

## Hall-Mark RTC

Bid Contact **Dee Daniels**  
**ddaniels@hall-markfire.com**  
**Ph 352-629-6305**

Address **725 SW 46th Ave**  
**Ocala, FL 34474**

Item #	Line Item	Notes	Unit Price	Qty/Unit	Attch. Docs
FI-16-03--01-01	Fire Rescue Ambulance Cost (all parts, materials & labor to furnish and deliver)	<b>Supplier Product Code:</b>	<b>First Offer - \$273,664.00</b>	2 / each	<b>\$547,328.00</b> Y Y
FI-16-03--01-02	Pre-Payment Discount Option	<b>Supplier Product Code:</b>	<b>First Offer - \$4,500.00</b>	2 / each	<b>\$9,000.00</b> Y
FI-16-03--01-03	Trade-In Value Option (City Vehicle # 7768)	<b>Supplier Product Code:</b>	<b>First Offer - (\$2,000.00)</b>	1 / each	<b>(\$2,000.00)</b> Y
FI-16-03--01-04	Trade-In Value Option (City Vehicle # 7769)	<b>Supplier Product Code:</b>	<b>First Offer - (\$2,500.00)</b>	1 / each	<b>(\$2,500.00)</b> Y
FI-16-03--01-05	Inspection Trips (per person, per trip) as specified in section 1.3.13	<b>Supplier Product Code:</b>	<b>First Offer - \$750.00</b>	8 / each	<b>\$6,000.00</b> Y
Supplier Total					<b>\$557,828.00</b>

**Hall-Mark RTC****Item: Fire Rescue Ambulance Cost (all parts, materials & labor to furnish and deliver)****Attachments**

Supplier: **Hall-Mark RTC**



City of Pembroke Pines

Attachment A

## **CONTACT INFORMATION FORM**

IN ACCORDANCE WITH "IFB # FI-16-03" dated **March 1, 2017**, titled "**Fire Rescue Ambulances**" attached hereto as a part hereof, the undersigned submits the following:

### **A) Contact Information**

The Contact information form shall be electronically signed by one duly authorized to do so, and in case signed by a deputy or subordinate, the principal's properly written authority to such deputy or subordinate must accompany the proposal. ~~This form must be completed and submitted through [www.bidsync.com](http://www.bidsync.com) as part of the bidder's submittal. The vendor must provide their pricing through the designated lines items listed on the BidSync website.~~

### **COMPANY INFORMATION:**

COMPANY: **REV RTC d/b/a Hall-Mark RTC**

STREET ADDRESS: **725 SW 46th Ave**

CITY, STATE & ZIP CODE: **Ocala, FL 34474**

### **PRIMARY CONTACT FOR THE PROJECT:**

NAME: **Michael Day/ Sally Wilson** TITLE: **Sales**

E-MAIL: **sally.wilson@revrtc.com**

TELEPHONE: **3526296305** FAX: **3526292018**

### **AUTHORIZED APPROVER:**

NAME: **Dee Daniels** TITLE: **Director of Sales**

E-MAIL: **dee.daniels@revrtc.com**

TELEPHONE: **3526296305** FAX: **3526292018**

SIGNATURE:

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FI-16-03--01-03	Trade-In Value Option (City Vehicle # 7768)	<b>Supplier Product Code:</b>	<b>First Offer - (\$2,000.00)</b>	1 / each	<b>(\$2,000.00)</b> Y
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City of Pembroke Pines

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E-MAIL: **sally.wilson@revrtc.com**

TELEPHONE: **3526296305** FAX: **3526292018**

### **AUTHORIZED APPROVER:**

NAME: **Dee Daniels** TITLE: **Director of Sales**

E-MAIL: **dee.daniels@revrtc.com**

TELEPHONE: **3526296305** FAX: **3526292018**

SIGNATURE:

**B) Proposal Checklist**

Are all materials, freight, labor and warranties included?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Pursuant to section 1.3, are the builder's manufacturing history submitted with supporting documentation where applicable, and by the reference section within this specification?	Yes <input type="checkbox"/> No <input type="checkbox"/>
<p>Pursuant to section 1.3.1, does the manufacturer being proposed meet all current mandated and voluntary ambulance design standards in effect at the date of the proposal submission?</p> <p>This includes, all current Federal Motor Vehicle Safety Standards (FMVSS), as well as all current Federal Ambulance Design specifications and NFPA Standards.</p>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<p>Pursuant to section 1.3.1, does the manufacturer comply with Ford Motor Company's QVM program?</p> <p>If so, is a copy of the manufacturer's current QVM certification submitted with the bid?</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>
Pursuant to section 1.3.3, does the manufacturer manufacture the major components (module body, the interior cabinets, and the converter-added electrical wiring system) for the ambulance (excluding the chassis)?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Pursuant to section 1.3.3, does the manufacturer own the design of, as well as the rights to the onboard converter-added electrical system?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Pursuant to section 1.3.5, are all warranties included?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Pursuant to section 1.3.6, does the manufacturer have a service facility within a 150 mile radius of the City of Pembroke Pines?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Pursuant to section 1.3.6, does the service facility have personnel performing the service that are trained by the manufacturer with emphasis in the area of electrical service?	Yes <input type="checkbox"/> No <input type="checkbox"/>
<p>Pursuant to section 1.3.7, did you submit Computer Aided Design (CAD) drawings of both the interior of the patient area and the overall layout of the module body?</p> <p>At a minimum these drawings shall include all exterior elevations, all interior views (4), and a plan view of the roof/ceiling. All options and</p>	Yes <input type="checkbox"/> No <input type="checkbox"/>

**B) Proposal Checklist**

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City of Pembroke Pines

Attachment A

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**B) Proposal Checklist**

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Pursuant to section 1.3, are the builder's manufacturing history submitted with supporting documentation where applicable, and by the reference section within this specification?	Yes <input type="checkbox"/> No <input type="checkbox"/>
<p>Pursuant to section 1.3.1, does the manufacturer being proposed meet all current mandated and voluntary ambulance design standards in effect at the date of the proposal submission?</p> <p>This includes, all current Federal Motor Vehicle Safety Standards (FMVSS), as well as all current Federal Ambulance Design specifications and NFPA Standards.</p>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<p>Pursuant to section 1.3.1, does the manufacturer comply with Ford Motor Company's QVM program?</p> <p>If so, is a copy of the manufacturer's current QVM certification submitted with the bid?</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>
Pursuant to section 1.3.3, does the manufacturer manufacture the major components (module body, the interior cabinets, and the converter-added electrical wiring system) for the ambulance (excluding the chassis)?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Pursuant to section 1.3.3, does the manufacturer own the design of, as well as the rights to the onboard converter-added electrical system?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Pursuant to section 1.3.5, are all warranties included?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Pursuant to section 1.3.6, does the manufacturer have a service facility within a 150 mile radius of the City of Pembroke Pines?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Pursuant to section 1.3.6, does the service facility have personnel performing the service that are trained by the manufacturer with emphasis in the area of electrical service?	Yes <input type="checkbox"/> No <input type="checkbox"/>
<p>Pursuant to section 1.3.7, did you submit Computer Aided Design (CAD) drawings of both the interior of the patient area and the overall layout of the module body?</p> <p>At a minimum these drawings shall include all exterior elevations, all interior views (4), and a plan view of the roof/ceiling. All options and</p>	Yes <input type="checkbox"/> No <input type="checkbox"/>

<p>elements required within these specifications shall be depicted on the prints. Generic CAD drawings are not acceptable. The drawings, as submitted, shall accurately depict the exact vehicle that is being proposed. <input type="checkbox"/></p>	
<p>Pursuant to section 1.3.8, did you submit the installation methods and construction techniques associated with seat belt retention, cabinet construction and installation, oxygen cylinder retention and module to chassis mounting systems?</p> <p>In addition, did you submit all of the testing performed by a testing agency (accredited independent engineer) that is independent of the manufacturer?</p> <p>Please include any applicable information, certifications and/or sled test results regarding construction techniques used throughout the building process, installation methods, construction techniques associated with seat belt retention, cabinet construction and installation, oxygen cylinder retention and module to chassis mounting systems, etc.</p> <p>If the bidder does not perform sled testing, then the bidder shall take exception to this requirement so that the City may evaluate bids on a legitimate basis.</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>
<p>Pursuant to section 1.3.9, did you submit certifications and/or test results, signed by a professional engineer from the testing laboratory, regarding the patient compartment using two mannequins, one in the standard attendant's seat, and one on the squad bench area? <input type="checkbox"/></p> <p>In addition, did you submit photos or other evidence that the mannequin restraint systems worked properly and that the mannequins remained in their original positions? <input type="checkbox"/></p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>
<p>Pursuant to section 1.3.10, did you submit evidence/certification that your service facility is trained and certified to service or to replace the airbags should the need arise?</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>
<p>Pursuant to section 1.3.11, did you submit completed Attachment K (References Form)?</p> <p>In addition, did it include 5 references and list the model of the in-service unit(s) that were provided of a similar chassis make and conversion processes that is being proposed for this project?</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>
<p>Pursuant to section 1.3.17, did you submit the requested construction photographs?</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>
<p>Pursuant to section 1.4.2.3, does the bidder design and construct its own module bodies, and maintain an engineering staff at its manufacturing facility to handle any custom body changes that may be</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>

<p>elements required within these specifications shall be depicted on the prints. Generic CAD drawings are not acceptable. The drawings, as submitted, shall accurately depict the exact vehicle that is being proposed. <input type="checkbox"/></p>	
<p>Pursuant to section 1.3.8, did you submit the installation methods and construction techniques associated with seat belt retention, cabinet construction and installation, oxygen cylinder retention and module to chassis mounting systems?</p> <p>In addition, did you submit all of the testing performed by a testing agency (accredited independent engineer) that is independent of the manufacturer?</p> <p>Please include any applicable information, certifications and/or sled test results regarding construction techniques used throughout the building process, installation methods, construction techniques associated with seat belt retention, cabinet construction and installation, oxygen cylinder retention and module to chassis mounting systems, etc.</p> <p>If the bidder does not perform sled testing, then the bidder shall take exception to this requirement so that the City may evaluate bids on a legitimate basis.</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>
<p>Pursuant to section 1.3.9, did you submit certifications and/or test results, signed by a professional engineer from the testing laboratory, regarding the patient compartment using two mannequins, one in the standard attendant's seat, and one on the squad bench area? <input type="checkbox"/></p> <p>In addition, did you submit photos or other evidence that the mannequin restraint systems worked properly and that the mannequins remained in their original positions? <input type="checkbox"/></p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>
<p>Pursuant to section 1.3.10, did you submit evidence/certification that your service facility is trained and certified to service or to replace the airbags should the need arise?</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>
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<p>Pursuant to section 1.4.2.3, does the bidder design and construct its own module bodies, and maintain an engineering staff at its manufacturing facility to handle any custom body changes that may be</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/></p>

necessitated by this design?	
Pursuant to section 1.4.19, does the bidder's electrical system deviate in any way from that which is specified?	Yes <input type="checkbox"/> No <input type="checkbox"/>
If so, is a detailed explanation included?	Yes <input type="checkbox"/> No <input type="checkbox"/>

### **C) Sample Proposal Form**

The following sample price proposal is for information only. The vendor must provide their pricing through the designated lines items listed on the BidSync website.

Item	Description	Qty.	Cost
1)	Fire Rescue Ambulance Cost (including all parts, materials & labor to furnish and deliver, as specified in the solicitation.)	2	Price to be Submitted via BidSync
2)	Pre-Payment Discount Option	2	Price to be Submitted via BidSync
3)	Trade-In Value Option for a: 2000 AEV/Freightliner three seat cab (VIN # 1FV3GLCC1YHA35604) with approximately with 194,000 miles (City Vehicle # 7768)	1	Price to be Submitted via BidSync
4)	Trade-In Value Option for a: 2001 AEV/Freightliner three seat cab (VIN # 1FVABPBW11HH17185) with approximately with 140,000 miles (City Vehicle # 7769)	1	Price to be Submitted via BidSync
5)	Inspection Trips (per person, per trip) as specified in section 1.3.13 of the bid package	8	Price to be Submitted via BidSync
<b>Total Cost Including Pre-Payment Discount and Trade-In Value Options</b>			Price to be Submitted via BidSync

<b>Proposed Equipment and Maintenance Shop</b>	
Chassis Name, Year, Make and Model	<b>Freightliner M2 106 2018</b>
Ambulance/Conversion Name, Year, Make and Model	<b>Horton Emergency Vehicles 2018 623 Model</b>
Maintenance Shop: Name and Location	<b>Hall-Mark - REV RTC 2821 SW 23rd Terrace Unit#1 Dania Beach, FL 33312 Jerry: 352-207-7329</b>
<p>*Vendor is required to provide full disclosure on their capabilities for providing road/mobile service, response time to regular calls, response time to emergency service calls, the number of service technicians on staff than are SAE or EVT certified, how many vehicles dedicated to road/mobile service, and approach to handling major repairs such as transmissions, front axels, rear axels, radiators, etc.</p> <p>This information can be provided in a separate document that must be uploaded to <a href="http://www.bidsync.com">www.bidsync.com</a></p>	

as part of the proposal package.

<b>Components Manufacturer (By Company Name)</b>	
Modular Body	<b>Horton Emergency Vehicles</b>
Interior Cabinets	<b>Horton Emergency Vehicles</b>
Electrical Wiring System	<b>Horton Emergency Vehicles</b>

<b>Timeline</b>	
NUMBER OF CALENDAR DAYS, FOLLOWING THE AWARD, TO COMPLETE AND FURNISH THE FIRE RESCUE AMBULANCES	<b>225 Days</b>

**Please note: If you have any exceptions to the specifications listed in the solicitation, you must attach a detailed explanation, of each exception, to this proposal form.**

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Supplier: **Hall-Mark RTC**



City of Pembroke Pines

Attachment C

**NON-COLLUSIVE AFFIDAVIT**

BIDDER is the **Officer**,

(Owner, Partner, Officer, Representative or Agent)

BIDDER is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;

Such Bid is genuine and is not a collusive or sham Bid;

Neither the said BIDDER nor any of its officers, partners, owners, agents, representative, employees or parties in interest, including this affidavit, have in any way colluded, conspired, connived or agreed, directly or indirectly, with any other BIDDER, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted; or to refrain from bidding in connection with such Contract; or have in any manner, directly or indirectly, sought by agreement or collusion, or communications, or conference with any BIDDER, firm, or person to fix the price or prices in the attached Bid or any other BIDDER, or to fix any overhead, profit, or cost element of the Bid Price or the Bid Price of any other BIDDER, or to secure through any collusion conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed Contract;

The price of items quoted in the attached Bid are fair and proper and are not tainted by collusion, conspiracy, connivance, or unlawful agreement on the part of the BIDDER or any other of its agents, representatives, owners, employees or parties in interest, including this affidavit.

Printed Name/Signature **William D. Alm**

Title **VP / GM**

Name of Company **REV RTC /Hall-Mark RTC**

Supplier: **Hall-Mark RTC**



City of Pembroke Pines

Attachment D

**SWORN STATEMENT  
ON PUBLIC ENTITY CRIMES  
UNDER FLORIDA STATUTES CHAPTER 287.133(3)(a).**

1. This sworn statement is submitted **REV RTC d/b/a Hall-Mark RTC** (name of entity submitting sworn statement) whose business address is **725 SW 46th Ave, Ocala, FL 34474** and (if applicable) its Federal Employer Identification Number (FEIN) is **47-4454880**. (If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement: .)
2. My name is **William D. Alm** and my  
(Please print name of individual signing)  
  
relationship to the entity named above is **VP / GM**.
3. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid, proposal, reply, or contract for goods or services, any lease for real property, or any contract for the construction or repair of a public building or public work, involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
4. I understand that a "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.
5. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means:
  1. A predecessor or successor of a person convicted of a public entity crime: or
  2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The Cityship by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.
6. I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes, means any

natural person or any entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts let by a public entity, or which otherwise transacts or applies to transact business with a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

7. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. **(Please indicate which statement applies.)**

☐ A) Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

☐ B) The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND **(Please indicate which additional statement applies.)**

☐ B1) There has been a proceeding concerning the conviction before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. **(Please attach a copy of the final order.)**

☐ B2) The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. **(Please attach a copy of the final order.)**

☐ B3) The person or affiliate has not been placed on the convicted vendor list. **(Please describe any action taken by or pending with the Department of General Services.)**

William D. Alm

REV RTC d/b/a Hall-Mark 03/17/2017

RTC

Bidder's Name/Signature

Company

Date

**Supplier: Hall-Mark RTC**



City of Pembroke Pines

Attachment E

## LOCAL VENDOR PREFERENCE CERTIFICATION

### SECTION 1 GENERAL TERM

#### LOCAL PREFERENCE

The evaluation of competitive bids is subject to section 35.36 of the City's Procurement Procedures which, except where contrary to federal and state law, or any other funding source requirements, provides that preference be given to local businesses. To satisfy this requirement, the vendor shall affirm in writing its compliance with either of the following objective criteria as of the bid or proposal submission date stated in the solicitation. A local business shall be defined as:

1. "Local Pembroke Pines Vendor" shall mean a business entity which has maintained a permanent place of business with full-time employees within the City limits for a minimum of one (1) year prior to the date of issuance of a bid or proposal solicitation. The permanent place of business may not be a post office box. The business location must actually distribute goods or services from that location. In addition, the business must have a current business tax receipt from the City of Pembroke Pines.

OR;

2. "Local Broward County Vendor" shall mean or business entity which has maintained a permanent place of business with full-time employees within the Broward County limits for a minimum of one (1) year prior to the date of issuance of a bid or proposal solicitation. The permanent place of business may not be a post office box. The business location must actually distribute goods or services from that location. In addition, the business must have a current business tax receipt from the Broward County or the city within Broward County where the business resides.

A preference of five percent (5%) of the total evaluation point, or five percent (5%) of the total price, shall be given to the **Local Pembroke Pines Vendor(s)**; A preference of two and a half percent (2.5%) of the total evaluation point for local, or two and a half percent (2.5%) of the total price, shall be given to the **Local Broward County Vendor(s)**.

#### COMPARISON OF QUALIFICATIONS

The preferences established in no way prohibit the right of the City to compare quality of supplies or services for purchase and to compare qualifications, character, responsibility and fitness of all persons, firms or corporations submitting bids or proposals. Further, the preference established in no way prohibit the right of the city from giving any other preference permitted by law instead of the preferences granted, nor prohibit the city to select the bid or proposal which is the most responsible and in the best interests of the city.

### SECTION 2 AFFIRMATION

#### LOCAL PREFERENCE CERTIFICATION:

☐ Place a check mark here only if affirming bidder meets requirements above as a Local Pembroke Pines Vendor. In addition, the business must attach a current business tax receipt from the City of Pembroke Pines along with any previous business tax receipts to indicate that the business entity has maintained a permanent place of business for a minimum of one (1) year.

☐ Place a check mark here only if affirming bidder meets requirements above as a Local Broward County Vendor. In addition, the business must attach a current business tax receipt from the Broward County or the city within Broward County where the business resides along with any previous business tax receipts to indicate that the business entity has maintained a permanent place of business for a minimum of one (1) year.

☐ Place a check mark here only if affirming bidder does not meet the requirements above as a Local Vendor.

**Failure to complete this certification at this time (by checking either of the boxes above) shall render the vendor ineligible for Local Preference. This form must be completed by/for the proposer; the proposer WILL NOT qualify for Local Vendor Preference based on their sub-contractors' qualifications.**

COMPANY NAME: REV RTC DBA HALL-MARK RTC

PRINTED NAME AUTHORIZED SIGNATURE: **DEE DANIELS**

**Supplier: Hall-Mark RTC**



City of Pembroke Pines

Attachment F

## VETERAN OWNED SMALL BUSINESS (VOSB) PREFERENCE CERTIFICATION

### SECTION 1 GENERAL TERM

#### VETERAN OWNED SMALL BUSINESS (VOSB) PREFERENCE

The evaluation of competitive bids is subject to section 35.37 of the City's Procurement Procedures which, except where contrary to federal and state law, or any other funding source requirements, provides that preference be given to veteran owned small businesses. To satisfy this requirement, the vendor shall affirm in writing its compliance with the following objective criteria as of the bid or proposal submission date stated in the solicitation. ~~A veteran owned small business shall be defined as:~~

1. "Veteran Owned Small Business" shall mean a business entity which has received a "Determination Letter" from the United States Department of Veteran Affairs Center for Verification and Evaluation notifying the business that they have been approved as a Veteran Owned Small Business (VOSB).

A preference of two and a half percent (2.5%) of the total evaluation point, or two and a half percent (2.5%) of the total price, shall be given to the **Veteran Owned Small Business (VOSB)**. ~~This shall mean that if a VOSB submits a bid/quote that is within 2.5% of the lowest price submitted by any vendor, the VOSB shall have an option to submit another bid which is at least 1% lower than the lowest responsive bid/quote. If the VOSB submits a bid which is at least 1% lower than that lowest responsive bid/quote, then the award will go to the VOSB. If not, the award will be made to the vendor that submits the lowest responsive bid/quote. If the lowest responsive and responsible bidder is a "Local Pembroke Pines Vendor" (LPPV) or a "Local Broward County Vendor" (LBCV) as established in Section 35.36 of the City's Code of Ordinances, entitled "Local Vendor Preference", then the award will be made to that vendor and no other bidders will be given an opportunity to submit additional bids as described herein.~~

If there is a **LPPV**, a **LBCV**, and a **VOSB** participating in the same bid solicitation and all three vendors qualify to submit a second bid, the **LPPV** will be given first option. If the **LPPV** cannot beat the lowest bid received by at least 1%, an opportunity will be given to the **LBCV**. If the **LBCV** cannot beat the lowest bid by at least 1%, an opportunity will be given to the **VOSB**. If the **VOSB** cannot beat the lowest bid by at least 1%, then the bid will be awarded to the lowest bidder.

If multiple **VOSBs** submit bids/quotes which are within 2.5% of the lowest bid/quote and there are no **LPPV** or **LBCV** as described in Section 35.36 of the City's Code of Ordinance, entitled "Local Vendor Preference", then all **VOSBs** will be asked to submit a **Best and Final Offer (BAFO)**. The award will be made to the **VOSB** submitting the lowest **BAFO** providing that that **BAFO** is at least 1% lower than the lowest bid/quote received in the original solicitation. If no **VOSB** can beat the lowest bid/quote by at least 1%, then the award will be made to the lowest responsive bidder.

#### COMPARISON OF QUALIFICATIONS

The preferences established in no way prohibit the right of the City to compare quality of supplies or services for purchase and to compare qualifications, character, responsibility and fitness of all persons, firms or corporations submitting bids or proposals. Further, the preference established in no way prohibit the right of the city from giving any other preference permitted by law instead of the preferences granted, nor prohibit the city to select the bid or proposal which is the most responsible and in the best interests of the city.

### SECTION 2 AFFIRMATION

#### VETERAN OWNED SMALL BUSINESS (VOSB) PREFERENCE CERTIFICATION:

☐ Place a check mark here only if affirming bidder meets requirements above as a Veteran Owned Small Business. In addition, the bidder must attach the "Determination Letter" from the U.S. Dept. of Veteran Affairs Center.

☐ Place a check mark here only if affirming bidder does not meet the requirements above as a VOSB.

**Failure to complete this certification at this time (by checking either of the boxes above) shall render the vendor ineligible for VOSB Preference. This form must be completed by/for the proposer; the proposer WILL NOT qualify for VOSB Preference based on their sub-contractors' qualifications.**

COMPANY NAME: REV RTC d/b/a Hall-Mark RTC

PRINTED NAME / AUTHORIZED SIGNATURE: Dee Daniels

Supplier: **Hall-Mark RTC**



City of Pembroke Pines

Attachment G

## EQUAL BENEFITS CERTIFICATION FORM FOR DOMESTIC PARTNERS AND ALL MARRIED COUPLES

Except where federal or state law mandates to the contrary, a Contractor awarded a Contract pursuant to a competitive solicitation shall provide benefits to Domestic Partners and spouses of its employees, irrespective of gender, on the same basis as it provides benefits to employees' spouses in traditional marriages.

The Contractor shall provide the City and/or the City Manager or his/her designee, access to its records for the purpose of audits and/or investigations to ascertain compliance with the provisions of this section, and upon request shall provide evidence that the Contractor is in compliance with the provisions of this section upon each new bid, contract renewal, or when the City Manager has received a complaint or has reason to believe the Contractor may not be in compliance with the provisions of this section. Records shall include but not be limited to providing the City and/or the City Manager or his/her designee with certified copies of the Contractor's records pertaining to its benefits policies and its employment policies and practices.

The Contractor must conspicuously make available to all employees and applicants for employment the following statement:

**“During the performance of a contract with the City of Pembroke Pines, Florida, the Contractor will provide Equal Benefits to its employees with spouses, as defined by Section 35.39 of the City's Code of Ordinances, and its employees with Domestic Partners and all Married Couples”.**

The posted statement must also include a City contact telephone number and email address which will be provided to each contractor when a covered contract is executed.

### SECTION 1 DEFINITIONS

1. **Benefits** means the following plan, program or policy provided or offered by a contractor to its employees as part of the employer's total compensation package which may include but is not limited to sick leave, bereavement leave, family medical leave, and health benefits.
2. **Cash Equivalent** mean the amount of money paid to an employee with a domestic partner or spouse in lieu of providing benefits to the employee's domestic partner or spouse. The cash equivalent is equal to the employer's direct expense of providing benefits to an employee for his or her spouse from a traditional marriage.
3. **Covered Contract** means a contract between the City and a contractor awarded subsequent to the date when this section becomes effective valued at over \$25,000 or the threshold amount required for competitive bids as required in section 35.18(A) of the Procurement Code.
4. **Domestic Partner** shall mean any two (2) adults of the same or different sex who have registered as domestic partners with a governmental body pursuant to state or local law authorizing such registration, or with an internal registry maintained by the employer of at least one of the domestic partners. A contractor may institute an internal registry to allow for the provision of equal benefits to employees with domestic partners who do not register their partnerships pursuant to a governmental body authorizing such registration, or who are



located in a jurisdiction where no such governmental domestic partnership registry exists. A contractor that institutes such registry shall not impose criteria for registration that are more stringent than those required for domestic partnership registration by the City of Pembroke Pines.

5. **Equal benefits** means the equality of benefits between employees with spouses and/or dependents of spouses and employees with domestic partners and/or dependents of domestic partners, and/or between spouses of employees and/or dependents of spouses and domestic partners of employees and/or dependents of domestic partners.
6. **Spouse** means one member of a married pair legally married under the laws of any state within the United States of America or any other jurisdiction under which such marriage is legally recognized, irrespective of gender.
7. **Traditional marriage** means a marriage between one man and one woman.

## SECTION 2 CERTIFICATION OF CONTRACTOR

The firm providing a response, by virtue of the signature below, certifies that it is aware of the requirements of Section 35.39 "City Contractors providing Equal Benefits for Domestic Partners and all Married Couples" of the City's Code of Ordinances, and certifies the following (**Check only one box below**):

- ☐ A. Contractor currently complies with the requirements of this section; or
- ☐ B. Contractor will comply with the conditions of this section at the time of contract award; or
- ☐ C. Contractor will not comply with the conditions of this section at the time of contract award:  
or
- ☐ D. Contractor does not comply with the conditions of this section because of the following allowable exemption (**Check only one box below**):
- ☐ 1. The Contractor does not provide benefits to employees' spouses in traditional marriages;
- ☐ 2. The Contractor provides an employee the cash equivalent of benefits because the Contractor is unable to provide benefits to employees' Domestic Partners or spouses despite making reasonable efforts to provide them. To meet this exception, the Contractor shall provide a notarized affidavit that it has made reasonable efforts to provide such benefits. The affidavit shall state the efforts taken to provide such benefits and the amount of the cash equivalent. Cash equivalent means the amount of money paid to an employee with a Domestic Partner or spouse rather than providing benefits to the employee's Domestic Partner or spouse. The cash equivalent is equal to the employer's direct expense of providing benefits to an employee's spouse;
- ☐ 3. The Contractor is a religious organization, association, society, or any non-profit charitable or educational institution or organization operated supervised or controlled by or in conjunction with a religious organization, association, or society;
- ☐ 4. The Contractor is a governmental agency;

**The certification shall be signed by an authorized officer of the Contractor. Failure to provide such certification (by checking the appropriate boxes above along with completing the information below) shall result in a Contractor being deemed non-responsive.**

COMPANY NAME: **REV RTC d/b/a Hall-Mark RTC**



AUTHORIZED OFFICER NAME / SIGNATURE: **William D. Alm**

Supplier: **Hall-Mark RTC**



City of Pembroke Pines

Attachment H

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**PROPOSER'S QUALIFICATIONS STATEMENT**

PROPOSER shall furnish the following information. Failure to comply with this requirement will render Bid non-responsive and shall cause its rejection. Additional sheets shall be attached as required.

PROPOSER'S Name and Principal Address:

**REV RTC d/b/a Hall-Mark RTC  
725 SW 46th Ave  
Ocala, FL 34474**

Contact Person's Name and Title: **Jorge Troyano - Sales Rep**

Contact Person's E-mail Address: **jtroyano@hall-markfire.com**

PROPOSER'S Telephone and Fax Number: **(352) 629-6305 (352) 629-2018**

PROPOSER'S License Number: **VI/1101217/1**  
**(Please attach certificate of status, competency, and/or state registration.)**

PROPOSER'S Federal Identification Number: **47-4454880**

Number of years your organization has been in business **24**

State the number of years your firm has been in business under your present business name **1 year 3 months**

State the number of years your firm has been in business in the work specific to this solicitation: **24**

Names and titles of all officers, partners or individuals doing business under trade name:

**Title VP**

**BAMATTER, PAUL  
330 Madison Ave, Flr 28  
New York, NY 10017**

**Title PCEO**

**SULLIVAN, TIM  
4776 NEW BROAD STREET #200  
ORLANDO, FL 32814**

**Title Secretary**

**Krop, Pamela S**  
**4776 NEW BROAD STREET #200**  
**ORLANDO, FL 32814**

**Title CFO**

**Nolden, Dean J**  
**4776 NEW BROAD STREET #200**  
**ORLANDO, FL 32814**

The business is a: ☐ Sole Proprietorship ☐ Partnership ☐ Corporation ☐

IF USING A FICTITIOUS NAME, SUBMIT EVIDENCE OF COMPLIANCE WITH FLORIDA FICTITIOUS NAME STATUTE. (ATTACH IN PROPOSER EXHIBIT SECTION)

Under what former name has your business operated? Include a description of the business. Failure to include such information shall be deemed to be intentional misrepresentation by the City and shall render the proposer RFP submittals non-responsive.

**Hall-Mark Fire Apparatus, Inc.**

At what address was that business located?

**3431 NW 27th Ave**

**Ocala, FL 34474**

Name, address, and telephone number of surety company and agent who will provide the required bonds on this contract:

**Lockton**

**Three CityPLace Drive, Suite 900**

**St. Louis, MO 63146**

Have you ever failed to complete work awarded to you. If so, when, where and why?

**No**

Have you personally inspected the proposed WORK and do you have a complete plan for its performance?

**Yes**

Will you subcontract any part of this WORK? If so, give details including a list of each sub-contractor(s) that will perform work in excess of ten percent (10%) of the contract amount and the work that will be performed by each subcontractor (s).

**No**

The foregoing list of subcontractor(s) may not be amended after award of the contract without the prior written approval of the Contract Administrator, whose approval shall not be reasonably withheld.

List and describe all bankruptcy petitions (voluntary or involuntary) which have been filed by or against the Proposer, its parent or subsidiaries or predecessor organizations during the past five (5) years. Include in the description the disposition of each such petition.

**None**

List and describe all successful Bond claims made to your surety (ies) during the last five (5) years. The list and descriptions should include claims against the bond of the Proposer and its predecessor organization(s).

**None**

List all claims, arbitrations, administrative hearings and lawsuits brought by or against the Proposer or its predecessor organizations(s) during the last (10) years. The list shall include all case names; case, arbitration or hearing identification numbers; the name of the project over which the dispute arose; and a description of the subject matter of the dispute.

**None**

List and describe all criminal proceedings or hearings concerning business related offenses in which the Proposer, its principals or officers or predecessor organization(s) were defendants.

**None**

Has the Proposer, its principals, officers or predecessor organization(s) been CONVICTED OF A Public Entity Crime, debarred or suspended from bidding by any government entity? If so, provide details.

**No**

Are you an ☒ Original provider ☐ sales representative ☐ distributor, ☐ broker, ☐ manufacturer ☐ other, of the commodities/services proposed upon? If other than the original provider, explain below.

**We are the dealer for all E-ONE product in the state of Florida**

Have you ever been debarred or suspended from doing business with any governmental agency? If yes, please explain:

**No**

Describe the firm's local experience/nature of service with contracts of similar size and complexity, in the previous three (3) years:

**We have been in Ocala, FL since 1993 providing sales and service of Emergency Vehicles to cities and counties in the state of Florida.**

The PROPOSER acknowledges and understands that the information contained in response to this Qualification Statement shall be relied upon by CITY in awarding the contract and such information is warranted by PROPOSER to be true. The discovery of any omission or misstatement that materially affects the PROPOSER'S qualifications to perform under the contract shall cause the CITY to reject the Bid, and if after the award, to cancel and terminate the award and/or contract.

**REV RTC d/b/a Hall-Mark RTC**

(Company Name)

**William D. Alm**

(Printed Name/Signature)

**Supplier: Hall-Mark RTC**

**REFERENCES FORM**

Provide specific examples of similar contracts. References should be capable of explaining and confirming your firm's capacity to successfully complete the scope of work outlined herein. **This form should be duplicated for each reference and any additional information that would be helpful can be attached.**

**Reference Contact Information:**

Name of Firm, City, County or Agency: **TOWN OF DAVIE**

Address: **6901 ORANGE DR. 33314**

City/State/Zip: **DAVIE, FL**

Contact Name: **FRANK SURIANO** Title: **ASST. CHIEF**

E-Mail Address: **FRANK.SURIANO@DAVIE-FL.GOV**

Telephone: **954 797 1085** Fax: **954 797 1213**

**Project Information:**

Name and location of the project: **RESCUE PUMPER/OCALA, FL**

Nature of the firm's responsibility on the project: **BUILDING OF TRUCK**

Project duration: **ON GOING** Completion (Anticipated) Date: **VARIES**

Size of project: **PUMPERS** Cost of project: **450000**

Work for which staff was responsible: **PUMPER DEVELOPMENT**

Contract Type: **FSA**

The results/deliverables of the project: **PUMPERS**

**REFERENCES FORM**

Provide specific examples of similar contracts. References should be capable of explaining and confirming your firm's capacity to successfully complete the scope of work outlined herein. **This form should be duplicated for each reference and any additional information that would be helpful can be attached.**

**Reference Contact Information:**

Name of Firm, City, County or Agency: **SUNRISE FIRE RESCUE**

Address: **10440 W OAKLAND PARK BLVD**

City/State/Zip: **SUNRISE, FL**

Contact Name: **THOMAS DIBERNARDO** Title: **FIRE CHIEF**

E-Mail Address: **tdibernardo@sunrisefl.com**

Telephone: **954-746 3120** Fax: **954 797 3455**

**Project Information:**

Name and location of the project: **RESCUE PUMPER/OCALA, FL**

Nature of the firm's responsibility on the project: **BUILDING OF TRUCK**

Project duration: **ON GOING** Completion (Anticipated) Date: **VARIES**

Size of project: **RESCUE PUMPER** Cost of project: **525000**

Work for which staff was responsible: **PUMPER DEVELOPMENT**

Contract Type: **FSA**

The results/deliverables of the project: **ON GOING**



**REFERENCES FORM**

Provide specific examples of similar contracts. References should be capable of explaining and confirming your firm's capacity to successfully complete the scope of work outlined herein. **This form should be duplicated for each reference and any additional information that would be helpful can be attached.**

**Reference Contact Information:**

Name of Firm, City, County or Agency: **MIRAMAR FIRE RESCUE**

Address: **14801 SW 27TH ST**

City/State/Zip: **MIRAMAR, FL**

Contact Name: **PALMER** Title: **FIRE CHIEF**

E-Mail Address: **MIRAMARFIRE@MIRAMARFD.ORG**

Telephone: **954 602 4802** Fax: **954 602 4802**

**Project Information:**

Name and location of the project: **RESCUE PUMPER**

Nature of the firm's responsibility on the project: **BUILDING OF TRUCK**

Project duration: **6 MONTHS** Completion (Anticipated) Date: **FEB 20**

Size of project: **RESCUE PUMPER** Cost of project: **490000**

Work for which staff was responsible: **PUMPER DEVELOPMENT**

Contract Type: **FSA**

The results/deliverables of the project: **FEB 20**

**REFERENCES FORM**

Provide specific examples of similar contracts. References should be capable of explaining and confirming your firm's capacity to successfully complete the scope of work outlined herein. **This form should be duplicated for each reference and any additional information that would be helpful can be attached.**

**Reference Contact Information:**

Name of Firm, City, County or Agency: **MARTIN COUNTY FIRE RESCUE**

Address: **4725 SE DIXIE HWY**

City/State/Zip: **STUART, FL 34997**

Contact Name: **ED STAGMILLER** Title: **FLEET DIRECTOR**

E-Mail Address: **estagmil@martin.fl.us**

Telephone: **772 221 2342** Fax: **772 288 5400**

**Project Information:**

Name and location of the project: **rescue pumpers /ocala,fl**

Nature of the firm's responsibility on the project: **BUILDING OF TRUCK**

Project duration: **8 MTHS** Completion (Anticipated) Date: **7/16**

Size of project: **RESCUE PUMPER** Cost of project: **534000**

Work for which staff was responsible: **PUMPER DEVELOPMENT**

Contract Type: **FSA**

The results/deliverables of the project: **7/16**

**REFERENCES FORM**

Provide specific examples of similar contracts. References should be capable of explaining and confirming your firm's capacity to successfully complete the scope of work outlined herein. **This form should be duplicated for each reference and any additional information that would be helpful can be attached.**

**Reference Contact Information:**

Name of Firm, City, County or Agency: **CITY OF HIALEAH**

Address: **83 E 5TH ST**

City/State/Zip: **HIALEAH, FL 33010**

Contact Name: **FREDDY PEREZ** Title: **DIVISION CHIEF**

E-Mail Address: **hlperez@hialeahfl.gov**

Telephone: **786 525 3562** Fax: **305 883 5800**

**Project Information:**

Name and location of the project: **RESCUE PUMPER/OCALA, FL**

Nature of the firm's responsibility on the project: **BUILDING OF TRUCK**

Project duration: **7 MTHS** Completion (Anticipated) Date: **12/16**

Size of project: **PUMPER** Cost of project: **454000**

Work for which staff was responsible: **PUMPER DEVELOPMENT**

Contract Type: **FSA**

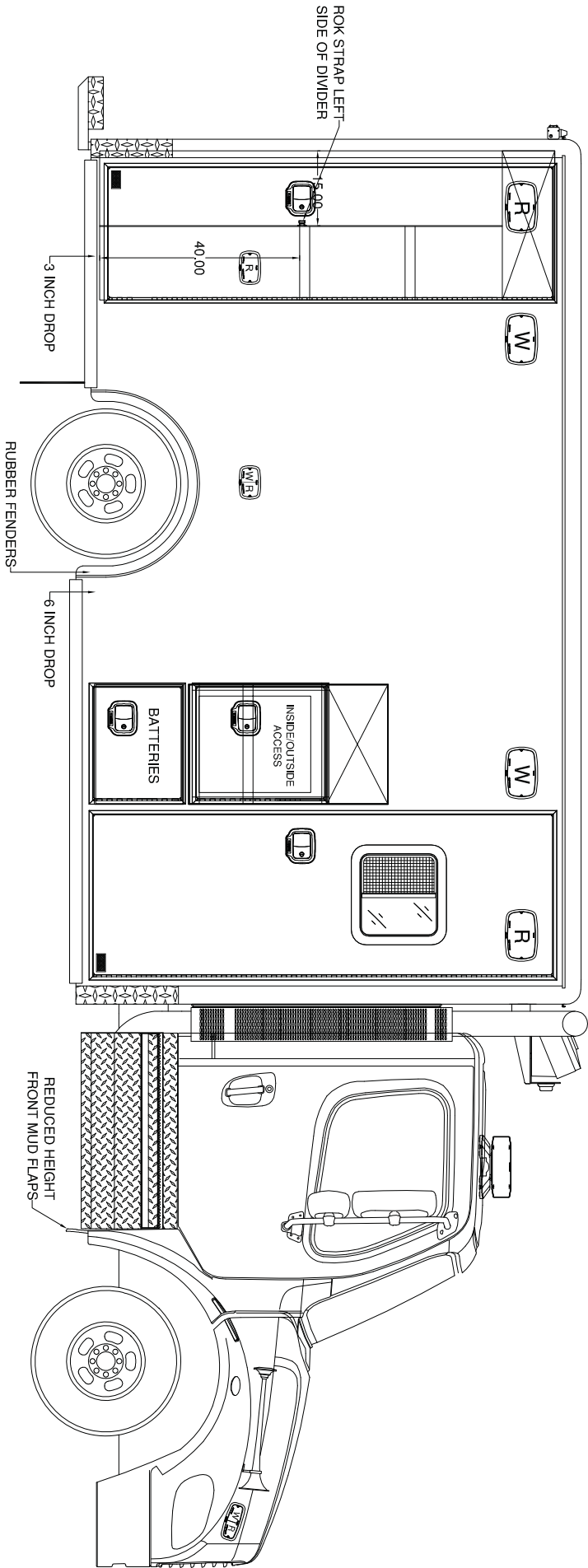
The results/deliverables of the project: **12/16**

# PEMBROKE PINES FIRE RESCUE

REVISIONS		
REV	DESCRIPTION	DATE
	623 EXTERIOR	3/24/17

DRAWN BY: RSA

## 623 WT EXTERIOR FREIGHTLINER CHASSIS



COMPT	INSIDE WIDTH	INSIDE HEIGHT	INSIDE DEPTH	CLEAR OPENING WIDTH	CLEAR OPENING HEIGHT
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CS INT	16.25	29.55	21.96	12.16	26.19
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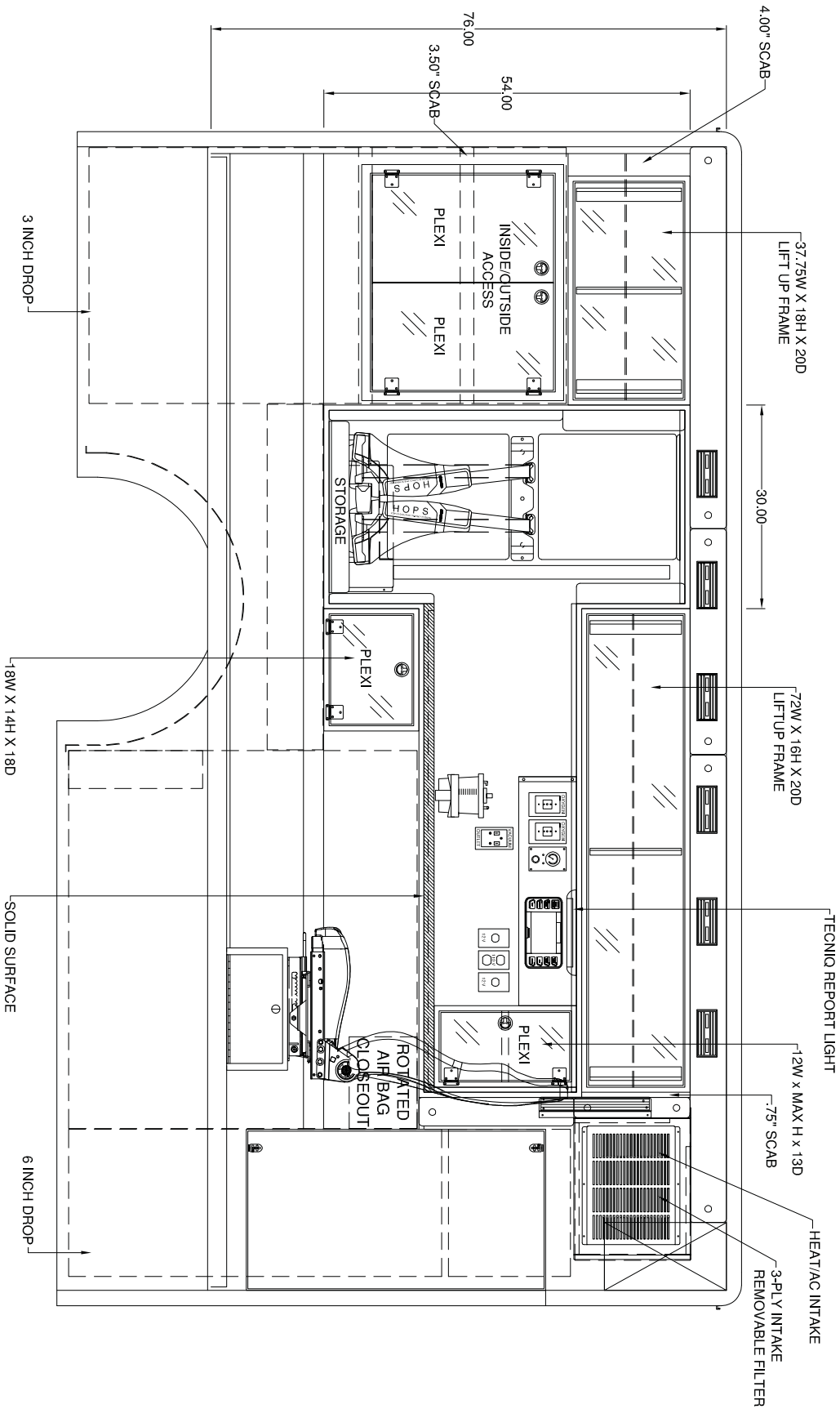
NOTE: DRAWINGS ARE FOR GRAPHICAL REPRESENTATION ONLY  
DIMENSIONS ARE APPROXIMATE & MAY VARY DURING CONSTRUCTION

PROPOSAL DRAWING

F1-16-03

623 WT CABINET WALL

FREIGHTLINER CHASSIS

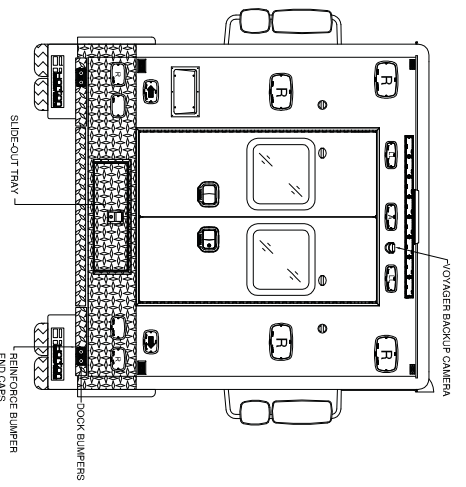
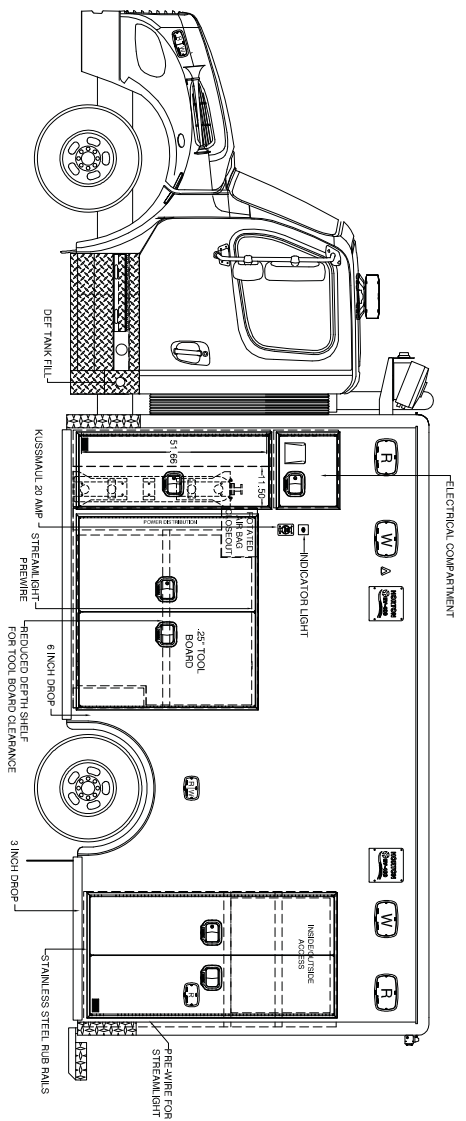
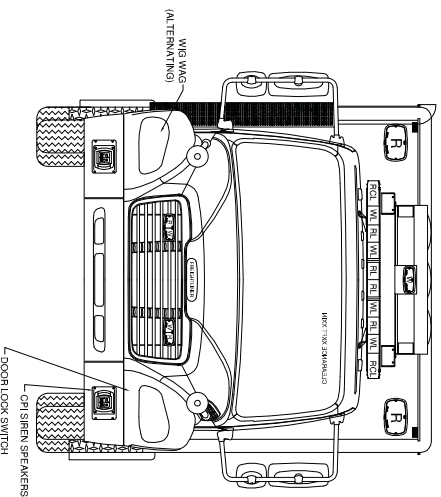
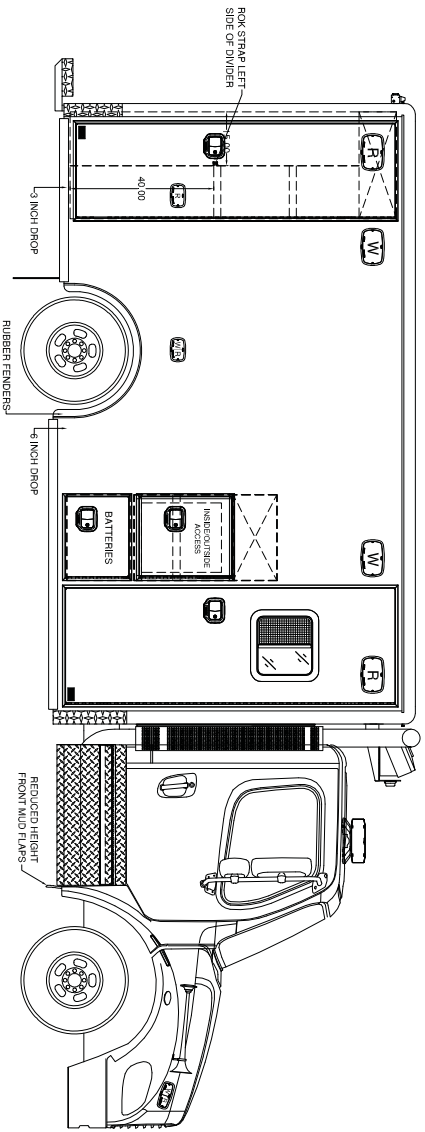


NOTE: DRAWINGS ARE FOR GRAPHICAL REPRESENTATION ONLY  
DIMENSIONS ARE APPROXIMATE & MAY VARY DURING CONSTRUCTION

PROPOSAL DRAWING

FI-16-03

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CRASH B	23.75	39.63	21.96	21.38	24.49	

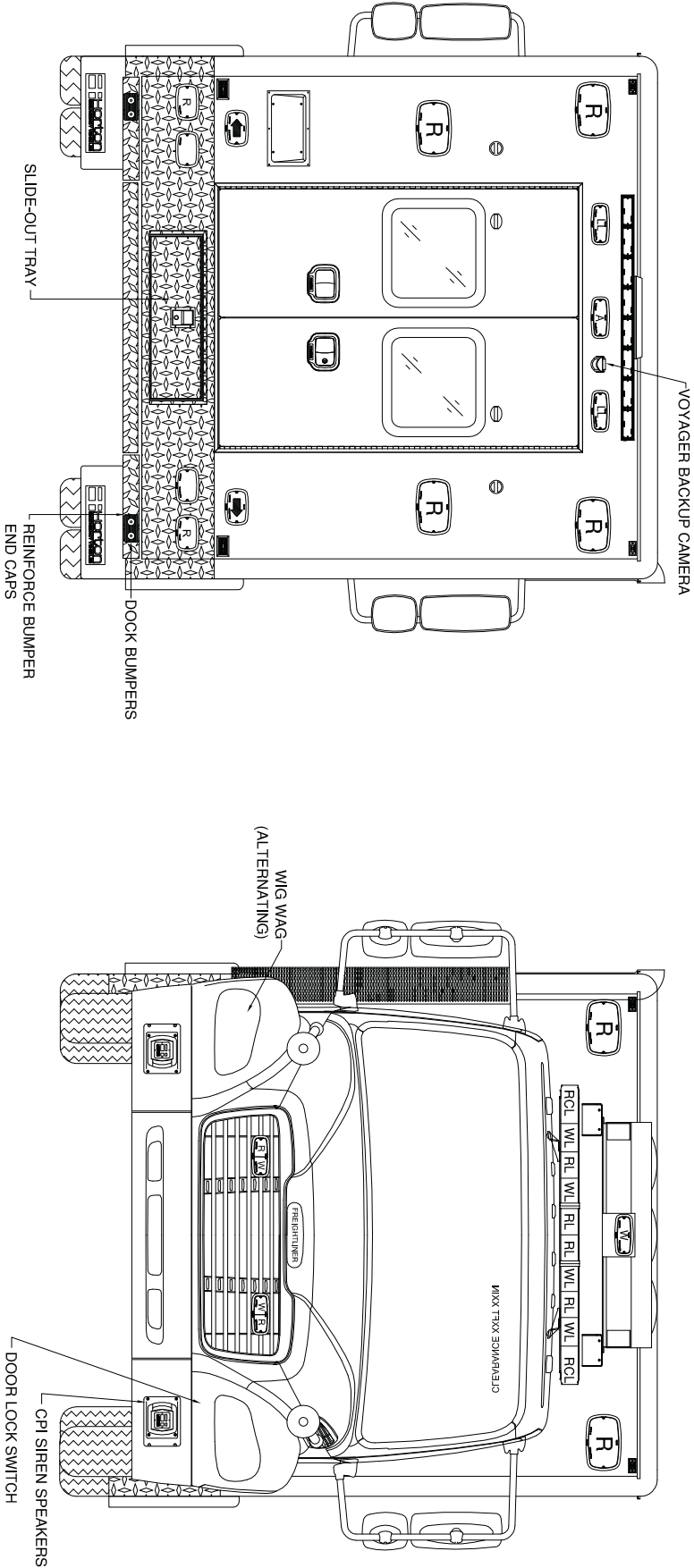


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SS LOW	50.92	8.25	21.96	46.46	6.36	
SS REAR	37.44	70.01	21.96	32.09	66.87	

NOTE: DRAWINGS ARE FOR GRAPHICAL REPRESENTATION ONLY  
DIMENSIONS ARE APPROXIMATE & MAY VARY DURING CONSTRUCTION

# PEMBROKE PINES FIRE RESCUE

623 WT EXTERIOR  
FREIGHTLINER CHASSIS

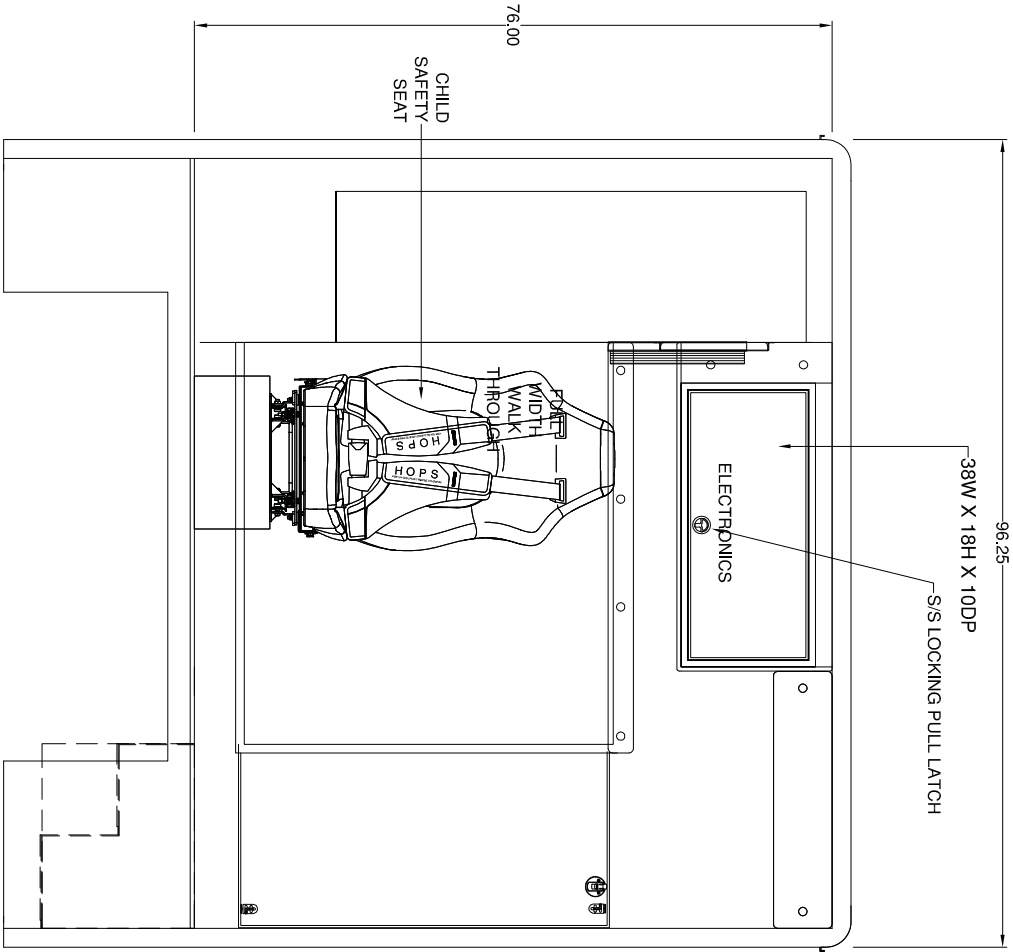


NOTE: DRAWINGS ARE FOR GRAPHICAL REPRESENTATION ONLY. DIMENSIONS ARE APPROXIMATE & MAY VARY DURING CONSTRUCTION

PEMBROKE PINES FIRE RESCUE

623 WT FRONT WALL

FREIGHTLINER CHASSIS



NOTE: DRAWINGS ARE FOR GRAPHICAL REPRESENTATION ONLY

DIMENSIONS ARE APPROXIMATE & MAY VARY DURING CONSTRUCTION

PROPOSAL DRAWING

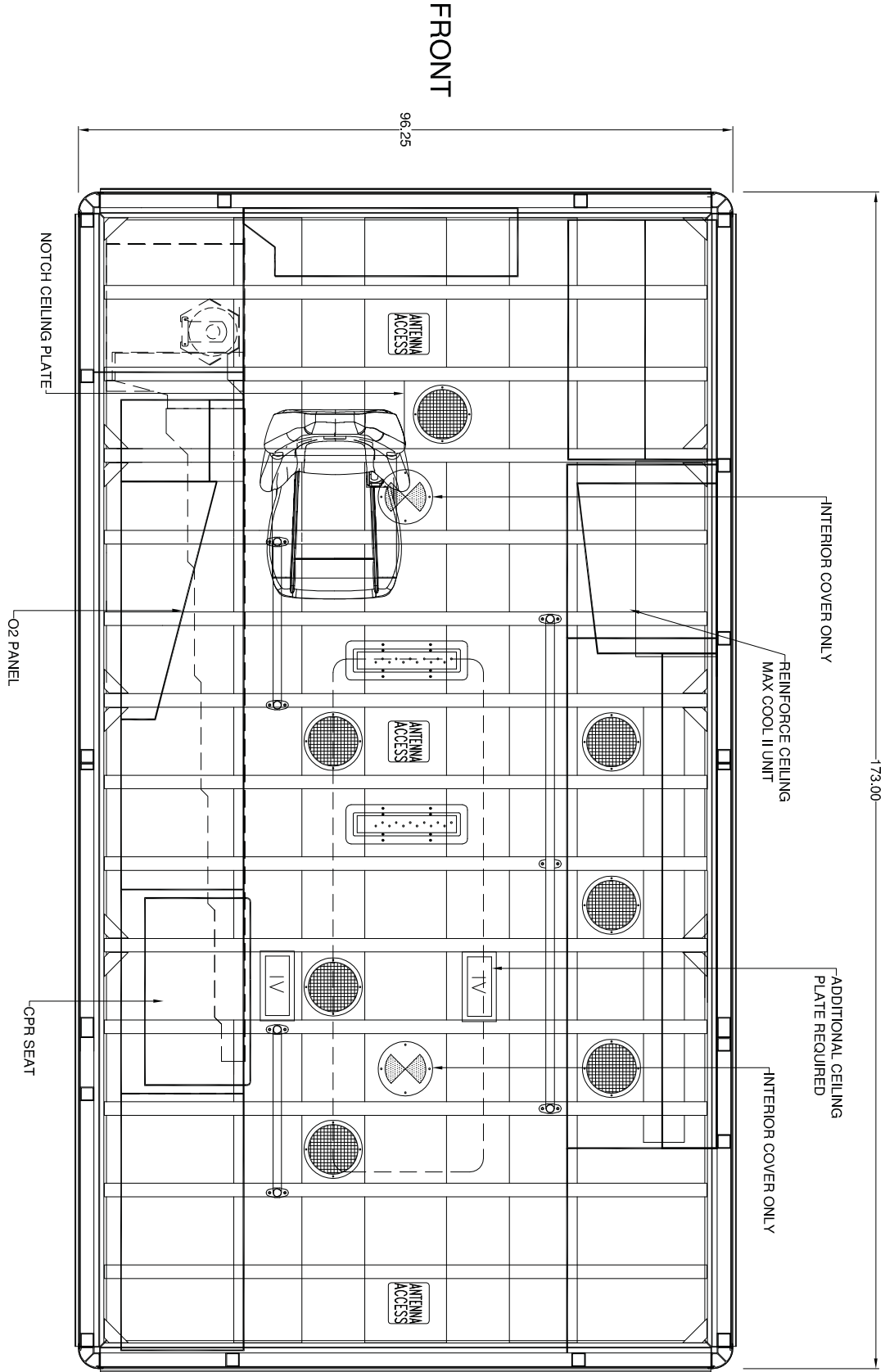
FI-16-03



REVISIONS		
REV	DESCRIPTION	DATE
	623 WT OVERHEAD	3/24/17
DRAWN BY: RSA		

# PEMBROKE PINES FIRE RESCUE

623 WT OVERHEAD WITH CPR SEAT  
FREIGHTLINER CHASSIS



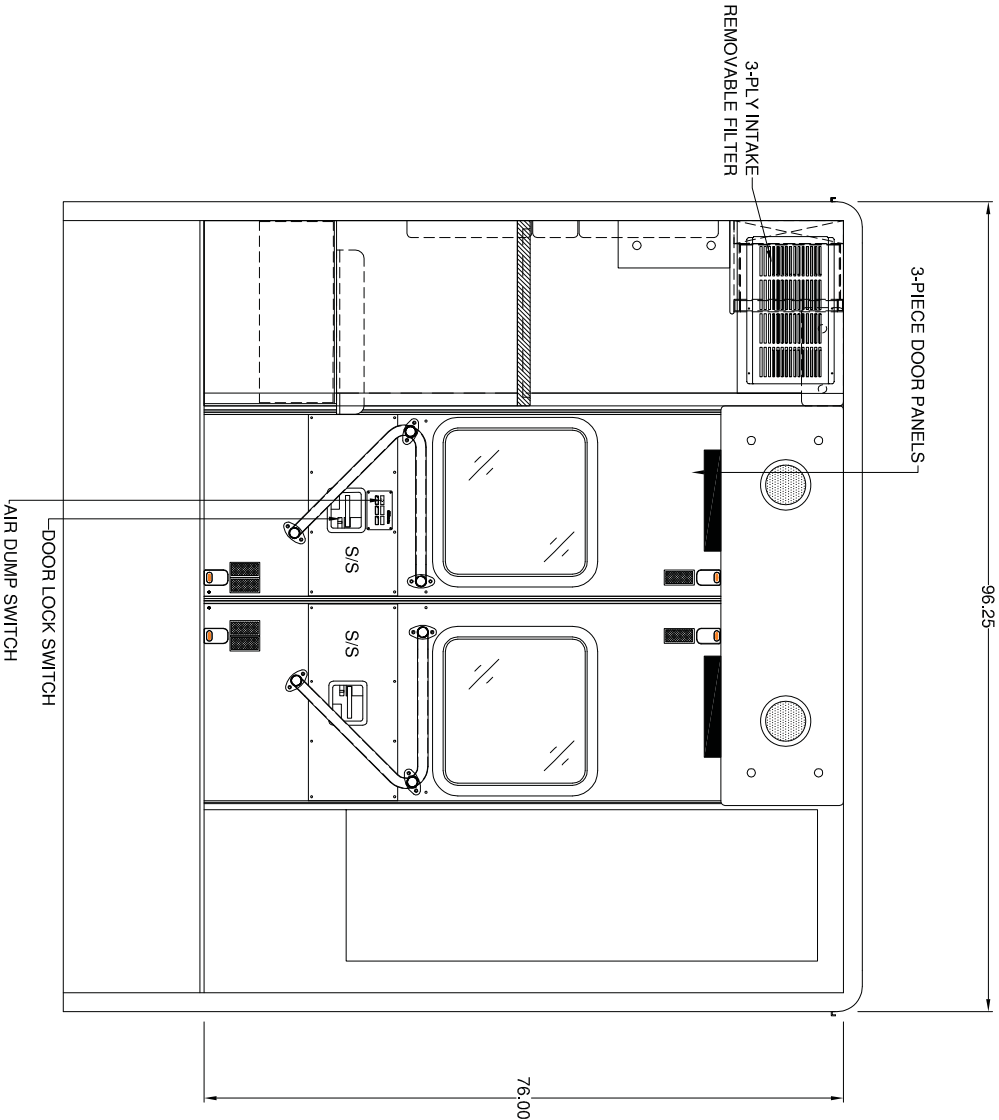
NOTE: DRAWINGS ARE FOR GRAPHICAL REPRESENTATION ONLY  
DIMENSIONS ARE APPROXIMATE & MAY VARY DURING CONSTRUCTION

## PROPOSAL DRAWING

FI-16-03

623 WT REAR WALL

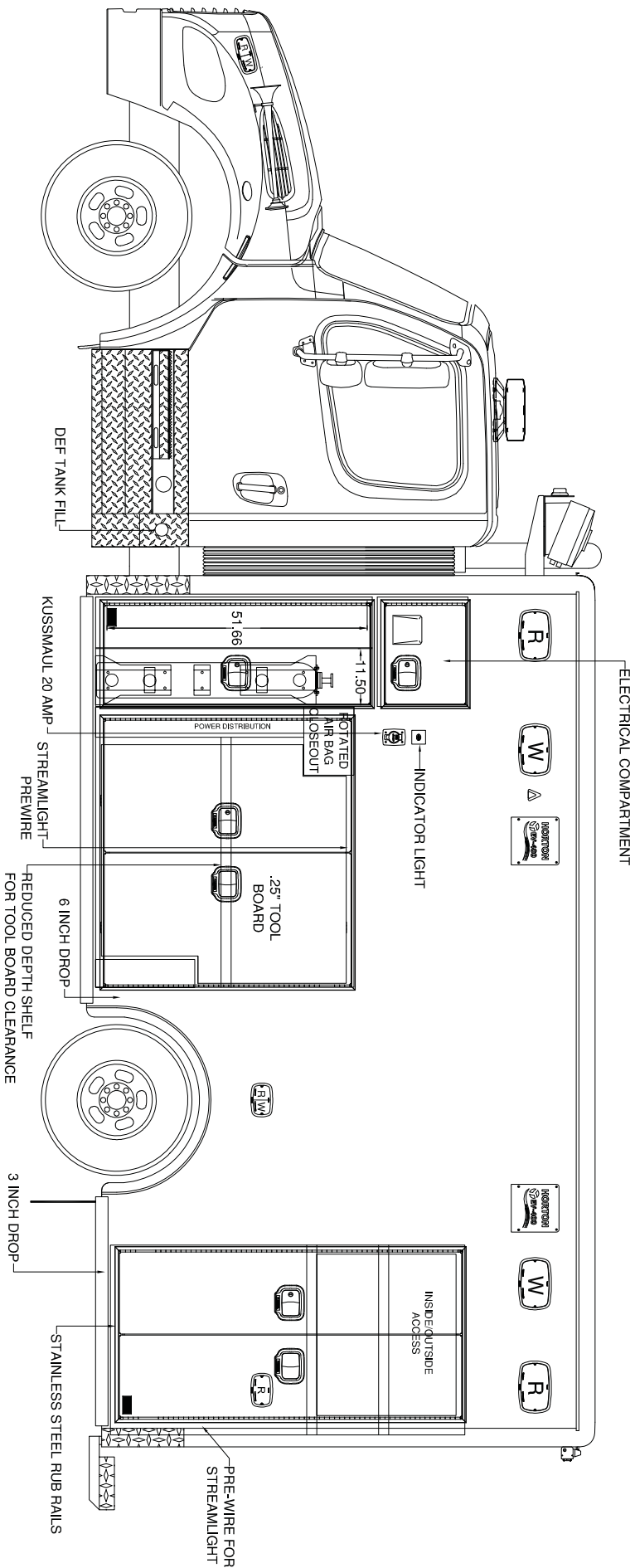
FREIGHTLINER CHASSIS



NOTE: DRAWINGS ARE FOR GRAPHICAL REPRESENTATION ONLY. DIMENSIONS ARE APPROXIMATE & MAY VARY DURING CONSTRUCTION.

# PEMBROKE PINES FIRE RESCUE

## 623 WT EXTERIOR FREIGHTLINER CHASSIS



COMP.	INSIDE WIDTH	INSIDE HEIGHT	INSIDE DEPTH	CLEAR OPENING WIDTH	CLEAR OPENING HEIGHT
SS FWD	21.43	54.63	21.96	18.73	51.66
SS INT	55.42	51.00	21.96	51.80	47.87
SS LOW	50.92	8.25	21.96	45.45	6.36
SS REAR	37.44	70.01	21.96	32.09	66.87

NOTE: DRAWINGS ARE FOR GRAPHICAL REPRESENTATION ONLY  
DIMENSIONS ARE APPROXIMATE & MAY VARY DURING CONSTRUCTION



(OFFICE USE ONLY) Vendor number:

Please complete this vendor information form entirely along with the  
IRS Form W-9, scan and upload it to the [www.bidsync.com](http://www.bidsync.com)

## Vendor Information Form

Operating Name (Payee)			
Legal Name (as filed with IRS)			
Remit-to Address (For Payments)			
Remit-to Contact Name:		Title:	
Email Address:			
Phone #:		Fax #	
Order-from Address (For purchase orders)			
Order-from Contact Name:		Title:	
Email Address:			
Phone #:		Fax #	
Return-to Address (For product returns)			
Return-to Contact Name		Title:	
Email Address:			
Phone #:		Fax #	
Payment Terms:			

Type of Business (please check one and provide Federal Tax identification or social security Number)

- ☐ Corporation
- ☐ Sole Proprietorship/Individual
- ☐ Partnership
- ☐ Health Care Service Provider
- ☐ LLC – C (C corporation) – S (S corporation) – P (partnership)
- ☐ Other (Specify):

Federal ID Number:

Social Security No.:

Name of Applicant / Signature \_\_\_\_\_

Title of Applicant \_\_\_\_\_ Date \_\_\_\_\_

# Request for Taxpayer Identification Number and Certification

Give Form to the  
requester. Do not  
send to the IRS.

Print or type See Specific Instructions on page 2.	<b>1</b> Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.	
	<b>2</b> Business name/disregarded entity name, if different from above	
	<b>3</b> Check appropriate box for federal tax classification; check only <b>one</b> of the following seven boxes: <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ <b>Note.</b> For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner. <input type="checkbox"/> Other (see instructions) ▶ _____	<b>4</b> Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <i>(Applies to accounts maintained outside the U.S.)</i>
	<b>5</b> Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
	<b>6</b> City, state, and ZIP code	
<b>7</b> List account number(s) here (optional)		

## Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

**Note.** If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

<b>Social security number</b>									
				-				-	
<b>or</b>									
<b>Employer identification number</b>									
					-				

## Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

<b>Sign Here</b>	Signature of U.S. person ▶	Date ▶
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## General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

**Future developments.** Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at [www.irs.gov/fw9](http://www.irs.gov/fw9).

## Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

*If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding? on page 2.*

By signing the filled-out form, you:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
- Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.

**Note.** If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

**Definition of a U.S. person.** For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

**Special rules for partnerships.** Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States:

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

**Foreign person.** If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

**Nonresident alien who becomes a resident alien.** Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

**Example.** Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

## Backup Withholding

**What is backup withholding?** Persons making certain payments to you must under certain conditions withhold and pay to the IRS 28% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

**Payments you receive will be subject to backup withholding if:**

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the Part II instructions on page 3 for details),

3. The IRS tells the requester that you furnished an incorrect TIN,

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or

5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code* on page 3 and the separate Instructions for the Requester of Form W-9 for more information.

Also see *Special rules for partnerships* above.

## What is FATCA reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code* on page 3 and the Instructions for the Requester of Form W-9 for more information.

## Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

## Penalties

**Failure to furnish TIN.** If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

**Civil penalty for false information with respect to withholding.** If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

**Criminal penalty for falsifying information.** Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

**Misuse of TINs.** If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

## Specific Instructions

### Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account, list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9.

a. **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

**Note. ITIN applicant:** Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. **Sole proprietor or single-member LLC.** Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or "doing business as" (DBA) name on line 2.

c. **Partnership, LLC that is not a single-member LLC, C Corporation, or S Corporation.** Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

d. **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. **Disregarded entity.** For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulations section 301.7701-2(c)(2)(iii). Enter the owner's name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2, "Business name/disregarded entity name." If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.



**Line 2**

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

**Line 3**

Check the appropriate box in line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box in line 3.

**Limited Liability Company (LLC).** If the name on line 1 is an LLC treated as a partnership for U.S. federal tax purposes, check the "Limited Liability Company" box and enter "P" in the space provided. If the LLC has filed Form 8832 or 2553 to be taxed as a corporation, check the "Limited Liability Company" box and in the space provided enter "C" for C corporation or "S" for S corporation. If it is a single-member LLC that is a disregarded entity, do not check the "Limited Liability Company" box; instead check the first box in line 3 "Individual/sole proprietor or single-member LLC."

**Line 4, Exemptions**

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space in line 4 any code(s) that may apply to you.

**Exempt payee code.**

- Generally, individuals (including sole proprietors) are not exempt from backup withholding.
- Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.
- Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.
- Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

- 1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)
- 2—The United States or any of its agencies or instrumentalities
- 3—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities
- 4—A foreign government or any of its political subdivisions, agencies, or instrumentalities
- 5—A corporation
- 6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession
- 7—A futures commission merchant registered with the Commodity Futures Trading Commission
- 8—A real estate investment trust
- 9—An entity registered at all times during the tax year under the Investment Company Act of 1940
- 10—A common trust fund operated by a bank under section 584(a)
- 11—A financial institution
- 12—A middleman known in the investment community as a nominee or custodian
- 13—A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over \$600 required to be reported and direct sales over \$5,000 <sup>1</sup>	Generally, exempt payees 1 through 5 <sup>2</sup>
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

<sup>1</sup> See Form 1099-MISC, Miscellaneous Income, and its instructions.

<sup>2</sup> However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

**Exemption from FATCA reporting code.** The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)

B—The United States or any of its agencies or instrumentalities

C—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G—A real estate investment trust

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I—A common trust fund as defined in section 584(a)

J—A bank as defined in section 581

K—A broker

L—A trust exempt from tax under section 664 or described in section 4947(a)(1)

M—A tax exempt trust under a section 403(b) plan or section 457(g) plan

**Note.** You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

**Line 5**

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns.

**Line 6**

Enter your city, state, and ZIP code.

**Part I. Taxpayer Identification Number (TIN)**

**Enter your TIN in the appropriate box.** If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited Liability Company (LLC)* on this page), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

**Note.** See the chart on page 4 for further clarification of name and TIN combinations.

**How to get a TIN.** If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at [www.ssa.gov](http://www.ssa.gov). You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at [www.irs.gov/businesses](http://www.irs.gov/businesses) and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting [IRS.gov](http://IRS.gov) or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

**Note.** Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

**Caution:** A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

## Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 4, or 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code* earlier.

**Signature requirements.** Complete the certification as indicated in items 1 through 5 below.

**1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983.** You must give your correct TIN, but you do not have to sign the certification.

**2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983.** You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

**3. Real estate transactions.** You must sign the certification. You may cross out item 2 of the certification.

**4. Other payments.** You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

**5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions.** You must give your correct TIN, but you do not have to sign the certification.

## What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account <sup>1</sup>
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor <sup>2</sup>
4. a. The usual revocable savings trust (grantor is also trustee) b. So-called trust account that is not a legal or valid trust under state law	The grantor-trustee <sup>1</sup>  The actual owner <sup>1</sup>
5. Sole proprietorship or disregarded entity owned by an individual	The owner <sup>3</sup>
6. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))	The grantor <sup>4</sup>
For this type of account:	Give name and EIN of:
7. Disregarded entity not owned by an individual	The owner
8. A valid trust, estate, or pension trust	Legal entity <sup>4</sup>
9. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
10. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
11. Partnership or multi-member LLC	The partnership
12. A broker or registered nominee	The broker or nominee
13. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
14. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i)(B))	The trust

<sup>1</sup> List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

<sup>2</sup> Circle the minor's name and furnish the minor's SSN.

<sup>3</sup> You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

<sup>4</sup> List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships* on page 2.

**\*Note.** Grantor also must provide a Form W-9 to trustee of trust.

**Note.** If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

## Secure Your Tax Records from Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Publication 4535, Identity Theft Prevention and Victim Assistance.

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

**Protect yourself from suspicious emails or phishing schemes.** Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to [phishing@irs.gov](mailto:phishing@irs.gov). You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at: [spam@uce.gov](mailto:spam@uce.gov) or contact them at [www.ftc.gov/idtheft](http://www.ftc.gov/idtheft) or 1-877-IDTHEFT (1-877-438-4338).

Visit [IRS.gov](http://IRS.gov) to learn more about identity theft and how to reduce your risk.

## Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.





**AGREEMENT FOR PURCHASE OF** \_\_\_\_\_

**THIS AGREEMENT FOR PURCHASE OF** \_\_\_\_\_  
("Agreement") is dated this \_\_\_\_\_ day of \_\_\_\_\_, 2016 by and between:

**CITY OF PEMBROKE PINES**, a municipal corporation organized and operating pursuant to the laws of the State of Florida, with a business address of 10100 Pines Boulevard, Pembroke Pines, Florida 33026 (hereinafter referred to as the "CITY"),

and

\_\_\_\_\_, a \_\_\_\_\_, with a business address of \_\_\_\_\_  
(hereinafter referred to as the "CONTRACTOR"). CITY and CONTRACTOR may hereinafter be referred to collectively as the "Parties."

**RECITALS:**

**WHEREAS**, the CITY advertised its invitation to bid No. \_\_\_\_\_ entitled \_\_\_\_\_  
(hereinafter "ITB") which set forth the CITY's desire to hire a firm to provide \_\_\_\_\_:

**WHEREAS**, on \_\_\_\_\_, the responses to the ITB were opened at the offices of the City Clerk; and,

**WHEREAS**, on \_\_\_\_\_ the CITY awarded the ITB to CONTRACTOR and authorized the proper City officials to enter into this Agreement with CONTRACTOR to render provide the goods as required in the IFB; and,

**WHEREAS**, CITY and CONTRACTOR wish to enter into this Agreement to provide for the delivery of \_\_\_\_\_ to the CITY by CONTRACTOR; and,

**WHEREAS**, CONTRACTOR shall act as the primary provider of \_\_\_\_\_ to the CITY for the term of this Agreement;

**NOW THEREFORE**, in consideration of the mutual promises detailed herein and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereby agree as follows:



## ARTICLE 1 PURCHASE OF GOODS

- 1.1 CITY agrees to purchase and CONTRACTOR agrees to provide \_\_\_\_\_ (the "Commodities") subject of this Agreement.
- 1.2 CONTRACTOR shall provide the Commodities as identified herein and the CITY's IFB and CONTRACTOR's response thereto, collectively incorporated herein as **Exhibit "A"** and made a specific part hereof, according to the estimated quantities and schedule contained in **Exhibit "A"**.
- 1.3 The Parties acknowledge that this Agreement is a term contract and that CITY shall purchase and CONTRACTOR shall provide the Commodities on an as-needed basis upon written request of the CITY. Nothing contained herein or in any exhibit or amendment hereto, shall require the CITY to purchase the quantity of Commodities identified in **Exhibit "A"**.
- 1.4 As needed, the CITY shall submit a purchase order to the CONTRACTOR for a specified amount of Commodities. CONTRACTOR shall then provide the specified amount of Commodities in accordance with the purchase order, and submit to the CITY an invoice for those Commodities.
- 1.5 CITY agrees that CONTRACTOR shall be the primary provider of the Commodities, as further described on **Exhibit "A"**, and that CITY shall submit to CONTRACTOR a purchase order for the Commodities. By acceptance of CONTRACTOR's bid, CONTRACTOR agrees that it shall provide such Commodities upon receipt of purchase order from CITY and has the ability to fulfill such orders as CITY requires.
- 1.6 CONTRACTOR acknowledges that it has the capacity, ability and/or inventory to provide the Commodities to the CITY on an as-needed basis and in accordance with the estimated schedule and quantities listed in **Exhibit "A"**.

## ARTICLE 2 TERM AND TERMINATION

- 2.1 CONTRACTOR shall provide the Commodities as identified herein and in **Exhibit "A"** attached hereto and made part hereof, for an initial \_\_\_\_\_ (\_\_\_\_) **year period** commencing on \_\_\_\_\_ and ending on \_\_\_\_\_, and according to the estimated schedule contained in **Exhibit "A"**.
- 2.2 This Agreement may be renewed for \_\_\_\_\_ (\_\_\_\_) **additional** \_\_\_\_\_ (\_\_\_\_) **year terms** upon mutual written consent, evidenced by a written Amendment to this Agreement extending the term thereof.



2.3 *Termination for Convenience:* CITY may terminate this Agreement for convenience, upon \_\_\_\_\_ (\_\_\_\_) **business days** of written notice by the terminating party to the other party for such termination.

2.4 In the event CONTRACTOR abandons or terminates this Agreement or causes it to be terminated by CITY for any reason, CONTRACTOR shall indemnify CITY against any loss pertaining to this termination.

For purposes of this Agreement, termination by CITY for cause includes, but is not limited to, any of the following circumstances:

2.4.1 CONTRACTOR's failure to keep, perform and observe each and every provision of this Agreement and such failure continues for a period of more than \_\_\_\_\_ (\_\_\_\_) **days** after CITY's delivery of a written notice to CONTRACTOR's of such breach or default;

2.4.2 CONTRACTOR becomes insolvent;

2.4.3 CONTRACTOR takes the benefit of any present or future insolvency statute;

2.4.4 CONTRACTOR makes a general assignment for the benefit of creditors,

2.4.5 CONTRACTOR files a voluntary petition in bankruptcy or a petition or answer seeking an arrangement of its reorganization or the readjustment of its indebtedness under the Federal Bankruptcy laws or under any other law or statute of the United States or any state thereof;

2.4.6 CONTRACTOR consents to the appointment of a receiver, trustee or liquidator of all or substantially all of its property;

2.4.7 A petition under any present or future insolvency laws or statute is filed against CONTRACTOR and such petition is not dismissed within \_\_\_\_\_ (\_\_\_\_) **days** after its filing; or

2.4.8 Any assignment of this Agreement in whole or in part, or any of CONTRACTOR's rights and obligations hereunder.

### **ARTICLE 3 COMPENSATION AND METHOD OF PAYMENT**

3.1 Unless stated otherwise on attached **Exhibit "A"**, CITY's sole compensation to CONTRACTOR for the provision of Commodities hereunder shall be \_\_\_\_\_ **Dollars (\$\_\_\_\_\_)** per \_\_\_\_\_. Upon delivery, the CITY shall make final inspection of the Commodities. If this inspection shows that the Commodities have been delivered in a satisfactory manner and in accordance with the specifications of this Agreement or purchase order submitted by the CITY, the CITY shall



receive the same. Final payment due the CONTRACTOR shall be withheld until inspection is made by the CITY and merits of performance evaluated. This total acceptance will be done in a reasonable and timely manner. Upon acceptance, CONTRACTOR shall submit to CITY an invoice for the Commodities provided and CITY, upon approval of the invoice, shall pay the same within \_\_\_\_\_ (\_\_\_\_) days.

- 3.2 If any of the Commodities has to be rejected for any reason, the CONTRACTOR shall be required to repair or replace the Commodities to the satisfaction of the CITY. Warranty repairs may be accomplished on CITY property if space is available, at the discretion of the CITY. Title to or risk loss or damage to all Commodities shall be the responsibility of the CONTRACTOR until acceptance of the Commodities by the CITY, unless such loss or damages have been proven to be the result of negligence by the CITY.
- 3.3 Should the Parties renew the term of this Agreement pursuant to Section 2.2 herein, in the event that CONTRACTOR shall provide adequate evidence to CITY to substantiate a price increase, the purchase price of the Commodities contained in Section 3.1 above may be adjusted no more than on an amount equal to the increase in the "Consumer Price Index" or "CPI" for the current year as of two (2) months prior to the beginning of any renewal term of this Agreement. However, in no event shall the increase be greater than \_\_\_\_\_ percent (\_\_\_\_ %) for each year subsequent to the initial term. The purchase price shall be subject to an annual CPI increase for each year of any renewal term. The purchase price due from the CITY shall never decrease.

The term "Consumer Price Index" is defined as the Consumer Price Index for all Urban Consumers, U.S. City Average (1982-84=100) All Items, published by the United States Department of Labor, Bureau of Labor Statistics. The increase in the CPI shall be computed by subtracting the CPI used to calculate the purchase price for the current year from the CPI reported on the U.S. Department of Labor, Bureau of Statistic's website available at <http://data.bls.gov/cgi-bin/surveymost?cu> for the month that is one hundred twenty (120) days prior to the first day of the upcoming year.

#### **ARTICLE 4**

#### **WARRANTY OF COMMODITIES**

- 4.1 The Commodities, and each individual good or item, including all components and all installed accessories and equipment, shall be guaranteed by the CONTRACTOR to be free of defective parts and workmanship. This warranty shall be for a period of \_\_\_\_\_ (\_\_\_\_) days or the time designated in the standard factory warranty, whichever is longer. The warranty will be the same as that offered to the commercial trade and shall be honored by any of the manufacturer's authorized dealers. The warranty will cover parts, labor and any necessary shipping for repair or replacement of the Commodities, or each individual good or item, including all components and all installed accessories and equipment. The warranty shall start at the time of acceptance by the CITY.
- 4.2 CONTRACTOR warrants and guarantees that the Commodities, and each individual good or item, including all components and all installed accessories and equipment, shall be fit



for the intended use of the Commodities and CONTRACTOR shall provide a warranty as to fitness of the Commodities for a period of \_\_\_\_\_ (\_\_\_\_) **days** or the time designated in the standard factory warranty, whichever is longer. The warranty will cover parts, labor and any necessary shipping for repair or replacement of the Commodities, or each individual good or item, including all components and all installed accessories and equipment.

## **ARTICLE 5 INDEMNIFICATION**

- 5.1 CONTRACTOR shall indemnify and hold harmless the CITY, its trustees, elected and appointed officers, agents, servants, assigns and employees, from and against any and all claims, demands, or causes of action whatsoever, and the resulting losses, costs, expenses, reasonable attorneys' fees, including paralegal expenses, liabilities, damages, orders, judgments, or decrees, sustained by the CITY or any third party arising out of, by reason of, or resulting from the CONTRACTOR's acts, errors, or omissions or consequence of the goods and/or Commodities furnished pursuant to this Agreement or those of any subcontractor, agents, officers, employees, or independent contractor retained by CONTRACTOR.
- 5.2 CONTRACTOR shall indemnify and hold harmless the CITY, its trustees, elected and appointed officers, agents, servants, assigns and employees, from and against any and all claims, demands, or causes of action whatsoever, and the resulting losses, costs, expenses, reasonable attorneys' fees, including paralegal expenses, liabilities, damages, orders, judgments, or decrees, sustained by the CITY or any third party arising out of, by reason of, or resulting from any alleged infringement of copyrights, patent rights and/or the unauthorized or unlicensed use of any invention, process, material, property or other work manufactured or used in connection with the performance of the Agreement, including the use of the Commodities by the City.
- 5.3 CITY reserves the right to select its own legal counsel to conduct any defense in any such proceeding and all costs and fees associated therewith shall be the responsibility of CONTRACTOR.
- 5.4 Upon completion of all Services, obligations and duties provided for in this Agreement, or in the event of termination of this Agreement for any reason, the terms and conditions of this Article shall survive indefinitely.
- 5.5 Nothing contained herein is intended nor shall be construed to waive City's rights and immunities under the common law or §768.28, Florida Statutes, as may be amended from time to time.

## **ARTICLE 6 INSURANCE**



- 6.1 CONTRACTOR shall not commence performance hereunder until it has obtained all insurance required under this paragraph and such insurance has been approved by the Risk Manager of the CITY nor shall the CONTRACTOR allow any subcontractor to commence work on his subcontract until all similar such insurance required of the subcontractor has been obtained and similarly approved.
- 6.2 Certificates of Insurance reflecting evidence of the required insurance shall be filed with the City's Risk Manager prior to the commencement of this Agreement. These Certificates shall contain a provision that coverages afforded under these policies will not be cancelled until at least thirty days (30) prior written notice has been given to the CITY. Policies shall be issued by companies authorized to do business under the laws of the State of Florida. Financial Ratings must be not less than "A-VI" in the latest edition of "Best Key Rating Guide", published by A.M. Best Guide.
- 6.3 Insurance shall be in force until the obligations required to be fulfilled under the terms of the Agreement are satisfied. In the event the insurance certificate provided indicates that the insurance shall terminate and lapse during the period of this Agreement, then in that event, the CONTRACTOR shall furnish, at least forty-five (45) days prior to the expiration of the date of such insurance, a renewed certificate of insurance as proof that equal and like coverage for the balance of the period of the Agreement and extension thereunder is in effect. The CONTRACTOR shall not commence nor continue to provide any service pursuant to this Agreement unless all required insurance remains in full force and effect. CONTRACTOR shall be liable to CITY for any lapses in service resulting from a gap in insurance coverage.
- 6.4 REQUIRED INSURANCE
- 6.4.1 Comprehensive General Liability insurance to cover liability bodily injury and property damage. Exposures to be covered are premises, operations, products/completed operations, and certain contracts. Coverage must be written on an occurrence basis, with the following limits of liability:
- |    |  |             |
|----|--|-------------|
| A. | Bodily Injury  |             |
| 1. | Each Occurrence  | \$1,000,000 |
| 2. | Annual Aggregate   | 1,000,000   |
| B. | Property Damage  |             |
| 1. | Each Occurrence  | 1,000,000   |
| 2. | Annual Aggregate   | 1,000,000   |
| C. | Personal Injury  |             |
|    | Annual Aggregate   | 1,000,000   |
| D. | Completed Operations and Products Liability shall be maintained for two (2) years after the final payment. |             |



- E. Property Damage Liability Insurance shall include Coverage for the following hazards: X - explosion, C - Collapse, U - underground.

6.4.2 Worker's Compensation Insurance shall be maintained during the life of this contract to comply with statutory limits for all employees. The following limits must be maintained:

A.	Worker's Compensation	Statutory
B.	Employer's Liability	\$100,000 each accident
		\$500,000 Disease-policy limit
		\$100,000 Disease-each employee

If CONTRACTOR claims to be exempt from this requirement, CONTRACTOR shall provide CITY proof of such exemption along with a written request for CITY to exempt CONTRACTOR, written on CONTRACTOR letterhead.

6.4.3 Comprehensive Auto Liability – coverage shall include owned, hired and non-owned vehicles.

A.	Bodily Injury	
1.	Each Occurrence	\$1,000,000
2.	Annual Aggregate	\$1,000,000
B.	Property Damage	
1.	Each Occurrence	\$1,000,000
2.	Annual Aggregate	\$1,000,000

6.5 CONTRACTOR shall name the CITY, as an additional insured on each of the policies required herein and shall hold the CITY, its agents, officers and employees harmless on account of claims for damages to persons, property or premises arising out of the services provided hereunder.

6.6 Any insurance required of CONTRACTOR pursuant to this Agreement must also be required by any subcontractor in the same limits and with all requirements as provided herein, including naming the CITY as an additional insured, in any work that is subcontracted unless such subcontractor is covered by the protection afforded by the CONTRACTOR and provided proof of such coverage is provided to CITY. The CONTRACTOR and any subcontractors shall maintain such policies during the term of this Agreement.

## **ARTICLE 7**

### **NON-DISCRIMINATION & EQUAL OPPORTUNITY EMPLOYMENT**

7.1 During the performance of the Agreement, neither CONTRACTOR nor its subcontractors shall discriminate against any employee or applicant for employment because of race, religion, color, gender, national origin, sex, age, marital status, political affiliation, familial status, sexual orientation, or disability if qualified. CONTRACTOR will take affirmative





action to ensure that employees are treated during employment, without regard to their race, religion, color, gender, national origin, sex, age, marital status, political affiliation, familial status, sexual orientation, or disability if qualified. Such actions must include, but not be limited to, the following: employment, promotion; demotion or transfer; recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. CONTRACTOR shall agree to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause. CONTRACTOR further agrees that he/she/it will ensure that subcontractors, if any, will be made aware of and will comply with this nondiscrimination clause.

## **ARTICLE 8 INDEPENDENT CONTRACTOR**

- 8.1 This Agreement does not create an employee/employer relationship between the parties. It is the intent of the parties that the CONTRACTOR is an independent CONTRACTOR under this Agreement and not the CITY's employee for all purposes, including but not limited to, the application of the Fair Labor Standards Act minimum wage and overtime payments, Federal Insurance Contribution Act, the Social Security Act, the Federal Unemployment Tax Act, the provisions of the Internal Revenue Code, the State Workers' Compensation Act, and the State unemployment insurance law. The CONTRACTOR shall retain sole and absolute discretion in the judgment of the manner and means of carrying out CONTRACTOR activities and responsibilities hereunder provided, further that administrative procedures applicable to services rendered under this Agreement shall be those of CONTRACTOR which policies of CONTRACTOR shall not conflict with CITY, State, H.U.D., or United States policies, rules or regulations relating to the use of CONTRACTOR Funds provided for herein. The CONTRACTOR agrees that it is a separate and independent enterprise from the CITY, that it has full opportunity to find other business, that it has made its own investment in its business, and that it will utilize a high level of skill necessary to perform the work. This Agreement shall not be construed as creating any joint employment relationship between the CONTRACTOR and the CITY and the CITY will not be liable for any obligation incurred by CONTRACTOR including but not limited to unpaid minimum wages and/or overtime premiums.

## **ARTICLE 9 SIGNATORY AUTHORITY**

- 9.1 CONTRACTOR shall provide CITY with copies of requisite documentation evidencing that the signator for CONTRACTOR has the authority to enter into this Agreement.

## **ARTICLE 10 MERGER; AMENDMENT**

- 10.1 This Agreement constitutes the entire Agreement between CONTRACTOR and CITY, and negotiations and oral understandings between the parties are merged herein. This Agreement





can be supplemented or amended only by a written document executed by both CONTRACTOR and CITY with the same formality and equal dignity herewith.

## **ARTICLE 11 DEFAULT OF CONTRACT & REMEDIES**

- 11.1 CITY reserves the right to recover any ascertainable actual damages incurred as a result of the failure of CONTRACTOR to perform in accordance with the requirements of this Agreement, or for losses sustained by CITY resultant from CONTRACTOR failure to perform in accordance with the requirements of this Agreement.

## **ARTICLE 12 BANKRUPTCY**

- 12.1 It is agreed that if CONTRACTOR is adjudged bankrupt, either voluntarily or involuntarily, then this Agreement shall terminate effective on the date and at the time the bankruptcy petition is filed.

## **ARTICLE 13 DISPUTE RESOLUTION**

- 13.1 In addition to any other remedy provided hereunder, CITY, at its option, may use arbitration to resolve any controversy or claim arising out of or relating to this Agreement if arbitration is elected by CITY. Any controversy or claim arising out of or relating to this Agreement, or breach thereof, may be settled by arbitration in accordance with the rules of the American Arbitration Association and judgment upon the award rendered by the arbitrators may be entered into by any court having jurisdiction thereof. In the event arbitration is elected by CITY, such controversy or claim shall be submitted to one arbitrator selected by the CITY from the National Panel of The American Arbitration Association.
- 13.2 Operations During Dispute.

13.2.1 In the event that a dispute, if any, arises between CITY and CONTRACTOR relating to this Agreement, performance or compensation hereunder, CONTRACTOR shall continue to provide the Commodities in full compliance with all terms and conditions of this Agreement as interpreted by CITY regardless of such dispute.

13.2.2 Notwithstanding the other provisions in this Section, CITY reserves the right to terminate the Agreement at any time, whenever the subject goods and/or commodities provided by CONTRACTOR fail to meet reasonable standards of the trade or any warranty, express or implied contained herein, after CITY gives written notice to the CONTRACTOR of the deficiencies as set forth in Section 2.4.1 of this Agreement.

## **ARTICLE 14 PUBLIC RECORDS**



14.1 The City of Pembroke Pines is public agency subject to Chapter 119, Florida Statutes. The Contractor shall comply with Florida's Public Records Law. Specifically, the Contractor shall:

14.1.1 Keep and maintain public records required by the CITY to perform the service;

14.1.2 Upon request from the CITY's custodian of public records, provide the CITY with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in chapter 119, Fla. Stat., or as otherwise provided by law;

14.1.3 Ensure that public records that are exempt or that are confidential and exempt from public record disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and, following completion of the contract, CONTRACTOR shall destroy all copies of such confidential and exempt records remaining in its possession after the CONTRACTOR transfers the records in its possession to the CITY; and

14.1.4 Upon completion of the contract, CONTRACTOR shall transfer to the CITY, at no cost to the CITY, all public records in CONTRACTOR's possession. All records stored electronically by the CONTRACTOR must be provided to the CITY, upon request from the CITY's custodian of public records, in a format that is compatible with the information technology systems of the CITY.

14.2 The failure of Contractor to comply with the provisions set forth in this Article shall constitute a Default and Breach of this Agreement and the CITY shall enforce the Default in accordance with the provisions set forth in **Article 11**.

**IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT**

**CITY CLERK  
10100 PINES BOULEVARD, 5<sup>th</sup> FLOOR  
PEMBROKE PINES, FL 33026  
(954) 450-1050  
[mgraham@ppines.com](mailto:mgraham@ppines.com)**



## ARTICLE 15 MISCELLANEOUS

- 15.1 **Ownership of Documents.** Reports, surveys, studies, and other data provided in connection with this Agreement are and shall remain the property of CITY, whether or not the project for which they are made is completed.
- 15.2 **Legal Representation.** It is acknowledged that each party to this agreement had the opportunity to be represented by counsel in the preparation of this Agreement, and accordingly, the rule that a contract shall be interpreted strictly against the party preparing same shall not apply herein due to the joint contributions of both parties.
- 15.3 **Records.** CONTRACTOR shall keep such records and accounts and require any and all subcontractors to keep records and accounts as may be necessary in order to record complete and correct entries as to the provision of Commodities or purchases hereunder for which CONTRACTOR. Such books and records will be available at all reasonable times for examination and audit by CITY and shall be kept for a period of \_\_\_\_ (\_\_\_\_) **years** after the completion of all work to be performed pursuant to this Agreement, or as otherwise required by Florida law. Incomplete or incorrect entries in such books and records will be grounds for disallowance by CITY of any fees or expenses based upon such entries.
- 15.4 **Assignments; Amendments.** This Agreement, and any interests herein, shall not be assigned, transferred or otherwise encumbered, under any circumstances, by CONTRACTOR without the prior written consent of CITY. For purposes of this Agreement, any change of ownership of CONTRACTOR shall constitute an assignment which requires CITY approval. However, this Agreement shall run to the benefit of CITY and its successors and assigns.
- It is further agreed that no modification, amendment, or alteration in the terms or conditions contained herein shall be effective unless contained in a written document executed with the same formality and of equal dignity herewith.
- 15.5 **No Contingent Fees.** CONTRACTOR warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for CONTRACTOR to solicit or secure this Agreement, and that it has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for CONTRACTOR any fee, commission, percentage, gift, or other consideration contingent upon or resulting from the award or making of this Agreement. For the breach or violation of this provision, CITY shall have the right to terminate the Agreement without liability at its discretion, to deduct from the contract price, or otherwise recover the full amount of such fee, commission, percentage, gift or consideration.
- 15.6 **Notice.** Whenever any party desires to give notice unto any other party, it must be given by written notice, sent by certified United States mail, with return receipt requested, addressed to the party for whom it is intended and the remaining party, at the places last specified, and the places for giving of notice shall remain such until they shall have been changed by written



notice in compliance with the provisions of this section. For the present, CONTRACTOR and CITY designate the following as the respective places for giving of notice:

CITY                      Charles F. Dodge, City Manager  
City of Pembroke Pines  
10100 Pines Boulevard  
Pembroke Pines, Florida 33025  
Telephone No.            (954) 431-4884  
Facsimile No.            (954) 437-1149

Copy To:                Samuel S. Goren, City Attorney  
Goren, Cherof, Doody & Ezrol, P.A.  
3099 East Commercial Boulevard, Suite 200  
Fort Lauderdale, Florida 33308  
Telephone No.            (954) 771-4900  
Facsimile No.            (954) 771-4923

CONTRACTOR:        **[CONTACT, TITLE]**  
**[VENDOR NAME]**  
**[VENDOR ADDRESS]**  
**[VENDOR CITY, STATE, & ZIP CODE]**  
**Telephone No:**        \_\_\_\_\_  
**Facsimile No:**        \_\_\_\_\_  
**E-Mail:**                \_\_\_\_\_

- 15.7 **Binding Authority.** Each person signing this Agreement on behalf of either party individually warrants that he or she has full legal power to execute this Agreement on behalf of the party for whom he or she is signing, and to bind and obligate such party with respect to all provisions contained in this Agreement.
- 15.8 **Headings.** Headings herein are for the convenience of reference only and shall not be considered in any interpretation of this Agreement.
- 15.9 **Exhibits.** Each Exhibit referred to in this Agreement forms an essential part of this Agreement. The exhibits if not physically attached should be treated as part of this Agreement and are incorporated herein by reference.
- 15.10 **Severability.** If any provision of this Agreement or application thereof to any person or situation shall to any extent, be held invalid or unenforceable, the remainder of this Agreement, and the application of such provisions to persons or situations other than those as to which it shall have been held invalid or unenforceable, shall not be affected thereby, and shall continue in full force and effect, and be enforced to the fullest extent permitted by law.



- 15.11 **Extent of Agreement and Conflicts.** This Agreement represents the entire and integrated agreement between CITY and CONTRACTOR and supersedes all prior negotiations, representations or agreements, either written or oral.
- 15.12 **Waiver.** Failure of CITY to insist upon strict performance of any provision or condition of this Agreement, or to execute any right herein contained, shall not be constructed as a waiver or relinquishment for the future of any such provision, condition, or right, but the same shall remain in full force and effect.
- 15.13 **Disputes.** Any claim, objection, or dispute arising out of the terms of this Agreement shall be litigated in Broward County, Florida.
- 15.14 **Attorney's Fees.** In the event that either party brings suit for enforcement of this Agreement, each party shall bear its own attorney's fees and court costs, except as otherwise provided under the indemnification provisions set forth herein above.

**THE REMAINDER OF THIS PAGE  
HAS BEEN INTENTIONALLY LEFT BLANK.**



**IN WITNESS OF THE FOREGOING**, the parties have set their hands and seals the day and year first written above.

**CITY:**

CITY OF PEMBROKE PINES, FLORIDA

ATTEST:

\_\_\_\_\_  
MARLENE D. GRAHAM, CITY CLERK

By: \_\_\_\_\_  
MAYOR FRANK C. ORTIS

APPROVED AS TO FORM:

\_\_\_\_\_  
OFFICE OF THE CITY ATTORNEY

**CONTRACTOR:**

**[NAME OF CONTRACTOR]**

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ )

**BEFORE ME**, an officer duly authorized by law to administer oaths and take acknowledgments, personally appeared \_\_\_\_\_ as \_\_\_\_\_ of **[NAME OF CONTRACTOR]**, a company authorized to conduct business in the State of Florida, and acknowledged execution of the foregoing Agreement as the proper official of **[NAME OF CONTRACTOR]** for the use and purposes mentioned in it and affixed the official seal of the corporation, and that the instrument is the act and deed of that corporation.

**IN WITNESS OF THE FOREGOING**, I have set my hand and official seal at in the State and County aforesaid on this \_\_\_\_\_ day of \_\_\_\_\_, 2016.

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

\_\_\_\_\_  
(Name of Notary Typed, Printed or Stamped)



# CERTIFICATE OF LIABILITY INSURANCE

7/1/2017

DATE (MM/DD/YYYY)  
6/29/2016

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 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).

<b>PRODUCER</b> Lockton Companies Three City Place Drive, Suite 900 St. Louis MO 63141-7081 (314) 432-0500	<b>CONTACT NAME:</b>	
	<b>PHONE (A/C, No, Ext):</b>	
<b>INSURED</b> 1330397 Horton Enterprises, Inc. Halcore Group Inc., Leader Industries Horton Emergency Vehicles American Emergency Vehicles 3800 McDowell Road Grove City OH 43123	<b>FAX (A/C, No):</b>	
	<b>E-MAIL ADDRESS:</b>	
	<b>INSURER(S) AFFORDING COVERAGE</b>	
	<b>INSURER A:</b> First Specialty Insurance Corporation	<b>NAIC #</b>
	<b>INSURER B:</b> Travelers Property Casualty Co of America	
	<b>INSURER C:</b> AXIS Surplus Insurance Company	
<b>INSURER D:</b> North American Specialty Insurance Co		
<b>INSURER E:</b> The Charter Oak Fire Insurance Company		
<b>INSURER F:</b>		

**COVERAGES HOREN60****CERTIFICATE NUMBER: 10936407****REVISION NUMBER: XXXXXXXX**


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"/> <b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER	N	N	IRG2001384-03	7/1/2016	7/1/2017	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMP/OP AGG \$ 4,000,000
B	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS <input checked="" type="checkbox"/> Garage Keepers*	N	N	TC2JCAP8E082581TIL16	7/1/2016	7/1/2017	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX Comp/Coll Ded \$ 1,000
C	<b>UMBRELLA LIAB</b> <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE  DED <input type="checkbox"/> RETENTION \$	N	N	EAU781897012016 EXS200016502	7/1/2016 7/1/2016	7/1/2017 7/1/2017	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 Excess Liab. \$ 20,000,000
E	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	TC20UB118D488216	7/1/2016	7/1/2017	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

THIS CERTIFICATE CONFERS NO ADDITIONAL INSURED RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

**CERTIFICATE HOLDER****CANCELLATION**

<b>10936407</b>  HORTON EMERGENCY VEHICLES 3800 MCDOWELL ROAD GROVE CITY OH 43123	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  





June 13, 2012

Horton Emergency Vehicles, in conjunction with CTL Engineering, Inc., Transportation Research Center, Inc., and Progressive Engineering, Inc., has successfully completed and required tests as set forth in Federal Specification KKK-A-1822F, dated February, 2008, for the below listed vehicles, components and equipment of Horton Emergency Vehicles located at 3800 McDowell Road, Grove City, Ohio 43123.

<u>TYPE</u>	<u>CHASSIS</u>	<u>WHEELBASE</u>	<u>GVWR</u>	<u>ENGINE TYPE/SIZE</u>	<u>MODULE SIZE</u>	<u>FLOOR PLANS</u>
I	FORD F-350	164.8"	12,500	DIESEL/6.0L	403 & 453	A & B
I	FORD F-450	164.8"/189"	16,500	DIESEL/6.01	453, 457, F603 & F623	A & B
I	INTERNATIONAL 4300	169"	20,000	DIESEL/DT 466	603	A & B
I	INTERNATIONAL 4300	175"	20,000	DIESEL/DT 466	623	A & B
I	INTERNATIONAL TERRASTAR	183"	19,000	DIESEL MAXX FORCE 7	603T/623	A & B
III	CHEV/GMC C-4500/C-5500	165.5"	17,500	DIESEL/6.6L	525 & 555	A & B
III	FORD E-350SD	138"	11,500	DIESEL/6.0L & GAS/6.8L	403 & 453	A & B
III	FORD E-450SD	158"	14,050	DIESEL 6.0L & GAS/6.8L	533 & 553	A & B
I	DODGE 4500	168.5"/188.5"/192.5"	16,500	DIESEL 6.7L	403, 453, 457. & D623	A & B
III	CHEVY/GMC G-4500	139"	12,300	DIESEL/6.6L	403 & 453	A & B
III	CHEVY/GMC G-4500	159"	14,200	DIESEL/6.6L	553	A & B
I	FREIGHTLINER	168"	20,000	DIESEL/6.7/8.3L	603	A & B
I	FREIGHTLINER	174"	20,000	DIESEL/6.7/8.3L	623	A & B

Respectfully submitted,

David Cole  
Vice President  
Sales and Marketing

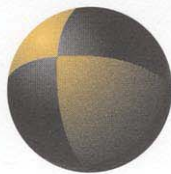
Sworn to and subscribed in my presence by DAVID B. Cole  
this 13 day of June 2012.

My commission expires November 13, 2015.  
Notary Public Cheryl K Engard



CHERYL K ENGARD  
NOTARY PUBLIC - OHIO  
MY COMMISSION EXPIRES NOVEMBER 13, 2015





March 14, 2007



Mr. Malley  
Horton Emergency Vehicles  
3800 McDowell Road  
Grove City, OH 43123

Dear Mr. Malley

18881 US 31 North  
P.O. Box 1020  
Westfield, Indiana  
46074-1020

Phone  
(317) 896-9531  
Fax  
(317) 867-2305

This document is to confirm that on February 22, 2007, IMMI's Center for Advanced Product Evaluation (CAPE) witnessed the dynamic roof pre-load, static roof load and dynamic rear impact tests as regulated by ECE R29, SAE J2422 and SAE J2420 on a Horton Emergency Vehicles ambulance box. The events were documented with photographs, real-time and high-speed video, vehicle accelerometers, cart accelerometers and a laser speed trap.

This document also reports that the Horton Emergency Vehicles ambulance box is in compliance with the requirements and intent of standards ECE R29, SAE J2422 and SAE J2420. Whereby, the testing with regard to the above-mentioned standards was carried out by CAPE on February 22, 2007 at IMMI's Center for Advanced Product Evaluation in Westfield, Indiana.

Sincerely,

James R. Chinni P.E.  
Director of CAPE

Ref: CTR02181



Bringing Safety to People™

April 13, 2012

Mr. Eric Fisher  
Horton Emergency Vehicles  
3800 McDowell Road  
Grove City, OH 43123

Dear Mr. Fisher,

As you know, IMMI supplies the safety components for the HOPS rollover protection system used in Horton Emergency Vehicles. This system includes a rollover sensor that deploys the airbags when the ambulance enters an irrecoverable lateral rollover.

The HOPS rollover sensor continuously monitors the vehicle's angular rate at all times after completion of the initial 6 second diagnostic mode. It monitors the angular rate at all times, at any vehicle speed, whether the vehicle is traveling forward, stopped or traveling in reverse. During a life-threatening rollover event, the sensor compares the vehicle's acceleration, roll angle and roll rate against known rollover conditions. When the comparison indicates a irrecoverable rollover condition, the sensor deploys the airbags. When the vehicle's ignition switch is turned off, the rollover sensor turns off too.

If for some reason the HOPS rollover sensor is inoperable, the digital readout in the Intelliplex panel will be continuously illuminated and the HOPS system should be taken to a Horton dealer for closer examination.

IMMI has tested and confirmed the operation, durability and reliability of the rollover sensor and the other safety components of the Horton HOPS system. Should you need further clarification, please contact me anytime.

Best Regards,

James R. Chinni P.E.  
Director of Engineering



Date: August 16, 2016

Re: Change Notice 8 Testing

Horton Emergency Vehicles

3800 McDowell Road

Grove City OH 43123

This document confirms that CAPE performed testing to SAE Recommended Practices J3026 Ambulance Patient Compartment Seating Integrity and Occupant Restraint and J3027 Ambulance Litter Integrity, Retention, and Patient Restraint utilizing Horton supplied vehicle body sections. Tests pulses from the SAE ambulance frontal crash conditions, SAE J2917 Occupant Restraint and Equipment Mounting Integrity – Frontal Impact System-Level Ambulance Patient Compartment and the ambulance side crash conditions, SAE J2956 Occupant Restraint and Equipment Mounting Integrity – Side Impact System-Level Ambulance Patient Compartment were utilized for the testing. The Squad Bench, Attendant, and CPR Seating Positions were tested for compliance with SAE J3026. The Litter position was tested for compliance with SAE J3027. The test results were analyzed and the SAE J3026 and J3027 performance requirements were met including all ATD Injury criteria and ATD excursion limits.

Kind Regards,

Ryan W Hoover, PE

CAPE Technical Director



REF: CTR10189 (001,002) , CTR10190 (001,002) , CTR10311 (005,008,010) , CTR10477 (001),  
CTR11030 (001,003,004)

**Prepared for:**  
Mike Harper  
Horton Emergency Vehicles  
3800 McDowell Rd  
Grove City, OH 43123  
Phone: 614-539-8181 Ex 316

**Prepared by:**  
Ryan Droege  
Premier Truck Group of Dallas  
4200 PORT BOULEVARD  
DALLAS, TX 75241  
Phone: 972-225-4332

*A proposal for*  
**Horton Emergency Vehicles**

*Prepared by*  
**Premier Truck Group of Dallas**  
*Ryan Droege*

*Mar 23, 2017*

**Freightliner M2 106**  
**Pembroke Pines – 2018 - Spec**



Components shown may not reflect all spec'd options and are not to scale

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## S P E C I F I C A T I O N   P R O P O S A L

Data Code	Description
<b>Price Level</b>	
PRL-14M	M2 PRL-14M (EFF:10/05/15)
<b>Data Version</b>	
DRL-016	SPECPRO21 DATA RELEASE VER 016
<b>Interior Convenience/Driver Retention Package</b>	
055-002	INTERIOR CONVENIENCE PACKAGE
<b>Vehicle Configuration</b>	
001-172	M2 106 CONVENTIONAL CHASSIS
004-218	2018 MODEL YEAR SPECIFIED
002-004	SET BACK AXLE - TRUCK
019-002	STRAIGHT TRUCK PROVISION
003-001	LH PRIMARY STEERING LOCATION
<b>General Service</b>	
AA1-002	TRUCK CONFIGURATION
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)
A85-006	RESCUE AND EMERGENCY SERVICE
A84-1EV	EMERGENCY VEHICLES BUSINESS SEGMENT
AA4-011	FIXED LOAD COMMODITY
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS
AB1-008	MAXIMUM 8% EXPECTED GRADE
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE
995-091	MEDIUM TRUCK WARRANTY
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 10000.0 lbs
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 15000.0 lbs
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 25000.0 lbs



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Data Code	Description
<b>Truck Service</b>	
AA3-024	AMBULANCE BODY
AF7-99D	EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in
<b>Engine</b>	
101-21U	CUM B6.7 250 HP @ 2400 RPM, 2600 GOV, 660 LB/FT @ 1600 RPM
<b>Electronic Parameters</b>	
79A-078	78 MPH ROAD SPEED LIMIT
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT
79K-007	PTO MODE ENGINE RPM LIMIT - 1100 RPM
79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM
79Q-003	PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM
79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND
80G-002	PTO MINIMUM RPM - 700
80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH
<b>Engine Equipment</b>	
99C-017	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION
99D-011	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)
13E-001	STANDARD OIL PAN
105-001	ENGINE MOUNTED OIL CHECK AND FILL
133-004	ONE PIECE VALVE COVER
014-099	SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER
124-1CE	LN 12V 320 AMP 4962PA PAD MOUNT ALTERNATOR
292-058	(3) ALLIANCE MODEL 1031, GROUP 31, 12 VOLT MAINTENANCE FREE 2280 CCA THREADED STUD BATTERIES
290-017	BATTERY BOX FRAME MOUNTED
281-001	STANDARD BATTERY JUMPERS
282-003	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE BACK OF CAB
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN
289-001	NON-POLISHED BATTERY BOX COVER

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Data Code	Description
293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE
108-002	STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR
131-013	AIR COMPRESSOR DISCHARGE LINE
152-039	GVG, FIRE AND EMERGENCY SERVICE VEHICLES ENGINE WARNING
128-076	CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE
28F-007	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD ACTIVE REGENERATION AND DASH MOUNTED SINGLE REGENERATION REQUEST/INHIBIT SWITCH
239-038	11 FOOT 06 INCH (138 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT
233-017	STANDARD CURVE BRIGHT UPPER STACK(S)
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP
23U-001	6 GALLON DIESEL EXHAUST FLUID TANK MOUNTED UNDER CAB. 23Y-001 PUMP MTD BTW TANK AND RAIL
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP
242-001	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILOPIPE SHIELD
273-035	HORTON HT650 FRONTAL AIR ON/OFF ENGINE FAN CLUTCH
276-002	AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED
110-003	CUMMINS SPIN ON FUEL FILTER
118-001	FULL FLOW OIL FILTER
266-078	950 SQUARE INCH ALUMINUM RADIATOR



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Data Code	Description
103-036	ANTIFREEZE TO -34F, ETHYLENE GLYCOL PRE-CHARGED SCA HEAVY DUTY COOLANT
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES
270-016	RADIATOR DRAIN VALVE
168-002	LOWER RADIATOR GUARD
138-010	PHILLIPS-TEMRO 750 WATT/115 VOLT BLOCK HEATER
140-022	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR
134-001	ALUMINUM FLYWHEEL HOUSING
132-004	ELECTRIC GRID AIR INTAKE WARMER
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH

#### Transmission

342-1KD	ALLISON 3000 EVS AUTOMATIC TRANSMISSION WITH PTO PROVISION
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#### Transmission Equipment

343-331	ALLISON VOCATIONAL PACKAGE 198 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL EVS
84B-003	ALLISON VOCATIONAL RATING FOR FIRE TRUCK/EMERGENCY VEHICLE APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
84E-000	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84F-000	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84G-000	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE



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Data Code	Description
84L-000	LOAD BASED SHIFT SCHEDULE AND VEHICLE ACCELERATION CONTROL RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED VOCATIONAL USAGE
84N-000	NEUTRAL AT STOP - DISABLED, FUELSense - DISABLED
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES
353-022	VEHICLE INTERFACE WIRING CONNECTOR WITHOUT BLUNT CUTS, AT BACK OF CAB
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED
362-035	CUSTOMER INSTALLED CHELSEA 277 SERIES PTO
363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)

#### Front Axle and Equipment

400-1A5	DETROIT DA-F-10.0-3 10,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE
402-021	MERITOR 15X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
403-026	FIRE AND EMERGENCY SEVERE SERVICE, NON-ASBESTOS FRONT LINING
419-023	CONMET CAST IRON FRONT BRAKE DRUMS
409-021	SKF SCOTSEAL PLUS XL FRONT OIL SEALS
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS
536-050	TRW THP-60 POWER STEERING
539-003	POWER STEERING PUMP



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Data Code	Description
534-015	2 QUART SEE THROUGH POWER STEERING RESERVOIR
40T-001	ORGANIC SAE 80/90 FRONT AXLE LUBE

#### Front Suspension

620-062	10,000# TAPERLEAF FRONT SUSPENSION
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION
62H-998	NO FRONT SUSPENSION SPRING BRACKET OPTIONS
629-004	FRONT SWAYBAR
410-001	FRONT SHOCK ABSORBERS

#### Rear Axle and Equipment

420-1CY	DETROIT DA-RS-15.0-2 15,000# F-SERIES SINGLE REAR AXLE
421-456	4.56 REAR AXLE RATIO
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING
386-079	MXL 16T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES
423-001	MERITOR 15X6 Q+ CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
433-025	FIRE AND EMERGENCY SEVERE SERVICE NON-ASBESTOS REAR BRAKE LINING
434-005	BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S) WITH AUXILIARY SUPPORT BRACKETS
451-018	WEBB CAST IRON REAR BRAKE DRUMS
440-001	SKF SCOTSEAL CLASSIC REAR OIL SEALS
426-074	HALDEX GOLDSEAL LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS
428-002	MERITOR AUTOMATIC REAR SLACK ADJUSTERS
41T-001	ORGANIC SAE 80/90 REAR AXLE LUBE

#### Rear Suspension

622-1CX	AIRLINER 12,000# REAR SUSPENSION
621-047	AIRLINER LOW POSITION RIDE HEIGHT
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP
888-050	IGNITION CONTROLLED ELECTRIC DUMP SWITCH FOR AIR SUSPENSION WITH GAUGE

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Data Code	Description
87D-001	REAR AIR SUSPENSION DUMP VALVE AUTOFILL WITH IGNITION OFF OR >5 MPH WITH INDICATOR LIGHT
910-004	DUAL AIR REAR SUSPENSION LEVELING VALVES
623-002	TRANSVERSE CONTROL RODS
630-006	10,000/15,000# AIRLINER REAR SUSPENSION STABILIZER BAR
439-004	REAR SHOCK ABSORBERS - ONE AXLE (AIR RIDE SUSPENSION)

### Brake System

018-002	AIR BRAKE PACKAGE
490-100	WABCO 4S/4M ABS WITHOUT TRACTION CONTROL
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES
904-001	FIBER BRAID PARKING BRAKE HOSE
412-001	STANDARD BRAKE SYSTEM VALVES
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM
413-002	STD U.S. FRONT BRAKE VALVE
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE
480-009	BW AD-9 BRAKE LINE AIR DRYER WITH HEATER
479-015	AIR DRYER FRAME MOUNTED
460-008	STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL
477-008	BW DV-2 AUTO DRAIN VALVE WITH HEATER - WET TANK

### Trailer Connections

335-004	UPGRADED CHASSIS MULTIPLEXING UNIT
32A-002	UPGRADED BULKHEAD MULTIPLEXING UNIT
30L-998	NO HIGH CURRENT TRAILER/BODY CABLE

### Wheelbase & Frame

545-442	4425MM (174 INCH) WHEELBASE
546-094	9/32X3-7/16X10-1/16 INCH STEEL FRAME (7.14MMX255.6/0.281X10.06 INCH) 80KSI
552-030	1600MM (63 INCH) REAR FRAME OVERHANG
55W-006	FRAME OVERHANG RANGE: 61 INCH TO 70 INCH
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 108.45 in

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Data Code	Description
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 105.45 in
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 266.39
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 108.45 in
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 99.97 in
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 117.82 in
553-001	SQUARE END OF FRAME
550-001	FRONT CLOSING CROSSMEMBER
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)
572-001	STANDARD REARMOST CROSSMEMBER
565-001	STANDARD SUSPENSION CROSSMEMBER

#### Chassis Equipment

556-1AR	THREE-PIECE 14 INCH CHROMED STEEL BUMPER WITH COLLAPSIBLE ENDS
558-001	FRONT TOW HOOKS - FRAME MOUNTED
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE
586-024	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS

#### Fuel Tanks

204-217	34 GALLON/128 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH
218-005	RECTANGULAR FUEL TANK(S)
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS
212-007	FUEL TANK(S) FORWARD
664-001	PLAIN STEP FINISH
205-001	FUEL TANK CAP(S)
122-1J2	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR AND HAND PRIMER
216-020	EQUIFLO INBOARD FUEL SYSTEM
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE

#### Tires

093-0E5	MICHELIN XZE 245/70R19.5 16 PLY RADIAL FRONT TIRES
---------	--

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Data Code	Description
094-1FT	MICHELIN XDS2 245/70R19.5 16 PLY RADIAL REAR TIRES
<b>Hubs</b>	
418-014	WEBB IRON FRONT HUBS
450-014	WEBB IRON REAR HUBS
<b>Wheels</b>	
502-1EE	ACCURIDE 50232 19.5X6.75 8-HUB PILOT 4.62 INSET 6-HAND STEEL DISC FRONT WHEELS
505-1EB	ACCURIDE 50180 19.5X6.75 8-HUB PILOT 4-HAND STEEL DISC REAR WHEELS
496-011	FRONT WHEEL MOUNTING NUTS
497-011	REAR WHEEL MOUNTING NUTS
<b>Cab Exterior</b>	
829-071	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
650-009	RUBBER CAB MOUNTS
678-018	LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT
646-023	HOOD MOUNTED CHROMED PLASTIC GRILLE
65X-001	ARGENT SILVER HOOD MOUNTED AIR INTAKE GRILLE
644-004	FIBERGLASS HOOD
690-002	TUNNEL/FIREWALL LINER
727-1B1	DUAL 25 INCH ROUND STUTTER TONE HOOD MOUNTED AIR HORNS WITH DUAL LANYARDS
726-002	DUAL ELECTRIC HORNS
728-002	DUAL HORN SHIELDS
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME
575-001	REAR LICENSE PLATE MOUNT END OF FRAME
312-038	INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL
302-047	LED AERODYNAMIC MARKER LIGHTS
311-019	HEADLIGHTS ON WITH WIPERS, WITH DAYTIME RUNNING LIGHTS
294-001	INTEGRAL STOP/TAIL/BACKUP LIGHTS
300-015	STANDARD FRONT TURN SIGNAL LAMPS
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE
797-001	DOOR MOUNTED MIRRORS
796-001	102 INCH EQUIPMENT WIDTH

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Data Code	Description
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS
729-001	STANDARD SIDE/REAR REFLECTORS
768-043	63X14 INCH TINTED REAR WINDOW
661-004	TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS
654-011	RH AND LH ELECTRIC POWERED WINDOWS
663-019	1-PIECE TINTED ROPED-IN WINDSHIELD
659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED

#### Cab Interior

707-1AK	OPAL GRAY VINYL INTERIOR
706-016	MOLDED DOOR PANEL WITH UPPER VINYL INSERTS
708-016	MOLDED DOOR PANEL WITH UPPER VINYL INSERTS
772-006	BLACK MATS WITH SINGLE INSULATION
785-001	DASH MOUNTED ASH TRAYS AND LIGHTER
691-014	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS AND ADDITIONAL CENTER COMPARTMENT WITHOUT NETTING
694-010	IN DASH STORAGE BIN
742-007	(2) CUP HOLDERS LH AND RH DASH
680-006	GRAY/CHARCOAL FLAT DASH
860-004	SMART SWITCH EXPANSION MODULE
700-002	HEATER, DEFROSTER AND AIR CONDITIONER
701-001	STANDARD HVAC DUCTING
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH
170-015	STANDARD HEATER PLUMBING
130-036	(1) DENSO HEAVY DUTY AND (1) SANDEN COMPACT REFRIGERANT COMPRESSORS
702-002	BINARY CONTROL, R-134A
739-034	PREMIUM INSULATION
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM
324-011	DOMED DOOR ACTIVATED LH AND RH, DUAL READING LIGHTS, FORWARD CAB ROOF

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Data Code	Description
655-005	LH AND RH ELECTRIC DOOR LOCKS
284-023	(1) 12 VOLT POWER SUPPLY IN DASH
756-1J3	BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION
760-1J3	BASIC HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION
759-002	INBOARD DRIVER AND PASSENGER SEAT ARMRESTS
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS
758-033	VINYL WITH CLOTH INSERT DRIVER SEAT
761-033	VINYL WITH CLOTH INSERT PASSENGER SEAT
763-104	HIGH VISIBILITY ORANGE SEAT BELTS WITH DRIVER INDICATOR LIGHT AND AUDIBLE ALARM
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS

### Instruments & Controls

732-003	WOODGRAIN DRIVER INSTRUMENT PANEL
734-003	WOODGRAIN CENTER INSTRUMENT PANEL
870-001	BLACK GAUGE BEZELS
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES
198-003	DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS
149-013	ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH
844-001	2 INCH ELECTRIC FUEL GAUGE
148-003	PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE

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Data Code	Description
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY
372-051	CUSTOMER FURNISHED AND INSTALLED PTO CONTROLS
73B-998	NO LANE DEPARTURE WARNING SYSTEM
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE
746-1B4	AM/FM/WB WORLD TUNER RADIO WITH CD PLAYER, BLUETOOTH, IPOD INTERFACE, USB AND AUXILIARY INPUTS, J1939
747-001	DASH MOUNTED RADIO
750-002	(2) RADIO SPEAKERS IN CAB
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER
817-001	STANDARD VEHICLE SPEED SENSOR
812-001	ELECTRONIC 3000 RPM TACHOMETER
8D1-998	NO DIRECT CONNECT
8Z1-998	NO ZONAR SYSTEMS (SCO)
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP
81Y-001	PRE-TRIP LAMP INSPECTION, ALL OUTPUTS FLASH, WITH SMART SWITCH
264-032	(2) OVERHEAD MOUNTED LANYARD CONTROLS: (1) OFFICER AIR HORN AND (1) DRIVER AIR HORN
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH
882-009	ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS
869-998	NO MISCELLANEOUS GAUGES



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Data Code	Description
<b>Design</b>	

065-000	PAINT: ONE SOLID COLOR
<b>Color</b>	

980-5F6	CAB COLOR A: L0006EB WHITE ELITE BC
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT
98K-998	NO FUEL TANK CABINET PAINT
962-972	POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)
966-972	POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)
963-003	STANDARD E COAT/UNDERCOATING

<b>Certification / Compliance</b>	
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996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS
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<b>Secondary Factory Options</b>	
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998-032	CORPORATE PDI CENTER OPTION INSTALLATION/MODIFICATION ONLY
999-014	DEALER HAS BEEN ADVISED OF AND ACCEPTED RESPONSIBILITY FOR MODIFICATIONS DUE TO POSSIBLE PTO/CHASSIS INTERFERENCE

<b>Extended Warranty</b>	
--------------------------	--

WAG-010	TOWING: 1 YEAR/UNLIMITED MILES/KM EXTENDED TOWING COVERAGE \$550 CAP FEX APPLIES
---------	--

<b>Dealer Installed Options</b>			
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		Weight Front	Weight Rear
EXH	EXHAUST MODIFICATION AND ENGINE PROGRAMMING	0	0
Total Dealer Installed Options		0 lbs	0 lbs

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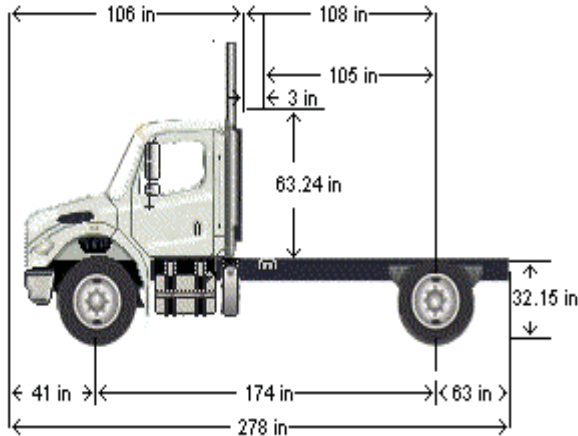
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## DIMENSIONS



## VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model .....	M2106
Wheelbase (545) .....	4425MM (174 INCH) WHEELBASE
Rear Frame Overhang (552) .....	1600MM (63 INCH) REAR FRAME OVERHANG
Fifth Wheel (578) .....	NO FIFTH WHEEL
Mounting Location (577) .....	NO FIFTH WHEEL LOCATION
Maximum Forward Position (in) .....	0
Maximum Rearward Position (in) .....	0
Amount of Slide Travel (in) .....	0
Slide Increment (in) .....	0
Desired Slide Position (in) .....	0.0
Cab Size (829) .....	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682) .....	NO SLEEPER BOX/SLEEPER CAB
Exhaust System (016) .....	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE

## TABLE SUMMARY - DIMENSIONS

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Dimensions	Inches
Bumper to Back of Cab (BBC)	106.3
Bumper to Centerline of Front Axle (BA)	40.7
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	108.4
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	105.4
Back of Cab Protrusions (Exhaust/Intake) (CP)	0.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	171.4
Cab Height (CH)	63.2
Wheelbase (WB)	174.0
Frame Overhang (OH)	63.0
Overall Length (OAL)	277.7
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	32.2

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

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## GVWR

### VEHICLE SPECIFICATIONS SUMMARY - GVWR

Model ..... M2106  
Cab Size (829)..... 106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB  
Expected Front Axle(s) Load (lbs)..... 10000.0  
Expected Pusher Axle(s) Load (lbs)..... 0.0  
Expected Rear Axle(s) Load (lbs) ..... 15000.0  
Expected Tag Axle(s) Load (lbs)..... 0.0  
Expected GVW (lbs) ..... 25000  
Expected GCW (lbs) ..... 0.0  
Front Axle (400)..... DETROIT DA-F-10.0-3 10,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE  
Front Suspension (620) ..... 10,000# TAPERLEAF FRONT SUSPENSION  
Front Hubs (418) ..... WEBB IRON FRONT HUBS  
Front Disc Wheels (502) ..... ACCURIDE 50232 19.5X6.75 8-HUB PILOT 4.62 INSET 6-HAND STEEL DISC FRONT WHEELS  
Front Tires (093) ..... MICHELIN XZE 245/70R19.5 16 PLY RADIAL FRONT TIRES  
Front Brakes (402)..... MERITOR 15X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES  
Steering Gear (536) ..... TRW THP-60 POWER STEERING  
Rear Axle (420) ..... DETROIT DA-RS-15.0-2 15,000# F-SERIES SINGLE REAR AXLE  
Rear Suspension (622)..... AIRLINER 12,000# REAR SUSPENSION  
Rear Hubs (450) ..... WEBB IRON REAR HUBS  
Rear Disc Wheels (505)..... ACCURIDE 50180 19.5X6.75 8-HUB PILOT 4-HAND STEEL DISC REAR WHEELS  
Rear Tires (094) ..... MICHELIN XDS2 245/70R19.5 16 PLY RADIAL REAR TIRES  
Rear Brakes (423) ..... MERITOR 15X6 Q+ CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES  
Pusher / Tag Axle (443) ..... NO PUSHER OR TAG AXLE  
Pusher / Tag Suspension (626) ..... NO PUSHER OR TAG SUSPENSION  
Pusher / Tag Hubs (449)..... NO PUSHER OR TAG HUBS  
Pusher/Tag Disc Wheels (509) ..... NO PUSHER/TAG DISC WHEELS  
Pusher / Tag Tires (095) ..... NO PUSHER/TAG TIRES  
Pusher / Tag Brakes (456)..... NO PUSHER/TAG BRAKES

### TABLE SUMMARY - GVWR

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	Front	Rear
<b>Axle Component Weight Ratings</b>		
Axles	10000	15000
Suspension	10000	12000
Hubs	14600	15000
Brakes	13200	15000
Wheels	10000	20000
Tires	9880	18700
Power Steering	13300	N/A
GAWR (per axle)	9880	12000
GAWR (per axle system)	9880	12000
Expected Load (per axle system)	10000	15000
GVWR due to Frame	33000	
<b>Vehicle GVWR Summary</b>		
Calculated GVWR	21880	
Expected GVWR	25000	
All weights displayed in pounds		

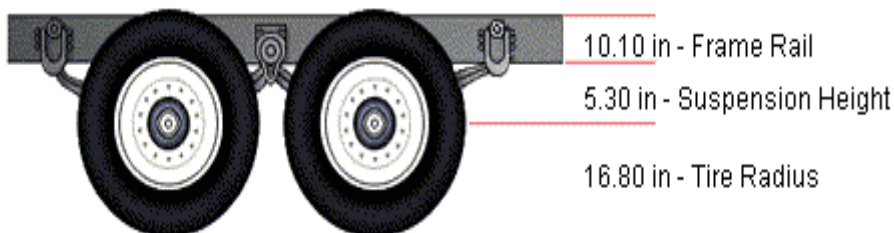
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## UNLADEN FRAME HEIGHT

Unladen Height	Requested	Calculated
Frame (in)	N/A	32.20



## VEHICLE SPECIFICATIONS SUMMARY - UNLADEN FRAME HEIGHT

Model .....M2106  
Cab Size (829)..... 106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB  
Frame Rails (546)..... 9/32X3-7/16X10-1/16 INCH STEEL FRAME (7.14MMX255.6/0.281X10.06 INCH) 80KSI(546)  
Web Height (in)..... 10.0625  
Flange Thickness (in)..... 0.28125  
Rear Suspension (622)..... AIRLINER 12,000# REAR SUSPENSION  
Rear Suspension Ride Height (621)..... AIRLINER LOW POSITION RIDE HEIGHT  
Axle C/L to Bottom of Frame (in)..... 5.292  
Rear Tires (094) .....MICHELIN XDS2 245/70R19.5 16 PLY RADIAL REAR TIRES  
Unladen Radius (in) ..... 16.8  
Fifth Wheel (578) ..... NO FIFTH WHEEL  
Requested Min Height (in) ..... 0.0  
Requested Max Height (in) ..... 1  
Fifth Wheel Leg Height (582) ..... NO FIFTH WHEEL LEG HEIGHT  
Rear Tow Device (587) ..... NO REAR TOWING DEVICE  
Requested Min Height (in) ..... 0.0  
Requested Max Height (in) ..... 0.0

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## TURNING RADIUS



Turning radius graphic and data provided for general estimate purposes only. For specific figures regarding your configuration, please contact your CAE representative.

	Left Turn	Right Turn	Tolerance
Wall to Wall Diameter (ft)	48.3	40.3	+/- 3.0
Curb to Curb Diameter (ft)	46.4	38.2	+/- 3.0
Turning Radius (ft)	22.8	18.7	+/- 1.5

## VEHICLE SPECIFICATIONS SUMMARY - TURNING RADIUS

Model .....M2106  
Cab Size (829)..... 106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB  
Wheelbase (545) .....4425MM (174 INCH) WHEELBASE  
Front Tires (093).....MICHELIN XZE 245/70R19.5 16 PLY RADIAL FRONT TIRES  
Width (in) .....9.7  
Front Axle (400).....DETROIT DA-F-10.0-3 10,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE  
Kingpin Intersection (in) .....71.5  
Bumper (556) ..... THREE-PIECE 14 INCH CHROMED STEEL BUMPER WITH COLLAPSIBLE ENDS  
Width (in) .....93.5  
Bumper Miter to Front Axle (in) .....21.458  
Primary Steering Location (003) ..... LH PRIMARY STEERING LOCATION  
Steering Gear (536) .....TRW THP-60 POWER STEERING  
Dual Steering Gear .....NONE  
Ram.....NONE  
Rear Axle (420) .....DETROIT DA-RS-15.0-2 15,000# F-SERIES SINGLE REAR AXLE  
Axle Spacing (624) .....NO AXLE SPACING

**Prepared for:**  
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**Prepared by:**  
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DALLAS, TX 75241  
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Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



## **SPECIFICATIONS FOR A NEW EMERGENCY MEDICAL VEHICLE**

### **Bidder Instructions:**

The following specification describes a new ambulance that is expected to be acquired by this purchaser. The specification describes the needs of this purchaser as far as chassis configuration and module body design. A state of the art vehicle is required. However, manufacturers that utilize prototype equipment or manufacturing processes will not be considered. The builder's manufacturing history shall be supported by documentation where applicable, and by the reference section within this specification. The benchmark for the initial configuration of this ambulance shall be the current KKK Federal Specification for Ambulances or NFPA 1917 Standard for Automotive Ambulances. However, most requirements in this specification exceed the federal specifications because of the specific needs of this purchaser.

Please note that the following specifications represent minimum general terms or requirements. While it is not the intent of this purchaser to preclude any qualified bidder from submitting a proposal, it must be clear that any bidder deviating in any substantial manner from these specifications will be rejected as being non-compliant.

Finally, manufacturers or distributors for manufacturers submitting bids shall include the following information with their proposal:

### **MINIMUM REQUIRED STANDARDS:**

The highest degree of quality, both in the materials and in the building processes, is required for the emergency medical vehicle being proposed. At a minimum the manufacturer being proposed must meet all current mandated and voluntary ambulance design standards in effect at the date of the proposal submission. All current Federal Motor Vehicle Safety Standards (FMVSS) must be met, as well as all current Federal Ambulance Design specifications as well as NFPA Standards.

The bidder shall state the date of certification for the current KKK-A-1822: F

The manufacturer shall also comply with Ford Motor Company's QVM program. A copy of the manufacturer's current QVM certification must be submitted with the bid.

The current QVM certification is included.  
Yes

### **PROPOSAL COMPLETION PROCESS:**

Various areas in the following specifications require a response from the bidder. In order to aid in the evaluation process all responses must be consistent and, most importantly, legible. Therefore, the areas that are to be completed by the bidder, along with any other materials that may be submitted by the bidder, must be typed. Bids that are submitted with either hand-written responses or with hand stamped responses shall be automatically rejected as being non-compliant.

**SINGLE SOURCE MANUFACTURER:**

To simplify warranty coverage and to assure a consistent level of quality throughout the vehicle, a manufacturer is desired that manufactures the major components for the ambulance (excluding the chassis). Major components are defined as the module body, the interior cabinets, and the converter-added electrical wiring system. This purchaser understands that manufacturers may purchase some elements, such as switches, boards, etc. with which to manufacture a system.

Further, this specification requires the vehicle manufacturer to own the design of, as well as the rights to the onboard converter-added electrical system. Generic aftermarket systems that are manufactured by an outside company and installed by the vehicle converter are not acceptable.

These requirements are addressed elsewhere within this specification where the specific defined items are located. Manufacturers who outsource any of the above-referenced components shall be considered non-responsive and will be rejected.

Bidder states that the represented vehicle builder manufactures all of the major components as defined above:

Yes

Bidder states that the represented vehicle builder owns the design of the converter-added electrical system, as well as all rights to that system and any software that may be required:

Yes

Component manufacturer (by company name):

Modular Body: HORTON EMERGENCY VEHICLES

Interior Cabinets: HORTON EMERGENCY VEHICLES

Electrical Wiring System: HORTON EMERGENCY VEHICLES

**QUOTATION:**

The overall quotation shall include a firm price for a vehicle meeting these specifications. The length of time that the price will be held shall be clearly stated in the quotation. The quotation shall include a specific delivery window based on the number of calendar days following the award of the contract. The model year of both the chassis and the conversion shall be clearly stated in the contract.

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**Ambulance Specifications**

**WARRANTY:**

The proposal shall include all warranties that are required in the following detailed specification. Lifetime warranties will not be accepted because of their unclear nature of duration. All warranties must have specific time durations and shall define warranties on specific components. The minimum acceptable warranty periods are noted below. In the blank lines the bidder shall note the terms of the warranties that apply to the manufacturer being proposed.

MODULAR BODY STRUCTURAL WARRANTY:                      30 years/Unlimited Miles

Note: The structural warranty, as noted in the structural section of this specification, will include the module doors, continued module body door alignment, and all interior cabinet construction. The remounted body shall be completed with the greater of the existing body structural warranty from the OEM still in effect or an extension of (5) years from the date of completion, whichever is greater. The body structural warranty will be effective under the following conditions: (1) the re-chassis is performed by the original manufacturer, (2) the structural warranty has not expired at the time of the re-chassis, and (3) this purchaser approves any structural repairs at the time of the re-chassis. These terms and conditions must be explicitly stated in the manufacturer's warranty certificate.

Does the structural warranty proposed comply with the above-stated terms and conditions?    Yes

ELECTRICAL WARRANTY:    7 years/100,000 Miles

CONVERSION WARRANTY:    2 Years/24,000 Miles

PAINT WARRANTY:    7 Years/84,000 Miles

Corrosion due to electrolysis is warranted as follows:

0 - 4 years = 100%    /    5 years = 50%    /    6 years = 35%    /    7 years = 20%

For verification of the completed warranty terms stated above the bidder must include printed manufacturer's warranty certificates that meet or exceed the minimum required periods stated above.

Are the manufacturers warranties included?                      Yes

Warranties shall be transferable for their duration. All warranties shall be from the manufacturer as opposed to a distributor or service center. This is necessary for the protection of the purchaser, and to guarantee a certain known level of service and warranty. If, however, the bidder feels that it is necessary to modify the manufacturer's warranties, then the bidder shall state why this modification is necessary. In addition, the bidder shall provide a full descriptive warranty certificate describing the warranty modification and the fact that it takes specific precedence over the warranty offered by the manufacturer. If no such certificate is provided, then the modified warranty shall be considered invalid and the manufacturer's warranty shall remain in force. If a warranty modification is proposed through either a distributor or service center, then complete financial statements for that business covering the past five (5) years MUST BE SUBMITTED with the bid. If the manufacturer states that no party

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is permitted to modify its warranty, then any warranty modification provided by the bidder, despite being in writing, shall automatically be rejected.

Does the bidder conform to the above-written section? Yes

In order to simplify the evaluation process the following questions must be answered and this section must be initialed by the bidder.

Are the warranties transferable? Yes

Has the bidder modified the manufacturer's warranties? No

Bidder shall initial that this section is understood and has been answered truthfully. Initials: \_\_\_\_\_

**SERVICE AVAILABILITY:**

Service will be a major factor in the award of this proposal. Convenience and experience will be determining factors in defining acceptable service. A service facility within a radius as described below will be required. Personnel performing the service shall be trained by the manufacturer with emphasis in the area of electrical service. In order to evaluate the proposed service facility the following information shall be provided on the appropriate lines.

Radius from purchaser: Not more than 150 miles.

Facility name: Hall-Mark RTC Southeast Florida

Address: 2821 SW 23rd Terrace, Unit #1

City: Dania Beach State: FL 33312

Contact: Jerry DeYoung

Phone #: 1-(352)-208-7329

Training Description: Master EVT Certification, ASE Certified, Horton I4G Electrical Systems, Air Conditioning Systems.

### ENGINEERING SUPPORT:

Due to the complexity of the design of the vehicle, proposals will be accepted only from manufacturers that utilize well-defined engineering techniques. Computer Aided Design (CAD) drawings of both the interior of the patient area and the overall layout of the module body will be mandatory. At a minimum these drawings shall include all exterior elevations, all interior views (4), and a plan view of the roof/ceiling. All options and elements required within these specifications shall be depicted on the prints. The purpose of this requirement is to assure this purchaser that vehicle proposals indeed meet the stated requirements as set forth in these specifications. Generic CAD drawings are not acceptable. The drawings, as submitted, shall accurately depict the exact vehicle that is being proposed. Bidders not including the required drawings will be considered non-responsive and will, therefore, be rejected.

**SAFETY CERTIFICATION:**

The verification of construction techniques used throughout the building process must be furnished by the manufacturer/bidder. The installation methods and construction techniques associated with seat belt retention, cabinet construction and installation, oxygen cylinder retention and module to chassis mounting systems must be verified through a controlled Hygee sled test that simulates an actual impact condition. This test must be performed, under both side and frontal impact conditions, to a minimum force of 30 G's. All testing must be performed by a testing agency that is independent of the manufacturer.

As proof of this verification process being performed, the bidder must provide the following information (leave blank if this is not a sled test being verified):

Testing Facility Name: CTL Engineering, CAPE  
Date Tested: 4-20-06  
'G' Force Tested To: 30 G's

The bidder must perform and certify to dynamic sled or impact testing run on the ambulance body to a load of 30 G's. The body tested shall include normally installed components for each of the following areas of the vehicle. The body structure and installed components shall not show evidence of structural failure or separation from its mounted position as a result of the test. All test results must be witnessed and verified by a Registered Professional Engineer.

Test Required	Date Tested	Force Applied	Signed By
1. Body to Chassis Mounting	4-20-06	30 G's	GD
2. Access Door Latching	4-20-06	30 G's	GD
3. Oxygen Cylinder Mount (Main)	4-20-06	30 G's	GD
4. Oxygen Cylinder Mount (Portable)	4-20-06	30 G's	GD
5. Attendant Seat Mount	4-20-06	30 G's	GD
6. Attendant Seat Belt	4-20-06	30 G's	GD
7. CPR Seat Belt	4-20-06	30 G's	GD
8. Squad Bench Seat Belt	4-20-06	30 G's	GD
9. Retention of Main Cabinet Wall	4-20-06	30 G's	GD
10. Crash Restraint Wall At Head of Bench	4-20-06	30 G's	GD

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Finally, a manufacturer is desired that has had an ongoing testing program. The testing, as described above, is to have been performed on a body built using the same materials and designs as those currently used by the manufacturer. Furthermore, the testing program must have been conducted on a continuous basis for a period of time not less than ten (10) years. Therefore, the bidder is required to answer the following questions and to initial the response to confirm that the question is understood and answered truthfully.

How many total sled tests has your company performed? 3

What was the date of the last test: 4-20-06

Has this specified body construction method been tested? Yes

Has the testing program been in place for a period of at least ten (10) years? Yes

Note: This requirement is in addition to the current minimum KKK and NFPA 1917 requirements. The KKK or NFPA requirements do not suffice as a substitute for this requirement as they do not address impact crash testing. It should also be noted that neither photographs of vehicles involved in accidents nor written observations of accident damage suffice to fulfill this requirement. This requirement will be fulfilled only when testing verification, signed by an accredited independent engineer, is furnished with the bid. The testing being described takes place in a controlled environment where meaningful data can be collected and used to further the design and safety of the vehicle. Actual accidents present too many variables that hinder the collection of meaningful data. Bidders who submit photographs or written observations, from customers or manufacturers representatives, should note that such information is considered invalid and will not be a factor in the purchase decision.

Does the bidder understand these requirements?  
Yes

If the bidder does not perform sled testing, then the bidder is asked to take exception to this requirement so that the purchaser may evaluate bids on a legitimate basis. Bidders not taking exception shall have all appropriate documentation, as described above, included with the proposal. Bidders who do not take exception, and who do not include all appropriate documentation will be considered non-responsive and will, therefore, be rejected. This also applies to any subsequent sections of this specification that require sled testing where the bid response indicates that no exception has been taken.

Does the bidder understand this requirement? Yes

### **BODY INTEGRITY VERIFICATION:**

In addition to the testing described in the preceding section the bidder must also ensure the integrity of the patient compartment of the vehicle in the event of an accident by performing dynamic testing to demonstrate compliance to International Standard ECE R29 and SAE Standards SAE J2422 and SAE J2420 applied to the rear of the body.



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Testing shall involve a Dynamic Preload side impact on a 20 degree fixture at 13,000 foot lbs, a 22,000 roof load and a rear impact at 32,600 foot lbs. Impact shall be provided by a 13,000 lb platen cart moving at the speeds prescribed to achieve the necessary impact energy. The impact cart shall include DAS, a propulsion system capable of  $\pm 0.25$  mph speed control, remote braking and Ethernet communication in concert with an installed barrier facility.

During the above described testing, two Hybrid III 50th percentile mannequins shall be installed, one in the standard attendant's seat, and one on the squad bench area. Bidder will be required to demonstrate via photos or other evidence as may be approved by this agency that the mannequin restraint systems worked properly and that the mannequins remained in their original positions.

Does the bidder comply with this requirement? Yes

Full documentation, signed by a professional engineer from the testing laboratory shall be provided with the bid proposal.

### **INTERIOR OCCUPANT PROTECTION:**

For the safety of the EMS providers working in the patient area, the vehicle shall be equipped with an interior occupant protection system incorporating an emergency inflatable airbag system at both the attendant and the CPR seat locations. In the event of a vehicle rollover, the bags shall be triggered by an electronic sensor to inflate and protect the occupants against severe head strikes typical of such accidents.

The attendant seat location shall be protected by an inflatable head cushion technology as well as a unique inflatable tubular system to prevent the attendant from impinging into the danger zones of the inhalation area.

The CPR seat location shall be protected by a combination of an inflatable tubular system at the forward side to protect against entry into the inhalation area as well as a system of progressive resistance head protection cushions. The progressive resistance head protection cushions shall incorporate layers of foam of increasing densities. Should a head strike occur, then the increasing density of the cushion as the impact progresses shall lessen the likelihood that the head will reach the cabinet material behind the cushions. It should be noted that standard single density foam cushions will not meet the requirements of this section. The bidder must have performed both actual impact tests as well as computer simulations in order to test the efficacy of this material in reducing head strike intensities to a survivable rate.

All airbag seating locations shall have been tested with a variety of occupant sizes. Those tests shall include Hybrid III fully instrumented test mannequins including 5% child (115 lbs.), 50% female (163 lbs.), and 95% male (195 lbs.). Testing shall have included at least fourteen (14) fully instrumented destructive dynamic roll crashes and an additional six (6) side impact destructive crashes. Roll crash testing shall be performed at 17-19G's while side impacts shall be approximately 27G's.

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The vehicle must have been certified as compliant to standards ECE R29, SAE J2420, and SAE J2422. The bidder must show evidence that their service facility is trained and certified to service or to replace the airbags should the need arise. Such certification shall be attached to the proposal (NO EXCEPTIONS).

Each seating position shall include seat belts as follows:

Attendant seat: Four point seat belt.  
CPR seat: Four point seat belt.  
Ends of bench: Four point seat belt.  
Center of bench: Four point seat belt.

Each seat belt shall have been tested to verify its latching capabilities and performance as well as the extent to which it allows movement by the "spooling effect" within the retractor. Those tests shall verify that this spooling effect allows less than three inches (3") of belt travel before latching.

There shall be a barrier constructed at the head of the squad bench that will provide a 16" high restraint which, when working in conjunction with the above three point belt system will assist in securing the occupant in the event of a rollover collision.

### **LIABILITY:**

The bidder shall defend, indemnify, and save harmless the purchaser and its officials from all claims, demands, payments, suits, actions, recoveries, and judgments of every description, whether or not well founded in law, brought or recovered against it, by reason of any act or omission of said bidder, his agents or employees, in the execution of the contract or in consequence of insufficient protection or for the use of any patented invention by said bidder, and a sum sufficient to cover aforesaid claims may be retained by the purchaser from money due or to become due to the bidder under this contract, until such claims have been discharged or satisfactorily secured.

Each bidder must furnish a Certificate of Insurance showing aggregate total of insurance which shall not be less than twenty-five million dollars (\$25,000,000).

Certificate of Insurance included with proposal? Yes

In addition, the bidder is to assume any risk of loss to the ambulance until the ambulance is delivered to this purchaser.

Does the bidder understand this requirement? Yes

### **DELIVERY PROCESS:**

The vehicle shall be delivered over the road to the purchaser. Delivery shall be stated in number of calendar days after award of contract and receipt of chassis. The purchaser has the right to reject the vehicle if it does not conform to these specifications to the satisfaction of the purchaser.

**PRICE AND TAXES:**

All prices quoted shall be for a definite fixed price unless otherwise specified. Prices shall exclude Federal, State, and other taxes to the extent that this purchaser is exempt. All pricing shall be F.O.B.

F.O.B.: Pembroke Pines, FL

**CONSTRUCTION PHOTOGRAPHS:**

The bidder shall include the following photographs with the completed proposal. Proposals not including these photographs will be considered incomplete and will, therefore, be rejected. These prints shall be submitted for evaluation purposes. This purchaser shall compare the photos of the different bidders and shall be the sole decision maker as to which design best suits the specific needs to be fulfilled. Commentary on the photos is not desirable. Photographs shall be in color and shall be large enough and clear enough to supply ample detail. The photographs shall be provided in the exact numerical order listed below. The photographs to be submitted shall include:

1. Interior upper corner showing gusset and extrusion detail.
2. Interior side wall including horizontal frame member.
3. Roof section showing 2" x 2" structural supports on 12" centers.
4. Detail of vertical side wall substructure to include gussets.
5. Floor superstructure prior to installation of the aluminum sub floor.
6. Interior of rear door less Formica trim
7. Interior of rear door detailing door latch linkage
8. Electrical distribution panel complete and wired.
9. Backside of front console switch panel complete and wired.
10. Interior cabinet modules prior to installation.
11. Light head attachment point detailing threaded nylon hole insert.

**CHASSIS:**

The chassis required for this project is specified in detail below. Failure of the bidder to provide the chassis exactly as specified will be grounds for rejection of the bidder's proposal as being non-responsive. Exceptions will be made only if the bidder can prove that a required feature is unavailable from the chassis O.E.M.

**CHASSIS, 2017 FREIGHTLINER M-2, 174" WHEELBASE:**

The vehicle converter shall supply a 2018 174" wheelbase Freightliner M-2 chassis for the ambulance conversion. This chassis shall have a 108" cab-to-axle dimension. Chassis ordered with OEM air rides will include a Horton installed air tank drain line, running from the tank(s) to the bottom side of the rub rail.

**ENGINE AND RELATED EQUIPMENT:**

- Cummins ISB 6.7 with 250 HP @ 2,400 RPM, 660 ft. lbs. torque @ 1,600 RPM.
- Air cleaner restriction gauge installed in dash.
- 34 gallon fuel tank mounted under curbside cab step well.
- Alliance fuel/water separator with heater.
- Equiflo inboard fuel system.
- 750 watt engine block heater with receptacle.
- Horton HT 650 frontal air on/off engine fan clutch
- Single muffler and tail pipe mounted horizontally on right hand side with aftertreatment device and right hand mounted tail pipe.
- Low pressure oil indicator and high water temperature warning with light and buzzer
- Electronic cruise control
- 950 square inch radiator
- 6 gallon DEF tank
- 2010 EPS Emission Certification

**TRANSMISSION:**

- Allison 3000 EVS 5-speed automatic transmission with park pawl.
- Fire and Emergency programming.
- Transmission oil cooler and temperature gauge.
- Park switch on dash.
- Column-mounted shifter.

**REAR AXLE:**

- Ratio: 4.56:1

**OVERALL WEIGHT RATINGS:**

- GVW: 25,000 lbs.
- Front Axle: 10,000 lbs.
- Rear Axle: 15,000 lbs.
- Front Springs: 10,000 lbs. Taper leaf
- Rear Suspension: 12,000 lbs.-Air suspension with air reservoir, dump control, and 15.5 cfm gear-driven air compressor.
  - Manual dump control switches are to be installed at both the rear doors and in the cab. Automatic dumping will occur when the rear doors are opened. The air dump system will inflate when either the rear doors are closed, or, if the air dump override has been activated, when the vehicle is placed into gear and starting to move.
  - A dash-mounted air gauge shall be installed.
  - Dual rear leveling valves shall be installed.
- Shock Absorbers: Heavy duty front and rear.
- Frame Rails: 50,000 psi high strength steel.
- Air Compressor: 15.2 cfm gear-driven air compressor to include Bendix AD-9 air dryer mounted beneath the cab.

**TIRES AND WHEELS:**

Quantity: Six (6) tires  
Tire Style: Michelin XZE with highway tread  
Tire Size: 245/70R19.5  
Wheels: (4) 19.5" X 6.75" polished aluminum disk wheels (front and outside rear).  
Wheels: (2) 19.5" X 6.75" steel wheels (inside rear)  
Wheel Seals: Chicago Rawhide

**WALK THROUGH:**

The chassis cab shall be modified by the successful bidder to allow for passage between the cab and the patient compartment. The required opening shall be cut out of the back of the cab. A flexible weather-tight Hypalon bellows shall be installed around the perimeter of the opening between the back of the cab and the front of the module body. All of the work required under this section shall be performed by the successful bidder. The work shall not be performed by a third party vendor. This shall guarantee a consistent level of quality and warranty protection while assuring that the work is engineered specifically for use with the module body and other equipment as specified.

SIZE WALK-THROUGH AS WIDE AND HIGH AS POSSIBLE. FABRICATE AND INSTALL CUSTOM WALK-THROUGH DOOR ASSEMBLY.  
MAKE FLOOR BETWEEN BODY AND CHASSIS AS LEVEL AS POSSIBLE.

**BRAKES:**

Brake system: AIR BRAKE PACKAGE  
Parking Brake: 10" x 3" DCM parking brake, air activated  
Brake Control: Push-pull park brake on dash w/safety bar over the push pull.

**INTERIOR APPOINTMENT STANDARDS:**

- M2 interior convenience package
- Air conditioning with integral heater and defroster
- Power windows
- Power door locks
- Grab handles
- Tinted glass
- Driver and passenger seats to be Bostrom Talladega 910 high back air suspension seats with dual armrests. Seats to be vinyl with cloth inserts
- Power steering
- Tilt/telescoping steering
- 19" wrapped steering wheel
- Courtesy lights
- Dual padded sun visors
- Door trim panels with storage pockets
- Cigar style 12V power point
- Cigar lighter and ashtray
- Driver Convenience group
- Molded fabric back panel
- Molded cloth headliner
- Molded instrument panel
- 'A' pillar cover
- Cup holders
- Black rubber floor covering
- A Delco XTA-2300 AM/FM/WB stereo/CD player with two (2) speakers

- installed in cab
- Low washer fluid warning light
- Factory gauges for oil pressure, fuel capacity, water temperature, air pressure, hour meter, and tachometer with converter-added digital display for ammeter and voltmeter
- Low air pressure warning light and buzzer
- Air restriction warning light in dash
- Dash-mounted regeneration switch

**ADDITIONAL APPOINTMENT STANDARDS:**

- Tilting fiberglass hood and fenders
- Frame-mounted front tow hooks
- Chrome plated front bumper
- Dual Grover 25" Stutter Tone hood-mounted air horns
- Dual electric horns
- Manual reset circuit breakers
- Halogen headlamps
- Intermittent windshield wipers
- Required ICC lights
- Parking/Hazard/Turn Signal Lamps
- Exterior grab handles near cab doors
- Deluxe insulation package
- Heated/motorized west coast stainless finished mirrors

**BATTERIES:**

The vehicle shall be equipped with three (3) 760 cca batteries located on a slide-out tray beneath the curb side forward compartment. The total cca rating for this vehicle shall be 2,280 cca.

**ALTERNATOR:**

A 320 amp Leece-Neville alternator shall be installed on the chassis.

**WARRANTY:**

The chassis manufacturer's standard vehicle warranty policies shall apply.

**CHASSIS SPECIAL INSTRUCTION**

LEAVE THE OEM RADIO IN THE DASH LOCATION.  
LOCATE THE OEM HEAT/AC CONTROLS AND THE SIREN IN THE CENTER  
OVERHEAD CONSOLE LOCATION. (SIREN DRIVER SIDE, HEAT/AC ON PASSENGER  
SIDE.

**CHASSIS INTERIOR COLOR:**

The chassis interior shall be O.E.M. gray.

**CHASSIS HARDWARE AND ACCESSORIES:**

The items to follow represent chassis modifications, hardware, and accessories that are required. Failure to provide these features will be cause for rejection of the bidder's proposal as being non-responsive.

**MUD FLAPS, FRONT:**

The vehicle converter shall install mud flaps behind the front wheels. The mud flaps shall attach to the chassis front fenders and shall protect the cab body panels from road debris.

**MUD FLAPS, REAR:**

The vehicle converter shall install individual rubber mud flaps behind each rear wheel. The mud flaps may incorporate the converter's corporate logo provided that the logo is incorporated into the rubber material and not a separate piece.

**DOCK BUMPERS, REAR:**

The rear step end caps shall include two heavy duty rubber dock bumpers installed on the outer face of the diamond plate. These bumpers shall serve to protect the diamond plate from damage due to minor contact.

**REAR STEP/BUMPER REINFORCEMENT:**

The standard rear step shall be reinforced with 2" x 2" steel angle for added impact protection.

**REAR STEP/BUMPER ASSEMBLY:**

The rear of the vehicle shall be equipped with a step/bumper assembly to be fabricated from .125" polished aluminum diamond Treadplate. The assembly shall be spaced out from the rear kick plate a minimum of 1.5". The center section of the assembly shall pivot up and over center on two (2) .5" bolts to stay in the 'up' position. This section shall be a minimum of 9.5" deep and shall be constructed with grip-strut on the stepping surface to provide for better footing. The ends of the assembly shall be fixed diamond tread plate. The distance between the top of the step and the ground shall not be less than 16". The fold-up portion of the step shall be firmly held down with two (2) pin and socket holders to prevent rattling while the vehicle is in motion.

**MIRROR: OEM**

The mirror set shall be OEM supplied, and installed by the chassis manufacturer.

**CHROME TURNOUT FOR VERTICAL EXHAUST:**

A chrome turnout shall be installed on the vertical exhaust of the chassis.

**DIAMOND PLATE STEP WELL COVERS:**

Diamond plate step well covers shall be installed on both the curb side and street side cab step wells. The covers shall be made of .125" thick polished diamond tread plate with a minimum 3003-H14 alloy.

RELOCATE BATTERIES TO THE LOWER CRASH BARRIER COMPARTMENT.

LOWER STEP ON STREETSIDE TANK COVER TO BE 9" DEEP TO MATCH PREVIOUS BUILD. LOWER CURBSIDE STEP TO BE STANDARD DEPTH.

**SUSPENSION OVERRIDE SWITCH:**

A manual air dump override switch shall be installed as noted below. This switch shall override the dump activated by opening of the left rear patient compartment entry door.

SWITCH LOCATE: CURBSIDE REAR ENTRY DOOR PANEL

**REVERSE ALARM:**

An audible alarm shall be installed to activate when the vehicle is placed into reverse gear. There shall be, installed on the front console and wired through the vehicle electrical system, a momentary cutoff switch to disable the alarm. This switch shall automatically reset each time the vehicle is placed into reverse gear.

**CAMERA SYSTEM:**

A camera system shall be installed as noted below and wired for use with the front electrical system control screen. A separate monitor will not suffice to fulfill this requirement.

Quantity: 1

Locate: REVERSE CAMERA

**AM/FM/CD PLAYER:**

The OEM AM/FM/CD player shall be installed in the cab and wired to the OEM cab speakers. This unit shall also be capable of being wired to patient area speakers should they be required within this specification.

**CONVERSION:**

The following section describes the required body design, manufacturing process, and materials. Adherence to this section is of extreme importance to this purchaser due to space requirements and safety concerns. The bidder must meet this section as closely as possible without utilizing experimental or prototype designs in order to be considered for bid award.

**MINIMUM BODY DIMENSIONS:**

The completed vehicle shall have the following minimum dimensions:

(Exterior)

-Height: 95"  
-Width: 96.25"  
-Length: 173"

(Interior)

-Height: 76"  
-Aisle 48"  
-Length: 169"

OVERALL DIMENSIONS (Including Chassis, Module and Step):

-Height: 110"  
-Width: 100"  
-Length: 295"



**MODULAR BODY STRUCTURAL DESIGN REQUIREMENTS:**

The module body shall be designed and fabricated with the following key elements in mind:

1. The greatest possible load carrying capacity is desired.
2. The safety of all vehicle occupants is of paramount concern.
3. The body design, including construction materials and fabrication techniques shall be proven to be durable.
4. The body shall be easily retrofitted to a new chassis should that need ever arise.

With these concerns in mind the following requirements have been established for the purposes of this specification:

The vehicle converter shall design and construct its own module bodies, and maintain an engineering staff at its manufacturing facility to handle any custom body changes that may be necessitated by this design. It is the intent of this purchaser to receive a finished product of the highest standards of quality available. Vehicle manufacturers who design and build their own bodies and who have the expertise of an engineering staff will possess a greater capacity as far as handling a custom project of this type than manufacturers who purchase their bodies from an outside vendor. Accountability and quality of the design and construction of the body are enhanced when the vehicle converter manufactures the body.

**GENERAL BODY DESCRIPTION:**

The construction process described within this specification will ensure that the body shall remain structurally intact. However, to achieve this level of quality and durability, the module body, including all doors, must be constructed correctly initially. This specification requires that the module body, including all doors, be built within a tolerance of one five-thousandths of one inch. To achieve this the vehicle manufacturer must use, as standard practice, precision computerized equipment such as found in Strippet machines and microprocessor controlled milling machines and chop saws. Use of precision equipment will ensure that all door openings, door handles and latches, body windows, and warning light assembly installation locations are of the correct size and square to the body. Cutting done by hand, such as with a jigsaw, is not desired unless it involves the chassis, or unless a warning light assembly must be located in such a way that it depends on the layout of the finished vehicle. (E.g. when a light must be centered within a paint stripe since the exact stripe location will not be determined until the module is built and mounted.) In addition, utilization of computerized equipment will simplify the production of replacement body panels in the event of an accident since the computer can duplicate a given part exactly. This includes documentation of all body light locations.

**PAYLOAD REQUIREMENTS:**

The vehicle payload shall meet or exceed that called for in the current KKK-A-1822 specification or NFPA 1917 standard. The vehicle manufacturer shall, upon notice by this purchaser, provide a written statement from an independent engineer that the model being offered has met this set of criteria. Before delivery of the completed unit the manufacturer shall weigh the vehicle. A written statement of those weights shall be affixed to the inside of the street side front #1 compartment door. This purchaser reserves the right to have the finished vehicle weighed independently upon delivery. If it is found that the written statement of weight provided by the manufacturer is inaccurate beyond what may be reasonably explained as a slight difference in the calibration of the scales, then the vehicle will be rejected. It should be noted that this purchaser, while interested in attaining the greatest possible payload, is unwilling to compromise on the structural requirements of a strong, durable, and safe body. All bidders must understand these factors supercede concern over payload, and that the lightest body (greatest payload) will not necessarily be deemed sufficient to meet the stringent quality and safety requirements set forth herein.

**MODULE BODY CONSTRUCTION AND WARRANTY:**

The module body shall be constructed per the following detailed specifications. Generally speaking the body shall be of all-aluminum construction. Aluminum is shown to reduce weight over several other materials. It also possesses anti-corrosion properties that are essential for a vehicle of this type. The exact aluminum material requirements are explained in further detail below. The choice of materials and the design shall allow the manufacturer to warrant the materials and workmanship of the module body for a period of thirty (30) years as set forth in the warranty section of this specification. The manufacturers structural warranty shall specifically cover:

- The continued and correct alignment of both compartment and access doors.
- Seam or joint separation in door construction.
- Aluminum interior cabinetry.

The warranty shall be fully transferable to a new owner should the vehicle ever be sold. In addition, should the manufacturer bidding this proposal re-chassis the vehicle within the period of the initial structural warranty, then an additional 5 years shall be added to the remaining amount of warranty coverage left at the time of re-chassis. This warranty shall be revalidated in five-year increments each time the body is mounted to a new chassis provided that the warranty has not expired, that this purchaser authorizes any necessary repairs, and provided that the original

**CORNER POST SUPPORTS:**

The body structure must be able to support the loaded weight of the vehicle in the unlikely event of a rollover. A structure is required that will enhance the safety of both patients and attendants in the event of an accidental collision. The foundation of a solidly built module body is the utilization of strong corner posts in both the sidewalls and the roof. A one-piece 90-degree radius post is required. The posts shall include a full length W shaped extrusion that forms a fully encased web inside the post for strength. This reinforcing member shall angle inward just before it joins the radius to form a small slot where the edges of the aluminum skin will be inserted prior to the final welding. Because the structural integrity of a body is derived from the corner posts, subfloor, and framework, corner posts that are a part of the exterior body skin (e.g. rolled corner posts) will not be considered, nor will corner posts which do not have an integral center reinforcement as part of the extrusion.

**CORNER POST STRENGTH:**

The corner post extrusions shall possess a minimum ultimate tensile strength of 27,000 psi (6063-T5).

**ROOF EXTRUSIONS:**

The horizontal roof extrusions shall conform to the same construction description as the vertical wall extrusions. They will, however, include an extruded drip rail as a part of the one-piece posts. Because the drip rail is a part of the post itself there will be no seams between the rail and the body above the rail. In addition there shall be drip rails installed above all body doors that are not full height. These rails shall attach via a durable adhesive.

**WALL AND ROOF SKIN SUPPORTS:**

The exterior wall and roof skins shall be supported on the inside by 2" square tubing with .125" wall. These structural supports shall be strategically located at the load bearing points of the module body. The roof structural support beams shall be spaced on minimum 12" centers for adequate load support. Wall tubing of .125" thickness or less will not be acceptable.

**HORIZONTAL WALL SUPPORT:**

In addition to the vertical wall supports there shall be a horizontal beam, located in the beltline area, to provide additional protection in the event of a side body collision.

**GUSSET ENHANCEMENT:**

Gusset supports, made from 2" square tubing, shall be installed throughout the vehicle for added strength. Each gusset shall be a minimum of 5" long at its longest point. A minimum of twenty-four (24) of these gussets shall be welded into the vehicle support structure. Areas of installation shall include but not be limited to: all door openings, all body corners, and above all wheel wells. Designs that utilize no gussets, or gussets of lesser material size or strength, are not acceptable.

**EXTERIOR BODY PANELS:**

The materials selected for the body skin have been chosen because of this vehicles expected heavy-duty cycle and the good wear characteristics that this material has shown in the field. The material shall be a minimum 5052-H34 alloy with an ultimate tensile strength of 38,000 psi. This material has been chosen because it is less prone to fail due to stress than other weaker materials such as 5052-H32 alloy.

**EXTERIOR BODY PANELS (PART 2):**

The thickness required for exterior body panels is:

- Side, front, and rear walls: .125"
- Ceiling and floor panels: .090"

Note: The roof shall be constructed with a single sheet of 5052-H34 .090" thick aluminum. This one-piece construction is preferred over a multiple piece design. The roof shall incorporate a 3/8" crown designed to allow water to drain.

**FLOOR CONSTRUCTION:**

Floors that are uneven or are incapable of adequately supporting the load being carried on the vehicle are unacceptable. For that reason thin floor panels and/or a lack of floor supports are not desirable. To prevent buckling, sagging, oil canning or any other structural breakdown of the flooring system a detailed description of the required construction process is provided.

The body subfloor shall be constructed of .090" 5052-H34 aluminum. The floor, from the front to the rear and from curbside to street side shall be supported by a minimum 2" x 3" tubular beams with a .25" wall. The floor just behind the axle shall be supported by a minimum 1.5" x 3" tubular beam with a .25" wall. All beams shall be strategically located at the load bearing points of the floor and welded into place. The interior of this vehicle shall contain no wood or wood products of any kind. The subfloor, above the aluminum sheet shall be specially constructed to provide both acoustic and thermal protection for the patient interior. It shall consist of the .090" aluminum with tubular understructure as noted above. The underside of this area is to be sprayed with a sound reduction coating. In addition, a .125" damping pad, a .125" sound barrier sheet, and a .625" aluminum composite floor panel shall be installed prior to installation of the vinyl floor covering. The purchaser reserves the right to inspect the process proposed by the bidder and to make determinations regarding the acceptability of that process. The resultant subfloor shall have no organic, wood, or wood products and shall be guaranteed against rotting or water absorption for a minimum of fifteen years. It shall not support or attract mold or fungus.

**SKIN TO SUPPORT ATTACHMENT:**

All exterior aluminum body panels shall be attached to the underlying structural supports via high performance polyurethane two sided tape. The tape shall have a polyurethane foam core for environmental resistance and an acrylic adhesive for a durable bond. The tape will be used as an insulating agent to hold the panels tightly against the structural supports, thus eliminating vibration and oil-canning. In addition to the tape attachment system, all panels shall be welded to structural members at the perimeters only. Welding in the center of the panels is not desired as the process will cause heat distortion of the body panels and lessen the overall quality of the finished appearance. Use of the tape, as described here, will eliminate heat distortion without damaging the structural integrity of the module body.

**SKIN TO SUPPORT ATTACHMENT (PART 2):**

Each body panel shall be welded to all horizontal frame members, including the roof extrusions. In addition, the panels shall be welded to the vertical corner posts. In the case of the roof, the perimeter of the one-piece roof sheet shall be stitch welded. This method of attachment shall provide a total welding application to the entire perimeter of the body skin and a taped/insulating application to the interior surfaces of all walls. Methods of panel attachment that utilize rivets will not be acceptable.

**STRUCTURAL INTEGRITY VERIFICATION:**

Structural integrity, as stated elsewhere in this specification, is of extreme importance to this purchaser. As such, it is required that the manufacturer maintain a program of simulated crash tests. The manufacturers Hygee sled testing program must be current and have been maintained on a continuous basis for a period of time not less than ten years. In addition, the sled testing shall have subjected a body, built to the above-written specifications, to a minimum of 30 G's in both side and frontal impact conditions. Neither photographs of vehicles that have been involved in accidents, nor statements or observations relevant to an accident, be it from a customer or a manufacturers representative, shall suffice as a substitute for this requirement. The sled testing must take place in a controlled environment whereupon meaningful engineering data can be gathered and applied to the structural design of the module body. Accidents that take place outside of this controlled environment do not yield any meaningful data. Therefore, real world accidents are considered anecdotal and cannot realistically be used by the manufacturer to judge the safety of a design.

**MODULAR DOOR DESIGN:**

Door panel separation, dirt accumulation at seams, paint imperfections, misalignment, and even malfunctions whereupon the door cannot be operated have been observed in many styles of door construction. These problems, along with the expected rugged use of the vehicle doors, shall be eliminated with a good overall design and construction process. With these thoughts in mind the modular doors shall be constructed as follows:

**OUTER DOOR SKIN:**

The door facing and edges shall be formed from a single sheet of aluminum. The aluminum used for the doors shall not be less than 5052-H34 alloy with an ultimate tensile strength of 38,000 psi. The material shall be .125" thick. All module doors shall be flush fit to the body side. The door panels must be welded at the corners.

**INNER DOOR REINFORCEMENT:**

Each door shall include an internal extrusion for added reinforcement. The extrusions shall extend around the entire perimeter of the door. Additional reinforcement shall be installed through the center of the door and around each window where applicable. In addition to the extrusions reinforcing each outer door pan, the extrusions themselves shall be reinforced through a dual joining method. First, each mitered corner, where the frame corners join, shall be fitted with a one-way solid aluminum insertable key. This key shall prevent the corner from pulling apart, and shall act as a solid aluminum internal gusset. Secondly, each corner where the frame joins shall be welded to further prevent any separation. The end result will be a rigid door that will not bend or flex and that will eliminate the other commonly seen structural defects described above.

**INNER DOOR PAN:**

An inner door pan shall fit flush with the inner edges of the door. Inner door pans that do not fit flush will have sharp or ragged edges exposed and will not be acceptable. The panels must be attached to the door structure with machine screws and "T" style Nutserts to prevent spinning stripping. Sheet metal screws or rivets will not be accepted. Lastly, a closed cell cross-linked polyolefin foam tape shall be used beneath the inner door panels to isolate the panels from the door frames. This process will prevent door rattling.

**DOOR SEAL:**

All module doors shall incorporate an extruded rubber seal located around the perimeter of the door. The seal shall insert into a groove in the inner door extrusion. Seals that are installed around compartment openings will be easily torn by the movement of equipment across them. In addition, glue will not be permitted except in the case of a double door compartment. The requested design does not include a groove on the underlying door edge of a double door compartment. That edge alone will require an adhesive. Glue for all seals is not desirable because of increased replacement time and insufficient durability.

**DOOR JAMB:**

All doorjamb must be separate from the body skin and must be welded to the 2" x 2" tubular body frame members so as to ensure continued door alignment and proper latching. The compartment frame shall be designed in such a manner as to provide extra protection around the compartment openings. The reinforcement tube shall be at least 1" wide. For added strength, the frame shall be at least .188" thick where screws are attached.

Prior to door installation the doors shall be true fit to the doorjamb. The fitting, prior to installation, shall provide added assurance that the door aligns properly with the doorjamb.

### **HINGING:**

All doors shall have full-length stainless steel hinges. The hinges shall be .070" thick and shall incorporate a .25" diameter pin.

All hinges shall have un-slotted mounting holes for an exact and permanent installation. Hinges that utilize slotted mounting holes are unacceptable because of the continued adjustments that they require.

There shall be an anti corrosive material installed along the length of the hinge where the hinge meets the door frame to separate the stainless hinge from the aluminum body. This material shall be transparent so as not to be visible at any point while the door is being used.

### **HOLD-OPEN DEVICES:**

The following door hold-open devices shall be installed:

- Compartment doors: Gas filled, 100-degree extension actuator
- Side access door: Gas filled, 110-degree extension actuator
- Rear doors: Cast Products grabber style devices

Spring-loaded devices are not desired because of their weaker holding capabilities and a lack of smooth door operation.

### **PATIENT AREA DOOR OPENINGS:**

#### **REAR DOORS:**

Two (2) doors shall be provided at the rear of the module body. The overall opening of the access to be a minimum of 54.3" in height x 46.75" in width. Both inside and outside door handles shall be installed on each rear door. Left rear doors that can only be activated from the inside are not acceptable. These doors are to incorporate emergency release levers as described above.

#### **SIDE DOOR:**

One (1) side door shall be provided on the curb side of the module body. The opening shall have minimum overall dimensions of 71.1" in height x 30" in width.

### **INSULATION**

The patient area, including the doors, shall be insulated with 2" Technicon polyfiber for both thermal and acoustic insulation. The headliner area of the vehicle shall also include a barrier insulation of Reflectix material for increased protection.

**STREETSIDE FRONT COMPARTMENT (#1):**

The compartment described above shall feature the following minimum dimensions:

Clear Door Opening:	18.73" wide x 51.66" high
Actual Dimension:	21.4" wide x 54.63" high x 21.9" deep

This compartment shall be accessed through a single hinged door meeting the standards for door construction, hinging, and latching outlined within this specification. The compartment shall house the vehicle's primary O2 cylinder and shall be vented to the outside in such a way as to prevent moisture from entering the compartment. Under no circumstances shall vents be installed within the compartment door. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The material used shall be .125" polished aluminum diamond plate that is continuously welded at all seams. The compartment shall include two strips of LED lights, one to either side of the compartment door, to provide lighting inside the compartment.

**DIVIDER FIXED, VERTICAL COMPARTMENT**

A 16" vertical divider shall be installed as noted below. The divider shall be non-adjustable and shall be fabricated from the same material used in the construction of the compartment in which it is to be installed.

LOCATE: 11.5" FROM RIGHT COMPARTMENT WALL.

**STREETSIDE INTERMEDIATE COMPARTMENT (#2):**

The compartment described above shall feature the following minimum dimensions:

Clear Door Opening:	51.80" wide x 47.87" high
Actual Dimension:	55.4" wide x 51.0" high x 21.9" deep

This compartment shall be accessed through double hinged doors meeting the standards for door construction, hinging, and latching outlined within this specification. A portion of this compartment shall house the vehicle's required onboard electrical components as specified for use on this vehicle. The remainder of the compartment shall be utilized for storage of miscellaneous items as required by this purchaser. This compartment shall be vented to the outside in such a way as to prevent moisture from entering the compartment. Under no circumstances shall vents be installed within the compartment door unless they are required for airflow to equipment installed within this compartment. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The material used shall be .125" polished aluminum diamond plate that is continuously welded at all seams. The compartment shall include two strips of LED lights, one to either side of the compartment door, to provide lighting inside the compartment.

INSTALL ALL ADD-ON ELECTRICAL COMPONENTS IN THE UPPER STREETSIDE FORWARD ELECTRICAL COMPARTMENT.  
LOCATE THE P/D BOX ON THE LEFT COMPARTMENT WALL.



**SHELVING FOR DOUBLE-DOOR EXTERIOR COMPARTMENT:**

A shelf shall be installed in the location(s) noted below. All shelving is to be fabricated from 3003-H14 aluminum diamond plate. This material shall be .125" thick. All shelving is to include a 2" integral lip to prevent equipment from sliding off of the shelf. The compartment light shall meet the lighting criteria as described elsewhere within this specification.

LOCATE:     CENTERED.

REDUCE SHELF DEPTH FOR TOOL BOARD CLEARANCE.

**SPECIAL INSTRUCTION, COMPARTMENT:**

INCREASE THE STANDARD COMPARTMENT HEIGHT 2" TO ACCOMMODATE THE NEW CPR SEAT HIP CUSHION HEIGHT REQUIREMENT

**TOOL MOUNTING PLATE:**

Install an aluminum plate as noted below. The plate shall be .250" thickness and is to have a D/A finish. The plate is to be fastened to the wall of the specified area using aluminum 'C' channels that are welded into place.

SIZE:     FULL WIDTH AND FULL HEIGHT AS DETERMINED BY ENGINEERING.

LOCATION:   BACK COMPARTMENT WALL - NOTCH FOR SHACKLE BOX

**ADDITIONAL ALUMINUM "C" CHANNEL:**

Install aluminum 'C' channel as noted below. The channel shall be welded into place and is in addition to channel already present in the specified area for shelving and/or any other required equipment. Priced per c-channel. Standard tool boards require two c-channels.

LOCATION:   FOR TOOL BOARD

**STREETSIDE REAR COMPARTMENT (#4):**

The compartment described above shall feature the following minimum dimensions:

Clear Door Opening:	32" wide x 66.8" high
Actual Dimension:	37.4" wide x 70" high x 22" deep

This compartment shall be accessed through double hinged doors meeting the standards for door construction, hinging, and latching outlined within this specification. This compartment shall be utilized for storage of miscellaneous items as required by this purchaser. This compartment shall be vented to the outside in such a way as to prevent moisture from entering the compartment. Under no circumstances shall vents be installed within the compartment door. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The material used shall be .125" polished aluminum diamond plate that is continuously welded at all seams. The compartment shall include two strips of LED lights, one to either side of the compartment door, to provide lighting inside the compartment.

**SHELVING FOR VERTICAL EXTERIOR COMPARTMENT:**

A shelf shall be installed in the location(s) noted below. All shelving is to be fabricated from 3003-H14 aluminum diamond plate. This material is to be .125" thick. All shelving is to include a 2" integral lip to prevent equipment from sliding off of the shelf. The compartment light shall meet the lighting criteria as described elsewhere within this specification.

QUANTITY: 2

LOCATE: FOR INSIDE/OUTSIDE ACCESS. LOCATE LOWER SHELF TO ALLOW THE BOTTOM OF THE I/O TO START 24" ABOVE THE MODULE FLOOR. SPACE REMAINING SHELF EVENLY ABOVE.

**CURBSIDE REAR COMPARTMENT (#5):**

The compartment described above shall feature the following minimum dimensions:

Clear Door Opening:	25" wide x 87.6" high
Actual Dimension:	29.6" wide x 90.6" high x 21.9" deep

This compartment shall be accessed through a single hinged door meeting the standards for door construction, hinging, and latching outlined within this specification. This compartment shall be utilized for storage of miscellaneous items as required by this purchaser. This compartment shall be vented to the outside in such a way as to prevent moisture from entering the compartment. Under no circumstances shall vents be installed within the compartment door. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The material used shall be .125" aluminum that is continuously welded at all seams. The compartment shall include two strips of LED lights, one to either side of the compartment door, to provide lighting inside the compartment.

**SHELVING FOR VERTICAL EXTERIOR COMPARTMENT:**

A shelf shall be installed in the location(s) noted below. All shelving is to be fabricated from 3003-H14 aluminum diamond plate. This material is to be .125" thick. All shelving is to include a 2" integral lip to prevent equipment from sliding off of the shelf. The compartment light shall meet the lighting criteria as described elsewhere within this specification.

Quantity: 2

LOCATE: RIGHT SIDE OF DIVIDER. INSTALL THE BOTTOM OF THE LOWER SHELF 40" ABOVE THE COMPARTMENT FLOOR. SPACE REMAINING SHELF EVENLY ABOVE.

**DIVIDER FIXED, VERTICAL COMPARTMENT**

A 16" vertical divider shall be installed as noted below. The divider shall be non-adjustable and shall be fabricated from the same material used in the construction of the compartment in which it is to be installed.

Quantity: 1

LOCATE: 15" FROM LEFT COMPARTMENT WALL.

**ROK BACKBOARD STRAP:**

A ROK buckle type backboard strap shall be installed as noted below:

LOCATE: ON LEFT SIDE OF DIVIDER.

**CRASH BARRIER SAFETY CONFIGURATION:**

In order to provide a fully welded stable crash barrier at the head of the squad bench, the vehicle shall be built with the side access door located at the forward most part of the curbside of the vehicle. The cabinet normally located in that position shall be relocated to the head of the squad bench.

NOTE: REQUIRES 75" SQUAD BENCH LENGTH

INSTALL (2) DIAMOND PLATE COMPARTMENTS, ONE ABOVE THE OTHER, THAT TOTAL 24"W X 58.75"H (OVER ALL HEIGHT)

TOP COMPARTMENT TO INCLUDE (1) ADJUSTABLE SHELF.

INCLUDE A CARGO NET ON THE AISLE SIDE I/O.

MAXIMIZE INTERIOR OPENING OF I/O. REDUCE FLANGE SIZE AS NEEDED.

INSTALL 90 DEGREE TRIM ON THE INBOARD COMPARTMENT CORNERS

THE LOWER COMPARTMENT IS TO HOUSE THE VEHICLE BATTERIES ON A SLIDE-OUT TRAY - NOTE DRAIN LINE CLOSE-OUT

INCLUDE A SOLID SURFACE COUNTER ON TOP OF CRASH BARRIER

**SPECIAL BODY REQUIREMENTS:**

The requirements set forth in the following section of this specification represent items and features that may not be offered as standard by the bidder. If the bidder is unable to furnish any items listed in this section, then that inability must be listed and explained in the bidder's list of exceptions. Failure to do so will result in rejection of the bidder's proposal as being non-responsive.

**INTERIOR HEADROOM:**

The interior headroom of the finished vehicle shall be: 76.00"

**6" DROP SKIRT DESIGN:**

The curbside skirt, forward of the rear wheel well shall be dropped six (6) inches. Two integral aluminum diamond plate steps shall be installed within the side access door step well for improved accessibility to the patient compartment. Under no circumstances shall this be accomplished by bolting an additional step to the step well. The design must be such that all steps are integral. The use of bolts, rivets, or any other type of fastener is prohibited.

**STREETSIDE OF BODY LOWERED 6":**

The street side body skirt, forward of the rear wheel well, shall be dropped six (6) inches. The extra room is to be provided inside the compartments in this area.

**SOUNDPROOFING:**

To insure good working conditions and to create a stable patient environment, the vehicle shall be manufactured with particular attention paid to sound control. The following process must be performed throughout the manufacturing cycle of the vehicle:

1. Underbody shall be completely sprayed with sprayable, non-flammable latex sound control coating
2. Body Interior walls, roofs and interior compartment walls shall be sprayed with sprayable non-flammable latex sound control coating
3. The interiors of all access doors shall be sprayed with sprayable non-flammable latex coating
4. The backs of all interior cabinets shall be wrapped in antiphon damping material
5. Door interiors are to be lined with polydamp intefoam extensional damping pad
6. The body structural tubes shall filled with non-resonating dampening material
7. Side stepwell areas are to be backed with PT Damping Pad
8. All walls shall be insulated with 2" Technicon polyfiber acoustic insulation. Headliners shall be double insulated with 2" Technicon Polyfiber and a Reflectix barrier.
9. A .125" damping pad, a .125" sound barrier sheet, and a .625" composite floor panel sandwiched between aluminum sheets shall be installed prior to installation of the vinyl floor covering.
10. A chassis tuned VI-Tech mounting system shall be used to provide

**ELECTRICAL COMPARTMENT:**

A single door compartment, meeting all criteria for exterior compartments as described elsewhere within this specification, shall be installed above the streetside forward compartment. This compartment shall include a Cast Products vent in the door. This compartment is to house all converter-added electrical equipment such as vacuum pump, battery charger/inverter, etc.

LOCATE: STREETSIDE FORWARD BELOW THE DUCTED HEAT/AC SYSTEM.  
COMPARTMENT TO BE 18" HIGH ILOS 21" HIGH.

**SPECIAL INSTRUCTION, BODY MODIFICATIONS**

FABRICATE A FLAT ALUMINUM D-BOTTLE STORAGE BOX SIZED TO FIT (4) BOTTLES SIDE-BY-SIDE. APPLY LIGHT GRAY SCORPION COATING.

SHIP LOOSE.

**SPECIAL INSTRUCTION, BODY MODIFICATIONS**

INSTALL A 3" BODY DROP BEHIND THE STREETSIDE AND THE CURBSIDE REAR WHEELS.

**SPECIAL INSTRUCTION, BODY MODIFICATIONS**

INSTALL A WATERTIGHT COMPARTMENT THROUGH THE REAR RISER, BELOW THE REAR ENTRY DOORS. (MAXIMIZE HEIGHT AND WIDTH)

INSTALL A SLIDE OUT TRAY USING HEAVY DUTY SIDE-MOUNT SLIDES TO MAXIMIZE STORAGE HEIGHT. INSTALL 4" HIGH LIPS ON ALL FOUR SIDES.

TIP DOWN DOOR.

**MODULE BODY HARDWARE:**

The following section lists hardware items that are to be installed on the vehicle body.

**WINDOWS, MODULE BODY ENTRY DOORS:**

The rear module body access doors shall include windows. The two rear doors shall feature fixed windows. Each of these windows shall measure 16.5"h x 17"w and shall be glazed and tinted in accordance with FMVSS. The windows shall have dark privacy glass. The windows shall meet FMVSS glazing standards. No films are to be used. The windows shall be encased in extruded aluminum frames. Under no circumstances will RV style windows, windows that rely on rubber gaskets, windows that do not feature extruded aluminum frames, or windows that do not meet the above stated minimum dimensions be acceptable.

**WINDOW, SLIDING FOR SIDE ENTRY DOOR**

The side entry door shall have a sliding privacy window. The window shall measure 16.5"h x 17"w and shall be glazed and tinted in accordance with FMVSS. The window shall have dark privacy glass. The window shall meet FMVSS glazing standards. No films are to be used. The windows shall be encased in extruded aluminum frames. Under no circumstances will RV style windows, windows that rely on rubber gaskets, windows that do not feature extruded aluminum frames, or windows that do not meet the above stated minimum dimensions be acceptable.

**Body mounts:**

This purchaser requires a mounting system that provides a stable and durable attachment of the module body to the chassis frame. To accomplish this requirement the following body attachment method shall be used:

A minimum of (4) four Mounting platforms shall be attached along the outside of each chassis frame rail for a total of (8) eight. Each platform shall consist of (1) top plate of .375" thick steel and (2) side reinforcement plates made of .25" steel. There shall be a .375" full backing plate where the mount attaches to the frame rail. The plates shall be welded along all seams with a heavy continuous weld. The body substructure shall include a 1" by 3" solid aluminum tie down bar welded to each sub structure cross member. To complete the body to chassis attachment, a tuned mounting system shall be used. The elastomer mount shall be custom-tuned to the specific chassis type for vibration reduction, structure borne noise attenuation and to provide low profile, low frequency isolation necessary for ideal patient compartment conditions. Standard chassis furnished mounting donuts will not meet the requirements of this specification. The mount shall be attached to each platform by (2) .625" Grade 8 bolts with washers and locking nuts. The platform shall be attached to the chassis frame rail with a minimum of (3) .625" diameter Grade 8 bolts with washers and locking nuts. The fail safe elastomer isolation mount shall then attach to the aluminum body tie down bar with a .75" diameter Grade 8 bolt, a washer, and a locking nut.

The mounting system must have been subjected to a documented Hygee dynamic frontal impact test of at least 30 G's to verify the integrity of the mounting system in the event of a serious accident. No exceptions to this requirement are permissible.

**EMERGENCY RELEASE PROVISION, REAR DOORS:**

The manufacturer shall install emergency release latches at the top and bottom of the interior of the rear entry doors. These will allow egress in the event of a door latch failure. The release knobs are to activate the rotary at the top and bottom of each door.

**DOOR HANDLES:**

The vehicle is to include Tri-Mark free floating door handles. The handles shall include a chrome finish and are to activate the door latches through the use of pre-stretched stainless steel cables. Latches using cables made of any other material or that are not pre-stretched are not acceptable. The interior door panels are to be three piece with a removeable center section allowing access to the latch mechanism for lubrication and maintenance.

**SPLASH SHIELDS:**

Stainless steel splash shields are to be installed on the lower front face of the module body just aft of the cab access doors. These shields are to have a #8 mirror finish and shall match the height of the diamond plate corners guards that are to wrap around the lower corner posts on the side of the body.

**RUBBER FENDERS:**

Extruded rubber fender flares shall be installed above each wheel well opening. The mounting of these flares shall provide for no contact between the fender fasteners and the aluminum body skin. This is done to eliminate any contact between dissimilar metals and the electrolysis that may result.

**RUB RAILS:**

Polished stainless lower body rub rails shall be installed on each side of the module body. Each rail shall be securely installed yet simple to remove and replace in the event of damage. Each rail is to be a three piece assembly to include a channel style rub rail and two removable end caps. These rails are to have a #8 mirror finish. Rubber rub rails are not acceptable to this purchaser.

**REAR ACCESS DOOR HOLD-OPEN DEVICES:**

Cast Products "Grabber" style rear door hold-open devices shall be installed to maintain the rear access doors in the 'open' position. One loop shall be installed on each door, and the appropriate socket shall be installed on the body. These devices are to be chrome finish in lieu of Cast Products' standard finish.

**ELECTRIC LOCKS, COMPARTMENT DOORS:**

Power activated door locks shall be installed on all exterior compartment doors. Locks shall be activated by switches located at each patient area access door and in the front radio console. Each lock may be individually overridden by the use of a key. A separate lock switch will be located in the front radio console if option DL48D000 (wired to OEM locks) is not selected.

**ELECTRIC LOCKS, ACCESS DOORS:**

Power activated door locks shall be installed on patient area access doors. Locks shall be activated by switches located at each patient area access door. Locks may be overridden by a manual slide lever or by the door key. A separate lock switch will be located in the front radio console if option DL48D000 (wired to OEM locks) is not selected.

**CONCEALED DOOR LOCK SWITCH:**

A concealed weatherproof switch shall be installed as indicated below to operate the power door locks specified above. The switch shall be wired to unlock only.

LOCATE: STD LOCATION UNDER STREETSIDE HEADLIGHT IN CHASSIS GRILLE.

**DOOR LOCKS WIRED THROUGH OEM SWITCHES:**

The power door locks specified above are to be wired to the O.E.M. chassis door lock switches.

**RECESSED LICENSE PLATE BRACKET:**

A Cast Products recessed license plate bracket shall be installed as noted below. The bracket will include lighting in the top to illuminate the license plate.

LOCATE: IN STREETSIDE REAR OF BODY - ABOVE TURN SIGNAL

**REFLECTORS ON ENTRY DOORS:**

Red reflectors shall be installed on the inside on the patient area doors.

**DOOR REFLECTION:**

Red Scotchlite strips, 2" x 12", shall be installed horizontally across the top of each entry door. This material is in addition to the reflectors listed above.

**RUBBER MATTING IN EXTERIOR COMPARTMENTS:**

Black rubber matting material shall be cut to size and installed on the bottoms of all exterior compartments and shelves. The material shall feature integral ridges to help equipment to stay in place.

**RUBBER-COVERED WALLS IN BACKBOARD COMPARTMENT:**

The walls of the backboard compartment shall be covered with self-adhesive textured rubber matting to protect the walls and the equipment stored in this area from any damage.

Color: Gray

**SPECIAL INSTRUCTION, MODULE BODY HARDWARE:**

FABRICATE AND INSTALL A STORAGE POCKET IN THE SIDE ENTRY DOOR. POCKET TO BE DIAMOND PLATE AND AND TO BE DIVIDED INTO (4) EQUAL SECTIONS.

POCKET DEPTH TO BE: 6"

RECESS POCKET INTO SIDE ENTRY PANEL

**PAINT AND STRIPING:**

A paint process is required that provides the highest possible gloss as well as superior color and luster retention characteristics. In addition, the paint process must provide a high resistance to chemical sprays, salt sprays, humidity, and temperature changes. Lastly, this process, given the expected life of the vehicle and its heavy-duty cycle, must resist chipping. The final paint application shall be free of material application imperfections such as orange peel, streaking, or a dull finish. Once painted, the vehicle shall be inspected under a black light to bring any small imperfections, not seen with the naked eye, to attention. Any such imperfections shall be repaired prior to the conclusion of the paint inspection process. The final application shall provide a high gloss finish.



**PREPARATION:**

To produce an acceptable paint finish, the following paint process must be used:

All body doors and hardware must be removed prior to any wash, prime, or final paint application. All material impurities and oils must be removed from the bare aluminum body. The entire module body, excluding the underside, will have all visible welds ground down and all material imperfections filled. The entire body, including the compartment doors, must be finished with a DA. It is also required that all door jamb areas be sanded to insure that no areas are missed with the DA process mentioned above. All holes (e.g. for hinge mounting, etc.) shall be plugged at this stage to prevent any cleaning agents from entering the module body framework. The body shall be prepared for paint by spraying with a high strength detergent followed by a water rinse. Next the body and compartment doors are to be sprayed with a phosphoric acid-based cleaner to remove dirt and oil and to etch the body for superior paint adhesion. The application of the acid-based cleaner shall be followed with a water rinse. Next, a conversion coating shall be applied to the body to enhance paint adhesion and to prevent corrosion. The body shall be rinsed with de-ionized water to prevent salts from accumulating on the surface. The body will, then, be baked dry prior to the application of Sikkens sealer/primer. Again, all module doors, though handled separately from the body, shall undergo the same process as described above.

**PAINT:**

Immediately after application of the sealer/primer the manufacturer shall apply a finish color coat of Sikkens BTLV 650 paint. The color coat is to be immediately followed by a clear coat. Once all coats are applied the unit is to be baked dry. This base coat/clear coat 'wet on wet' process is required over any other proposed process. Processes not meeting these specific requirements must be explained thoroughly within the bid.

**POST-PAINT PROCESS:**

Following the drying of all paint coats the unit is to be thoroughly inspected as noted above. The unit is to be polished and any blemishes repaired. All paint lines must be sanded and cleaned.

**PAINT MANUFACTURER'S INSPECTIONS:**

The manufacturer shall maintain an outside paint audit system. As part of that audit the paint manufacturer shall regularly receive and test sample paint panels that are painted along with module bodies. The paint manufacturer shall also provide regular onsite inspections of the vehicle manufacturers paint process to assure a consistent level of quality. Audit reports from these inspections shall be provided to management.

**ADDITIONAL CORROSION PREVENTION MEASURES:**

All locations where fasteners penetrate the outer skin of the module body shall be coated with ECK anti-corrosion agent. In addition, all fasteners that penetrate the outer skin of the module body shall be treated with an anti-corrosion agent to assure the maximum protection against vehicle corrosion and electrolysis.

**NON-METALLIC HOLE INSERTS:**

All locations where light heads and fenders attach to the aluminum body shall utilize threaded Nylon inserts to isolate the fasteners from the aluminum module body skin and structure. This practice, along with the other measures described above, shall act to minimize the threat of electrolysis.

**PAINT WARRANTY:**

The paint warranty provided by the converter must meet all warranty standards as set forth elsewhere within this specification. Bidder must submit a manufacturer's paint warranty certificate with the bid. Failure to do so will result in automatic rejection of the bidder's proposal.

**CHASSIS PAINT COLOR:**

The OEM chassis manufacturer's bright white paint shall be ordered on the chassis.

**BODY PAINT COLOR:**

The final paint application to the vehicle body shall be made with Sikkens Autocryl acrylic urethane paint.

Color: White  
Number: FLNA4002

**CABINET DOORS, PLEXIGLAS, HANDLES AND HARDWARE:**

Information relative to interior door materials, handles, and hardware is provided below:

**HANDLES FOR PLEXIGLAS DOORS:**

All interior sliding Plexiglas doors are to include extruded pull handles.

**LATCHES FOR HINGED DOORS:**

The hinged doors within the patient compartment are to utilize Southco Stainless Steel flush-style latches as noted below. These latches shall feature recessed pull ring style handles. The latches shall be both positive (mechanical latching) and passive (latches automatically).

Locking:  
Non-Locking:

Note: Locking latch locations are to be noted on the drawings.

**PLEXIGLAS COLOR:**

The Plexiglas interior cabinet doors shall be a light gray tint.

**INHALATION PANEL:**

To prevent contamination of the inhalation panel the panel shall be fabricated using no wood or wood based products. The material used shall be an aluminum composite material. This material shall not absorb liquids and shall not attract bacteria, molds or fungi. The material is to be covered with Formica material in a color matching that required within this document.

MOVE REARWARD TO ACCOMMODATE CABINET AT HEAD OF INHALATION AREA

**SOLID SURFACE COUNTERTOP:**

The patient area countertop(s) shall be constructed of solid surface material. The countertops shall incorporate a 1" radiused retention lip around the perimeter of the material. This radiused corner shall also be tapered to avoid any sharps edged. A radius cove molding shall be installed at either end of the countertops where the material meets the cabinet wall. The rear edge of the material, adjoining the side wall of the vehicle, shall be sealed with silicone. In addition, any and all areas that require seams due to manufacturing processes shall be sealed with silicone. This material shall be uniform throughout so that scratches can be buffed out without causing adverse effects on the appearance of the material. The Avonite color required is noted below:

Color: MIDNITE PEARL

**INTERIOR COLORS, UPHOLSTERY AND SEATING:**

The patient area interior design is specified below:

**INTERIOR COLOR SCHEME:**

The patient area interior shall feature the materials and colors listed below.

FLOOR: LONCOIN FLECKSTONE BLACK ONYX TS  
RISER: WILSONART INDIGO #D379  
WALL: WILSONART DESIGNER WHITE #D354  
CABINET: FASHION GRAY PAINT  
COUNTERS: SOLID SURFACE MIDNIGHT PEARL  
UPHOLSTERY: COBALT BLUE  
ACCENT STRIPE: WILSONART BRITTANY BLUE #D321 - REAR ENTRY DOORS WILL NOT HAVE ACCENT STRIPES DUE TO 3-PIECE PANELS

**INTERIOR STORAGE AREAS:**

All interior storage cabinets, including the interior of the squad bench, shall be painted for ease of cleaning. Under no circumstances shall carpet be used within these storage cabinets as it is impossible to decontaminate. The paint color is listed within the "Interior Color" section of this specification. The paint shall be treated with an antimicrobial agent.

**RISERS:**

The interior of this vehicle shall be constructed without the use of wood or wood-based products. The risers shall be constructed of a reinforced structural composite consisting of a high density polypropylene core laminated between two layers of .024" aluminum skin. The composite shall then be covered by a Formica laminate to match the interior of the vehicle. The finished riser panels shall be impervious to water or other forms of moisture and must be guaranteed against rotting or decomposition. Formica laminate will not be installed on the risers if stainless steel riser options are selected.

**ATTENDANT SEAT:**

An attendant's seat base shall be fabricated from aluminum and shall be installed in a position at the head of the cot. The base shall house the vehicle's heat/AC unit as described in that section of this specification. The material shall be perforated to promote airflow to the unit. A USSC bucket type seat shall be installed on the seat base in the rear-facing position. The seat shall be upholstered to match the vehicle interior, and shall be capable of adjustment from front to rear and is to include an integral child safety seat. Under NO circumstances shall this seat be installed in any manner that allows it to swivel due to the lack of stability and weaker structural characteristics inherent in such designs. The seat shall include an integral 4pt seatbelt as described under the "seatbelt" section of these specifications.

SEAT TO HAVE DUAL ARMRESTS INSTALLED.

**SEAT BELTS:**

Each seating position shall include a 4pt seat belt. Each belt shall include a 4 retractor system to allow all four belts to be fully retractable. Each belt shall also include quick one click design to ease their use. The belt at each position is to be outfitted with a removeable vest designed to guide the belt into the proper position, prevent the buckle from moving up or down and side to side, and offer better support and comfort to the seat occupant.

**ALUMINUM INTERIOR CABINETS, STREET SIDE:**

This specification requires an all aluminum modular cabinet design. Aluminum, a minimum of .063" thickness, is required over wooden cabinetry due to its lighter weight, greater durability, and the ease with which it can be decontaminated. The main cabinet wall shall be of modular construction. All individual cabinets shall be of welded construction. To insure the safety of patients and attendants in the rear of the vehicle, the main cabinet wall installation shall have been tested to a minimum frontal impact of 30 G's per the requirements of the Safety Certification section of this specification. The main cabinet wall may not be constructed of any wood or wood product. Wooden cabinetry can warp, expand, contract, splinter, separate, or crack. Wood will also harbor bloodborne pathogens whereas aluminum can be easily cleaned. Aluminum will remain stable and securely mounted (no fibers to compress) over many years and miles of continuous service. For these reasons, wooden cabinets, even when laminated with another material, will not be acceptable. Bids received that utilize any material other than that which is specified above will be considered non-responsive and will be rejected without further consideration.

**INTERIOR CABINETRY, STREET SIDE**

All of the aluminum cabinetry within the vehicle shall be of welded construction. Methods of cabinet construction that utilize rivets or adhesives of any type will not be considered.

**ALUMINUM CABINET WARRANTY:**

The all aluminum cabinet construction, as described within this section, shall be warranted against any structural defects for a period of time not less than 30 years. This warranty shall be stated within the manufacturer's structural warranty document, and shall not be subject to any mileage limitations.

**INTERIOR OCCUPANT PROTECTION:**

For the safety of the attendants working in the patient area, the vehicle shall be equipped with an interior occupant protection system incorporating an emergency inflatable airbag system at both the attendant and the CPR seat locations. In the event of a side impact rollover collision, the bags shall be triggered by an electronic sensor to inflate and protect the occupants against severe head strikes typical of such collisions.

**ATTENDANT'S SEAT PROTECTION:**

The attendant seat location shall be protected by an inflatable head cushion technology as well as a unique inflatable tubular system to prevent the attendant from impinging into the danger zones of the inhalation area.

**CPR SEAT PROTECTION:**

The CPR seat location shall be protected by a combination of an inflatable tubular system at the forward side to protect against entry into the inhalation area as well as a system of progressive resistance head protection cushions.

**TESTING:**

All airbag seating locations shall have been tested with a variety of occupant sizes. Those tests shall include Hybrid III fully instrumented test mannequins including 5% child (115 lbs.), 50% female (163 lbs.), and 95% male (195 lbs.). Testing shall have included at least fourteen (14) fully instrumented destructive dynamic roll crashes and an additional six (6) side impact destructive crashes. Roll crash testing shall be performed at 17-19G's while side impacts shall be approximately 27G's.

**CERTIFICATIONS:**

The vehicle must have been certified as compliant to standards ECE R29, SAE J2420, and SAE J2422. The bidder must show evidence that their service facility is trained and certified to service or to replace the airbags should the need arise. Such certification shall be attached to the proposal (NO EXCEPTIONS).

**STREET SIDE CABINET WALL:**

The street side main cabinet wall shall be constructed from aluminum as described above. Each cabinet within the cabinet wall shall be designed and constructed as an individual welded aluminum box. Each box shall be insulated and soundproofed. The boxes shall then be bolted together to form the main cabinet wall. This design will allow for future modifications to the cabinetry should equipment storage requirements be updated. The cabinet wall assembly shall be further insulated against noise and temperature extremes. The entire assembly shall be bolted to the module body structure. Cabinets that are welded or otherwise permanently affixed to the module body structure will be unacceptable. Such permanent installation methods limit the ability to make design updates at a later time. They also increase the time and cost involved with regard to remounting the body onto a new chassis should that occasion ever arise. Likewise, cabinets mounted with the use of either rivets or adhesives of any kind will not be considered without exception.

Cabinet wall design: See Drawings

**CABINET SHELIVING:**

All interior cabinet shelves shall be fabricated from aluminum. The shelves shall utilize mini Unistrut adjustable shelf track.

Quantity: 2

**TESTING AND STRUCTURAL INTEGRITY:**

The cabinet wall design and construction methods described within this specification shall have been subjected to Hygee sled testing as described within the "Safety Certification" section of this document. This testing shall have been performed to a minimum of 30 G's. This testing is in addition to all other testing, whether mandated or voluntary, that has been performed. The cabinet wall shall not be, in any way, responsible for any portion of the module body's structural integrity. However, the cabinet wall, as well as the methods and materials used to attach the wall to the vehicle, must be structurally sound in the unlikely event that this vehicle is involved in an accident. This testing is required as an added assurance that the vehicle interior is crash-stable and safe for all vehicle occupants. Proposals that include cabinet wall designs that have not been subjected to this testing will be rejected on the basis of being non-responsive.

**CPR SEAT HEAD PROTECTION:**

The progressive resistance head protection cushions shall incorporate layers of foam of increasing densities. Should a head strike occur, then the increasing density of the cushion as the impact progresses shall lessen the likelihood that the head will reach the aluminum cabinet material behind the cushions. It should be noted that standard single density foam cushions will not meet the requirements of this section. The bidder must have performed both actual impact tests as well as computer simulations in order to test the efficacy of this material in reducing head strike intensities to a survivable rate.

**RESTOCKING CABINET FRAMES, STREETSIDE:**

The street side cabinet(s) listed below shall feature sliding Plexiglas doors that hinge upward for cleaning and restocking of the cabinet in addition to the normal sliding mode of operation. The extruded door frame shall be installed at the top with a full length piano hinge. This will allow the entire frame to flip upwards providing complete access to the cabinet. The door and frame shall be held in the "up" position with two gas-charged cylinders, and in the down position with two sliding dead bolt type latches. The remainder of the door construction shall adhere to the appropriate section of this specification.

LOCATE: CABINET OVER THE INHALATION AREA AND UPPER REAR MAIN WALL  
CABINET.

**CPR SEAT STORAGE:**

The CPR seat cushion shall be hinged upward to allow for access to the area beneath it. This area shall provide miscellaneous storage. The storage area shall be fabricated with aluminum diamond plate and shall be as large as is possible given the location of the exterior compartmentation and wheel house.

**INSIDE/OUTSIDE ACCESS:**

An inside/outside dual access storage area shall be provided as indicated below. This area shall be accessible through both an exterior compartment door, and an interior cabinet door.

Locate: Rear of main cabinet wall  
Door Style: hinged Plexiglas

DOOR TYPE: INSTALL (2) PLEXIGLAS DOORS PER DRAWING.

BOTTOM OF OPENING TO 24" ABOVE THE MODULE FLOOR.

**SPECIAL INSTRUCTION, STREETSIDE CABINETRY:**

!!! INSTALL A 12"W X 24"H X 18"D CABINET AT THE HEAD OF THE INHALATION AREA

CABINET TO INCLUDE A RIGHT HINGED DOOR AND (1) ADJUSTABLE SHELF

**INTERIOR CABINETS, CURB SIDE:**

All of the cabinets located within this section shall meet the same standards for construction, design, materials, and testing as designated in the previous section. Failure of the bidder to provide cabinets meeting these criteria shall be grounds for rejection of the bid as being non-responsive.

**SQUAD BENCH STORAGE:**

A storage area, fabricated from .125" 5052-H32 aluminum, shall be installed beneath the squad bench cushions. This storage area shall be painted and trimmed per the cabinet construction section of this specification. Access to this area shall be gained by raising the bench cushion. This area shall be as large as possible given the presence of the wheelhouse directly beneath this area. Note that storage areas made of wood, whether or not they are laminated or otherwise covered with another material, will not be acceptable.

**BENCH HEAD END:**

The following bench restraint shall be installed at the head end of the squad bench.

**NET AT HEAD OF BENCH:**

A woven cargo type net shall be installed at the head of the bench. The net shall be anchored top and bottom and be removeable for cleaning purposes.

LOCATE: AISLE SIDE OPENING OF THE CRASH BARRIER COMPARTMENT ILOS.

**BENCH HOLD OPEN:**

24lb. Gas piston style hold-open devices shall be installed on the flip-up squad bench cushion. These devices will provide for smooth and simple operation. For that reason substitute hold-open devices, such as ratchet style devices, will not be acceptable.

**BENCH HOLD DOWN:**

Paddle style latches shall be installed on each flip-up bench cushion to hold the cushions in the 'closed' position. The operation of these latches shall be passive and shall required intentional unlatching in order to raise the squad bench cushion. Each latch is to be flush mounted in the face of the squad bench riser.

**SQUAD BENCH EDGE PROTECTION:**

An aluminum angled trim piece shall be installed along the bottom edge of each bench cushion. Each piece shall be bent to follow the contour of each cushion on the horizontal plane. These trim pieces shall provide added protection for the upholstery against extensive wear.

**BENCH BACKREST:**

A full backrest cushion shall be installed on the wall over the squad bench. The cushion is to extend the full width of the squad bench and shall be trimmed to match the interior of the vehicle. The upholstery shall be as described in the upholstery section of this document.

**BENCH WALL DRAWER:**

A drawer shall be installed on Grant slides on the bench wall as noted below. This drawer is to be .063" 5052-H32 welded aluminum. All welds are to be continuous. The drawer shall include a Southco latch to hold it in the 'closed' position.

Quantity: 1

LOCATE: UPPER PORTION OF CRASH BARRIER COMPARTMENT, AISLE FACING.

**SHARPES/WASTE DISPOSAL:**

An aluminum drawer shall be installed in the face of the squad bench per the instructions listed below. This drawer will house a sharps/waste disposal location. Both the sharps and the waste containers shall be easily removable from the drawer. The drawer will include a Southco latching device to hold it in the 'closed' position.

LOCATE: HEAD OF BENCH TO OPEN INTO THE AISLE. SIZE DRAWER AS TALL AS POSSIBLE AND INCLUDE AN #8970 SHARPS CONTAINER ONLY, NO WASTE. INCLUDE A SOUTHCO LOCKING LEVER LATCH IN DRAWER FACE.

INSTALL USING LARGE HD ACCURIDE SLIDES. ALL SLIDE MOUNTING BOLTS TO INCLUDE ESNA NUTS.

**BENCH CEILING CABINET:**

A cabinet shall be installed at ceiling level over the full length of the squad bench. This cabinet is to be fabricated from .063" 5052-H32 welded aluminum. The interior of the cabinet shall be painted per the cabinet construction description listed elsewhere within this specification. The cabinet is to be accessed through hinged Plexiglas doors that are held in the 'open' position by gas piston hold-open devices. This cabinet is to be a maximum of 9" H to allow enough clearance between the bottom of the cabinet and the top of the seat below to meet KKK-F requirements.

CABINET TO BE 13"H ILOS DUE TO 76" HEADROOM. NOTE ANGLED MAX COOL UNIT LOCATED FORWARD END (QH29MX00) AND THE O2 OUTLET REAR OF THE MAX COOL.



**CABINET DIVIDER:**

A cabinet divider shall be installed as noted below. The divider is to be fabricated out of aluminum and shall be painted to match the cabinet interior.

LOCATE: CENTER OF BENCH OVERHEAD CABINET

**SPECIAL INSTRUCTION, CURBSIDE CABINETRY:**

INSTALL AN AISLE FACING INTERIOR CABINET ON THE UPPER REAR BENCH WALL PER DRAWING. SIZE: APPROX 25"W X 13"H X 16"D (I.D.)  
CABINET WILL EXTEND INTO THE REAR COMPARTMENT. SIZE HEIGHT TO ALLOW 77" BELOW THE CABINET FOR BACKBOARD STORAGE. VERIFY WIDTH WILL ACCOMMODATE RADIUS TRIM ON THE BENCH SIDE  
INCLUDE A HINGE-UP PLEXIGLASS DOOR WITH VENTING. DOOR TO HAVE A GAS HOLD OPEN  
INCLUDE A SOUTHCO PULL-RING LATCH

**SPECIAL INSTRUCTION, CURBSIDE CABINETRY:**

INSTALL A (3) POSITION GLOVE BOX HOLDER BELOW THE MAXCOOL UNIT. CABINET DIMENSIONS TO BE 17.5"W X 11"H X 5.5"D.

**ALUMINUM INTERIOR CABINETS, FORWARD WALL:**

Like all other cabinets in the patient area that are to be fabricated and installed by the manufacturer, the cabinets on the forward wall are to be fabricated from aluminum as dictated in the appropriate section above. Again, failure of the bidder to meet the criteria established within this specification with regard to cabinet design, construction, materials, and testing will be cause for rejection of the bid as being non-responsive.

**CROSSOVER CABINET:**

An aluminum crossover cabinet shall be installed above the walkthrough/passthrough area at the forward end of the patient compartment. This cabinet shall include a solid hinged door.

SIZE DEPTH AS SLIM AS POSSIBLE TO REDUCE INTERFERENCE WHEN ENTERING THROUGH SIDE DOOR. PAD ALL EXPOSED SURFACES. INCLUDE A GAS CYLINDER HOLD OPEN.

**SPECIAL INSTRUCTION, FRONT WALL CABINET:**

INSTALL A DOUBLE DOOR WALK-THROUGH DOOR ASSEMBLY. INCLUDES TWO SIDE HINGED-DOORS. RIGHT DOOR TO OPEN 180 DEGREES.  
INCLUDE A SOUTHCO PULL-RING LATCH ON THE TOP INBOARD CORNER OF EACH DOOR TO LATCH THE DOORS CLOSED.  
INSTALL A SLIDE-BOLT LATCH ON THE TOP AND BOTTOM OF EACH DOOR ON THE CHASSIS SIDE TO LOCK THE DOORS IN THE CLOSED POSITION.  
INCLUDE STRAPS WITH BUTTON SNAPS TO HOLD THE DOORS TO THE WALLS WHEN IN THE OPEN POSITION.

**MODULE INTERIOR ACCESSORIES AND TRIM:**

The following section addresses interior accessories and trim features. All installation locations, as noted below, shall be strictly adhered to by the bidder. The items in this section will directly influence the quality of care given to the patient, as well as the safety of the attendants. For these reasons the installation locations listed below must be met without exception.

#### **IV HOOKS:**

Cast Products recessed swing-down IV hangers shall be installed per the instructions listed below. These hangers are to be near flush mounted into the patient area ceiling to reduce their interference with the walkway when not in use. The arms of each hanger shall be rubberized so as to reduce the possibility of injury that may occur if contact is made with them. This style IV hanger shall be sufficient to meet Federal KKK-1822-E.

Quantity: 2  
LOCATE: PER DRAWING. CURBSIDE HOOK WILL REQUIRE AN ADDITIONAL  
CEILING PLATE.

#### **ANTI-MICROBIAL COATED COT CEILING GRAB RAIL:**

A grab rail shall be installed in the ceiling as noted below. This rail is to be constructed of stainless steel. Integral stanchions shall be welded into place at fixed points along the length of the rail for attachment to the ceiling. The rail shall attach through aluminum mounting plates that are welded to the module roof structure for strength and durability. Because contamination occurs most often as a result of contact, this feature must be treated with an anti-microbial agent consisting of an inorganic ceramic coating embedded with silver ions. This coating shall be effective against a broad range of microbes including bacteria, molds, algae and fungi.

Split Rails For Cot: Two 2' sections  
Locate: Each side of CPR seat over cot

#### **ANTI-MICROBIAL COATED BENCH CEILING GRAB RAIL:**

A grab rail shall be installed in the ceiling as noted below. This rail is to be constructed of stainless steel. Integral stanchions shall be welded into place at fixed points along the length of the rail for attachment to the ceiling. The rail shall attach through aluminum mounting plates that are welded to the module roof structure for strength and durability. Because contamination occurs most often as a result of contact, this feature must be treated with an anti-microbial agent consisting of an inorganic ceramic coating embedded with silver ions. This coating shall be effective against a broad range of microbes including bacteria, molds, algae and fungi.

Size: 6'  
LOCATE: OVER AISLE EDGE OF BENCH CUSHIONS.

#### **PATIENT AREA DOOR GRAB RAILS:**

Angled door handles shall be installed on the interior door panels of each access door. The handles shall be one-piece and shall be constructed of stainless steel. The handles shall feature smooth radius corners and flange mounts at each attachment point. Because contamination occurs most often as a result of contact, this feature must be treated with an anti-microbial agent consisting of an inorganic ceramic coating embedded with silver ions. This coating shall be effective against a broad range of microbes including bacteria, molds, algae and fungi.

#### **COVE MOLDING:**

A radius cove molding shall be installed at all areas of the floor that may have seams.

**PROTECTIVE EDGE TRIM:**

The 90 degree edges of the squad bench, the attendant seat riser, and the front wall cabinet shall be protected by a chamfered trim angle.

**CEILING:**

The patient area ceiling shall be constructed of a bright white Alcopla aluminum composite material consisting of a polyethylene core laminated between two sheets of coated aluminum. The headliner shall be smooth, impervious to moisture, easy to clean and durable. It shall have the same rate of expansion and contraction as the aluminum body. Headliner that is padded or upholstered in any way will not be considered, nor will any headliner made of wood or wood products due to the lower degree of durability and the risk of contamination inherent in such materials. Plastic, fiberglass or ABS headliner material is not acceptable due to the cracking commonly causing by the differing rates of expansion. Lastly, the headliner material shall be treated with an antimicrobial agent. The bidder, at the request of the purchaser, may be required to submit proof of the application along with a detailed description of the agent used and the types of organisms that it effects.

**FIRE EXTINGUISHER:**

Two (2) 5# ABC fire extinguishers, with mounting brackets, shall be supplied on the completed vehicle per the notations below.

Quantity: 2  
Note: Ship Loose

**PATIENT AREA RADIO SPEAKERS:**

Two (2) speakers shall be installed in the patient area. The speakers shall include a volume switch that is integral to the rear action area switch panel. The volume shall be controlled by individual up/down switches of the type described in the electrical section of this specification.

Speaker Location: Over rear doors

**COT MOUNTS AND ACCESSORIES:**

The following cot mounting hardware shall be installed per the instructions listed below. The installation shall meet the hardware manufacturer's installation guidelines. In addition, the installation process shall have been subjected to Hygee sled testing as outlined elsewhere within this document.

**COT MOUNT:**

The bidder shall supply and install a Stryker Power Load system in the completed vehicle.

## Pembroke Pines Bid FI-16-03 Ambulance Specifications

### **COT:**

One (1) new cot shall be provided complete with mattress and straps as noted below. The cot shall be installed in the vehicle and shall be properly adjusted for use.

Cot Model: STRYKER POWER PRO TO INCLUDE THE FOLLOWING OPTIONS.

Retractable Head Section 02 Holder  
6085-046-000

3-Stage IV Pole  
6500-215-000

Equipment Hook  
6500-147-000

Backrest Storage Pouches  
6500-130-000

Flat Head End Storage Pouch  
6500-128-000

XPS (expandable patient surface  
6506-040-000

Power-Load Compatibility Kit  
6506-127-000

### **LIGHTBARS:**

Lightbar information, as may be required, is noted below:

#### **FRONT LIGHTBAR FOR 96" BODY:**

The lightbar specified below shall be installed per the lightbar mounting instructions that follow. This lightbar shall be a maximum of 86" wide for installation with a 96" wide body.

#### **FRONT LIGHT BAR MOUNTING:**

The light bar specified above shall be installed per the instructions listed below. The light bar model is also provided for clarification purposes.

Light Bar Location: Cab roof with Permanent Mount  
Light Bar Model: WHELEN FREEDOM IV

#### **FRONT LIGHT BAR:**

The light bar, as described below, shall be provided per the information listed below. Installation of this light bar on the vehicle shall follow the instructions given under the "Light Bar Mounting" section of this specification.

MODEL: WHELEN FREEDOM IV BAR 55" LED LIGHT BAR WITH CLEAR LENS:

CONFIGURE: [RED CRN] [W] [R] [W] [ ] [R] [R] [ ] [W] [R] [W] [RED CRN]

**ELECTRICAL EMERGENCY VISUAL WARNING SYSTEMS:**

Warning lights are to be installed per the following instructions:

**FLASHING SEQUENCE FOR LED LIGHTING**

LIGHTS: PROGRAM ALL WARNING LIGHTS FOR FAST RANDOM PATTERN AT THE LIGHT HEADS.

CANCEL WHITE LIGHTS IN SECONDARY.  
ALL WARNING LIGHTS TO STAY ACTIVE IN SECONDARY.

**HEADLIGHT FLASHER:**

The vehicle headlights shall alternately flash through the activation of the appropriate switch on the cab control console. This feature shall be accomplished through a solid state flashing device that is a part of the primary electrical control board.

A programmable phase control shall be built into the system board to allow alteration of the light flashing sequence. The flash pattern must be capable of being switched from an alternating pattern to a pulsating pattern.

The phase of "on" time can be programmed to flash when desired for an effective light pattern. For instance: If the left grill light is flashing "on", the right flashing headlight is desired to be "on". Different flash patterns may be achieved through programming.

**L.E.D. LIGHTING:**

Whelen M7 Series red/white side/side split L.E.D. lighting shall be installed per the quantity and location requirements listed below. All lighting is to include the optional chrome flange. Clear lens is standard for split color light color light heads.

Quantity: 4  
LOCATION: (2) CHASSIS GRILLE - REDS OUTBOARD  
(2) CHASSIS INTERSECTION LIGHTS - REDS FORWARD

LENS: CLEAR:

**L.E.D. LIGHTING:**

Whelen M9 Series red L.E.D. lighting shall be installed per the quantity and location requirements listed below. All lighting is to include the optional chrome flange.

Quantity: 10  
LOCATION: (2) FRONT FACE, UPPER OUTBOARD CORNERS  
(2) STREETSIDE  
(2) CURBSIDE  
(2) REAR FACE OF BODY, UPPER OUTBOARD CORNERS  
(2) REAR FACE OF BODY, WINDOW LEVEL

LENS COLOR: CLEAR

**L.E.D. LIGHTING:**

Whelen M7 Series amber L.E.D. lighting shall be installed per the quantity and location requirements listed below. All lighting is to include the optional chrome flange.

Quantity: 1  
LOCATION: CENTERED ABOVE REAR ENTRY DOORS  
LENS COLOR: CLEAR

**L.E.D. LIGHTING:**

Whelen M6 Series red/white side/side split L.E.D. lighting shall be installed per the quantity and location requirements listed below. All lighting is to include the optional chrome flange. Clear lens is standard for split color light heads.

Quantity: 2  
LOCATION: ABOVE MODULE WHEEL WELLS - REDS FORWARD

LENS: CLEAR

**L.E.D. LIGHTING:**

Whelen M7 Series white L.E.D. lighting shall be installed per the quantity and location requirements listed below. All lighting is to include the optional chrome flange.

Quantity: 1  
LOCATION: INSTALL ON THE FRONT FACE CONDENSOR WITH A FABRICATED BRACKET.

**AUDIBLE EMERGENCY WARNING SYSTEMS:**

The following audible emergency warning features shall be installed on the vehicle:

**AIR HORNS:**

One pair of 25" Grover Stuttertone air horns shall be installed and activated per the information provided below by the chassis O.E.M.

Trumpet Location: One on each side of the hood  
Switch Location: Steering wheel and passenger's side of dash

**SIREN:**

The vehicle manufacturer shall supply and install a Whelen WS295HFSC1 siren as noted below.

Siren Location: Cab Radio Console  
Quantity: 1

**SIREN INSTALLATION:**

The electronic siren specified above shall be installed in the designated location and wired for operation through the speakers noted below.

LOCATE: CENTER OVERHEAD CONSOLE

**SIREN SPEAKERS:**

Cast Products #SA3805 speakers shall be installed on the chassis per the instructions listed below. The speakers shall be wired for operation through the siren listed above.

Quantity: 2  
Locate: Bumper mounted

**SIREN SPEAKER INSTALLATION:**

The siren speakers specified above shall be bumper mounted and wired for operation.

**LIGHTING:**

Lighting information is noted below:

**SIDE BODY RUNNING LIGHTS:**

One Whelen M6 Series L.E.D. light with a red lens and a chrome flange shall be installed on each side of the vehicle towards the rear of the body. These lights shall function as both running lights and turn signals.

PROGRAM TO FLASH WITH THE WARNING LIGHTS. TURN SIGNALS TO OVERRIDE

**EXTERIOR COMPARTMENT LIGHTING:**

The compartment lighting for the exterior compartments noted above shall consist of LED lighting strips. Strips of LED lights shall be installed on each side of the compartment opening on the inside of the door jamb and shall direct the light back into the compartment. These light strips shall fit securely into clips installed in this location. These strips shall be semi rigid. Please note that rope lighting is not an acceptable alