two (2) hours. Activation of the load management system shall be permitted during the test. If however, an alarm sounded by excessive battery discharge, as detected by the system, or a voltage of less than 11.7 volts DC for a 12 volt nominal system for more than 120 seconds, it shall be considered a test failure and corrective actions employed.
- **Low Voltage Alarm Test:**
The engine shall be shut off and the total continuous electrical load shall be activated and continue to be applied until the excessive battery discharge alarm is activated. The battery voltage measured at the battery terminals with the load still applied must be above 11.7 volts or the test shall be considered a failure and corrective actions employed.

- Documentation:

At the time of final delivery, an Amp Draw Report complying with NFPA 1901, Section 13-15 shall be completed and inserted into the Owner's Manual. It shall provide the following information:

- Documentation of the electrical system performance test.
- Written load analysis with the following information:
- Nameplate rating of the alternator
- The alternator rating under the conditions specified in NFPA 1901, section 13.3.2.
- The minimum continuous load of each component that is specified per NFPA 1901, section 13.3.2.
- Additional loads that, when added to the minimum continuous load, determine the total connected load.
- Each individual intermittent load

Y ☒ N ☐

DO NOT MOVE TRUCK MESSAGE DISPLAY

To prevent accidents or damage caused by unsecured appendages on the cab and body, the following messages shall be displayed on the cab mounted display screen that are displayed whenever the transmission is shifted out of the neutral position and one or more of the following is detected:

- Street side cab doors are not secured
- Street side body doors are not secured
- Curb side cab doors are not secured
- Curb side body doors are not secured

The above text messages are required in addition to the minimum flashing light and audible warnings required by NFPA 1901. Due to the number of flashing warning lights and audible alarms typically supplied within the confines of the cab, the text messages are considered critical to the safe operation of the apparatus. Thus, no exceptions shall be permitted to this requirement.

Y ☒ N ☐

GRAPHICS DISPLAY

In addition to the text message and flashing lights to warn of non-secured or stowed equipment, an overhead graphic color display shall be visible on the Vista monitor. Whenever a compartment door is not secured, yellow flashing indicators shall depict which doors are not secured including cab, left side, right side.

Y ☒ N ☐

CAB CONSOLE

A Havis-Shields model #C-3010 console with model #C-AP-1395-L accessory packet with lid shall be installed between the front cab seats that shall accommodate a radio control head, siren control head, 12VDC system console panel, maps, note books and etc.

- The design shall not interfere with chassis manufacturer's dash mounted gauges, switches or other options. The console surface shall measure 9" wide x 30" long.
- A book/map storage compartment shall be provided at the back of the console with a minimum 13" long x 8" wide opening. The opening shall have a hinged lid with latch to conform to NFPA 1901, preventing stored books and objects from becoming projectiles should the vehicle become involved in an accident.
- The 12VDC system control panel shall be mounted in the forward section of the console.
- Mounted on the console shall be a flex shaft map light and two (2) recessed 12-VDC power point receptacles with rubber covers.
- Two cup holders
- Arm rest on both sides of console
- There shall be one (1) Havis-Shields siren bracket for mounting of Whelen CenCom CCSRN36 Sapphire series siren in console.

Y ☒ N ☐

DOT CLEARANCE & LED MARKER LIGHTS

The apparatus body shall be equipped with upper side, front and rear LED marker lights. The side and rear of the body shall be provided with reflectors. All lights and reflectors shall conform to D.O.T. and FMVSS minimums for such vehicles of this type. All marker lights shall be incorporated into the headlight circuit of the cab/chassis.

Y ☒ N ☐

LED TAIL LIGHT ASSEMBLY

Two (2) Whelen LED tail surface mounted light assemblies shall be installed on the lower left and right rear body panels. The cluster shall consist of Whelen:

1. C6BTT LED red stop/tail light left and right
2. C6CSC white LED backup light left and right
3. C6T LED amber turn signal left and right
4. All light shall have chrome bezels

Y ☒ N ☐

UPPER SIDE BODY 12VDC SCENE LIGHTS

Two (2) each Whelen M9LZC surface mount LED Opti-Scene lights shall be installed on the roadside (left) and curbside (right) upper sides of the body, one fore and one aft (total of 4). Each light shall be equipped with a Whelen M9FC chrome flange. The scene lights shall have combination 8 to 32 degree internal optic lens. Each left and right pair shall be activated by individual respective switches on the cab control console.

Y ☒ N ☐

UPPER REAR BODY 12VDC SCENE LIGHTS

Two (2) each Whelen M9LZC surface mount LED Opti-Scene lights shall be installed on the upper rear body, one (1) roadside (left) and curbside (right) (total of 2). Each light shall be equipped with a Whelen M9FC chrome flange. The scene lights shall have combination 8 to 32 degree internal optic lens. They shall be activated by individual switch on the cab control console.

Y ☒ N ☐

REVERSE ACTIVATED REAR SCENE LIGHTS

The rear scene lights shall be automatically activated whenever the apparatus is in the reverse mode.

Y ☒ N ☐

REVERSE ACTIVATED SIDE SCENE LIGHTS

The side scene lights shall be automatically activated whenever the apparatus is in the reverse mode.

Y ☒ N ☐

TURN SIGNAL ACTIVATED SIDE SCENE LIGHTS

The side scene lights shall be automatically activated whenever the respective turn signals are activated.

Y ☒ N ☐

LED GROUND LIGHTS

Minimum 6.5" x 3.3" LED ground lights shall be installed under the body. Each light shall produce not less than 675 lumens. They shall mounted on angled stainless steel bracket with a light beam angle of approximately 120 degrees x 50 degrees for improved perimeter light projection in the following locations:

- One (1) each forward of left & right rear wheels
- One (1) each aft of left & right rear wheels
- One (1) under rear step bumper

They shall be activated by park brake activation or when cab or side door is opened.

Y ☒ N ☐

AUXILARY COMPARTMENT LIGHTS

There shall be minimum 4" LED compartment lights installed in compartments ceiling of S-1, S-2, S-3, S4, C-1, and C-3. They shall have a stainless steel trim bezel and produce not less than 300 lumens each. The mounting of the lights shall provide upwards of 77 degrees of light beam into the compartment interior.

Y ☒ N ☐

STEPWELL LIGHTING

A linear LED surface-mount light assembly shall be installed on each step riser.

- It shall be mounted on the side wall out of the primary traffic zone.
- The light shall be mounted inside a polished stainless steel housing.
- Amperage draw shall be not more than 0.15.
- It shall be automatically activated whenever the side entrance door is opened.

Y ☒ N ☐

COMPARTMENT OPEN WARNING & AUTOMATIC LIGHT ACTIVATION

All compartment lights shall be automatically activated when the left or right lock handle is released and any other door not associated with the side compartment locking system is opened.

- The console switch shall be capable of over-riding the automatic system.
- In the event a door is not properly closed and/or secured, a scrolling text message shall be displayed on the bottom of the VISTA display screen as follows:
 - Cab Doors Ajar
 - Roadside Body Door Ajar
 - Curbside Body Door Ajar
- If more than one location is not secured, all doors affected in the above list shall scroll across the bottom of the screen. As each respective door is secured, the text shall disappear from the scrolling alert.

Y ☒ N ☐

COLD CATHODE LIGHT - 12VDC UNDER CABINET

Two (2) minimum 4" round 12VDC LED combination red/white light shall be installed under the street side work station cabinets. The light shall have a 100,000 hour lamp life and draw a maximum of 0.15 amps each. The lights shall be activated by a single double-pole switch located in proximity of the lighted area.

Y ☒ N ☐

LED DOME LIGHTS

Eight (8) Whelen 80CREHCR Super-LED dome lights shall be installed strategically in the interior ceiling.

- They shall be recessed in a chromed bezel.
- The light output shall approximate natural mid-day light providing a more true flesh tone recognition.
- The light shall feature six (6) clear diodes with high/low intensity settings and three (3) red diodes.
- The light shall have a three-way switch on the control panel that provides high and low intensity settings for the clear diodes and separate switch for activation of the red diodes.

Y ☒ N ☐

STREAMLIGHT LED HAND LIGHTS

In accordance with minimum NFPA 1901 requirements, there shall be (4) Stream light Vulcan C4 LED rechargeable hand lights, model 44451, installed (2) in the cab on back wall and (2) in the body to be determined at the pre-construction meeting.

- Light output shall be not less than 80,000 candela peak beam intensity and 145 lumens measured system output with low producing not less than 40,000 candela peak beam intensity and 70 lumens measured system output.
- Reflector shall produce a tight beam with optimum peripheral illumination to aid in navigation.
- They shall have ultra-bright blue taillight LEDs with eight (8) programmable switch functions.
- The chargers shall be 12VDC type and be individually wired to the apparatus through the fused circuit connected directly to the batteries.
- The charger circuit shall not be disrupted when the battery switch is in the "off" position.

Y ☒ N ☐

UPPER ZONE A WARNING LIGHTS

(7) Seven Super-LED warning light shall be install across the upper body panel evenly. (4) Whelen C9LRC red Super-LED warning lights and (3) Whelen C9CS white Super-LED with clear lens and C9FC chromed bezel shall be installed.

Y ☒ N ☐

LOWER ZONE A FRONT CAB WARNING LIGHTS

Two (2) Whelen C7LR red Super-LED warning lights with clear lens and C7FC chromed bezel shall be installed as follows:

- (1) Street side grille
- (1) Curbside grille

Y ☒ N ☐

HEADLIGHT WIG-WAG FLASHERS

The headlights shall be provided with an alternating or pulsating flash mode referenced as a wig-wag mode. It sequence shall be automatically inoperable when the headlights are in the high beam mode. Since the lights exceed the minimum NFPA 1901 requirements, the lights shall be managed by the load manager within the multiplexing system and controlled through the "Blocking Right-of-Way" circuit.

Y ☒ N ☐

LOWER ZONE B & D INTERSECTION WARNING LIGHTS

Two (2) Whelen C7LR red Super-LED warning lights with clear lens and C7FC chromed bezel shall be installed as follows:

- (1) street side fender
- (1) curbside fender

Y ☒ N ☐

LOWER ZONE C REAR BODY WARNING LIGHTS

Two (2) Whelen C6LR red Super-LED warning lights with clear lens and C6FC chromed bezel shall be installed as follows:

- (1) Street side lower rear wall panel
- (1) Curbside lower rear wall panel

Y ☒ N ☐

UPPER ZONE B & D SIDE BODY WARNING LIGHTS

Four (4) Whelen C9LRC red Super-LED warning lights with clear lens and C9FC chromed bezel shall be installed as follows:

- (1) Forward curbside upper body.
- (1) Rearward curbside upper body.
- (1) Forward street side upper body.
- (1) Rearward street side upper body.

Y ☒ N ☐

UPPER ZONE C REAR BODY WARNING LIGHTS

Two (2) Whelen C9LRC Super-LED warning lights with clear lens and C9FC chromed bezel shall be installed as follows:

- (1) Street side upper rear wall panel shall be Blue
- (1) Curbside upper rear wall panel shall be Red

LED BEACON

A Whelen model L32L4F LED beacon shall be mounted on push up pole located on the rear body.

- The LED beacon shall have a published average amp draw of 1.5 amps at 12.8 VDC (3.8 amp peak amp draw).
- It shall allow operation without degradation of intensity or flash rate between 10-16 VDC.
- The electronics shall be completely enclosed within the base, with no parts such as screws, fasteners or wires being exposed to where moisture could cause corrosion with an electrically inert material for moisture, vibration and dust resistance.
- The domes shall feature a smooth outer surface and made of polycarbonate material.
- The domes must mount to the base of the led beacon via screws.
- Lens to be clear
- LED to be green
- Switch to be located on the curb side power distribution panel.

ELECTRONIC SIREN

CenCom Sapphire

A Whelen siren and light control system model # CCSRN36 shall be provided. The CCSRN36 has the ability to control the warning lights and siren from a single keypad. The CenCom Sapphire™ module shall incorporate current siren and light control technology install on an aluminum alloy black powder coated chassis and cover for maximum protection. The CenCom solid state outputs shall consist of one 40 Amp, two 20 Amp, four 10 Amp, and four .250 Amp. The output for the Contact Relay shall be one 10 Amp. All fuses are included with the system. The CCSRN36 shall have the ability to connect and operate a WeCan lightbar. Phoenix style connector shall be used to connect the WeCan lightbar to the CCSRN36. The CCSRN36 shall have the ability for four positive or ground activated inputs including a horn ring input. The CCSRN36 shall have the ability to operate a maximum of two 100 watt siren speakers. Adjustable PA and radio repeat volume potentiometers are located on the CenCom module. The CCSRN36 shall have a LED traffic advisor indicator and LED output indicators located on the front of the CenCom module.

The CCSRN36 shall include an eight push buttons, three position slide switch, and seven position rotary knob control head. The control head shall include a manual button and Air horn button with three traffic advisor switches. The control head shall include standard function labels for the push buttons. The control head housing and cover shall be made of a black polycarbonate. The front controller overlay shall consist of a velvet Lexan with a blue matte finish. The control head shall have adjustable backlighting. The CCSRN36 shall include a CAT-5 cable to connect the control head to the amplifier control module. PA microphone with plug in connector and 20' microphone cable are included with the CCSRN36. The CCSRN36 shall meet SAE, California XIII, and NFPA requirements. The CCSRN36 has a five year factory warranty. The control head shall be able to mount has a bail strap mount or a console mount. Mounting hardware and programming software are included with the CCSRN36.

Voltage: +12v

Size : CenCom Module: H=2.37", W=6.16", D=4.88"

Control Head: H=3.66", W=6.93", D=2.15"

Amp Draw: 80 Amps Maximum

Y ☒ N ☐

HORN/SIREN SWITCH

A switch shall be provided on the control console that permits the driver to select activation of either the chassis OEM horn or the siren from the steering wheel horn button.

Y ☒ N ☐

SIREN SPEAKER

One (1) Cast Products SAD3815-17FSD-1, 100-watt speaker shall be mounted through the street side (left) front bumper contour.

Y ☒ N ☐

ATOMIC DIGITAL CLOCK

A minimum 11.75" x 12" atomic clock shall be installed on the conference room rear wall.

- It shall have a minimum 4" digital time display for visibility anywhere within the compartment zones.
- The clock shall be capable of automatically setting itself to the US Atomic Clock.
- It shall daily search for the Atomic Clock signal and shall not require resetting to accurate time.
- It shall display time, seconds, date, outdoor temperature and indoor temperature.
- The temperature sensor shall be wireless from the sensor probe.
- The clock shall also be capable of automatically setting itself to daylight savings time.

Y ☒ N ☐

SECURE IDLE OVERRIDE SYSTEM

An ignition key override system shall be installed that shall allow for the removal of the ignition key, leaving the engine running. The system shall kill the engine if the brake is pressed or if the transmission selector is moved from the park position.

Y ☒ N ☐

CAB MOUNTED 12VDC TERMINAL STRIP & FUSE BLOCK

A 6-circuit terminal strip and fuse block shall be installed in the cab.

- It shall be powered from the chassis battery system using minimum 8-gauge wiring for subsequent connection of radios and other auxiliary equipment.
- The strip shall have a total of six (6) terminal points and fuse blocks that shall accept either ATC fast acting blade type fuses or plug-in style circuit breakers.
- Each circuit shall be capable of handling up to 30-amperes.
- The outlets and fuse blocks shall be mounted behind a clear insulating cover with the fuse blocks accessible from the face of the cover.

Y ☒ N ☐

BODY MOUNTED 12VDC TERMINAL STRIP & FUSE BLOCK

A four(4)-circuit terminal strip and fuse block shall be installed in the equipment rack.

- It shall be powered from the chassis battery system using minimum 8-gauge wiring for subsequent connection of radios and other auxiliary equipment.
- The strip shall have a total of six (6) terminal points and fuse blocks that shall accept either ATC fast acting blade type fuses or plug-in style circuit breakers.
- Each circuit shall be capable of handling up to 30-amperes.
- The outlets and fuse blocks shall be mounted behind a clear insulating cover with the fuse blocks accessible from the face of the cover.

Y ☒ N ☐

BODY 12VDC POWER POINT RECEPTACLES

Located in the street side work station shall be four (4) recessed power point receptacles for powering a cell phone charger and other 12VDC equipment. The main power circuit shall be protected by a 15 amp circuit breaker. An attached cover shall protect the opening of the receptacle when not in use. Two (2) left side workstation and Two (2) right side work station.

Y ☒ N ☐

USB CHARGING PORTS

Two (2) USB charging ports shall be installed in the cab console and left and right side of street side work stations for a total of six. It shall provide a 2.1 amp and 1.0 amp DC power port for charging a smartphone and/or tablet from the chassis 12VDC power supply. A built-in LED indicator shall indicate when the device is powered. The ports shall be reverse polarity protected.

Y ☒ N ☐

BACKUP ALARM

A backup alarm rated at not less than 102 DBA shall be installed under the rear of the apparatus body that meets minimums requirements of NFPA 1901. It shall be automatically activated whenever the transmission is in the reverse mode of operation.

Y ☒ N ☐

SAFE FLEET BACKUP SAFETY SYSTEM

An RVS-115 backup safety system shall be installed with four (4) sensors mounted in the rear tailboard of the vehicle and an LCD display with speaker mounted in the cab. The system shall be activated when driver switches the transmission into reverse. The system shall alert the driver of potential obstacles. The audio pulse intensity shall increase and the audio frequency change as the vehicle backs closer to the obstacle. Location of the LCD display shall be determined at the preconstruction meeting.

Y ☒ N ☐

REAR VISION COLOR CAMERA SYSTEM

A color camera shall be installed on the upper rear body.

- The camera shall provide high-resolution Color and be mounted in an anti-corrosion aluminum alloy housing.
- Pixel resolution of the camera shall be not less than 510(H) x 492(V). It shall be IP68 rated for water and dust protection.
- The camera shall feature a photo sensor and (16) infrared LEDs for low-light/no-light conditions and shall have a minimum 110-degree viewing angle.
- The image shall be displayed on the LCD Vista color screen in the console.
- It shall be automatically displayed whenever the vehicle is in the reverse mode of operation or manually activated by a separate activation switch location on the Vista control panel.

Y ☒ N ☐

TELESCOPING POLE FOR WEATHER GREEN COMMAND BEACON

A five (5) foot push-up type pole shall be bolted to the rear of the apparatus body. Positioning shall permit the command beacon to be positioned, in the fully extended position, as high above the body as position. At a minimum, the pole shall be constructed of 6063 aluminum, deep etched and clear anodized to a 204-R1 specification and shall comply with Military Specification 171 (Mil-A8625c-class1). The pole shall rotate 360 degrees left and right.

Y ☒ N ☐

CARBON MONOXIDE MONITOR

A wall mounted carbon monoxide (CO) monitor shall be installed in the personnel compartment next to the entrance door to monitor and alert of accidental build-up of this deadly gas within the confines of the compartment without detection. The monitor shall be placed near the entrance door of the specified compartment.

Y ☒ N ☐

CAT6/RJ45 DATA JACK

Two (2) CAT6/RJ45 phone jack shall be installed above the work surface at each workstation.

Y ☒ N ☐

LCD MONITOR - 20"

Two (2) minimum 20" HD monitors shall be installed on the street side workstations. They shall feature not less than a 1600 x 900 resolution and 1000:1 contrast ratio.

Y ☒ N ☐

INSTALL CUSTOMER SUPPLIED RADIO

The purchaser shall supply the final stage manufacturer with a customer supplied radio for subsequent installation in the completed apparatus. Brand and Model shall be determined at the pre-construction meeting.

- The radios shall be shipped to the manufacturer upon notification of start of production.
- The radios shall be shipped complete with radio manufacturers supplied mounting brackets and all wiring harnesses.
- The manufacturer shall connect the radio power interface to an isolated circuit direct from the chassis battery.
- Measures shall be taken to insure minimal RFI.
- Apparatus manufacturer shall not be responsible for tuning of the antenna or frequencies.

Y ☒ N ☐

ANTENNA COAXIAL PRE-WIRING

Two (2) two-way radio coaxial cable shall be routed from cab chassis roof to the center cab console on the floor. The termination point at the radio site shall have a PL259 connector soldered to the coaxial. The termination point at the antenna site shall be supplied with 1-1/8" brass base for a Motorola antenna.

Twenty (20) two-way radio coaxial cables shall be routed from modular roof to the computer cabinet located interior street side wall. The termination point at the radio site shall have a PL259 connector soldered to the coaxial. The termination point at the antenna site shall be supplied with 1-1/8" brass base for a Motorola antenna.

Y ☒ N ☐

VOICE INTERCOM

A Fire Research model ICA400 voice intercom shall be provided that permits two-way voice communication between the master and remote monitoring stations.

- The two-way intercom system shall include a master station with volume and Push-To-Talk (PTT) controls and a remote station that provides hands-free operation.
- The remote station shall always be in the transmit mode unless interrupted by a transmission from the master station.
- The master intercom station shall be installed on the center cab console. The remote station shall be installed on the street side workstation.

Y ☒ N ☐

120/240VAC ELECTRICAL SYSTEM REQUIREMENTS

General Requirements: The complete wiring and electrical installation shall conform to the current National Electrical Code (NECA) applicable to mobile applications, except where superseded by NFPA. #1901 Chapter 19 standards. All electrical equipment installed shall be suitable for intended use and type locations (wet, dry, or underbody and chassis).

The system shall be installed or supervised by a licensed electrical technician(s) to assure the required level of safety and protection to the fire apparatus operators.

The wiring, electrical fixtures and components shall be to the highest industry quality standards available on the open market. The equipment shall be the type as designed for mobile type installations subject to vibration, moisture, and severe continuous usage. For this reason, use of any solid conductor (non-stranded) wiring, such as Romex, shall not be accepted.

The following electrical components and wire shall be the minimum acceptable standard for this type of apparatus:

- **Wiring:** All AC electrical primary wiring rated at 20 amps and higher shall be fine stranded copper type THHN. THHN cable is much more flexible for mobile routing applications and is required in lieu of industry standard THH, which is not as flexible. The wire shall be sized to load and circuit breaker rating.

Electrical cables or conduit shall not be attached to chassis suspension components, water, fuel or brake lines, 12VDC wiring or harnesses and not be within 12 inches of any exhaust system component or 6 inches of fuel lines.

- **Circuit Breaker Box:** The circuit breaker box shall be equal in quality to Square D with a hinged cover or door. All circuit breakers shall be switch rated and sized to load demand.
- **Receptacle and Inlet Devices:** Any exterior outlets specified herein shall be mounted in cast aluminum or zinc die cast boxes with weather resistant snap open covers. An isolation gasket shall be used whenever any portion of the outlet or covers comes into contact with a body panel.

Where subjected to wet locations, the receptacle outlet and inlet devices, including those on hardwired remote power distribution boxes, shall be of grounding type provided with a

wet location cover and installed in accordance with Section 210-7 Receptacles and Cord Connections of the NEC.

All receptacles located in wet locations shall be installed in a plane from vertical not less than 24 inches from the ground.

All receptacles located in a dry location shall be of the grounding type.

All receptacles shall be marked with the type of line voltage (120 volts or 240 volts) and the current rating in amps. If the receptacles are direct current, or other than single phase, they shall be so marked.

- Labeling: All circuit breakers, outlets, fixtures, or appliances shall be properly labeled identifying voltage and amperage rating. The labels shall display a minimum 14 pt. letters or numerals and be of a contrasting color to the apparatus background surface to which they are affixed. If imprinted labels are utilized, they shall have a clear Mylar type surface coating that prevents smearing or damage by weather or petro-chemicals.
- Load Balance: To provide proper loading and efficient generator operation, the 120 volt wiring shall be split to permit a balanced load condition.
- Grounding: Grounding shall be in accordance with Section 250-6 "Portable and Vehicle Mounted Generators" of the NEC. Ungrounded system shall not be used. Only stranded or braided conductors shall be used for grounding and bonding.

An equipment grounding means shall be provided in accordance with Section 250-91 (Grounding Conductor Material) of the NEC.

The grounded current carrying conductor (neutral) shall be insulated from the equipment grounding conductors and from the equipment enclosures and other grounded parts. The neutral conductor shall be colored white or gray in accordance with Section 200-6 (Means of Identifying Grounding Conductors) of NEC.

In addition to the bonding required for the low voltage return current, each body and driving or crew compartment enclosure shall be bonded to the vehicle frame by a copper conductor. This conductor shall have a minimum amperage rating of 115 percent of the nameplate current rating of the power source specification label as defined in Section 31015 (amp capacities) of the NEC. A single conductor, properly sized to meet the low voltage and line voltage requirements shall be permitted to be used.

All power source system mechanical and electrical components shall be sized to support the continuous duty nameplate rating of the power source.

- Over-current Protection: The conductors used in the power supply assembly between the output terminals of the power source and the main over current protection device shall not exceed 144 inches in length, unless used on trailer applications.

For fixed power supplies, all conductors in the power supply assembly shall be type THHN, THW, or use stranded conductors enclosed in nonmetallic X-Flex, Liquid Tite or equal flexible conduit rated for a minimum of 194 degrees F.

For portable power supplies, conductors located between the power source and the line side of the main, over-current protection shall be Type SOW or Type SEO with suffix WA flexible cord rated for 600-volts at 194 degrees F.

- Wiring Methods: Fixed wiring system shall be limited to the following:
- Metallic or nonmetallic X-flex, Liquid Tite or equal flexible conduit rated at not less than 194 degrees F.
- Type SOW or Type SEO cord with a WA suffix, rated at 600-volts at not less than 194 degrees F.
- Electrical cord or conduit shall not be attached to chassis suspension components, water or fuel lines, air or air brake lines, fire pump plumbing, hydraulic lines, exhaust system components, or low voltage wiring. In addition, the wiring shall be run as follows:
- Separated by a minimum of twelve (12) inches, or properly shielded from exhaust piping.
- Separated from fuel lines by a minimum of six (6) inches.
- Electrical cord or conduit shall be supported within six (6) inches of any junction box and at a minimum of every 24-inches of continuous run. Supports shall be made of nonmetallic materials or corrosion protected metal. All supports shall be of a design that does not cut or abrade the conduit or cable and shall be mechanically fastened to the vehicle.
- Wet Locations: All wet location receptacle outlets and inlet devices, including those on hardwired remote power distribution boxes, shall be of the grounding type provided with a wet location cover and installed in accordance with Section 210-7 "Receptacles and Cord Connections" of the NEC.

All receptacles located in a wet location shall be not less than 24 inches from the ground. Receptacles on off-road vehicles shall be a minimum of 30 inches from the ground.

The face of any wet location receptacle shall be installed in a plane from vertical to not more than 45 degrees off vertical. No receptacle shall be installed in a face up position.

- Dry Locations: All receptacles located in a dry location shall be of the grounding type. Receptacles shall be not less than 12 inches above the interior floor height.

All receptacles shall be marked with the type of line voltage (120-volts or 240-volts) and the current rating in amps. If the receptacles are direct current, or other than single-phase, they shall be so marked.

- Listing: All receptacles and electrical inlet devices shall be listed to UL 498, Standard for Safety Attachment Plugs and Receptacles, or other appropriate performance standards. Receptacles used for direct current voltages shall be rated for the appropriate service. □

Operational Test to NFPA 1901, section 23.16: The following test shall be performed by the apparatus manufacturer prior to final delivery to test and certify that the power source and any devices that are attached to the line voltage electrical system are properly connected and in working order.

- The prime mover shall be started from a cold start operation and the line voltage electrical system loaded to 100 percent of apparatus load or nameplate rating of power source whichever being the lesser. The following information shall be recorded:

The cranking time until the prime mover starts and runs, if applicable.

- The voltage, frequency, and amperes at continuous full rated load.
- The prime mover oil pressure, water temperature, transmission temperature, hydraulic temperature, and the battery charge rate, as applicable.
- The ambient temperature and altitude.
- The power source shall be operated at 100 percent of apparatus load or of its nameplate voltage rating (whichever is the lesser) for a minimum of two (2) hours in accordance with NFPA 1901 and U.L. (See U.L. testing requirements).
- When the line voltage power is derived from the vehicles low voltage system, the minimum continuous electrical load as defined in Chapter 9 shall be applied to the low voltage electrical system during the operational test. Any termination of line voltage power by the low voltage load management system shall be noted and the duration of the periods of line voltage power source shutdown shall be recorded.
- The results of the U.L. test listed in this section shall be supplied to the purchaser at the time of delivery (*portable generators are excluded*).
- Wiring Schematics: An electrical wiring schematic diagram generated by a CAD program shall be provided with the completed apparatus. It shall be an as built schematic listing the agency name and the serial number of the body. An indicative schematic shall be enclosed with the bid response.

Y ☒ N ☐

DIESEL GENERATOR - 8.0KW

Manufacturer:	Power Tech
Model:	PT-8000
Voltage:	120/240
Amperage:	66/33
Alternator:	brushless with automatic voltage regulator
Engine:	Diesel, water-cooled Kubota
Engine type:	4-cycle, indirect-injection

Cylinder arrangement:	3 inline
Rated RPM	1800
Maximum horsepower, continuous	13.6
Governor:	Mechanical
Air Cleaner Type:	Dry
Filters:	spin-on oil and fuel
Exhaust:	stainless steel flex with exhaust silencer
Engine and alternator cooling:	fan guards with suction fan
Engine Shut-down modes:	Automatic low oil pressure, high water temperature
Battery charging alternator:	12-volt, 30 amp
Fuel prime pump:	Electric fuel lift
Recommended fuel:	#2 diesel, low sulfur
Mounting:	4-point with vibration isolators
Serviceability:	one-sided (air filter, fuel filter, lube oil filter, oil drain, oil check, and water drain)
Remote control panel:	One-touch remote start trigger; DC power supply voltage measurement; AC output voltage and current measurements; AC outlet frequency measurement; blink code fault reporting; oil pressure display; coolant temperature display; event recording; load profiling
Fuel consumption:	0.72 gal/hr. 0.60 gal/hr. 0.38 gal/hr. 0.25 gal/hr.
Weight:	420 lbs.
Dimensions:	Length: 36.4" Width: 24.9" Height: 19"

The exhaust shall terminate and exit on the street side of the vehicle.

Y ☒ N ☐

A remote panel shall be installed cab console. It shall feature a hour meter and start/stop switch.

Y ☒ N ☐

A remote panel shall be installed on the interior power distribution panel. It shall feature an hour meter, start/stop switch, analog coolant temperature and oil pressure gauge. Y ☒ N ☐
Four (4) air bag type vibration isolators shall be installed between the generator assembly and the floor.

Y ☒ N ☐

A heated fuel water separator shall be integrated between the fuel tank and the engine.

Y ☒ N ☐

The muffler and any exposed exhaust piping that is exposed in front of the generator installation shall be provided with a thermal blanket.

Y ☒ N ☐

UL CERTIFIED DIELECTRIC VOLTAGE WITHSTAND TEST

The generator and all related electrical systems shall be independently tested and certified in writing by Underwriters Laboratories (UL). The testing shall conform to NFPA 1901, Chapter 23.16.2 requirements.

The wiring and permanently connected devices and equipment shall be subjected to a dielectric voltage withstand test of 900 volts for 1 minute.

The dielectric tester shall have a 500 volt-amperes (VA) or larger transformer, with a sinusoidal output voltage that can be verified.

The testing shall be performed by the apparatus manufacturer during final quality control assurance test prior to final delivery.

The test shall be conducted as follows:

- Isolate the power source from the panel board and disconnect any solid state low voltage components.
- Connect one lead of the dielectric tester to all the hot and neutral busses tied together.
- Connect the other lead to the fire apparatus frame or body.
- Close any switches and circuit breakers in the circuits.
- Apply the dielectric voltage for 1 minute in accordance with the testing equipment manufacturer's instructions.

The electrical polarity of all permanently wired equipment, cord reels, and receptacles (as applicable) shall be tested to verify that wiring connections have been properly made.

Electrical light towers, floodlights, motors, fixed appliances, and portable generators (as applicable) shall be operated at their full rating or capacity for 30 minutes to ensure proper operation.

Testing procedures shall be conducted as outlined in NFPA 1901, Chapter 23.16.5.3. ***The results of each test shall be recorded, with the name of the end user on the certification certificate and provided with the delivery documentation.***

Y ☒ N ☐

120/240VAC POWER DISTRIBUTION CENTER

The line voltage electrical system shall comply with applicable NFPA 1901 standards and with applicable sections of the National Electrical Code #70 standards. Line voltage carrying equipment downstream of the power source shall be "listed" (where applicable) in accordance with manufacturer's instructions.

A 120/240VAC power distribution center shall be installed on the power distribution cabinet. The power enclosure shall accommodate the following:

- Power Distribution Panel shall be mounted on swing out service access door
- 120VAC breaker switches with legends in three rows (24-total)
- 240VAC breaker switches with legends (2, plus Main)
- 100-amp transfer switch with legends from generator to shore power
- Digital ammeter/voltmeter with low and high voltage alarm
- Line voltage test selector switch
- Reverse polarity warning indicator light

A 100-amp main over current protection device shall be provided that is either incorporated in the power source or is connected to the power source by a power supply assembly.

- ☐ The size of the main over current protection device shall not exceed 125 percent of the nameplate amperage rating on the power source specification label or the rating of the next larger available size over current protection device where so recommended by the power source manufacturer.

Y ☒ N ☐

GROUND CABLE AND CLAMP 15FT

(1) Spring rewind reel with 15 feet of 300 amp ground cable and a clamp shall be furnished along with a 24" grounding rod.

Y ☒ N ☐

50-AMP SHORE-POWER INLET

A 50 amp, 240VAC inlet equal to Bryant 6374CR and connector equal to Bryant 6364CR shall be installed on the street side exterior body. It shall be connected directly into the main circuit breaker panel. The shore-power connection shall power all 240/120VAC circuits on the apparatus. A metallic tag reading SHOREPOWER shall be installed above the inlet.

Y ☒ N ☐

DROP CORD TO SHOREPOWER

A minimum 50-ft long power cord rated at minimum 50-amps shall be supplied with the completed apparatus. It shall be a male twist-lock outlet on one end and a female receptacle on the opposite end.

Y ☒ N ☐**AUTOMATIC POWER TRANSFER RELAY**

There shall be an automatic power transfer relay incorporated in the 120/240VAC electrical system that automatically transfers power from the shore-power input to the power distribution panel that prevents back feed into the generator whenever the shore-power is plugged into an outside power source. The circuit shall be rated at 50 amps and power the circuits for the battery charger.

Y ☒ N ☐**ISOLATED BODY BATTERY SYSTEM**

A separate battery system shall be installed within the body that permits totally separate operations of all 12vdc system (except emergency and ICC lights) on the body.

The system shall include two (2) Optima brand Yellow-Top series batteries rated at 950 CCA each

- ☐ Installed in an exterior body within a noncorrosive battery box.
- ☐ The batteries shall be wired using 1/0 cable with heat shrink on all terminal points.
- ☐ A 80-amp battery charger/conditioner with a micro-processor-controlled system that constantly monitors the battery voltage and use to ensure a rapid, yet safe re-charge shall be connected to the generator and shore-power connections and shall provide power to all body mounted 12vdc components, except emergency and DOT lights.
- ☐ The batteries shall be provided an interconnect controller that is used to charge two batteries from a single or multiple power sources.
- ☐ The separator logic disconnects the two circuits when the voltage falls below battery resting voltage.
- ☐ The bi-stable solenoid remains open or closed without parasitic coil loss.
- ☐ The solenoid is rated for 300 Amps continuous and 2400 Amps momentary overload with 500 VAC minimum electrical isolation.
- ☐ The solenoid contact voltage drop is 0.15 Volts at 300 Amps resistive load with a rated life of 50,000 cycles at full load.

Y ☒ N ☐**EXTERIOR DUPLEX OUTLET**

Two (2) 20 amp (5-20), 120VAC duplex outlet mounted in a weatherproof exterior housing with spring-loaded covers and wired with 12/3 THNN wire shall be installed on the rear body.

- They shall be protected with a GFI circuit breaker.
- A sub-surface screen printed polycarbonate label with chrome bezel reading "120VAC-20A" shall be installed above each outlet.

Y ☒ N ☐

INTERIOR DUPLEX OUTLET

Ten (10) 20 amp, 120VAC house type duplex outlet wired with 12/3 THNN wire shall be installed in the body determined by the interior layout.

- They shall be protected with a GFI circuit breaker.
- Cover plate shall be stainless steel.
- A sub-surface screen printed polycarbonate label with chrome bezel reading "120VAC-20A" shall be installed above each outlet.

Y ☒ N ☐

OUTLETS, 120VAC PLUG MOULDING STRIP

One (1) 120VAC, 15 amp, GFCI protected plug molding strip outlets with plugs spaced approximately 6" apart shall be installed as follows: Equipment Rack

- The plug molding strip shall have an anodized aluminum exterior finish.
- A sub-surface screen printed polycarbonate label reading "120VAC-15A" shall be installed on the outlet strip.

Y ☒ N ☐

POP-UP POWER & COMMUNICATIONS PORT

Located on rear conference room table shall be a power and communications port with the following functions:

- (2) 110V, 15-amp power ports
- (1) CAT 6 data port - routed to front communications console
- (1) VGA 15-pin connector routed to monitors
- It shall feature a one-touch pop-up reveal panel and flush mount in the tabletop surface.
- (1) dual port USB power port

Y ☒ N ☐

120VAC ROOF MOUNTED AIR CONDITIONER

One (1) Coleman Polar Mach model 9204 roof-mounted 120VAC RV type air conditioners rated at a minimum of 15,000 BTU each shall be provided for cooling/heating of the interior workspace.

- a. The system shall be provided with a circuit that permits use from either the on-board generator or the shore-power outlet.
- b. The unit shall be controlled by a wall mounted thermostat. The unit shall be equipped with a 100% condensate water removal system.

Y ☒ N ☐

120V WALL MOUNT HEATER

There shall be a 1500 watt, 120 volt heater flush mounted into the wall of the personnel compartment. It shall be thermostatically controlled.

Y ☒ N ☐

REFRIGERATOR/FREEZER

A Norcold model DE-0751BB combination 12VDC and 120VAC refrigerator/freezer shall be installed. It shall feature an easy access door on the front with an interior volume of 2.7 cu. ft. The unit shall act as refrigerator or freezer, based on the thermostatic setting. The compressor shall be hermetically sealed and self-lubricating. The system refrigerant shall be ozone safe. The unit shall automatically switch from DC to AC power, when AC power is available.

Y ☒ N ☐

MISCELLANEOUS EQUIPMENT & SERVICES REQUIREMENTS

ABC FIRE EXTINGUISHER

A Badger or equal 5 lb. ABC rated dry chemical fire extinguisher shall be provided complete with wall mounting bracket.

Y ☒ N ☐

DOT SAFETY KIT

Prior to departure from the manufacturing site, the completed apparatus shall have a DOT compliant safety kit placed in the cab within reach of driver containing the following equipment: one set of triangle markers; one (1) 12v flashlight; one (1) 2-1/2# BC fire extinguisher; and plastic carrying case.

Y ☒ N ☐

OWNER'S MANUAL

An Owner's Manual shall be provided in two formats: (1) a hardcopy inside a 3-ring binder and digital version on a CD ROM. They shall, at a minimum, contain the following data:

- Customer name, address and contact information
- Customer Service contact information
- All "as wired" schematics for both 12VDC and 120/240VAC systems.
- Alternator SAE Rating
- Electrical system amperage draw report
- CD-ROM of electrical system programming and schematics stored in a plastic sleeve.
- Battery quantity, size and cranking amp rating
- Apparatus manufacturer's name, model and production identification number
- Chassis manufacturer's name, model and serial number
- Engine make, model, horsepower rating
- Engine oil type and capacity
- Transmission make, model, fluid capacity
- GAWR of front and rear axles
- Front and rear tire size and total rated capacity in pounds
- Completed apparatus weight certificates (front axle, rear axle, total)

- Completed apparatus weight distribution (at time of delivery)
- Fuel type and tank capacity
- Urea tank capacity (if applicable)
- U.L. certification documents (as applicable)
- Operational and troubleshooting procedures.
- Paint brand and code(s)
- Key codes (cab, body, ancillary compartments)
- All data, operations manuals, warranty information and schematics, as supplied by installed component manufacturers.
- Body, frame and paint warranty documents.

The manufacturer's and applicable dealer's telephone numbers and contact person(s) names shall be supplied within the binder.

Y ☒ N ☐

FUEL TANK FILLED AT DELIVERY

The fuel tank shall be filled upon final delivery to the Nassau County DPW.

Y ☒ N ☐

FINAL DELIVERY

The completed apparatus shall be delivered, under its own power, to the location specified at the pre-construction conference.

Y ☒ N ☐

PRE-CONSTRUCTION CONFERENCE

Immediately after notification of contract award, the successful bidder shall schedule a preconstruction conference between the appointed representatives of the purchaser and the contractor. The conference shall be held not later than 30 days after notification at the Nassau County Fire Communications Office. The contractor shall present a set of final engineering construction drawings and line item production shop order complying with the specifications outlined herein. Should the purchaser deem that the contractor has not properly interpreted the specifications or does not intend to manufacture the emergency vehicle as specified, appropriate corrective actions shall be agreed upon and the conference shall be rescheduled. Should the purchaser determine, at the second conference, that the contractor remains unable to meet the intent of the specification; the contract may be deemed null and void.

Y ☒ N ☐

FACTORY FINAL INSPECTION

A factory final inspection shall be conducted prior to release of the completed apparatus for delivery. The inspection shall verify compliance to the specifications and fit and finish. Expenses for travel for (3) persons shall be included in the contract price and include airfare; hotel accommodations; rental car (as applicable); and meals while at the factory. Upon correction of any discovered discrepancies, the vehicle shall be released for delivery under its own power to the appointed destination. A final acceptance inspection shall be conducted upon arrival to ensure all discovered discrepancies have been properly corrected.

Y ☒ N ☐



Mobile Command Unit

for the

Nassau County Fire Marshal

Communications Division

8/8/18
Bid Opening 11:00 AM

MINIMUM CAB AND CHASSIS REQUIREMENTS

2018 or newer Ford F550

2018 Ford F-550 4 X 4 Super Duty Two Door Chassis

F5H	F-550 REGULAR CAB DRW 4 X 4
	193" WB 108" CA
660A	XL Trim Package Includes:
	HD Vinyl 40/20/40 Bucket Seats
	40 gallon fuel tank aft of rear axle
	Grille Black Painted
	Solar Tinted Windows
	Air Conditioning Manual, Single Zone
	Tow Hooks Front (2)
525	Cruise Control (Steering Wheel Mounted)
90L	Power Equipment Group windows and door locks
99T	Engine: 6.7L 4V OHV Power Stroke, V8 Turbo Diesel B20
44W	Transmission: TorqShift 6-Speed, Automatic, Includes SelectShift.
X8L	Limited Slip w/4.88 Axle Ratio
68M	GVWR: 19,500 lb Payload Plus, Upgrade Package
	Includes upgraded frame, rear-axle and springs and low deflection/high capacity. Increases max RGAWR to 14, 706.
THB	Tires: 225/70Rx19.5G BSW Traction (Select when using 4x4)
	Includes 4 traction tires on the rear and 2 all-season tires on the front.
64Z	19.5 Argent Painted Steel Wheels
512	Spare Tire, Wheel
945	Stainless Steel Wheel Covers Front and Rear
63B	Clean Idle Decal
213	Add when a (4x4) Electronic-Shift-On-The-Fly, (ESOF) Includes manual-locking hubs and auto rotary control on instrument panel.
41H	Engine Block Heater
62R	Transmission Power Take-Off Provision (Includes transmission mounted live drive and stationary mode PTO)
98R	Operator Commanded Regeneration (OCR)
67B	Dual Extra Heavy Duty Alternators (Total 377-Amps)
585	Radio: AM/FM Stereo/Single CD/MP3 Player
	Includes (4) speakers regular Cab
39S	Satellite Radio w-6-months service Requires (91M)
54K	Manual Telescopic Trailer Tow Mirrors
91M	SYNC System Voice Activated Communications and Entertainment 911 assist (1) USB Port requires
86S	Low Deflection Spacer Package
425	50 States Emission
942	Day Time Running Lights
17F	Chrome front bumper
47A	Ambulance Prep Package

166	Carpet Delete (LPO) Replaced with black floor mat. (REQUIRES valid FIN code.)
S	Medium Earth Gray
Z1	Oxford White
	(4) Spare key FOBS and (4) Spare keys
	Chassis Batteries (2)
	Super duty radiator
	OEM transmission cooler

ELECTRONIC FLUID LEVEL DATA DISPLAY

As required by NFPA 1901, section 12-2.3.3, chassis component fluid level data shall be displayed on the dash mounted LCD display screen in the cab. There shall be a separate screen with the appropriate information displayed. Information shall include, at a minimum:

- Engine: make, model, serial number, recommended grade of oil, recommended filters with part numbers, recommended maintenance schedule.
- Transmission: make, model, serial number, vocation codes, recommended grade of oil, recommended filters with part numbers, recommended maintenance schedule.
- Rear Axle: make, model, serial number, recommended weight and type of oil, recommended maintenance schedule.

"OCCUPANT MUST BE SEATED & BELTED" WARNING PLATE

A safety warning label shall be installed in a conspicuous location on the cab dash visible to driver and all passengers that conforms to NFPA 1901, section 14-1.3.5. It shall have a universal pictorial warning and verbal warning as follows: "WARNING - Occupants must be seated and belted when apparatus is in motion". It shall be a sub-surface screen printed polycarbonate label with chrome bezel.

WARNING PLATE - "SEATING OCCUPANCY"

A safety warning label shall be installed in the cab dash visible to driver and all passengers that conforms to NFPA 1901, section 14.1.2. It shall be a seating occupancy label installed visible to the driver, indicating number of personnel the vehicle is designed to carry.

CAB LED GROUND LIGHTS

Minimum 6.5" x 3.3" LED ground lights shall be installed under each of the cab doors. Each light shall produce not less than 675 lumens. They shall mounted on angled stainless steel bracket with a light beam angle of approximately 120 degrees x 50 degrees for improved cab perimeter light projection beneath each cab door.

They shall be activated by park brake activation.

CAB RUNNING BOARDS

A pair of bright aluminum tread plate running boards shall be bolted under the left and right cab doors. The front of the running boards shall be flared to provide an integral mud flap or deflector. The leading edge shall be machine formed or rolled to eliminate any sharp edges. All welds shall be continuous TIG type.

RECESSED TOW EYES

A pair of heavy duty black tow eyes shall be recessed into the rear body panel. The tow eyes shall have a minimum 7/8" shank that attaches directly into the end of the frame extension. The frame extension shall have a minimum 1/4" steel plate with reinforcement gussets welded on the end that permits the pulling force applied to the tow eyes to be applied directly to the frame, not the body.

BODY & FRAME REQUIREMENTS

BODY MOUNTING TO CHASSIS

The body shall be mounted to the chassis utilizing Grade-8 U-bolts. The body shall be isolated from the chassis frame rails using not less than 1/2" thick x 3" wide high density neoprene rubber the full length of the body sub-frame I-beam.

BODY CONSTRUCTION

The following specifications are meant to be minimum requirements established for the manufacture and delivery of a vehicle supporting emergency incidents, as outlined herein. Exceptions to these minimum standards shall be permitted, but shall be evaluated based on the bidders understanding and interpretation of the mission and compliance with maximum height and length requirements. The body shall be especially fabricated for emergency service usage.

To facilitate an accurate inspection environment after completion of the vehicle, the manufacturer shall, upon the request of the purchaser, schedule specified inspections during regular working hours Monday through Friday. Said inspections shall be at the discretion of the purchaser. The manufacturer shall make the following factory personnel available during the inspection process: sales administrator responsible for the contract; engineering representative familiar with the contract; production foreman or equivalent assignment responsible for the manufacturing process of the contracted apparatus and a representative of the upper management team authorized to make decisions for the contractor. To further facilitate an accurate inspection process, the manufacturer shall provide, prior to authorization to begin construction, an itemized and detailed work order for manufacturing of the specified apparatus. The work order shall become a part of the final contract between the purchaser and the manufacturer or manufacturer's representative and shall be used for any interim and final inspections. All agreed upon and authorized changes to the apparatus prior to or during the manufacturing process shall be represented by an immediate release of a revised work order that shall be forwarded to the purchaser.

WARRANTY

The body construction shall be warranted, in writing from the manufacturer, for a period of not less than ten (10) years against structural failure. A copy of the manufacturer standard warranty shall be included with the bid proposal outlining specifics of warranty and shall take precedent over any and all other warranties, implied or otherwise.

MINIMUM CONSTRUCTION REQUIREMENTS

The apparatus body shall be modular in design and constructed completely of aluminum. It shall be of a welded, all interlocking extrusion structural design engineered specifically for use as an emergency vehicle operating under all types of environmental extremes.

All frame and structural members shall be MIG (metal arc inert gas shielded) welded together to form a "roll cage". No rivets, screws, adhesive or other mechanical fasteners shall be used for the attachment of any structural or frame member used to form this structural "roll cage".

MINIMUM BODY SIDEWALL CONSTRUCTION

Body Corner Post:

The corners of the body shall be constructed of hollow extruded 6063-T6 aluminum shape. The cavity of the extrusion shall be no larger than necessary to provide a solid connecting point for the vertical structural wall members. The design must allow for a minimum of six (6) inches of continuous weld where each vertical structural member abuts the corner extrusion. This extrusion shall have a minimum wall thickness of .125" (1/8)". The corner extrusion shall have at least one (1) internal wall gusset of at least .188" high and 6" X 6" used to adjoin the front and rear walls to each sidewall structure. This critical structural requirement is to reduce the possibility of the extrusion bending, twisting or suffering other deformation when impacted or otherwise stressed.

To ensure full weld penetration the interior vertical corner extrusions shall have a 45 degree "weld bevel" This "welded bevel" can be part of the extrusion design or manually ground off the extrusion prior to assembly. In either case, the extrusion's wall thickness shall be a minimum of .125" at the corner's bevel point.

Sidewall Structural Requirements:

The sidewall assembly shall be reinforced with square extruded 6063-T6 aluminum structural tubes on approximately twelve (12) inch centers. These structural members shall be 2" x 2" extruded box tubing with a wall thickness of not less than .125". To minimize the possibility of the extrusion bending, twisting or suffering other deformation when stressed the extrusion shall be designed so that the floor and wall shall incorporate a thickness of .125" high 6" x 6" gusset at a minimum of four locations curbside and roadside. These structurals shall be MIG welded together to form the body's "roll cage".

Sidewall Outer Panels:

The front, sides and rear external walls shall consist of 5052-H32 aluminum panel not less than .188" (3/16") thick for enhanced corrosion resistance. Where the panels connect with the corner extrusions or the roof rail extrusion they shall be interlocked by a minimum of ½" overlap incorporated into the extrusion design. The panel shall be attached to the vertical and horizontal wall structural's with VHB (Very High Bond) adhesive along with a series of engineered stitch welds to provide rigidity in the wall assembly. All seams shall be continuously welded and or interlocked utilizing a mid-body rub rail with a minimum of ½" overlap on the upper and lower body panel. In no case shall screws, rivets or other mechanical fasteners be used to attach the plate to these structural members.

ROOF CONSTRUCTION REQUIREMENTS

Roof Perimeter:

The perimeter of the roof shall be fabricated of 6063-T6 extruded aluminum tubing. The cavity of this hollow extrusion shall be no larger than necessary to provide a solid connecting point for the horizontal structural members. Its design must allow for continuous weld on each side of the horizontal structural member where it abuts the extrusion. The extrusion shall have a wall thickness of not less than .125". A drip rail shall be included as an integral feature of this extrusion design. A drip rail that is screwed, taped, riveted or otherwise mechanically fastened to the roof extrusion is not acceptable.

Roof Lateral Bow (Cross members):

The lateral roof bows shall be 2" x 3" square aluminum extruded tubing with a minimum wall thickness of .125". To minimize the possibility of the extrusion bending, twisting or suffering other deformation when stressed, the extrusion shall be designed so that each of its four (4) walls incorporates an integral wall gusset of not less than .125" high and .125" wide running the entire length of the extrusion. The gusset is to provide additional strength as well as to serve as a mounting point for internal equipment or structures. These structurals shall be MIG welded together to form the body's "roll cage".

The structural members shall be located so that the roof panel is supported on an average of not less than 16" centers. The roof bows shall interconnect with the roof rails and be continuously welded on each side of all contact points.

Roof Exterior Surface:

The roof shall be not less than .125" bright aluminum diamond plate panels. The roof panels shall be fully seam welded where they contact the roof rail perimeter extrusions. The panels shall be attached to the lateral roof bows with VHB (Very High Bond) adhesive to allow flexibility in the roof assembly. In no case shall screws, rivets or other mechanical fasteners be used to attach the skin to the lateral roof bows.

Roof Corner Caps:

The corner caps shall be designed to interlock with the roof perimeter and vertical corner extrusions and roof panel. The corner caps shall be aluminum. The final finish shall be smooth and without deformation or

roughness. To further enhance the structural integrity of the modular body all contact points between the corner assembly and the roof perimeter shall be fully welded.

The corner caps shall further feature a recess for integral installation of the LED corner clearance lights in a manner where they do not protrude outside the surface area.

FLOOR CONSTRUCTION

The floor shall be at the lowest level permitted by clearances. The floor structure shall consist primarily of 2" x 3" x .25" thick 6063-T6 extruded aluminum structural box tubing. The finished assembly shall be securely welded to the wall structures and exterior compartments. All critical points shall be reinforced a minimum of four locations on each side with .125" x 6" x 6" gussets. The floor structural members shall be placed on centers not to exceed 16".

The lateral and longitudinal floor structural members shall be 4" high x 2.75 wide 6063-T6 extruded aluminum structural I-beam. These structurals shall be MIG welded together to form the body's "roll cage" and provide maximum support to the chassis frame rails.

BODY MOUNTING TO CHASSIS

The body shall be mounted to the chassis utilizing Grade-8 U-bolts. The body shall be isolated from the chassis frame rails using not less than 1/2" thick x 3" wide high density neoprene rubber the full length of the body sub-frame I-beam.

BODY DIMENSIONS

The body shall meet the following minimum dimensional requirements:

- | | |
|---|----------------------------|
| 1. Overall length: | 180" |
| 2. Overall width: | 98" |
| 3. Overall height (<i>measured from ground to top of AC</i>):
suspension deviations. | 131" + or - 2" for chassis |
| 4. Interior headroom (<i>measured from floor to ceiling</i>): | 76" |
| 5. Interior length (<i>measured from wall-to-wall</i>): | 173" |
| 6. Interior width (<i>measured from wall-to-wall</i>): | 92" |

EXTERIOR BODY COMPARTMENTS

All listed dimensions are interior

Left (Street) Side:

- a. S-1 - Forward of rear wheels: 31"wide x 14" high x 20"deep with single drop-down hinged door
- b. S-2 - Forward of rear wheels: 31"wide x 14" high x 20"deep with single drop-down hinged door
- c. S-3 - Over the rear wheels: exterior rack equipment access 60"h x 21"w
- d. S-4 - Aft of rear wheels: 38"wide x 14" high x 20"deep with single drop-down hinged door

Right (Curb) Side:

- a. C-1 - Forward of rear wheels: Generator compartment minimum 38.5" wide x 26" high x 26" deep with double vertically hinged doors.
- c. C-2 - Curbside entrance door 76"h x 26"w
- d. C-3 - Aft of rear wheels: 38"wide x 14" high x 20"deep with single drop-down hinged door

OVERALL APPARATUS HEIGHT WARNING PLATE

A minimum 6" wide x 3" high red plate with white letters shall be prominently displayed on the center of the cab dash that displays the overall unloaded height at the highest point on the apparatus. It shall read "WARNING - *(clearance height at time of delivery)* CLEARANCE".

BRIGHT ALUMNUM TREADPLATE ROOF

The entire roof shall have a minimum .125" bright aluminum treadplate welded to the perimeter. All seams shall be continuously welded.

SIDE PERSONNEL ENTRANCE DOOR

The side body shall have an insulated minimum 26" wide and maximum available height. It shall be a swing-out type located on the **curbside** (right) of the apparatus body panel for entering and exiting the compartment.

- The outer surface of the door shall be formed of minimum .188" (3/16") 5052-H32 aluminum. The door panel shall be a lap type that completely encapsulates the door opening. The top, bottom and leading edges shall have a slight angled break that turns toward the body surface partially hiding the compression gasket.
- The inner door panel shall be constructed of .125" (1/8") 5052-H32 aluminum forming a box pan that is welded to the door surface panel.
- The door shall be attached to the body with heavy duty .25" diameter pin Type 304 stainless steel continuous hinge with 2" knuckle.
- A hollow bulb-type perimeter gasket shall be attached to the leading edge of the door. The design shall provide for an air tight seal of the door preventing penetration of water and dust.
- It shall be provided with a top and bottom double-catch rotary type latch certified to meet FMVSS206. An exterior and interior stainless steel paddle handle with key lock shall be provided.
- A stainless steel door check shall be provided at the top of the door with 8" swing arm and spring weight set to hold the door open on inclines.
- A polished aluminum drip molding shall be placed over the full width of door opening.
- The inside door header shall incorporate a head bumper pad.

DOOR WINDOW

A tinted and tempered minimum 30" high x 18" wide sliding window with screen shall be installed in the personnel entrance door. It shall be set in a clear anodized extruded aluminum frame.

INTERIOR DOOR GRAB HANDLE

Located on the inner door panel shall be a curved grab handle to assist in closing the door and as a handrail for entering and exiting the vehicle.

- Construction: stainless steel
- Grab surfaces: friction knurled for secure grasp
- Top length: not less than 16" long
- Angled length: not less than 16" long
- Attachment: not less than six (6) 1/4" stainless steel fasteners

BODY WINDOW

A minimum 18" high x 36" sliding window with screen shall be installed in the curbside upper body. It shall be set in a silver powder-coated extruded aluminum frame with 3" radius. The glass shall be 1/4" safety with a solar gray tint.

EXTERIOR COMPARTMENT CONSTRUCTION

All exterior compartments shall be constructed of minimum .125" 5052-H32 aluminum plate. All seams shall be continuously welded forming a strong, weather-resistant interior storage area. The compartment shall be welded to the door opening frame and the floor shall be supported in a manner that shall support the intended loads. The floor of the compartment shall be even with the top edge of the door opening creating a sweep-out design to facilitate easy removal of stored equipment and cleaning. Louvered vents shall be installed on the side walls to facilitate air escape for closing the doors and ventilation within the compartment. Minimum 3/8" drain holes shall be provided in the left and right rear corners of the floor. Neoprene rubber bulb-gaskets shall be fully encase the door opening providing a sure door seal.

GENERATOR COMPARTMENT CONSTRUCTION

The floor shall be reinforced with inlet and outlet air returns meeting specifications of the generator manufacturer for proper cooling.

- The bottom of compartment shall be fully enclosed and shall have openings for cooling and exhaust as recommended by generator manufacturer
- The generator shall be mounted on 3" x 1.25" x 1/4" "C" channel welded to the body superstructure.
- The sidewalls and ceiling shall be lined with lead-lined acoustical foam insulation with heat reflective exterior barrier to prevent penetration of heat into the interior work zone and to deaden noise and acoustical vibration.

HINGED COMPARTMENT DOOR CONSTRUCTION

All specified hinged compartment doors shall box-pan type constructed of aluminum shapes.

- The doors shall be a minimum 2.5 thick, including the exterior panel. The door structure shall be aluminum extruded shapes with a thickness of not less than .150".
- The outer door panel shall be a minimum .190" thick providing an overlap design.
- The design shall incorporate a closed-cell neoprene gasket top, bottom and leading edge of the overlap panel creating a seal between the door and the side of the body.
- A second 360 degree, full perimeter bulb gasket shall be installed in the corner of the inner doorframe. The doorframe shall be welded into the side of the body cut-out.
- The hinges shall be full-length continuous type polished stainless steel with heavy duty .250 pin. They shall have offset slots that permit vertical and horizontal adjustment. They shall be bolted to the door assembly.
- Latches shall be automotive rotary type with minimum .50 latch pins. The pins shall be set in oversize holes in the doorframe that allows 360 degrees of adjustment. A cage nut shall be provided on each latch pin that keeps the nut captured should it be threaded completely off the latch pin. The stainless steel paddle handle shall be provided to open the doors. The handle shall have a neoprene gasket that is formed to the handle shape isolating it from the surface of the door. The paddle release mechanism shall also be adjustable using a threaded rod between the paddle handle mechanism and the rotary latch. Double doors shall be provided on the interior secondary door with a paddle release handle.
- A minimum .125" aluminum inner door panel shall be recessed into grooves around the inner doorframe. It shall be attached using stainless steel screws permitting service access to the latch mechanisms.
- A bright aluminum drip molding shall be installed over each door extending past the door opening. It shall not be attached with any fasteners requiring drillings holes in body.

POWER DOOR LOCKS ON MODULAR BODY

All specified hinged compartment and entrance doors shall have power door locks.

REAR WHEEL OPENING FENDERETTES

Removable mirror finish stainless steel fenderettes shall be attached to the rear wheel opening filler panels. They shall be minimum 12-gauge 304 stainless with a radius flare. Polished aluminum or other types of materials are not acceptable.

LOWER BODY RUBRAILS

Removable rub rails shall be installed on the bottom of the body, fore and aft of the rear wheels. They shall be constructed, at a minimum, of extruded aircraft alloy aluminum equal to 6063-T5. They shall be a C-Channel shape measuring approximately 2-1/2" high x 1-1/2" deep. The recess shall permit emergency flashing lights, marker lights, reflectors and, as applicable, reflective tape to be installed and protected from damage. Each end of the rails shall be angled. The rails shall be attached to the body stainless steel fasteners with nylon isolation washers between the rails and the body.

The rails shall have a powder-coat finish, applied prior to drilling any mounting holes. The color shall be silver.

ANTENNA MOUNTING RAIL

A Z-channel or rail shall be attached to the roof along the outer perimeter on the roadside and curbside for mounting up to ten antennas on the curbside and ten antennas on the street side for a total of twenty antenna mount provisions.

- Each of the four Z-rail shall be a minimum of 2.75" high x 86" long and provide a 2" mounting surface for future antenna installation.
- The Z-rail shall be constructed of a minimum .125" 5052-H32 aluminum.
- It shall be attached to the roof surface by welding only, no fasteners shall be used in order to eliminate penetration for the roof material and provide an excellent ground plane.
- A waterproof enclosure with a removable lid shall be provided on the street side center of the roof to insure no water penetration into the interior of the vehicle. This tunnel shall provide a minimum 9" x 3" opening into the interior wire-way for ease of coaxial installation. The tunnel shall be constructed of a minimum .125" aluminum.
- Tunnel shall be located over the computer cabinet.
- Drip tray shall be installed below the tunnel

FUEL FILLER HOUSING

A cast aluminum fuel filler housing shall be installed on the left rear wheel housing panel. It shall have a hinged door or lid with a bead blast finish. The filler housing flange shall be polished aluminum.

DEF FILLER HOUSING

A DEF filler shall be installed within the fuel filler housing on the left rear wheel housing panel.

FUEL & DEF FILL IDENTIFICATION PLATES

Next to the fuel fill shall be a sub-surface screen printed polycarbonate label with chrome bezel that reads "ULTRA-LOW SULFUR DIESEL FUEL ONLY".

INTERIOR WALLS & CEILING FINISH

The body interior walls, ceiling and floor shall meet the following minimum requirements:

- The interior walls shall be insulated using a minimum 1" Styrofoam plank insulation leaving a minimum 1/2" air insulator effect between the insulation and the interior wall surface. The planks shall be attached to the exterior wall with adhesive.
- The interior ceiling and floor shall be insulated using a minimum 2" Styrofoam plank insulation leaving a minimum 1" air insulator effect between the insulation and the interior ceiling and floor surfaces. The planks shall be attached to the exterior wall with adhesive.
- The ceiling shall be covered with minimum 1/2" thick AC plywood. The side walls shall be covered with minimum 3/8" plywood.

- The interior surfaces of the wall and ceiling shall then be covered with light gray kemlite to reduce ambient noise associated with the confined work environment.
- Hubbell or equal surface mount metal wire raceways with detachable covers shall be installed around the perimeter of the interior body at the ceiling line. The raceway shall provide access to cables and wiring harnesses for future installation of additional communications equipment.

INTERIOR CABINET CONSTRUCTION

Cabinets shall be constructed of 100 percent aluminum sheet and extrusions and must be specifically designed for installation in moving vehicles.

- All fasteners shall be zinc plated, stainless steel, or aluminum. Rivets of any type are not to be used. Hinges shall be continuous extruded all aluminum. Applicable shelf brackets are zinc-plated steel.
- All sheet components shall be coated with baked on polyester powder coat. This application shall only be done after forming and fabrication.
- The doorframes shall be fabricated from minimum .090" wall extrusions with square cut and coped ends to conceal cut aluminum edges. Miter/folded joints are not to be used. All frame components shall be owner replaceable. All fasteners must be self-locking.
- Doors shall be formed to a 1" thickness from a single sheet of aluminum. Doors with cut frames around perimeter are not permitted. Material shall be minimum .063" thick at overhead and wall cabinets, and minimum .080" thick at base and closet cabinets. Doors shall be square and flat to 1/16 tolerance.
- Overhead doors shall receive a mechanical folding hold open mechanism to automatically hold door to an approximate 85-degree opening.
- All doors shall have full length pivoting handles with self-latching, independently sprung latch mechanism. Doors must be unlatched by pulling only, no separate tabs, latches or handles are permitted. The handle extrusions to receive 204-R1 Class 2 Architectural clear anodized finish.
- Door hinges shall be secured to frame with self-locking nut and bolt hardware and are owner re-alignable and replaceable without drilling or fabrication work.
- Where shelves are specified, they shall be constructed of minimum .090" mill aluminum. All sides shall be hemmed over to prevent sharp edges from being exposed. Shelves must include adjustable mounting bracket and securing screw. Shelf slots shall be punched in side. Shelves must be able to be placed across from each other on both sides of a panel in the same mounting slots via self-mating brackets.
- All cabinets to receive mounting angle brackets at perimeter. All panels are finished on all exposed surfaces, inside and outside, after fabrication.

There shall be a one (1) cabinet closet measuring a minimum of 22" wide x 60 3/4" high x 28" deep installed on the front curbside wall. It shall have one hinged access door, and shall have 3-adjustable shelves and a hanging rod for clothing.

Cabinet color shall be TX-Gray 7038.

There shall be a one (1) cabinet measuring a minimum of 77" wide x 16" high x 14" deep installed in the upper street side workstations. It shall have two(2) equal size hinged doors.

Cabinet doors shall have dry erase surface.

Cabinet color shall be TX-Gray 7038.

A galley cabinet shall be installed at floor level measuring a minimum of 23.75" wide x 25" high x 28" deep. A counter top shall be installed on top of the cabinet constructed of minimum 1-1/4" solid-surface, nonporous homogenous blend of polyester and acrylic alloy and fillers. The exposed edges shall have a rounded "bull-nose" finish. It shall have a granite stone-like pattern and be color coordinated to the interior color scheme. All exposed surfaces shall be sanded and polished.

It shall have an opening for a refrigerator. An opening for a refrigerator shall be provided beneath the counter top.

Cabinet color shall be TX-Gray 7038.

FILING CABINET

Two (2) Iceberg Aspira black under desk two-drawer file cabinets shall be installed. They shall be constructed of scratch and dent resistant Resinite polyethylene and utilize full extension ball bearing slides. Steel cabinets are not acceptable.

COMMUNICATIONS CONSOLE

The two-man communications console shall be not less than 77" (1956mm) long.

- The desktop surface shall be not less than 24" (610mm) deep.
- The desk shall be constructed of minimum 1-1/4" (31.75mm) thick solid-surface, nonporous homogenous blend of polyester and acrylic alloy and fillers.
- It shall be attached to a tubular aluminum sub-frame supported by the walls.
- The surface shall be easily cleaned using conventional cleaning agents.
- The exposed edges shall have a rounded "bull-nose" finish.
- It shall have a granite stone-like pattern and be color coordinated to the interior color scheme.
- All exposed surfaces shall be sanded and polished.
- Below the desk shall be a wiring trough for future routing of cables and harnesses and service.
- A vertical wire-way shall be provided behind the desk area wall extending from the lower wire-way to the upper wire-way that permits simple routing of future requirements for cables and wiring harnesses.

A minimum 70 3/4" high x 24" wide x 24" deep electronics rack cabinet shall be installed on the street side wall. Electronic equipment mounting rails shall be installed inside the cabinet set back 3" from the door opening. Equipment mounting opening shall be 60 1/2" H (38 RU) and 19 1/8" wide.

Rack vent panel located at the bottom of the rack enclosure for cool air supply.

Rack fans (3) located at the top of the rack enclosure for hot air exhaust.

Cabinet color shall be TX-Gray 7038.

POWER DISTRIBUTION VERTICAL CABINET

Located curbside front shall be a vertical aluminum cabinet formed of minimum .100" aluminum.

- The face of the cabinet shall be removable for service access and wire routing.
- It shall accommodate the circuit breaker and power distribution panel, interior light switches, CO monitor, generator remote start panel and other controls, gauges and switches as required.
- The exterior surface shall be finished with dark gray Zolatone.

CONFERENCE TABLE

A minimum 60" (1524mm) long x 30" (762mm) wide conference table shall be installed.

- It shall be constructed of minimum 1-1/4" (31.75mm) solid-surface, nonporous homogenous blend of polyester and acrylic alloy and fillers.
- It shall be attached to a tubular aluminum sub-frame and table support leg.
- A trough shall be provided under the table surface for routing of communications and power cables, if specified.
- The surface shall be easily cleaned using conventional cleaning agents.
- The exposed edges shall have a rounded "bull-nose" finish.
- It shall have a granite stone-like pattern and be color coordinated to the interior color scheme. All exposed surfaces shall be sanded and polished.
- Platform base shall be coated with a gray zolatone finish.

SWIVEL LOW-BACK TASK CHAIRS

Two (2) swivel type low-back task chairs with arm rests shall be provided. They shall have, at a minimum:

- Adjustable tilt controls
- 1-touch seat-height adjustment
- Adjustable armrests; and five (5) Casters
- A "bungee" type strap with securing points shall be provided for each chair to secure the chairs against the desk while the vehicle is in motion.

BENCH SEAT

A bench seat shall be installed on the street side conference room.

- The seat base shall measure 72" long x 20" deep x 16" high.
- The cushion shall be not less than 71" long by 3" thick. It shall be covered with black ballistic type upholstery over high-density foam rubber.
- The seat cushions shall be hinged using continuous piano style hinge to access storage beneath.
- The seat bases shall be constructed of 5052-H32 aluminum sheet with a powder-coated exterior surface matching all other cabinets.
- Minimum .090" 6063-T5 aluminum structural extrusions with clear anodized finish.
- The backrest cushion shall be installed 8" above the bench and measure not less than 65" long x 20" high x 3" thick. It shall be covered with black ballistic type upholstery over high-density foam rubber.

BENCH SEAT

A bench seat shall be installed on the curbside conference room.

- The seat base shall measure 90" long x 20" deep x 16" high.
- The cushion shall be not less than 89" long by 3" thick. It shall be covered with black ballistic type upholstery over high-density foam rubber.

- The seat cushions shall be hinged using continuous piano style hinge to access storage beneath.
- The seat bases shall be constructed of 5052-H32 aluminum sheet with a powder-coated exterior surface matching all other cabinets.
- Minimum .090" 6063-T5 aluminum structural extrusions with clear anodized finish.
- Three (3) piece back rest shall consist of (2) back rest cushion shall be installed 8" above the bench and measure not less than 19" long x 20" high x 3" thick. It shall be covered with black ballistic type upholstery over high-density foam rubber.
- (1) back rest cushion shall be installed 8" above the bench and measure not less than 37" long x 8" high x 3" thick. It shall be covered with black ballistic type upholstery over high-density foam rubber.

DRY-ERASE MARKER BOARD

A minimum 36" wide x 20" high white surface marker board shall be installed street side conference room wall. It shall have an anodized aluminum, satin finish frame with a full-length rail across the bottom to accommodate markers and eraser.

FLOORING

The floor shall be designed to provide a solid walking surface that can support, without deflection, the weight of the recommended and/or expected personnel load. Personnel weight shall be calculated based on the current federal definition of an average percentile adult male.

- The floor superstructure, beneath the body that is exposed to water spray, shall be completely covered with minimum .050" aluminum sheets and attached with rivets. All seams shall be caulked with non-shrinking and pliable sealant.
- The sub-floor shall be insulated with minimum 2" Styrofoam planking between all floor superstructure cross members.
- All voids exposed to the interior of the body shall be filled with insulation.
- The sub-floor above the insulation (interior exposure) shall be covered with minimum .050" aluminum sheets to act as a secondary barrier.
- Tongue-and-grooved exterior type minimum 3/4" plywood shall be applied on top of the moisture barrier.
- The plywood shall be attached to the floor superstructure with self-tapping countersunk screws. All seams shall be filled and sanded prior to installation of the floor covering.
- The floor covering shall be equal in quality and performance of Lonseal Loncoin II. The material shall conform with ASTM F 1303-95 and surpass the coefficient of friction (COF) as established in ASTM C 1028-89.
- It shall have an embossed coin design anti-slip surface.
- The floor installation shall be seamless full length of the interior body.
- All edges shall be sealed with non-hardening, flexible type sealant to prevent water penetration between the floor and walls.
- Other required standards shall be:
 - ASTM E648-97 Class 1 flame spread per NFPA 253
 - ASTM E662/NFPA 258 Smoke density
 - ASTM D 3884 Abrasion resistance
 - ASTM F970-87 Static load limit
 - ASTM F 137 Flexibility

MINIMUM INTERIOR CONSTRUCTION STATEMENT

All requirements specified for the interior design and construction are considered minimum quality levels required for the intended long-term missions of the apparatus. Cabinets and work counters and desks constructed of plywood or other wood byproducts and laminated surfaces shall not be considered as alternatives. Floor materials of less quality than that specified shall not be considered. All specified materials and construction methodologies specified herein are open-market commodities and construction practices and are expected to be adhered to in the final finish of this apparatus. Bids that propose alternative methods must be accommodated by detailed descriptions of the materials and construction methods employed/proposed with documentation attesting to durability.

STONE GUARDS, FRONT & REAR CORNER POST

The lower front and rear body corner posts shall be protected with bright aluminum tread plate shaped to fit the rounded corners. The front guards shall line up visually with the bright tread plate on the cab steps (when applicable). The tread plate shall additionally extend, at the same height, inward on the body to cover the lower body skirt. They shall be attached using round-head drive-rivets. All edges shall be sealed with silver, non-hardening sealant to prevent corrosive agent build-up between the plates and the body.

REAR DIAMOND PLATE KICK PANEL

Located on rear body panel shall be an overlay of bright aluminum tread plate extending upward from the bottom of the body a minimum of 24". The perimeter shall be sealed.

REAR STEP BUMPER

Bolted to the rear frame supports shall be step bumper constructed to channel steel designed to support a minimum of 600 lbs. of combined weight.

- It shall be covered with minimum .125" bright aluminum tread plate.
- The surface of the tread plate shall be punched providing multi-directional, aggressive gripping surface forming a platform a minimum of 11" deep and minimum 90" wide.
- The gripping surfaces shall be circular in design, a minimum of 1" diameter and on centers not to exceed 4".

SIDE ENTRANCE STEP

Manually deployed entrance steps shall be installed under the side entrance door.

- The step shall be a minimum of 24" wide x 8" deep with a maximum 7" drop.
- It shall have an anti-slip surface.
- The step assembly, at a minimum, shall be constructed of formed steel with a powder-coated finish for corrosion resistance.
- Black/Yellow reflective safety tape shall be applied to the exposed sides and front of the step assembly.
- It shall stow as tight against the underside of the body as possible.

WHEEL CHOCKS

ZICO model AC-2 wheel chocks complying with NFPA 1901 and SAE-J-348 shall be provided.

Two (2) ZICO model QCH-2 horizontal holder with mounting hardware shall be provided for securing the wheel chocks. They shall be mounted aft of the driver's side rear wheels.

LICENSE PLATE FRAME

Located on the rear body panel shall be a Cast Products #C30004 surface-mount lighted license plate frame. It shall have a polished aluminum finish around the outer flange and bead blasted inner finish.

REAR MUD FLAPS

A pair of heavy duty black rubber mud flaps shall be bolted to the rear wheel housing behind the rear wheels.

COMPARTMENT MATTING

Turtle-Tile brand black open grate matting material shall be installed in the bottoms of each open compartment floor. The mat surface shall include edge strips on the front.

PAINT & GRAPHICS REQUIREMENTS

BODY PAINT

The final finishing of this apparatus shall meet or exceed automotive standards, as follows:

- Minimum paint thickness shall be 2.6 mils, as measured by a Labotron film thickness gauge.
- Paint surface smoothness shall meet a minimum standard of 85 (on a scale of 100) as measured by Positector Model 3000 smoothness gauge, which measures the smoothness of the coat and other irregularities in the surface.
- Paint coat Distinctness-of-Image (DOI) shall meet a minimum standard of 75 (on a scale of 100) as measured by an ATI Systems, Inc. DOI meter, which measures the ability of the paint application to reflect images as a mirror does.
- All primers and paint shall be 100% lead free.
- The apparatus shall be fully sanded on all exterior surfaces with 180 grit to assure removal of all imperfections in metal surface. All surfaces shall be de-greased before and after sanding.
- All surfaces shall be primed with self-etching zinc-chromate based primer. No liquid etching solutions may be used in order to prevent residual solution from leeching under paint edges and causing flaking.
- The unit shall be completely sanded following first primer coat with no less than 320 grit so that the top coat of paint can be applied to a smooth surface. All surfaces shall receive a second filler coat of primer.
- The entire apparatus shall then be painted with SIKKENS acrylic urethane with a clear urethane top coat.
- The apparatus body shall be painted separately while unmounted to insure full coverage.
- Body paint color to match the cab color.

TOUCH-UP PAINT

One (1) quart of touch-up paint shall be provided for each color applied to the apparatus.

UNDERCARRIAGE COATING

After the apparatus has been painted, the entire undercarriage of the chassis frame, cab and body shall be spray coated with a heavy black paint. Coating shall not be applied to exhaust or drive-line components or frame-mounted apparatus components, except brackets or permanently attached equipment.

CHEVRON REAR BODY STRIPING

The rear body panel shall be fully covered with 6" Red and Yellow chevron stripe in an inverted "V" pattern.

LETTERING AND GRAPHICS ALLOWANCE UP TO \$4000.00

An allowance of \$4000.00 shall be included into the price to cover any lettering or graphics determined at the pre-construction meeting.

12VDC ELECTRICAL SYSTEMS

GENERAL REQUIREMENTS:

The following specifications are intended to provide minimum guidelines for the apparatus 12-volt electrical power systems. The system shall utilize current industry state-of-the-art multiplexing technology. Any deviations from these minimums must be clearly noted and defined under the "Exceptions" requirements of this bid proposal. Since the specified system utilizes open-market components and are available to all apparatus manufacturers, exceptions to the general design requirements are not acceptable. Any exceptions shall be explained by the applicable paragraph. Bids taking total exception to these minimum requirements shall be subject to rejection.

MINIMUM NFPA 1901 WIRING REQUIREMENTS:

The complete 12-volt wiring system and electrical appliances shall be to modern automotive and NFPA 1901 minimum standards throughout the installation. The system shall comply with all appropriate SAE J1939 and/or J1708 recommended practices. The manufacturer shall supply an installation and components that provides for easy diagnostics and serviceability of the system.

- All required DC power conducting wiring shall be of stranded copper wire of adequate gauge for the function served so as to ensure voltage drop of less than one volt at the appliance under full amperage load. Any

wiring routed through the engine compartment, within 18 inches proximity of any exhaust components or other high heat components shall be not less than GXL. As specified, any required strobe lights shall be wired using shielded cable, as recommended by the light manufacturer.

- Any required signal conductors shall be shielded twisted pairs rated by the system manufacturer to carry the multiplex command signals from the switch panel to the control modules.
- The wiring shall be routed in protective nylon HTZL Type 6 300 degree F. Rated loom in all areas. All wiring shall be specially harnessed with wire ties and, where not routed through grommets, shall be clipped to body members with vinyl coated harness clips.
- Where wire passes through sheet metal, rubber grommets shall be used to protect both wiring and wire looms.
- Primary wiring harnesses shall be bench assembled and connections machine welded. Where crimp connections are necessary, the connections shall be made using AMPS or equal connectors with heat-shrink insulators.

MULTIPLEXED ELECTRICAL MANAGEMENT SYSTEM:

General Overview Requirements: The apparatus shall be equipped with a fully multiplexed electrical system, no exception. The system shall be compatible with the chassis supplied multiplexed electrical system and fully interfaced using the same diagnostics.

It shall be a peer-to-peer network consisting of all solid state nodes. Each node shall have the ability to control its own inputs and outputs. All inputs and outputs shall be configured into a scalable electrical harness utilizing Deutsche connectors. The nodes must be weatherproof and not require special mounting requirements away from wet environments.

The system, at a minimum, shall be capable of performing the following functions: load management sequencing, switch loads, receive digital and analog signals, perform and report diagnostics, continuously report vehicle status and the system shall be expandable.

"Real Time" data must be capable of being reported and displayed through dedicated operator interface modules.

The multiplex system shall be easily re-programmable and re-configurable by either the factory or a factory authorized service center.

The system shall have the following minimum features:

- Total load management
- Load shedding capabilities (*shall begin load shedding when voltage drops below selected level after a 2-minute period per output.*)
- Load sequencing capabilities
- "On-board" diagnostics readout
- Error reporting

- Full color graphics data display
- Continuous system monitoring and reporting
- Emergency warning light flasher
- Door ajar warning system
- Real time clock

Message Capabilities: The multiplex system shall have the capability to display diagnostics messages such as short or open circuits. The system shall display load shedding levels and also display when a compartment door is not secure or other equipment is not properly stowed, such as light tower.

Real-time Diagnostics: The system shall provide instant message feedback based on an output failure (i.e.: burned out bulb or electrical short). The error message shall remain displayed until such time as the "acknowledge" button is depressed. The output shall turn off whenever there is a short circuit or over current condition and shall not reactivate until the system power is reset.

PC Diagnostics: The system shall incorporate a feature that enables a service representative to troubleshoot, repair and replace nodes in the system, should they for any reason fail. It shall be run via a PC interface and shall monitor all system information. All messages going across the communications bus must be seen on the screen, including analog information. Each node must be capable of being queried for its own voltage drop and capable of obtaining the status of all inputs and outputs from the diagnostics interface.

PC Programming: The system must be programmable at the factory in a language that can be downloaded to a remote service representative's PC or down loader tool with all OEM data, as programmed for this specific apparatus and allow field reprogramming changes as provided by the apparatus manufacturer.

System Troubleshooting Guide: A troubleshooting guide must be provided with each delivered apparatus, placed within the Owner's Manual. The guide shall outline, in simplistic language, how to perform system diagnostics and troubleshooting and how to reset default circuits.

EMI/RFI PROTECTION:

The electrical system proposed shall include means to control undesired electromagnetic and radio frequency emissions. State of the art electrical system design and components shall be used to insure radiated and conducted EMI (electromagnetic interference) and RFI (radio frequency interference) emissions are suppressed at their source.

The apparatus proposed shall have the ability to operate in the electromagnetic environment typically found in fire ground operations. The contractor shall be able to demonstrate the EMI and RFI testing has been done and meets SAE J551 requirements.

EMI/RFI susceptibility shall be controlled by applying immune circuit designs, shielding, twisted pair wiring and filtering. The electrical system shall be designed to full compatibility with low-level control signals and high-powered two-way radio communications systems. Harness and cable routing shall be given careful attention to minimize the potential for conducting and radiated EMI/RFI susceptibility.

CONSOLE CONTROLS & FUNCTIONS:

A combination switch and color visual display panel controlling electrical appliances and equipment installed on the chassis and body shall be centrally located in the cab within easy access to the driver. It shall measure not more than 10.25" wide by 7.75" high and be capable of installing in any area of the cab that is convenient to the driver and/or officer positions.

A full color display shall be visible in direct sunlight, but shall not be overpowering during night operations. Once the headlights are activated, the screen shall automatically dim to 50% of its intensity so as not to interfere with night driving operations.

Additionally, the display screen shall have, as a minimum, the following displays:

- System diagnostic controls and alpha/numeric readouts for displaying system defaults or failures
- Compartment Open warning graphics - overhead color depiction of apparatus cab and body that graphically displays which doors are not secured.
- For safety purposes, the following minimum scenario shall be provided: When the apparatus is in the neutral (or parked) mode, the overhead view graphic display of the apparatus shall depict which door(s) are open.
- Once the apparatus is placed into the drive mode a scrolling message shall appear across the top of the Vista display screen and the overhead view graphic display of the door(s) that are open shall flash.
- A beeping sound shall also be activated as a secondary warning to the driver of unsecured door(s).

The control panel shall have four switches on each side of the LCD display screen that performs the following minimum functions:

- LEFT SIDE SWITCHES & LCD DISPLAY:
 - LEFT SCENE LIGHTS (*activates all left 12VDC scene lights*)
 - RIGHT SCENE LIGHTS (*activates all right 12VDC scene lights*)
 - REAR SCENE LIGHTS (*activates all rear 12VDC scene lights*)
- RIGHT SIDE SWITCHES & LCD DISPLAY:
 - VISTA ACK (*overrides Vista alarms*)
 - SPARE
 - SPARE
 - BACKUP CAMERA (*activates automatically in reverse mode or with manual override*)

- Switch functions shall be provided adjacent to each switch on the display screen. When activated, the nomenclature display button shall change colors to instantly identify that the circuit has been activated.
- Lower panel switches below the color LCD monitor display as follows:
 - E-MASTER (*activates all pre-set emergency response warning lights*)
 - BLOCKING OVERRIDE (*deactivates all blocking lights in Zone A or reactivates lights that have shut down in the blocking mode for emergency discretionary purposes*)
 - HOME (*returns the currently displayed screen back to the "Home" screen location*)
 - SYSTEM INFO (*displays system diagnostic menus*)
 - SERVICE INFO (*displays chassis make, model and serial number; engine and transmission serial numbers; oil capacities; service interval recommendations; other information required for routine maintenance; body builders serial number, dealer and/or service contact info; and other pertinent information that may be deemed necessary.*)
 - SPARE
 - HORN/SIREN (*overrides chassis horn button switch to activate designated warning device*)

MINIMUM OPERATIONAL SCENARIO TO BE CONTROLLED BY THE MULTIPLEX SYSTEM:

- Warning Light Activation: When the Emergency Response switch is depressed, the system shall determine what needs to happen next by what the engine and transmission is doing. Once the transmission is engaged, the Clear-the-Right-of-Way mode is engaged and all emergency lights are activated.
- Compartment Lights Activation: The compartment lights shall be activated anytime the door is open and when the apparatus is in the neutral or parked position.
- Ground Lights Activation: Ground lights shall be activated by respective upper body scene light switches or whenever the apparatus is placed in the reverse mode of operation to further light the backup zone or when the respective left or right turn signal is activated.

ON-BOARD ELECTRICAL SYSTEM DIAGNOSTICS:

Advanced on-board diagnostic messages shall be provided to support rapid trouble shooting of the electrical power and signal system. The diagnostic messages shall be displayed on the VISTA control screen located adjacent to the driver position. The on-board message center shall include the following minimum diagnostic information:

Multiple diagnostics on display with text description. Circuit alerts shall scroll across the top of the screen in a text message.

Simplified warning indicators (from operator's perspective).

Automatic display of further information in order of problem severity.

In addition to a visual message center, the system shall activate status indicators and audible alarms designed to provide warning of problems within any circuit or signal command module. The system shall include, at a minimum, the following attributes and improvements over analog type systems:

- On-board self-diagnostic messages and status indicators.

- Visual confirmation of communication of each Vehicle Power Module and Display Module.
- Automatic self-test on startup with provision for manual diagnostic checks.
- Minimize use of control relays.
- Provide control for NFPA 1901 mandated safety interlocks and indicators.
- Utilize system integration to eliminate redundant wiring and components
- Improve control system reliability by reducing relay and connector contacts.
- Advanced electrical system load management and sequencing system.
- Imbedded service interval information
- Customized software
- Field re-programmable to accommodate changes to the vehicle operating parameters
- Fully documented hardware.

SERVICE AND MAINTENANCE DIAGNOSTICS:

- Advanced vehicle service and maintenance shall be assisted with an integral software program.
- The software shall provide troubleshooting tools to service technicians via the VISTA control screen.
- The service and maintenance program shall include the following minimum features:
 - Easy to understand diagnostic procedures.
 - System simulation and pinging of nodes for status verification.

BATTERY SYSTEM:

- The battery system shall be activated anytime the battery switch is in the "ON" position to alert the operator of the status of the battery switch.
- The battery enclosure and system shall be located conveniently to provide for easy service and replacement.
- The original equipment chassis manufacturer shall install a battery cutoff switch that disconnects all battery power to the apparatus, except electronic memory circuits. If the chassis manufacturer does not provide a factory installed battery cutoff switch, the apparatus body manufacturer shall install an extra-heavy-duty on/off battery solenoid switch, rated at a minimum 600 amps continuous, 900 amps momentary rating. The solenoid shall be activated by a paddle type switch installed in cab, accessible from the driver's door.
- The switch shall serve as a master disconnect for the battery system, disconnecting the batteries from the chassis and apparatus appliances. Electronic memory circuits relating to the electronically controlled engine and transmission and other memory sensitive components shall have 12VDC power supplied through a separate bypass circuit that is not disconnected by the battery switch.
- A single green LED light located in the center of the Vista LCD display shall indicate the status of the batteries.
- See Chassis specifications for battery requirements.

ENGINE AUTOMATIC HIGH IDLE DEVICE:

- The engine shall be equipped with an electronically controlled device that automatically increases the engine RPM level on demand.
- The system's primary activation shall be by the automatic mode, programmed through the multiplex electrical load management system to activate whenever the system detects voltage output of less than 12.7 volts for more than 30 seconds (or as established by the apparatus manufacturer).
- It shall be capable of manual deactivation or engagement of the transmission or by depressing the foot brake.
- The system shall not activate unless transmission is in the park position.

VISTA CONTROL PANEL MOUNTING BRACKET

The VISTA control panel shall be mounted to a Pan-O-Vise heavy duty bracket that permits the screen to be positioned at the discretion of the user.

EXTERIOR TEMPERATURE READ-OUT

The exterior ambient temperature shall be displayed on the cab LCD display screen with a continuous real-time update. The sensor shall not be placed in an area where engine or other heat producing equipment shall affect the readout.

12VDC VOLTAGE OUTPUT TESTING & DOCUMENTATION

The apparatus low voltage system shall be tested and certified by the manufacturer prior to final delivery. A copy of the testing and successful completion shall be included in the Owner's Manual.

- Reserve Capacity Test:
The unit shall be run until all engine and engine compartment temperatures are stabilized and the battery system is fully charged. The engine shall be shut off and the minimum continuous electrical load shall be activated for ten (10) minutes. All electrical loads shall be shutoff after ten (10) minutes and the battery system shall then be capable of restarting the engine.
- Alternator Performance Test At Idle:
Minimum continuous electrical load shall be activated while the apparatus is at idle speed. The battery system shall be tested to detect the presence of battery discharge current. The detection of battery discharge current shall be considered a test failure and corrective actions shall be employed.
- Alternator Performance Test At Full Load:
The total continuous electrical load shall be activated with the engine running up to the manufacturer's governed speed. The test duration shall be a minimum of two (2) hours. Activation of the load management system shall be permitted during the test. If however, an alarm sounded by excessive battery discharge, as detected by the system, or a voltage of less than 11.7 volts DC for a 12 volt nominal system for more than 120 seconds, it shall be considered a test failure and corrective actions employed.
- Low Voltage Alarm Test:
The engine shall be shut off and the total continuous electrical load shall be activated and continue to be applied until the excessive battery discharge alarm is activated. The battery voltage measured at the battery

terminals with the load still applied must be above 11.7 volts or the test shall be considered a failure and corrective actions employed.

- **Documentation:**

At the time of final delivery, an Amp Draw Report complying with NFPA 1901, Section 13-15 shall be completed and inserted into the Owner's Manual. It shall provide the following information:

- Documentation of the electrical system performance test.
- Written load analysis with the following information:
 - Nameplate rating of the alternator
 - The alternator rating under the conditions specified in NFPA 1901, section 13.3.2.
 - The minimum continuous load of each component that is specified per NFPA 1901, section 13.3.2.
 - Additional loads that, when added to the minimum continuous load, determine the total connected load.
 - Each individual intermittent load

DO NOT MOVE TRUCK MESSAGE DISPLAY

To prevent accidents or damage caused by unsecured appendages on the cab and body, the following messages shall be displayed on the cab mounted display screen that are displayed whenever the transmission is shifted out of the neutral position and one or more of the following is detected:

- Street side cab doors are not secured
- Street side body doors are not secured
- Curb side cab doors are not secured
- Curb side body doors are not secured

The above text messages are required in addition to the minimum flashing light and audible warnings required by NFPA 1901. Due to the number of flashing warning lights and audible alarms typically supplied within the confines of the cab, the text messages are considered critical to the safe operation of the apparatus. Thus, no exceptions shall be permitted to this requirement.

GRAPHICS DISPLAY

In addition to the text message and flashing lights to warn of non-secured or stowed equipment, an overhead graphic color display shall be visible on the Vista monitor. Whenever a compartment door is not secured, yellow flashing indicators shall depict which doors are not secured including cab, left side, right side.

CAB CONSOLE

A Havis-Shields model #C-3010 console with model #C-AP-1395-L accessory packet with lid shall be installed between the front cab seats that shall accommodate a radio control head, siren control head, 12VDC system console panel, maps, note books and etc.

- The design shall not interfere with chassis manufacturer's dash mounted gauges, switches or other options. The console surface shall measure 9" wide x 30" long.

- A book/map storage compartment shall be provided at the back of the console with a minimum 13" long x 8" wide opening. The opening shall have a hinged lid with latch to conform to NFPA 1901, preventing stored books and objects from becoming projectiles should the vehicle become involved in an accident.
- The 12VDC system control panel shall be mounted in the forward section of the console.
- Mounted on the console shall be a flex shaft map light and two (2) recessed 12-VDC power point receptacles with rubber covers.
- Two cup holders
- Arm rest on both sides of console
- There shall be one (1) Havis-Shields siren bracket for mounting of Whelen CenCom CCSRN36 Sapphire series siren in console.

DOT CLEARANCE & LED MARKER LIGHTS

The apparatus body shall be equipped with upper side, front and rear LED marker lights. The side and rear of the body shall be provided with reflectors. All lights and reflectors shall conform to D.O.T. and FMVSS minimums for such vehicles of this type. All marker lights shall be incorporated into the headlight circuit of the cab/chassis.

LED TAIL LIGHT ASSEMBLY

Two (2) Whelen LED tail surface mounted light assemblies shall be installed on the lower left and right rear body panels. The cluster shall consist of Whelen:

1. C6BTT LED red stop/tail light left and right
2. C6CSC white LED backup light left and right
3. C6T LED amber turn signal left and right
4. All light shall have chrome bezels

UPPER SIDE BODY 12VDC SCENE LIGHTS

Two (2) each Whelen M9LZC surface mount LED Opti-Scene lights shall be installed on the roadside (left) and curbside (right) upper sides of the body, one fore and one aft (total of 4). Each light shall be equipped with a Whelen M9FC chrome flange. The scene lights shall have combination 8 to 32 degree internal optic lens. Each left and right pair shall be activated by individual respective switches on the cab control console.

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UPPER REAR BODY 12VDC SCENE LIGHTS

Two (2) each Whelen M9LZC surface mount LED Opti-Scene lights shall be installed on the upper rear body, one (1) roadside (left) and curbside (right) (total of 2). Each light shall be equipped with a Whelen M9FC chrome flange. The scene lights shall have combination 8 to 32 degree internal optic lens. They shall be activated by individual switch on the cab control console.

REVERSE ACTIVATED REAR SCENE LIGHTS

The rear scene lights shall be automatically activated whenever the apparatus is in the reverse mode.

REVERSE ACTIVATED SIDE SCENE LIGHTS

The side scene lights shall be automatically activated whenever the apparatus is in the reverse mode.

TURN SIGNAL ACTIVATED SIDE SCENE LIGHTS

The side scene lights shall be automatically activated whenever the respective turn signals are activated.

LED GROUND LIGHTS

Minimum 6.5" x 3.3" LED ground lights shall be installed under the body. Each light shall produce not less than 675 lumens. They shall be mounted on an angled stainless steel bracket with a light beam angle of approximately 120 degrees x 50 degrees for improved perimeter light projection in the following locations:

- One (1) each forward of left & right rear wheels
- One (1) each aft of left & right rear wheels
- One (1) under rear step bumper

They shall be activated by park brake activation.

AUXILIARY COMPARTMENT LIGHTS

There shall be minimum 4" LED compartment lights installed in compartments ceiling of S-1, S-2, S-3, C-1, C-2, and C-4. They shall have a stainless steel trim bezel and produce not less than 300 lumens each. The mounting of the lights shall provide upwards of 77 degrees of light beam into the compartment interior.

STEPWELL LIGHTING

A linear LED surface-mount light assembly shall be installed on each step riser.

- It shall be mounted on the side wall out of the primary traffic zone.
- The light shall be mounted inside a polished stainless steel housing.
- Amperage draw shall be not more than 0.15.
- It shall be automatically activated whenever the side entrance door is opened.

COMPARTMENT OPEN WARNING & AUTOMATIC LIGHT ACTIVATION

All compartment lights shall be automatically activated when the left or right lock handle is released and any other door not associated with the side compartment locking system is opened.

- The console switch shall be capable of over-riding the automatic system.
- In the event a door is not properly closed and/or secured, a scrolling text message shall be displayed on the bottom of the VISTA display screen as follows:
 - Cab Doors Ajar
 - Roadside Body Door Ajar

- Curbside Body Door Ajar
- If more than one location is not secured, all doors affected in the above list shall scroll across the bottom of the screen. As each respective door is secured, the text shall disappear from the scrolling alert.

COLD CATHODE LIGHT - 12VDC UNDER CABINET

Two (2) minimum 4" round 12VDC LED combination red/white light shall be installed under the street side work station cabinets. The light shall have a 100,000 hour lamp life and draw a maximum of 0.15 amps each. The lights shall be activated by a single double-pole switch located in proximity of the lighted area.

LED DOME LIGHTS

Eight (8) Whelen 80CREHCR Super-LED dome lights shall be installed strategically in the interior ceiling.

- They shall be recessed in a chromed bezel.
- The light output shall approximate natural mid-day light providing a more true flesh tone recognition.
- The light shall feature six (6) clear diodes with high/low intensity settings and three (3) red diodes.
- The light shall have a three-way switch on the control panel that provides high and low intensity settings for the clear diodes and separate switch for activation of the red diodes.

STREAMLIGHT LED HAND LIGHTS

In accordance with minimum NFPA 1901 requirements, there shall be (4) Stream light Vulcan C-4 LED rechargeable hand lights, model 44451, installed (2) in the cab on back wall and (2) in the body to be determined at the pre-construction meeting.

- Light output shall be not less than 80,000 candela peak beam intensity and 145 lumens measured system output with low producing not less than 40,000 candela peak beam intensity and 70 lumens measured system output.
- Reflector shall produce a tight beam with optimum peripheral illumination to aid in navigation.
- They shall have ultra-bright blue taillight LEDs with eight (8) programmable switch functions.
- The chargers shall be 12VDC type and be individually wired to the apparatus through the fused circuit connected directly to the batteries.
- The charger circuit shall not be disrupted when the battery switch is in the "off" position.

UPPER ZONE A WARNING LIGHTS

(7) Seven Super-LED warning light shall be install across the upper body panel evenly. (4) Whelen C9LRC red Super-LED warning lights and (3) Whelen C9CS white Super-LED with clear lens and C9FC chromed bezel shall be installed.

LOWER ZONE A FRONT CAB WARNING LIGHTS

Two (2) Whelen C7LR red Super-LED warning lights with clear lens and C7FC chromed bezel shall be installed as follows:

- (1) Street side grille
- (1) Curbside grille

HEADLIGHT WIG-WAG FLASHERS

The headlights shall be provided with an alternating or pulsating flash mode referenced as a wig-wag mode. It sequence shall be automatically inoperable when the headlights are in the high beam mode. Since the lights exceed the minimum NFPA 1901 requirements, the lights shall be managed by the load manager within the multiplexing system and controlled through the "Blocking Right-of-Way" circuit.

LOWER ZONE B & D INTERSECTION WARNING LIGHTS

Two (2) Whelen C7LR red Super-LED warning lights with clear lens and C7FC chromed bezel shall be installed as follows:

- (1) street side fender
- (1) curbside fender

LOWER ZONE C REAR BODY WARNING LIGHTS

Two (2) Whelen C6LR red Super-LED warning lights with clear lens and C6FC chromed bezel shall be installed as follows:

- (1) Street side lower rear wall panel
- (1) Curbside lower rear wall panel

UPPER ZONE B & D SIDE BODY WARNING LIGHTS

Four (4) Whelen C9LRC red Super-LED warning lights with clear lens and C9FC chromed bezel shall be installed as follows:

- (1) Forward curbside upper body.
- (1) Rearward curbside upper body.
- (1) Forward street side upper body.
- (1) Rearward street side upper body.

UPPER ZONE C REAR BODY WARNING LIGHTS

Two (2) Whelen C9LRC red Super-LED warning lights with clear lens and C9FC chromed bezel shall be installed as follows:

- (1) Street side upper rear wall panel
- (1) Curbside upper rear wall panel

LED BEACON

A Whelen model L32L4F LED beacon shall be mounted on push up pole located on the rear body.

- The LED beacon shall have a published average amp draw of 1.5 amps at 12.8 VDC (3.8 amp peak amp draw).
- It shall allow operation without degradation of intensity or flash rate between 10-16 VDC.
- The electronics shall be completely enclosed within the base, with no parts such as screws, fasteners or wires being exposed to where moisture could cause corrosion with an electrically inert material for moisture, vibration and dust resistance.
- The domes shall feature a smooth outer surface and made of polycarbonate material.
- The domes must mount to the base of the led beacon via screws.
- Lens to be clear
- LED to be green

ELECTRONIC SIREN

CenCom Sapphire

A Whelen siren and light control system model # CCSRN36 shall be provided. The CCSRN36 has the ability to control the warning lights and siren from a single keypad. The CenCom Sapphire™ module shall incorporate current siren and light control technology install on an aluminum alloy black powder coated chassis and cover for maximum protection. The CenCom solid state outputs shall consist of one 40 Amp, two 20 Amp, four 10 Amp, and four .250 Amp. The output for the Contact Relay shall be one 10 Amp. All fuses are included with the system. The CCSRN36 shall have the ability to connect and operate a WeCan lightbar. Phoenix style connector shall be used to connect the WeCan lightbar to the CCSRN36. The CCSRN36 shall have the ability for four positive or ground activated inputs including a horn ring input. The CCSRN36 shall have the ability to operate a maximum of two 100 watt siren speakers. Adjustable PA and radio repeat volume potentiometers are located on the CenCom module. The CCSRN36 shall have a LED traffic advisor indicator and LED output indicators located on the front of the CenCom module.

The CCSRN36 shall include an eight push buttons, three position slide switch, and seven position rotary knob control head. The control head shall include a manual button and Air horn button with three traffic advisor switches. The control head shall include standard function labels for the push buttons. The control head housing and cover shall be made of a black polycarbonate. The front controller overlay shall consist of a velvet Lexan with a blue matte finish. The control head shall have adjustable backlighting. The CCSRN36 shall include a CAT-5 cable to connect the control head to the amplifier control module. PA microphone with plug in connector and 20' microphone cable are included with the CCSRN36. The CCSRN36 shall meet SAE, California XIII, and NFPA requirements. The CCSRN36 has a five year factory warranty. The control head shall be able to mount has a bail strap mount or a console mount. Mounting hardware and programming software are included with the CCSRN36.

Voltage: +12v

Size : CenCom Module: H=2.37", W=6.16", D=4.88"

Control Head: H=3.66", W=6.93", D=2.15"

Amp Draw: 80 Amps Maximum

HORN/SIREN SWITCH

A switch shall be provided on the control console that permits the driver to select activation of either the chassis OEM horn or the siren from the steering wheel horn button.

SIREN SPEAKER

One (1) Cast Products SAD3815-17FSD-1, 100-watt speaker shall be mounted through the street side (left) front bumper contour.

ATOMIC DIGITAL CLOCK

A minimum 11.75" x 12" atomic clock shall be installed on the conference room rear wall.

- It shall have a minimum 4" digital time display for visibility anywhere within the compartment zones.
- The clock shall be capable of automatically setting itself to the US Atomic Clock.
- It shall daily search for the Atomic Clock signal and shall not require resetting to accurate time.
- It shall display time, seconds, date, outdoor temperature and indoor temperature.
- The temperature sensor shall be wireless from the sensor probe.
- The clock shall also be capable of automatically setting itself to daylight savings time.

SECURE IDLE OVERRIDE SYSTEM

An ignition key override system shall be installed that shall allow for the removal of the ignition key, leaving the engine running. The system shall kill the engine if the brake is pressed or if the transmission selector is moved from the park position.

CAB MOUNTED 12VDC TERMINAL STRIP & FUSE BLOCK

A 6-circuit terminal strip and fuse block shall be installed in the cab.

- It shall be powered from the chassis battery system using minimum 8-gauge wiring for subsequent connection of radios and other auxiliary equipment.
- The strip shall have a total of six (6) terminal points and fuse blocks that shall accept either ATC fast acting blade type fuses or plug-in style circuit breakers.
- Each circuit shall be capable of handling up to 30-amperes.
- The outlets and fuse blocks shall be mounted behind a clear insulating cover with the fuse blocks accessible from the face of the cover.

BODY MOUNTED 12VDC TERMINAL STRIP & FUSE BLOCK

A four(4)-circuit terminal strip and fuse block shall be installed in the equipment rack.

- It shall be powered from the chassis battery system using minimum 8-gauge wiring for subsequent connection of radios and other auxiliary equipment.
- The strip shall have a total of six (6) terminal points and fuse blocks that shall accept either ATC fast acting blade type fuses or plug-in style circuit breakers.

- Each circuit shall be capable of handling up to 30-amperes.
- The outlets and fuse blocks shall be mounted behind a clear insulating cover with the fuse blocks accessible from the face of the cover.

BODY 12VDC POWER POINT RECEPTACLES

Located in the street side work station shall be four (4) recessed power point receptacles for powering a cell phone charger and other 12VDC equipment. The main power circuit shall be protected by a 15 amp circuit breaker. An attached cover shall protect the opening of the receptacle when not in use. Two (2) left side workstation and Two (2) right side work station.

USB CHARGING PORTS

Two (2) USB charging ports shall be installed in the cab console and left and right side of street side work stations for a total of six. It shall provide a 2.1 amp and 1.0 amp DC power port for charging a smartphone and/or tablet from the chassis 12VDC power supply. A built-in LED indicator shall indicate when the device is powered. The ports shall be reverse polarity protected.

BACKUP ALARM

A backup alarm rated at not less than 102 DBA shall be installed under the rear of the apparatus body that meets minimums requirements of NFPA 1901. It shall be automatically activated whenever the transmission is in the reverse mode of operation.

SAFE FLEET BACKUP SAFETY SYSTEM

An RVS-115 backup safety system shall be installed with four (4) sensors mounted in the rear tailboard of the vehicle and an LCD display with speaker mounted in the cab. The system shall be activated when driver switches the transmission into reverse. The system shall alert the driver of potential obstacles. The audio pulse intensity shall increase and the audio frequency change as the vehicle backs closer to the obstacle. Location of the LCD display shall be determined at the preconstruction meeting.

REAR VISION COLOR CAMERA SYSTEM

A color camera shall be installed on the upper rear body.

5. The camera shall provide high-resolution Color and be mounted in an anti-corrosion aluminum alloy housing.
6. Pixel resolution of the camera shall be not less than 510(H) x 492(V). It shall be IP68 rated for water and dust protection.
7. The camera shall feature a photo sensor and (16) infrared LEDs for low-light/no-light conditions and shall have a minimum 110-degree viewing angle.
8. The image shall be displayed on the LCD Vista color screen in the console.
9. It shall be automatically displayed whenever the vehicle is in the reverse mode of operation or manually activated by a separate activation switch location on the Vista control panel.

TELESCOPING POLE FOR WEATHER GREEN COMMAND BEACON

A five (5) foot push-up type pole shall be bolted to the rear of the apparatus body. Positioning shall permit the command beacon to be positioned, in the fully extended position, as high above the body as position. At a minimum, the pole shall be constructed of 6063 aluminum, deep etched and clear anodized to a 204-R1 specification and shall comply with Military Specification 171 (Mil-A8625c-class1). The pole shall rotate 360 degrees left and right.

CARBON MONOXIDE MONITOR

A wall mounted carbon monoxide (CO) monitor shall be installed in the personnel compartment next to the entrance door to monitor and alert of accidental build-up of this deadly gas within the confines of the compartment without detection. The monitor shall be placed near the entrance door of the specified compartment.

CAT6/RJ45 DATA JACK

Two (2) CAT6/RJ45 phone jack shall be installed above the work surface at each workstation.

LCD MONITOR - 20"

Two (2) minimum 20" HD monitors shall be installed on the street side workstations. They shall feature not less than a 1600 x 900 resolution and 1000:1 contrast ratio.

INSTALL CUSTOMER SUPPLIED RADIO

The purchaser shall supply the final stage manufacturer with a customer supplied radio for subsequent installation in the completed apparatus. Brand and Model shall be determined at the pre-construction meeting.

- The radios shall be shipped to the manufacturer upon notification of start of production.
- The radios shall be shipped complete with radio manufacturers supplied mounting brackets and all wiring harnesses.
- The manufacturer shall connect the radio power interface to an isolated circuit direct from the chassis battery.
- Measures shall be taken to insure minimal RFI.
- Apparatus manufacturer shall not be responsible for tuning of the antenna or frequencies.

ANTENNA COAXIAL PRE-WIRING

Two (2) two-way radio coaxial cable shall be routed from cab chassis roof to the center cab console on the floor. The termination point at the radio site shall have a PL259 connector soldered to the coaxial. The termination point at the antenna site shall be supplied with 1-1/8" brass base for a Motorola antenna.

Twenty (20) two-way radio coaxial cables shall be routed from modular roof to the computer cabinet located interior street side wall. The termination point at the radio site shall have a PL259 connector soldered to the coaxial. The termination point at the antenna site shall be supplied with 1-1/8" brass base for a Motorola antenna.

VOICE INTERCOM

A Fire Research model ICA400 voice intercom shall be provided that permits two-way voice communication between the master and remote monitoring stations.

- The two-way intercom system shall include a master station with volume and Push-To-Talk (PTT) controls and a remote station that provides hands-free operation.
- The remote station shall always be in the transmit mode unless interrupted by a transmission from the master station.
- The master intercom station shall be installed on the center cab console. The remote station shall be installed on the street side workstation.

120/240VAC ELECTRICAL SYSTEM REQUIREMENTS

General Requirements: The complete wiring and electrical installation shall conform to the current National Electrical Code (NECA) applicable to mobile applications, except where superseded by NFPA. #1901 Chapter 19 standards. All electrical equipment installed shall be suitable for intended use and type locations (wet, dry, or underbody and chassis).

The system shall be installed or supervised by a licensed electrical technician(s) to assure the required level of safety and protection to the fire apparatus operators.

The wiring, electrical fixtures and components shall be to the highest industry quality standards available on the open market. The equipment shall be the type as designed for mobile type installations subject to vibration, moisture, and severe continuous usage. For this reason, use of any solid conductor (non-stranded) wiring, such as Romex, shall not be accepted.

The following electrical components and wire shall be the minimum acceptable standard for this type of apparatus:

- **Wiring:** All AC electrical primary wiring rated at 20 amps and higher shall be fine stranded copper type THHN. THHN cable is much more flexible for mobile routing applications and is required in lieu of industry standard THHN, which is not as flexible. The wire shall be sized to load and circuit breaker rating.

Electrical cables or conduit shall not be attached to chassis suspension components, water, fuel or brake lines, 12VDC wiring or harnesses and not be within 12 inches of any exhaust system component or 6 inches of fuel lines.

- Circuit Breaker Box: The circuit breaker box shall be equal in quality to Square D with a hinged cover or door. All circuit breakers shall be switch rated and sized to load demand.
- Receptacle and Inlet Devices: Any exterior outlets specified herein shall be mounted in cast aluminum or zinc die cast boxes with weather resistant snap open covers. An isolation gasket shall be used whenever any portion of the outlet or covers comes into contact with a body panel.

Where subjected to wet locations, the receptacle outlet and inlet devices, including those on hardwired remote power distribution boxes, shall be of grounding type provided with a wet location cover and installed in accordance with Section 210-7 Receptacles and Cord Connections of the NEC.

All receptacles located in wet locations shall be installed in a plane from vertical not less than 24 inches from the ground.

All receptacles located in a dry location shall be of the grounding type.

All receptacles shall be marked with the type of line voltage (120 volts or 240 volts) and the current rating in amps. If the receptacles are direct current, or other than single phase, they shall be so marked.

- Labeling: All circuit breakers, outlets, fixtures, or appliances shall be properly labeled identifying voltage and amperage rating. The labels shall display a minimum 14 pt. letters or numerals and be of a contrasting color to the apparatus background surface to which they are affixed. If imprinted labels are utilized, they shall have a clear Mylar type surface coating that prevents smearing or damage by weather or petro-chemicals.
- Load Balance: To provide proper loading and efficient generator operation, the 120 volt wiring shall be split to permit a balanced load condition.
- Grounding: Grounding shall be in accordance with Section 250-6 "Portable and Vehicle Mounted Generators" of the NEC. Ungrounded system shall not be used. Only stranded or braided conductors shall be used for grounding and bonding.

An equipment grounding means shall be provided in accordance with Section 250-91 (Grounding Conductor Material) of the NEC.

The grounded current carrying conductor (neutral) shall be insulated from the equipment grounding conductors and from the equipment enclosures and other grounded parts. The neutral conductor shall be colored white or gray in accordance with Section 200-6 (Means of Identifying Grounding Conductors) of NEC.

In addition to the bonding required for the low voltage return current, each body and driving or crew compartment enclosure shall be bonded to the vehicle frame by a copper conductor. This conductor shall have a minimum amperage rating of 115 percent of the nameplate current rating of the power source specification label as defined in Section 310-15 (amp capacities) of the NEC. A single conductor, properly sized to meet the low voltage and line voltage requirements shall be permitted to be used.

All power source system mechanical and electrical components shall be sized to support the continuous duty nameplate rating of the power source.

- Over-current Protection: The conductors used in the power supply assembly between the output terminals of the power source and the main over current protection device shall not exceed 144 inches in length, unless used on trailer applications.

For fixed power supplies, all conductors in the power supply assembly shall be type THNN, THW, or use stranded conductors enclosed in nonmetallic X-Flex, Liquid Tite or equal flexible conduit rated for a minimum of 194 degrees F.

For portable power supplies, conductors located between the power source and the line side of the main, over-current protection shall be Type SOW or Type SEO with suffix WA flexible cord rated for 600-volts at 194 degrees F.

- Wiring Methods: Fixed wiring system shall be limited to the following:
 - Metallic or nonmetallic X-flex, Liquid Tite or equal flexible conduit rated at not less than 194 degrees F.
 - Type SOW or Type SEO cord with a WA suffix, rated at 600-volts at not less than 194 degrees F.
 - Electrical cord or conduit shall not be attached to chassis suspension components, water or fuel lines, air or air brake lines, fire pump plumbing, hydraulic lines, exhaust system components, or low voltage wiring. In addition, the wiring shall be run as follows:
 - Separated by a minimum of twelve (12) inches, or properly shielded from exhaust piping.
 - Separated from fuel lines by a minimum of six (6) inches.
 - Electrical cord or conduit shall be supported within six (6) inches of any junction box and at a minimum of every 24-inches of continuous run. Supports shall be made of nonmetallic materials or corrosion protected metal. All supports shall be of a design that does not cut or abrade the conduit or cable and shall be mechanically fastened to the vehicle.
- Wet Locations: All wet location receptacle outlets and inlet devices, including those on hardwired remote power distribution boxes, shall be of the grounding type provided with a wet location cover and installed in accordance with Section 210-7 "Receptacles and Cord Connections" of the NEC.

All receptacles located in a wet location shall be not less than 24 inches from the ground. Receptacles on off-road vehicles shall be a minimum of 30 inches from the ground.

The face of any wet location receptacle shall be installed in a plane from vertical to not more than 45 degrees off vertical. No receptacle shall be installed in a face up position.

- Dry Locations: All receptacles located in a dry location shall be of the grounding type. Receptacles shall be not less than 12 inches above the interior floor height.

All receptacles shall be marked with the type of line voltage (120-volts or 240-volts) and the current rating in amps. If the receptacles are direct current, or other than single-phase, they shall be so marked.

- Listing: All receptacles and electrical inlet devices shall be listed to UL 498, Standard for Safety Attachment Plugs and Receptacles, or other appropriate performance standards. Receptacles used for direct current voltages shall be rated for the appropriate service.

- Operational Test to NFPA 1901, section 23.16: The following test shall be performed by the apparatus manufacturer prior to final delivery to test and certify that the power source and any devices that are attached to the line voltage electrical system are properly connected and in working order.
- The prime mover shall be started from a cold start operation and the line voltage electrical system loaded to 100 percent of apparatus load or nameplate rating of power source whichever being the lesser. The following information shall be recorded:

The cranking time until the prime mover starts and runs, if applicable.
 - The voltage, frequency, and amperes at continuous full rated load.
 - The prime mover oil pressure, water temperature, transmission temperature, hydraulic temperature, and the battery charge rate, as applicable.
 - The ambient temperature and altitude.
- The power source shall be operated at 100 percent of apparatus load or of its nameplate voltage rating (whichever is the lesser) for a minimum of two (2) hours in accordance with NFPA 1901 and U.L. (See U.L. testing requirements).
- When the line voltage power is derived from the vehicles low voltage system, the minimum continuous electrical load as defined in Chapter 9 shall be applied to the low voltage electrical system during the operational test. Any termination of line voltage power by the low voltage load management system shall be noted and the duration of the periods of line voltage power source shutdown shall be recorded.
- The results of the U.L. test listed in this section shall be supplied to the purchaser at the time of delivery (*portable generators are excluded*).
- Wiring Schematics: An electrical wiring schematic diagram generated by a CAD program shall be provided with the completed apparatus. It shall be an as built schematic listing the agency name and the serial number of the body. An indicative schematic shall be enclosed with the bid response.

DIESEL GENERATOR - 8.0KW

Manufacturer:	Power Tech
Model:	PT-8000
Voltage:	120/240
Amperage:	66/33
Alternator:	brushless with automatic voltage regulator
Engine:	Diesel, water-cooled Kubota
Engine type:	4-cycle, indirect-injection
Cylinder arrangement:	3 inline
Rated RPM	1800
Maximum horsepower, continuous	13.6
Governor:	Mechanical
Air Cleaner Type:	Dry

Filters:	spin-on oil and fuel
Exhaust:	stainless steel flex with exhaust silencer
Engine and alternator cooling:	fan guards with suction fan
Engine Shut-down modes:	Automatic low oil pressure, high water temperature
Battery charging alternator:	12-volt, 30 amp
Fuel prime pump:	Electric fuel lift
Recommended fuel:	#2 diesel, low sulfur
Mounting:	4-point with vibration isolators
Serviceability:	one-sided (air filter, fuel filter, lube oil filter, oil drain, oil check, and water drain)
Remote control panel:	One-touch remote start trigger; DC power supply voltage measurement; AC output voltage and current measurements; AC outlet frequency measurement; blink code fault reporting; oil pressure display; coolant temperature display; event recording; load profiling
Fuel consumption:	0.72 gal/hr. 0.60 gal/hr. 0.38 gal/hr. 0.25 gal/hr.
Weight:	420 lbs.
Dimensions:	Length: 36.4" Width: 24.9" Height: 19"

The exhaust shall terminate and exit on the street side of the vehicle.

A remote panel shall be installed cab console. It shall feature a hour meter and start/stop switch.

A remote panel shall be installed on the interior power distribution panel. It shall feature an hour meter, start/stop switch, analog coolant temperature and oil pressure gauge.

Four (4) air bag type vibration isolators shall be installed between the generator assembly and the floor.

A heated fuel water separator shall be integrated between the fuel tank and the engine.

The muffler and any exposed exhaust piping that is exposed in front of the generator installation shall be provided with a thermal blanket.

UL CERTIFIED DIELECTRIC VOLTAGE WITHSTAND TEST

The generator and all related electrical systems shall be independently tested and certified in writing by Underwriters Laboratories (UL). The testing shall conform to NFPA 1901, Chapter 23.16.2 requirements.

The wiring and permanently connected devices and equipment shall be subjected to a dielectric voltage withstand test of 900 volts for 1 minute.

The dielectric tester shall have a 500 volt-amperes (VA) or larger transformer, with a sinusoidal output voltage that can be verified.

The testing shall be performed by the apparatus manufacturer during final quality control assurance test prior to final delivery.

The test shall be conducted as follows:

- Isolate the power source from the panel board and disconnect any solid state low voltage components.
- Connect one lead of the dielectric tester to all the hot and neutral busses tied together.
- Connect the other lead to the fire apparatus frame or body.
- Close any switches and circuit breakers in the circuits.
- Apply the dielectric voltage for 1 minute in accordance with the testing equipment manufacturer's instructions.

The electrical polarity of all permanently wired equipment, cord reels, and receptacles (as applicable) shall be tested to verify that wiring connections have been properly made.

Electrical light towers, floodlights, motors, fixed appliances, and portable generators (as applicable) shall be operated at their full rating or capacity for 30 minutes to ensure proper operation.

Testing procedures shall be conducted as outlined in NFPA 1901, Chapter 23.16.5.3. ***The results of each test shall be recorded, with the name of the end user on the certification certificate and provided with the delivery documentation.***

120/240VAC POWER DISTRIBUTION CENTER

The line voltage electrical system shall comply with applicable NFPA 1901 standards and with applicable sections of the National Electrical Code #70 standards. Line voltage carrying equipment downstream of the power source shall be "listed" (where applicable) in accordance with manufacturer's instructions.

A 120/240VAC power distribution center shall be installed on the power distribution cabinet. The power enclosure shall accommodate the following:

- Power Distribution Panel shall be mounted on swing out service access door
 - 120VAC breaker switches with legends in three rows (24-total)
 - 240VAC breaker switches with legends (2, plus Main)
- 100-amp transfer switch with legends from generator to shore power
- Digital ammeter/voltmeter with low and high voltage alarm

- Line voltage test selector switch
- Reverse polarity warning indicator light

A 100-amp main over current protection device shall be provided that is either incorporated in the power source or is connected to the power source by a power supply assembly.

- The size of the main over current protection device shall not exceed 125 percent of the nameplate amperage rating on the power source specification label or the rating of the next larger available size over current protection device where so recommended by the power source manufacturer.

GROUND CABLE AND CLAMP 15FT

(1) Spring rewind reel with 15 foot of 300 amp ground cable and a clamp shall be furnished along with a 24" grounding rod.

50-AMP SHORE-POWER INLET

A 50 amp, 240VAC inlet equal to Bryant 6374CR and connector equal to Bryant 6364CR shall be installed on the street side exterior body. It shall be connected directly into the main circuit breaker panel. The shore-power connection shall power all 240/120VAC circuits on the apparatus. A metallic tag reading SHOREPOWER shall be installed above the inlet.

DROP CORD TO SHOREPOWER

A minimum 50-ft long power cord rated at minimum 50-amps shall be supplied with the completed apparatus. It shall be a male twist-lock outlet on one end and a female receptacle on the opposite end.

AUTOMATIC POWER TRANSFER RELAY

There shall be an automatic power transfer relay incorporated in the 120/240VAC electrical system that automatically transfers power from the shore-power input to the power distribution panel that prevents back feed into the generator whenever the shore-power is plugged into an outside power source. The circuit shall be rated at 50 amps and power the circuits for the battery charger.

ISOLATED BODY BATTERY SYSTEM

A separate battery system shall be installed within the body that permits totally separate operations of all 12vdc system (except emergency and ICC lights) on the body.

- The system shall include two (2) Optima brand Yellow-Top series batteries rated at 950 CCA each
- Installed in an exterior body within a noncorrosive battery box.
- The batteries shall be wired using 1/0 cable with heat shrink on all terminal points.
- A 80-amp battery charger/conditioner with a micro-processor-controlled system that constantly monitors the battery voltage and use to ensure a rapid, yet safe re-charge shall be connected to the generator and shore-

power connections and shall provide power to all body mounted 12vdc components, except emergency and DOT lights.

- The batteries shall be provided an interconnect controller that is used to charge two batteries from a single or multiple power sources.
- The separator logic disconnects the two circuits when the voltage falls below battery resting voltage.
- The bi-stable solenoid remains open or closed without parasitic coil loss.
- The solenoid is rated for 300 Amps continuous and 2400 Amps momentary overload with 500 VAC minimum electrical isolation.
- The solenoid contact voltage drop is 0.15 Volts at 300 Amps resistive load with a rated life of 50,000 cycles at full load.

EXTERIOR DUPLEX OUTLET

Two (2) 20 amp (5-20), 120VAC duplex outlet mounted in a weatherproof exterior housing with spring-loaded covers and wired with 12/3 THNN wire shall be installed on the rear body.

- They shall be protected with a GFI circuit breaker.
- A sub-surface screen printed polycarbonate label with chrome bezel reading "120VAC-20A" shall be installed above each outlet.

INTERIOR DUPLEX OUTLET

Ten (10) 20 amp, 120VAC house type duplex outlet wired with 12/3 THNN wire shall be installed in the body determined by the interior layout.

- They shall be protected with a GFI circuit breaker.
- Cover plate shall be stainless steel.
- A sub-surface screen printed polycarbonate label with chrome bezel reading "120VAC-20A" shall be installed above each outlet.

OUTLETS, 120VAC PLUG MOULDING STRIP

One (1) 120VAC, 15 amp, GFCI protected plug molding strip outlets with plugs spaced approximately 6" apart shall be installed as follows: Equipment Rack

- The plug molding strip shall have an anodized aluminum exterior finish.
- A sub-surface screen printed polycarbonate label reading "120VAC-15A" shall be installed on the outlet strip.

POP-UP POWER & COMMUNICATIONS PORT

Located on rear conference room wall shall be a power and communications port with the following functions:

- (2) 110V, 15-amp power ports
- (1) CAT 6 data port - routed to front communications console
- (1) VGA 15-pin connector routed to monitors
- It shall feature a one-touch pop-up reveal panel and flush mount in the tabletop surface.
- (1) dual port USB power port

120VAC ROOF MOUNTED AIR CONDITIONER

One (1) Coleman Polar Mach model 9204 roof-mounted 120VAC RV type air conditioners rated at a minimum of 15,000 BTU each shall be provided for cooling/heating of the interior workspace.

- a. The system shall be provided with a circuit that permits use from either the on-board generator or the shore-power outlet.
- b. The unit shall be controlled by a wall mounted thermostat. The unit shall be equipped with a 100% condensate water removal system.

120V WALL MOUNT HEATER

There shall be a 1500 watt, 120 volt heater flush mounted into the wall of the personnel compartment. It shall be thermostatically controlled.

REFRIGERATOR/FREEZER

A Norcold model DE-0751BB combination 12VDC and 120VAC refrigerator/freezer shall be installed. It shall feature an easy access door on the front with an interior volume of 2.7 cu. ft. The unit shall act as refrigerator or freezer, based on the thermostatic setting. The compressor shall be hermetically sealed and self-lubricating. The system refrigerate shall be ozone safe. The unit shall automatically switch from DC to AC power, when AC power is available.

MISCELLANEOUS EQUIPMENT & SERVICES REQUIREMENTS

ABC FIRE EXTINGUISHER

A Badger or equal 5 lb. ABC rated dry chemical fire extinguisher shall be provided complete with wall mounting bracket.

DOT SAFETY KIT

Prior to departure from the manufacturing site, the completed apparatus shall have a DOT compliant safety kit placed in the cab within reach of driver containing the following equipment: one set of triangle markers; one (1) 12v flashlight; one (1) 2-1/2# BC fire extinguisher; and plastic carrying case.

OWNER'S MANUAL

An Owner's Manual shall be provided in two formats: (1) a hardcopy inside a 3-ring binder and digital version on a CD ROM. They shall, at a minimum, contain the following data:

- Customer name, address and contact information
- Customer Service contact information
- All "as wired" schematics for both 12VDC and 120/240VAC systems.
- Alternator SAE Rating
- Electrical system amperage draw report
- CD-ROM of electrical system programming and schematics stored in a plastic sleeve.
- Battery quantity, size and cranking amp rating
- Apparatus manufacturer's name, model and production identification number
- Chassis manufacturer's name, model and serial number
- Engine make, model, horsepower rating
- Engine oil type and capacity
- Transmission make, model, fluid capacity
- GAWR of front and rear axles
- Front and rear tire size and total rated capacity in pounds
- Completed apparatus weight certificates (front axle, rear axle, total)
- Completed apparatus weight distribution (at time of delivery)
- Fuel type and tank capacity
- Urea tank capacity (if applicable)
- U.L. certification documents (as applicable)
- Operational and troubleshooting procedures.
- Paint brand and code(s)
- Key codes (cab, body, ancillary compartments)
- All data, operations manuals, warranty information and schematics, as supplied by installed component manufacturers.
- Body, frame and paint warranty documents.

The manufacturer's and applicable dealer's telephone numbers and contact person(s) names shall be supplied within the binder.

FUEL TANK FILLED AT DELIVERY

The fuel tank shall be filled upon final delivery to the Nassau County DPW.

FINAL DELIVERY

The completed apparatus shall be delivered, under its own power, to the location specified at the pre-construction conference.

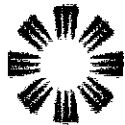
PRE-CONSTRUCTION CONFERENCE

Immediately after notification of contract award, the successful bidder shall schedule a pre-construction conference between the appointed representatives of the purchaser and the contractor. The conference shall be held not later than 30 days after notification at the Nassau County Fire Communications Office. The contractor shall present a set of final engineering construction drawings and line item production shop order complying with

the specifications outlined herein. Should the purchaser deem that the contractor has not properly interpreted the specifications or does not intend to manufacture the emergency vehicle as specified, appropriate corrective actions shall be agreed upon and the conference shall be rescheduled. Should the purchaser determine, at the second conference, that the contractor remains unable to meet the intent of the specification; the contract may be deemed null and void.

FACTORY FINAL INSPECTION

A factory final inspection shall be conducted prior to release of the completed apparatus for delivery. The inspection shall verify compliance to the specifications and fit and finish. Expenses for travel for (3) persons shall be included in the contract price and include airfare; hotel accommodations; rental car (as applicable); and meals while at the factory. Upon correction of any discovered discrepancies, the vehicle shall be released for delivery under its own power to the appointed destination. A final acceptance inspection shall be conducted upon arrival to ensure all discovered discrepancies have been properly corrected.



VT Hackney

A company of VT Systems

NASSAU COUNTY FIRE MOBILE COMMAND UNIT

NASSAU COUNTY FIRE MOBILE COMMAND UNIT

Sales Rep:

Terms:

Drawing #:

Est. Delivery Date: / /

Customer PO #:

Penalty:

Customer #:

QPF #:

Exp. Date: 06/18/2017

Quote No: -

BODY: CM1400

COMMAND 14-FT - revised 08/12

08/03/2018

Page 1

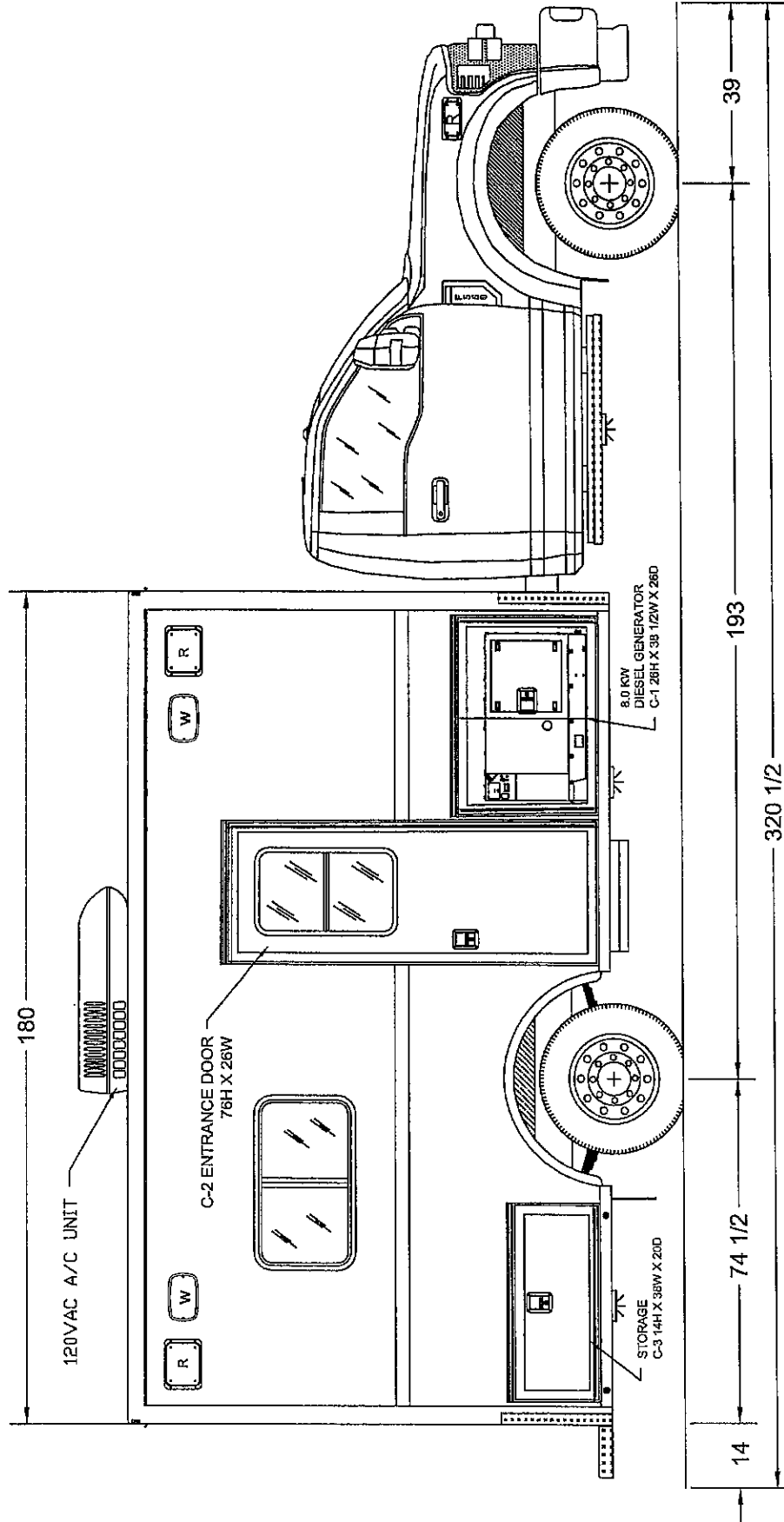
PART NO	DESCRIPTION	QTY
	== COMMAND 14-FT - revised 08/12 - 1.001 ==	1
00-00-0000	=== QW Release - Effective 09/17 ===	1
02-10-1010	OAH Restriction - Specify	1
02-10-1110	OAL Restriction - Specify	1
05-00-0010	INTENT OF SPECIFICATIONS - COMMAND/TACTICAL	1
	CAB AND CHASSIS	1
10-04-5210	FORD F-550 - 2-DR/4WD XL-108"CA -193 WB	1
	CHASSIS RELATED OPTIONS	1
10-19-0100	FLUID LEVEL DATA - ELECTRONIC DISPLAY	1
10-19-1025	"MUST BE SEATED AND BELTED" - WARNING PLATE	1
10-19-1050	"SEATING OCCUPANCY" - WARNING PLATE	1
10-99-2510	EXHAUST PIPE EXTENSION - FORD SUPER-DUTY	1
11-33-0802	GROUND LIGHTS - TECNIQ LED - FRONT CAB DOOR (PR)	1
12-10-5000	RUNNING BOARDS - TREADPLATE - F550 2-DR	1
16-10-1000	TOW EYES - RECESSED (SF MODELS ONLY) (PR)	1
	BODY and FRAME OPTIONS	1
20-00-3215	MOUNT COMMANDER BODY - 15-19-ft	1
20-05-0000	BODY CONSTRUCTION - COMMANDER SERIES - Bid Format	1
20-20-1500	BODY, CM1500 COMMANDER	1
20-49-9000	OVERALL HEIGHT PLATE - NFPA	1
	BODY OPTIONS	1
20-51-0110	ROOF, BRIGHT ALUMINUM TREADPLATE - STD PATTERN	1
20-70-0110	DOOR, SIDE PERSONNEL ENTRANCE - up to 74" H	1
20-70-0150	WINDOW, DOOR - 30"H X 18"W - SLIDING - clear anodized frame (EA)	1
20-70-0161	GRAB RAIL - CURVED - STD DOOR	1
20-70-0181	WINDOW - BODY - 18"H X 36"W - SLIDING (EA) - Solar Tint	1
20-70-1000	EXTERIOR COMPARTMENT CONSTRUCTION	1
20-70-1010	GENERATOR COMPARTMENT CONSTRUCTION	1
20-70-1101	HINGED COMPARTMENT DOOR CONSTRUCTION	1
20-70-SPO1	POWER DOOR LOCK (BODY)	7
20-71-0120	FRONT BODY PANEL - PAINTED	1
20-71-0320	FENDERETTES, STAINLESS STEEL (PR)	1

PART NO	DESCRIPTION	QTY
20-71-1291	RUB RAILS, LOWER BODY - C-CHANNEL - up to 15-ft Body	1
20-71-2600	ROOF ANTENNA MOUNTING RAILS - (2) 58"	1
20-72-2000	FUEL FILLER - W/HINGED ACCESS DOOR - CPI	1
20-72-2195	DEF FILL - AJACENT TO FUEL FILL	1
20-72-3000	ULTRA-LOW SULFUR DIESEL FUEL ONLY LABEL	1
	INTERIOR PERSONNEL COMP'T OPTIONS	1
21-01-1501	INTERIOR WALLS, CEILING & INSULATION - CARPETED -15-ft	1
21-08-0200	CABINET - CONSTRUCTION	1
21-08-0240	CABINET - CLOSET - 22W X 60 3/4H X 28D HANGING ROD AND (3) ADJ SHELVES	1
21-08-0243	CABINET - UPPER - 77W x 16H x 14D - FOLD UP DOORS	1
21-08-0519	CABINET, LOWER W/FRIG - 23.75W x 25H x 28D	1
21-08-0548	CABINET, FILE - 2-DRAWERS - BLACK POLYETHYLENE	2
21-08-0552	COMMS CONSOLE - 77"	1
21-08-0674	CABINET - ELECTRONICS RACK - 24W x 70 3/4H X 24"D	1
21-08-0741	CABINET - UPPER POWER DISTRIBUTION	1
21-08-0809	CONFERENCE TABLE - 60"L x 30"W - SOLID SURFACE	1
21-20-0100	CHAIR, SWIVEL LOW BACK TASK (EA)	2
21-20-0505	SEAT, BENCH - 2-MAN - 72"	1
21-20-0506	BACKREST CUSHION - 65"	1
21-20-0520	BENCH, SEAT - 3-MAN - 90"	1
21-20-0521	BACKREAST CUSHION - 89" 3-PC	1
21-25-0105	MARKER BOARD - WHITE DRY-ERASE - 36L X 20H	1
21-30-1014	FLOORING - LONSEAL SAFETY - 15-ft	1
21-49-SPEC	INTERIOR CONSTRUCTION STATEMENT - BID	1
	EXTERIOR BODY OPTIONS	1
22-21-0000	STONE GUARDS, FRT & REAR - D/P CORNERS (4)	1
22-21-0100	REAR DIAMOND PLATE KICK PANEL - ILOS	1
22-25-2000	BUMPER, REAR STEP BRIGHT TREAD PLATE	1
22-25-6260	STEP, SIDE DOOR MANUAL - SINGLE	1
22-40-3000	WHEEL CHOCK - ZICO AC-2 (EA)	1
22-40-3105	WHEEL CHOCK BRACKET - HORIZONTAL FOR ZICO AC-2 (EA)	1
22-50-3005	LICENSE FRAME W/LIGHT-SURFACE MNT-CPI C30004	1
22-51-1000	MUD FLAPS, REAR (PR) BLACK RUBBER	1
23-80-1000	TURTLE-TILE - UP TO 48"x40" (Black)	4
	EXTERIOR OPTIONS	1
26-00-0040	LABEL - "CAUTION - ROOF NOT WALKING-WORKING SURFACE"	1
	PAINT OPTIONS	1
40-00-0110	PAINT COMMANDER RESCUE BODY - ONE COLOR - STD 15-19	1
41-00-0000	DO NOT RE-PAINT CAB	1
42-12-0000	TOUCH-UP PAINT, ONE QUART	1
42-99-0000	UNDERCOATING CAB, FRAME & BODY	1
43-20-8001	CHEVRON STRIPE - REAR BODY - PRINTED	1
45-22-1000	CUSTOM LETTERING OR GRAPHICS -ALLOWANCE	1
	12VDC ELECTRICAL OPTIONS	1
50-00-0400	ELECTRICAL SYSTEM - V-MUX MULTIPLEX - Bid Format	1
50-00-2110	PANAVISE SWIVEL MOUNTING BRACKET	1
50-03-0001	TEMPERATURE SENSOR & READ-OUT - EXTERNAL	1
50-05-0000	AMP DRAW REPORT - NFPA 1901, Section 9-15	1
50-06-0000	MESSAGE DISPLAY - DO NOT MOVE TRUCK	1
50-06-1100	SAFETY INTERLOCK SYSTEM - LIGHT DUTY CHASSIS	1
50-10-0012	CAB CONSOLE - FLOOR MOUNT - FORD F-550 - VISIONMUX/V-MUX	1
50-20-SP01	BRACKET-CCSRN36 SAPPHIRE SIREN WHELEN	1
	DOT LIGHTING	1
50-40-0100	CLEARANCE LIGHTS, LED & REFLECTORS	1
50-50-1000	STOP/TAIL/BACKUP/TURN - LED - WHELEN PLAST3V - C6 Series	1
	12VDC APPARATUS ILLUMINATION and OPTIONS	1
51-10-1810	SCENE LIGHT - SIDE - WHELEN M9 LED OPTI-SCENE (EA)	4
51-10-2850	SCENE LIGHT - REAR - WHELEN M9 LED OPTI-SCENE (EA)	2
51-11-0100	SCENE LIGHT - REAR REVERSE ACTIVATED - V-MUX	1
51-11-0150	SCENE LIGHT - SIDE REVERSE ACTIVATED - V-MUX	1

PART NO	DESCRIPTION	QTY
51-11-0170	SCENE LIGHT - SIDE TURN SIGNAL ACTIVATED - V-MUX	1
51-19-0110	GROUND LIGHTS - TECNIQ LED - UNDERBODY MOUNTED (EA)	5
	12VDC COMPARTMENT and INTERIOR LIGHTING	1
51-50-2500	COMPARTMENT LIGHT - 4" LED	5
51-51-7000	STEPWELL LIGHT - LED LINEAR	1
51-55-1000	COMP'T OPEN WARNING & AUTO ACTIVATION - V-MUX	1
51-65-1111	LIGHT - UNDER CABINET LED - RED/WHITE	1
51-65-1115	SWITCH, UNDER CABINET LIGHT	1
51-65-1210	DOME LIGHT - WHELEN SUPER-LED HI/LOW INTENSITY - 8" RED/CLEAR	8
52-50-0210	STREAMLIGHT FIRE VULCAN LED HANDLIGHT (EA)	4
	UPPER ZONE A FRONT CAB WARNING LIGHTS	1
54-01-SP01	WHELEN C9LRC RED SURFACEMAX - CLEAR LENS W/C9FC CHROMED BEZEL (ea)	7
	LOWER ZONE A - FRONT CAB WARNING LIGHTS	1
54-10-07RC	WHELEN C7LRC RED SURFACEMAX - CLEAR LENS W/C7FC CHROMED BEZEL (ea)	2
54-15-5000	HEADLIGHT WIG-WAG PATTERN - V-MUX	1
	LOWER ZONE B/D - CAB INTERSECTION WARNING LIGHTS	1
54-20-07RC	WHELEN C7LRC RED SURFACEMAX - CLEAR LENS W/C7FC CHROMED BEZEL (ea)	2
	LOWER ZONE C - REAR BODY WARNING LIGHTS	1
54-25-06RC	WHELEN C6LRC RED SURFACEMAX - CLEAR LENS W/C6FC CHROMED BEZEL (ea)	2
	UPPER ZONE B/D - SIDE BODY WARNING LIGHTS	1
54-30-09RC	WHELEN C9LRC RED SURFACEMAX - CLEAR LENS W/C9FC CHROMED BEZEL (ea)	4
	UPPER ZONE C - REAR BODY WARNING LIGHTS	1
54-31-09RC	WHELEN C9LRC RED SURFACEMAX - CLEAR LENS W/C9FC CHROMED BEZEL (ea)	2
54-34-1000	WHELEN BEACON LED -L32L4F GREEN LED WITH CLEAR LENS	1
	SIRENS and SPEAKERS	1
55-22-SP01	SIREN-WHELEN ELECTRONIC CCSRN36	1
55-30-1000	HORN/SIREN SWITCH	1
55-41-5001	SPEAKER, SIREN - F-550 - CPI THRU-THE-BUMPER (DRIVER - 2017)	1
	12VDC MISCELLANEOUS OPTIONS	1
57-50-0500	CLOCK - ATOMIC DIGITAL	1
57-50-SP01	SECURE - IDLE IGNITION OVERRIDE PN-SI340U	1
58-50-1000	12VDC POWER STRIP - (6) TERMINALS - CAB	1
58-50-1100	12VDC POWER STRIP - (6) TERMINALS - BOD"Y	4
58-51-0120	POWER POINT RECEPTACLE - 12VDC IN BODY - (2)	2
58-51-0302	USB DUAL CHARGER PORT	3
58-80-1000	BACK-UP ALARM - FEDERAL 210333	1
58-82-0010	REARVIEW COLOR CAMERA WITH NIGHTVISION	1
58-82-SP01	REAR VIEW SAFETY BACK UP SENSOR SYSTEM RVS-115	1
58-85-0129	TELESCOPING POLE - FOR COMMAND BEACON LIGHT (GREEN)	1
58-90-0000	CARBON MONOXIDE MONITOR	1
	COMMUNICATIONS AND AUDIOVISUAL SYSTEMS	1
59-35-0550	CAT-6 INPUT & BOX	4
59-35-0552	PHONE JACK - CAT5/RJ45	4
59-40-0200	MONITOR - 20" LED	2
59-58-5900	RADIO, INSTALL CUSTOMER SUPPLIED	1
59-59-0000	ANTENNA COAXIAL W/CONNECTOR - MOTOROLA 17'	22
59-60-0150	INTERCOM, VOICE - FRC ICA400 - 2-STATION	1
59-70-0910	AIR COMPRESSOR - 12VDC PRE-WIRE ONLY	1
	240/120VAC ELECTRICAL OPTIONS	1
60-00-0500	ELECTRICAL - 120/240V - STANDARDS REQUIREMENTS	1
	GENERATOR and OPTIONS	1
61-00-1208	GENERATOR- POWER TECH 8.0KW DIESEL	1
61-00-1281	REMOTE PANEL - POWER TECH STANDARD	1
61-00-1282	REMOTE PANEL - POWER TECH DELUXE	1
61-00-1285	AIR BAG VIBRATION ISOLATORS (4)	1
61-00-1288	FUEL WATER SEPARATOR - HEATED	1
61-00-1291	THERMAL MUFFLER BLANKET	1
61-08-2000	UL DIELECTRIC VOLTAGE WITHSTAND TEST - U.L.	1
61-60-1500	POWER DISTRIBUTION PANEL - 2- POLE w/TRANSFER SWITCH	1
61-61-SP01	15FT GROUND CABLE AND CLAMP AND 24" ROD	1

PART NO	DESCRIPTION	QTY
120/240VAC OUTLETS, REELS and OPTIONS		
62-20-4000	SHOREPOWER INLET, 50 AMP TO BREAKER PANEL	1
62-30-7150	DROP CORD - 50AMP w/CONNECTORS - 50-ft	1
62-75-0030	POWER TRANSFER RELAY, AUTOMATIC - 50 AMP	1
62-80-0300	BATTERY SYSTEM - SEPARATE BODY	1
63-00-1000	OUTLET 120V DUPLEX EXTERIOR WEATHERPROOF 20A	2
63-10-1000	OUTLET 120V DUPLEX INTERIOR W/GFI, 20A (EA)	10
63-10-3500	OUTLET STRIP - PLUG MOLDING - up to 6' Section	1
63-10-3600	POWER COMMUNICATIONS FLIP-UP PANEL	1
120/240VAC MISCELLANEOUS OPTIONS		
68-00-1010	AIR CONDITIONER, 120V ROOF MOUNTED RV TYPE	1
68-10-1000	HEATER, 1500W 120V - FLUSH WALL MOUNT (EA)	2
69-10-0050	REFRIGERATOR/FREEZER - NORCOLD DE-0751BB - 2.7 CU.FT.	1
MISCELLANEOUS EQUIPMENT and SERVICES		
89-15-0000	FIRE EXTINGUISHER - 5# ABC BADGER	1
89-99-9600	DOT SAFETY KIT	1
ADMINISTRATIVE - FIXED		
98-00-5104	FINAL QC - COMMAND	1
98-01-1000	MANUAL, HACKNEY OWNERS W/SCHEMATICS	1
98-10-1500	PRE-DELIVERY CLEAN-UP - CAB & BODY	1
98-11-1000	FUEL TANK FULL AT FACTORY DELIVERY (up to 50-gallon tank)	1
99-10-0000	DELIVERY EXPENSE - HACKNEY 550 MILES	1
99-15-0005	PRE-CONSTRUCTION CONFERENCE - FACTORY VISIT - DEALER	1
99-20-0100	INSPECTION TRIPS - DEALER	1

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CORPORATION. 2015 VT HACKNEY INC. A COMPANY OF VT SYSTEMS

VT Hackney
A company of VT Systems

Hackney

Kelton

WASHINGTON, NC 27885-0880

CUSTOM DESIGN FOR

NASSAU COUNTY
FIRE COMMUNICATIONS

DATE 11-16-17

SHEET 1 of 1

MODEL 0000

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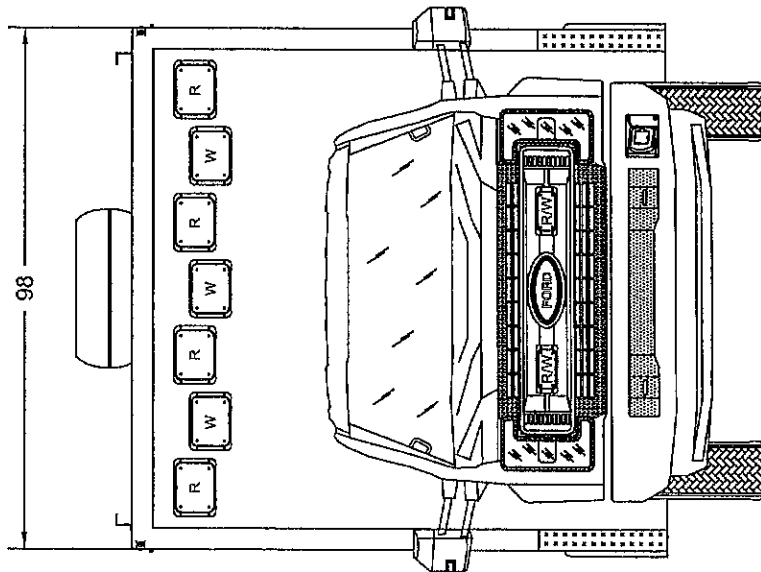
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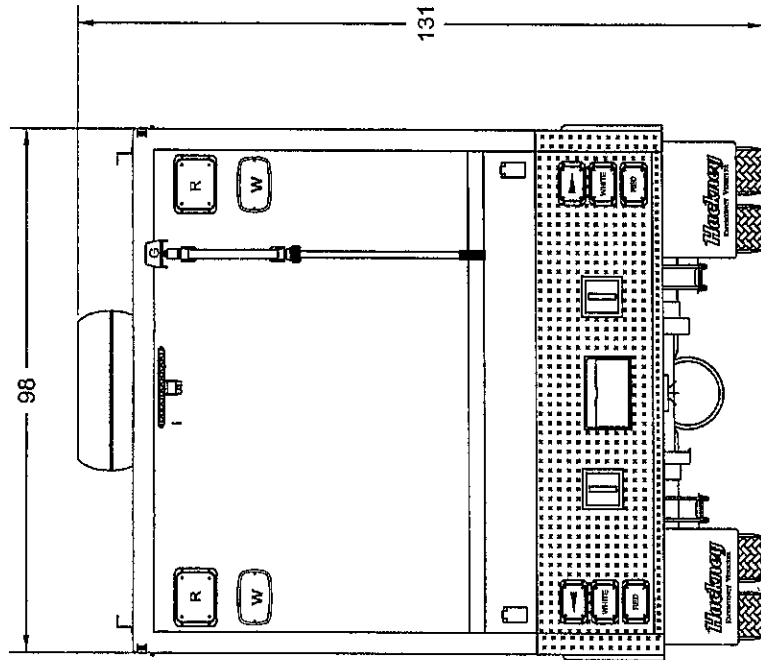
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FRONT VIEW



REAR VIEW

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VT Hackney
A company of VT Systems
WASHINGTON, NC 27688-0800



CUSTOM DESIGN FOR

**NASSAU COUNTY
FIRE COMMUNICATIONS**

DRAWN BY
EES

DATE
11-16-17

SHEET
1 OF 1

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STREETSIDE INTERIOR

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**VT Hackney**

A company of VI Systems
WASHINGTON, NC 27888-0580

DRAWN BY	DATE	CUSTOMER
ECS	11 16 17	

11-01-11	633
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MODEL:	0000
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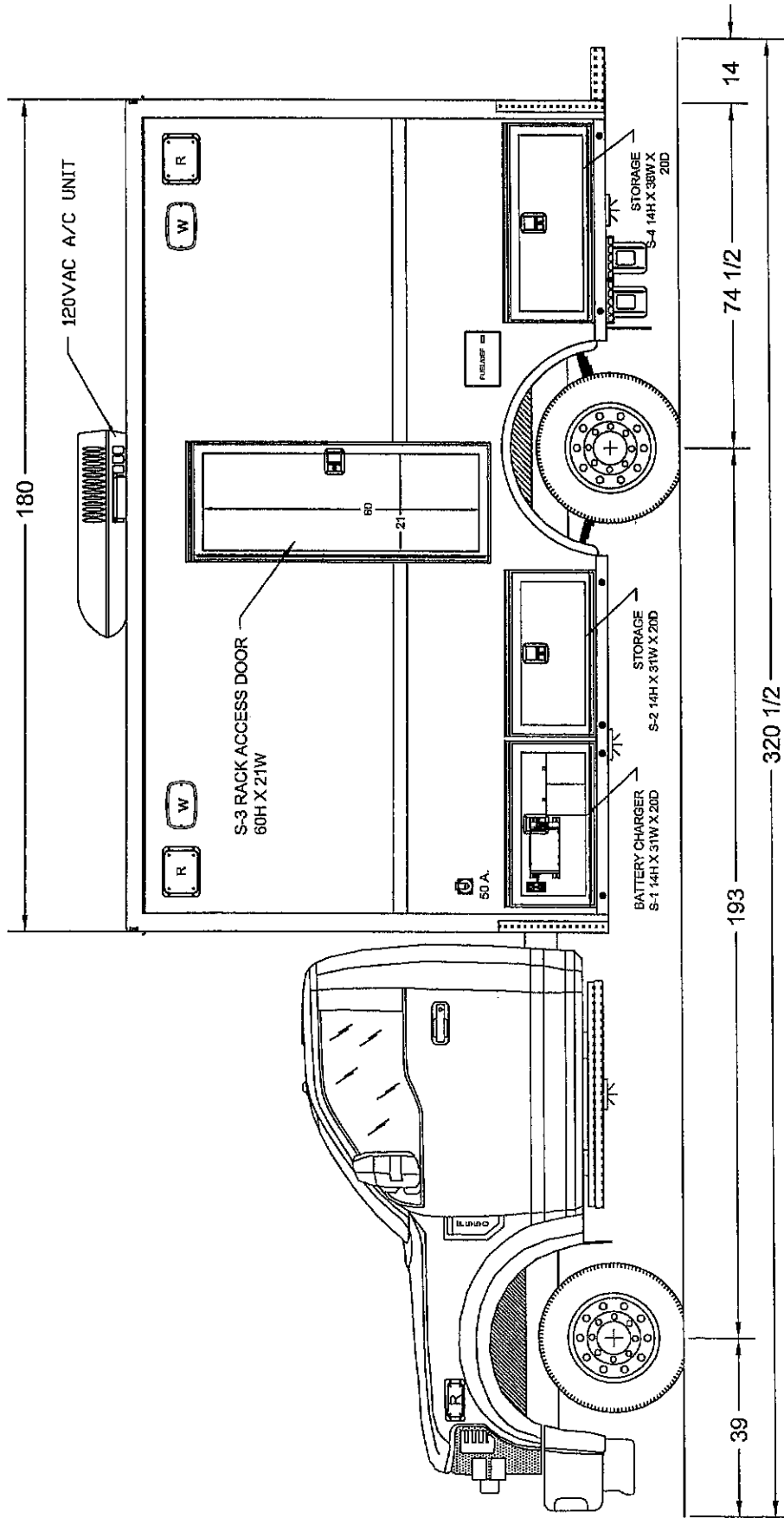
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**NASSAU COUNTY
OFFICE OF COMMUNICATIONS**

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VT Hackney
A company of VT Systems
WASHINGTON, NC 27889-0880

DATE: 11-16-17
BY: EES
REVIEW: 1 or 1

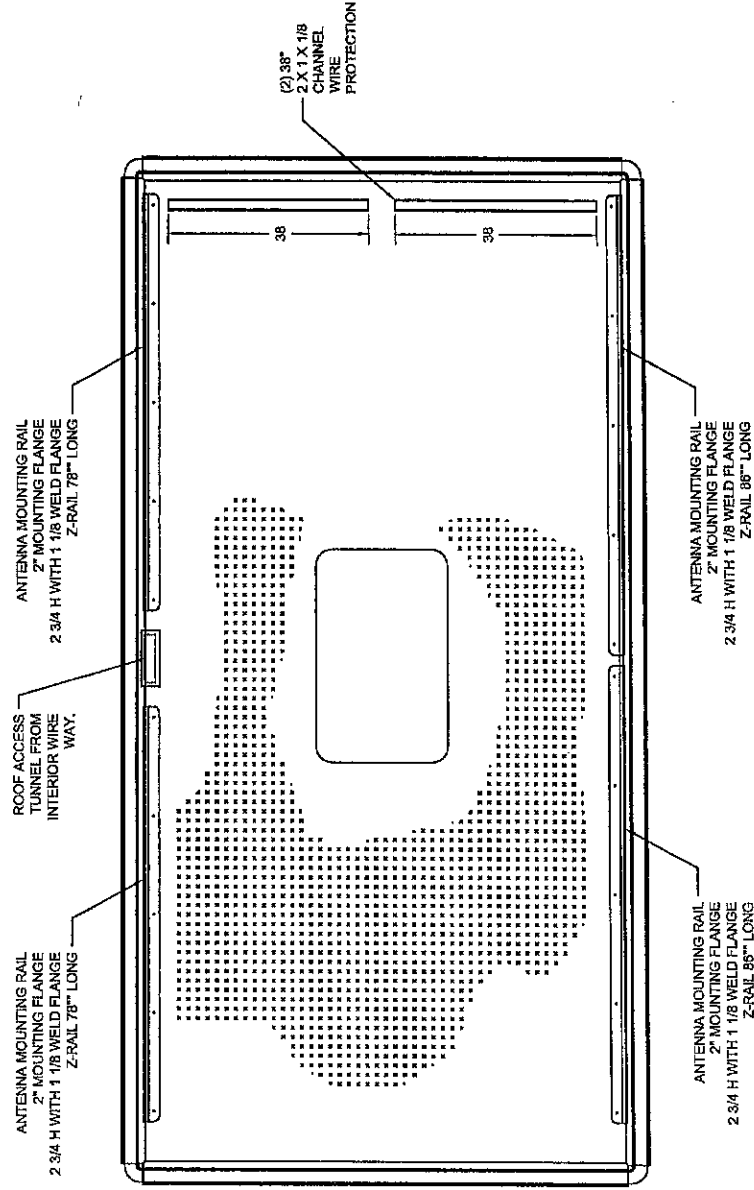
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VT Hackney

CUSTOM DESIGN FOR:
**NASSAU COUNTY
FIRE COMMUNICATIONS**

SCALE: 0000
DOCUMENT NO.: 22
REV: 0000
A

ORIGINAL



ROOF LAYOUT

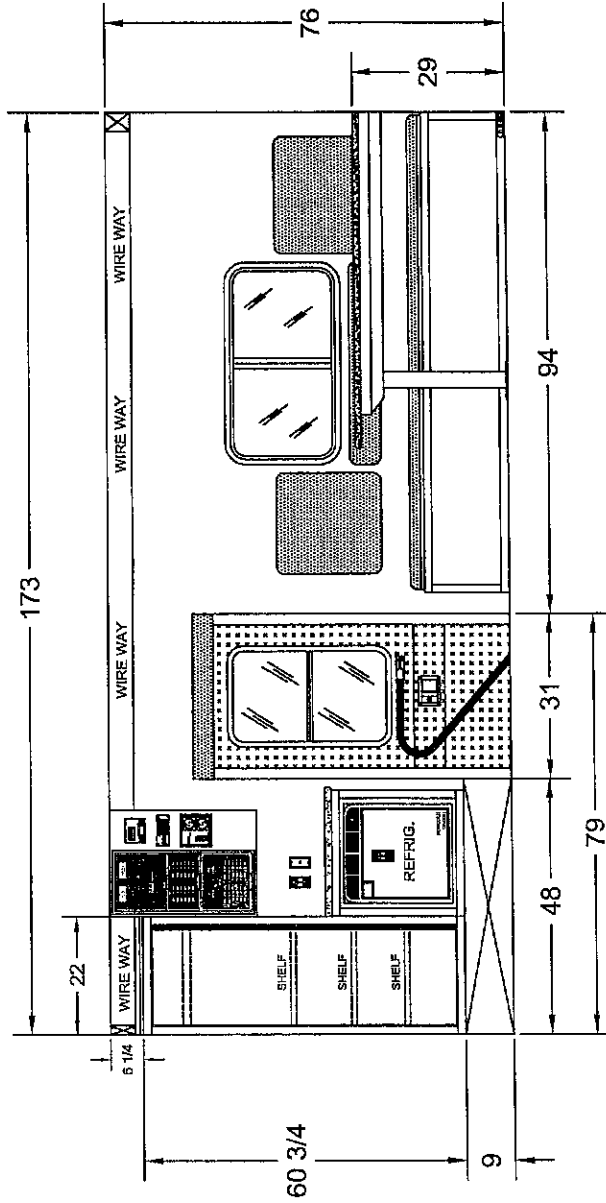
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VT Hackney
A company of VT Systems
WASHINGTON, INC. 27869-0380



NASSAU COUNTY FIRE COMMUNICATIONS	
DATE: 11-16-17	SCALE: 0000
PROJECT: 1 of 1	22
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CURBSIDE INTERIOR

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Hackney

Kluge

CUSTOM DESIGN FOR

NASSAU COUNTY
FIRE COMMUNICATIONS

DATE 11-16-17
DRAWN BY EES

SHEET 1 of 1

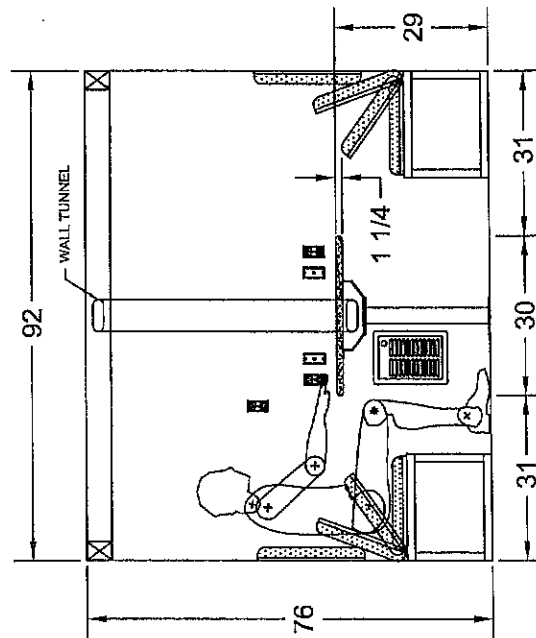
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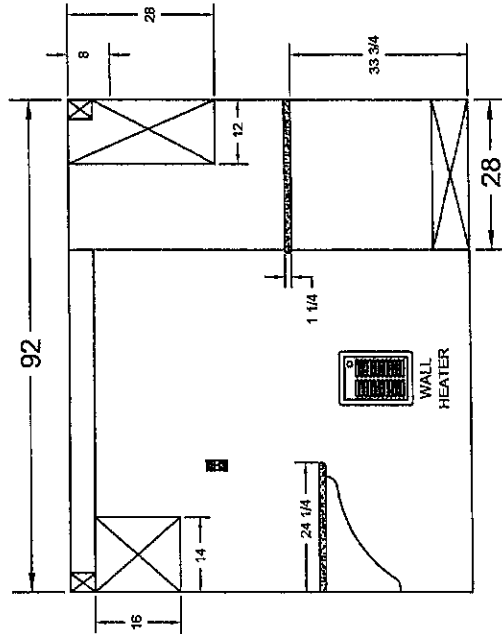
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REAR INTERIOR WALL



FRONT INTERIOR WALL

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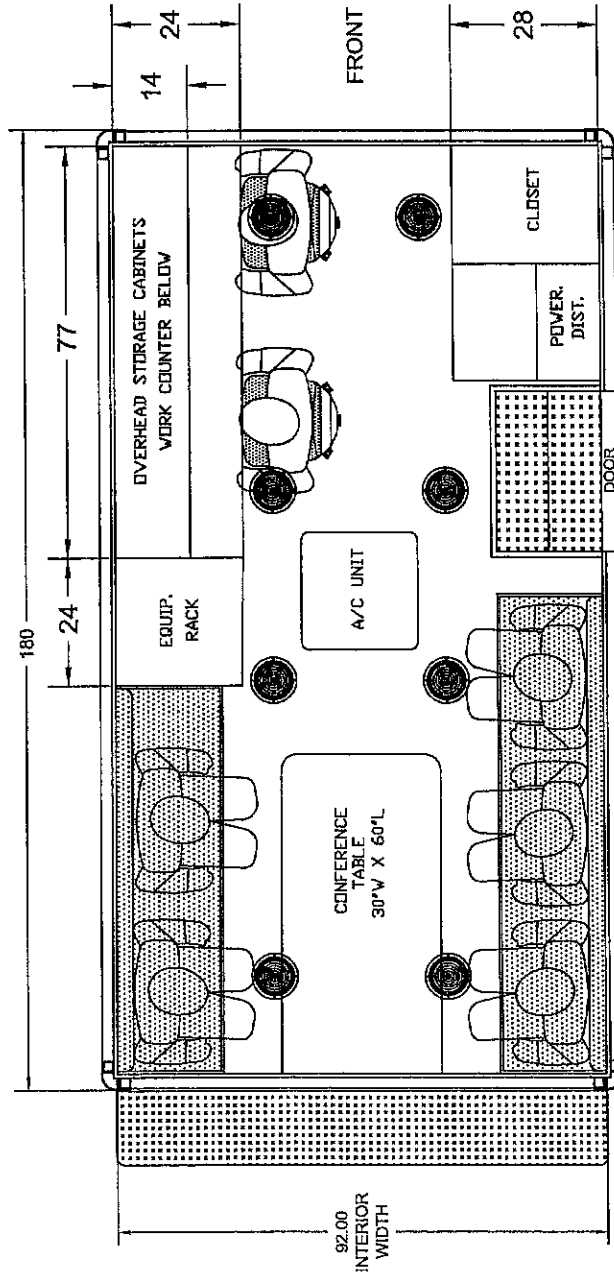
**NASSAU COUNTY
FIRE COMMUNICATIONS**

DATE: 11-16-17
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SCALE: 1 OF 1

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REV: A

ORIGINAL

STREETSIDE (LEFT)



CURBSIDE (RIGHT)

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A company of VT Systems
WASHINGTON, NC 27584-0880



DRAWN BY: EES
DATE: 11-16-17
SHEET: 1 of 1
MODEL: 0000

CUSTOMER DESIGN FOR:
**NASSAU COUNTY
FIRE COMMUNICATIONS**
SCALE: 22
DRAWING NO.: 0000

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REV: A

EMERGENCY VEHICLE WARRANTY

VT Hackney warrants, to the original owner, that the Hackney brand body and applicable chassis will, with reasonable care and maintenance and subject to normal intended use and service as an emergency vehicle, provide dependable performance during the specified warranty period. Should any defect covered by this limited warranty develop during the warranty period, VT Hackney will repair or replace, at its discretion, the component at an authorized service center, or at its factory, subject to the limitations listed below:

LIMITED TEN YEAR BODY WARRANTY

The aluminum body assembly shall be warranted for a period of ten (10) years from date of delivery to the original purchaser. The warranty shall cover the structural integrity of the body, which shall be limited to structural cracks or failures that may cause a loss of integrity of the body. The warranty does not cover cracks that are defined as non-structural or cosmetic in nature, in the opinion of VT Hackney, after the two years of service.

LIMITED FRAME WARRANTY

When the Hackney Drop/Pinch Frame modification is applicable, the frame rail alteration performed by VT Hackney shall match the frame warranty provided by the original chassis manufacturer, but not less than ten (10) years, and shall be limited to structural cracks or failures that may cause a loss of integrity of the frame rail assemblies. The warranty does not cover superficial cracks or corrosion of any component of the modified frame rail and components that is not considered, in the opinion of VT Hackney, to cause loss of structural integrity, nor does it cover damage due to overloading or severe off-the-road applications (unless designed for this application during the manufacturing process). Suspension components are covered by OEM chassis manufacturer.

LIMITED SEVEN YEAR ROLL-UP DOOR WARRANTY

Roll-up body doors and related door operational components manufactured by VT Hackney shall be warranted for a period of seven (7) years from date of delivery to the original purchaser. Warranty includes structural integrity of door slats, rollers, and counter-balancer assembly. Warranty does not cover damage caused by exposure to corrosive agents after the first year of operation. Warranty does not cover routine maintenance and adjustments (see Owner's Manual for PM requirements). Failure to properly maintain and lubricate the doors may be cause for termination of warranty coverage.

LIMITED SEVEN YEAR PAINT WARRANTY

The external surfaces of the body, roll-up doors and, as applicable, the cab shall be covered by a limited paint warranty for a maximum of seven years from date of purchase. The scope of the warranty is limited to: (a) peeling / inter-coat adhesion; (b) cracking; (c) crazing; (d) extensive loss of gloss; (e) chemical resistance (excluding damage caused by acid rain or exposure to caustics and acids). The warranty does not include any other type of paint-related problem including, but not limited to: (a) rust/corrosion failures associated with exposure to road treatments; (b) abrasions, scratches or chips; (c) failures on flexible parts; (d) failures related to after market repairs; (e) abrasive polishing that results in reduction of top coat mil thickness; (f) extensive ultra-violet exposure. The warranty covers 100% approved labor and materials for years one through three and 100% materials only for years four through seven. Warranty does not apply to paint blemishes or match not noted at time of final acceptance.

LIMITED FOUR YEAR ELECTRICAL WARRANTY

The multiplexed 12-volt electrical system shall be warranted for a period of four (4) years from date of delivery to the original purchaser. The warranty shall be limited to V-Mux power control nodes (if applicable) and all VT Hackney installed wiring harnesses. The warranty will correct by repair or replacement at VT Hackney's option, equipment or parts which fail because of mechanical, electrical or physical defects, provided that the goods have been properly operated and maintained. The Vacuum Fluorescent Display (VFD) or the Electrical Display Screen (Mista display) which is (or may be) provided as part of the Multiplex System is warranted for a period of one year from date of installation. For years two through four, the Electrical Display Screen's warranty covers repair labor only. The warranty does not cover circuit breakers, relays, flashers, light elements and fixtures and other electrical or electronic devices covered by separate component manufacturers' warranties. Unauthorized modifications will void all warranties.

STANDARD ONE YEAR WARRANTY

Covers all VT Hackney fabricated components and purchased components that fail or do not operate properly as a result of improper installation by VT Hackney, for a period of one year that are not covered by any above warranties. Items included, but not limited to, shall be: locking devices; trays; shelving; mounting racks and other fabricated components.



VT Hackney

A company of VT Systems

911 West 5th Street – PO Box 880 – Washington, NC 27889



Emergency Vehicles Group

252-946-6521 – Fax 252-975-8393

Revised 6/16/2014

The above limited warranties cover repair or replacement, at the sole option of VT Hackney for the stated periods of time beginning from the date of delivery to the original purchaser and does not cover any time span from delivery to actual in-service. The manufacturers of other equipment and components used in the manufacture of the vehicle may provide their own limited warranties or extensions. These warranties are separate from the VT Hackney Limited Warranty and constitute the only warranty for those specific components after the first 30 days from delivery. See Owners Manual for individual manufacturer warranties and policies. Chassis related claims must be referred to the OEM chassis manufacturers nearest service center.

WHAT IS NOT COVERED -

This limited warranty covers only repair or replacement of any part of a VT Hackney brand emergency vehicle in which a defect in materials or workmanship appears within the limited warranty period, including but not limited to the following:

1. Additions or accessories not performed or installed by VT Hackney and any problems that occur as a result of such additions or accessories.
2. Unauthorized alteration or modification to the vehicle chassis, or components, after the completion by VT Hackney, and any problems that may occur as a result of such alterations or modifications.
3. Damage caused by collision, fire, theft, vandalism, riot, explosion, acts of God, war or objects striking the vehicle.
4. Damage caused by misuse of the vehicle, such as overloading, driving over curbs, and driving off-road.
5. Damage caused by failure to follow the requirements of maintenance schedule, failure to maintain proper fluid and lubricant levels, and failure to follow operating instructions.
6. Normal maintenance such as lubrication, filter replacement, belts, hoses, and recommended torque adjustments.
7. Batteries and tires.
8. Lighting elements.
9. Towing charges and storage charges.
10. Extra expenses such as loss of vehicle use, inconvenience, loss of time, vehicle rental, lodging or travel cost, etc.
11. Expenses or cost in excess of warranty coverage and pre-authorized warranty approvals.
12. Travel time and expenses to and from service facility.

CLAIM RESPONSIBILITIES

1. The purchaser shall advise VT Hackney or an authorized VT Hackney Service Center immediately of any claim believed to be covered by the provisions of this warranty. VT Hackney will, at its sole discretion, determine if its warranty applies and, if so determined, arrange for resolution of the claim.
2. Any unauthorized repairs made by the purchaser prior to contacting VT Hackney or an authorized VT Hackney Service Center shall become the sole liability of the purchaser, unless or until the claim is determined by VT Hackney to be valid.
3. All repairs, whenever possible, will be completed by either VT Hackney or an authorized VT Hackney Service Center, at the discretion of VT Hackney. If neither of these service alternatives are practical at the time of the claim VT Hackney may authorize repairs to be completed locally, but only after receipt of a quotation and authorization of charges for such services by an alternate service agency.

For Warranty Claims Regarding this Apparatus:

CALL VT HACKNEY AT **800.763.0700** - ASK FOR EMERGENCY VEHICLE CUSTOMER SERVICE

VT Hackney reserves the right to accept or reject any warranty claim. All decisions made by VT Hackney regarding a warranty claim shall become final and binding on all parties. Any gratuitous settlements by VT Hackney of alleged defects not within the scope of this limited warranty do not constitute admissions of warranty coverage nor impose any obligations on VT Hackney to make any other such settlements. VT Hackney may make changes in design or standard equipment at any time without notice and incurs no obligations to apply the same to any emergency vehicle previously produced.



VT Hackney

A company of VT Systems



Emergency Vehicles Group

TITLE: COMMAND UNIT FOR FIRE MARSHAL'S

PROLINER

DETAILS OF AWARD

[illegible]

transcription from all original bids received.

8-718 Charles Clark Jackson

PUBLIC BID OFFICE

transcription from all originals received.
Date 8/7/18 Michael Charles Jackson
PUBLIC BID OFFICER Michael Charles Jackson



TO: BUYER – Anette Sullivan FROM: ADMINISTRATION

FORWARD THIS TRANSMITTAL SHEET TOGETHER WITH BID FILE. RETAIN REQUISITION.

[illegible]

Sullivan, Anette

From: Richard Partridge <RESQRICH@OPTONLINE.NET>
Sent: Thursday, September 06, 2018 1:23 PM
To: Sullivan, Anette; RHPARTRIDGE@GMAIL.COM
Subject: RE: Command Unit For Fire Marshal's Office

Importance: High

Attention: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Anette,

1. This was obviously well thought out and a lot of work put in to custom design to solicit bids on a particular vendors product design. We too try to incorporate design items that competition either can't duplicate or can't do it profitably.
2. There was not ample time to try and duplicate the product you wanted.
3. The companies I represent did not want us to "chase" a bid of another manufacturers design as ours would require many added engineering hours and production time which would surely put us out of the running—dollar wise..
4. We do "chase" performance specs but not proprietary ones.

Respectfully Submitted;

Richie

Richard Partridge
Rescue Vehicles Inc.
37 Jules Ct.
Bohemia NY 11716
631 567 2704 office
516 695 5501 mobile

From: Sullivan, Anette <asullivan1@nassaucountyny.gov>
Sent: Thursday, September 06, 2018 1:08 PM
To: RHPARTRIDGE@GMAIL.COM
Subject: Command Unit For Fire Marshal's Office

To Whom It May Concern,

I am writing you because I see that your company downloaded the bid solicitation from NC for a command Unit but you did not submit a bid.

I was inquiring as to why?

I would greatly appreciate if you could get back to me.

Anette Sullivan
Buyer
One West Street

Mineola, New York 11501

Phone (516) 571-6103

Fax (516) 571-4263

e-mail asullivan1@nassaucountyny.gov



Sullivan, Anette

From: Michael Nettesheim <Mike@SyossetTrucks.com>
Sent: Friday, September 07, 2018 8:03 AM
To: Sullivan, Anette
Subject: RE: Nassau County Bid For Command Unit Fire Marshal's Office

Attention: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hi Anette,

I had no idea who to contact for a quote on the body and accessory equipment.

Sincerely,

Michael Nettesheim

Syosset Trucks Sales, Inc.

1561 Stewart Avenue

Westbury, NY 11590

Tel: 516-683-9110

Cell: 516-850-5443

Mike@SyossetTrucks.com

www.SyossetTrucks.com

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From: Sullivan, Anette [mailto:asullivan1@nassaucountyny.gov]
Sent: Thursday, September 06, 2018 1:11 PM
To: mike@syossettrucks.com
Subject: Nassau County Bid For Command Unit Fire Marshal's Office

Hi Mr. Nettesheim,

I am writing you because I see that your company downloaded the bid solicitation from NC for a command Unit but you did not submit a bid.

I was inquiring as to why?

I would greatly appreciate if you could get back to me.

Thank you,
Anette Sullivan
Buyer
One West Street
Mineola, New York 11501
Phone (516) 571-6103
Fax (516) 571-4263

e-mail asullivan1@nassaucountyny.gov





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

10/3/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER DeVivo Associates Inc. 718 Union Blvd West Islip, New York		CONTACT NAME: Dennis J DeVivo PHONE (A/C No, Ext): 631-661-9059 E-MAIL ADDRESS: dennis@devivoassociates.com FAX (A/C No): 631-661-1754	
INSURED L.I. Proliner Inc. & Georgiou Enterprises Inc. 18 Peconic Avenue Medford, NY 11763		INSURER(S) AFFORDING COVERAGE INSURER A: Arch Insurance INSURER B: INSURER C: INSURER D: INSURER E: INSURER F:	

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			MFPK07334904	10/11/2017	10/11/2018	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMPROP AGG \$ 2,000,000 GKLL Included \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			MFCA08345804	10/11/2017	10/11/2018	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB CLAIMS-MADE DED RETENTION \$			MFUM07982105	10/11/2017	10/11/2018	EACH OCCURRENCE \$ AGGREGATE \$ 2,000,000 \$ 2,000,000
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input type="checkbox"/>	N/A				PER STATUTE E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Nassau County is listed as an additional Insured under General Liability as requested by written contract.

CERTIFICATE HOLDER**CANCELLATION**Nassau County
One West Street
Mineola, NY 11501

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE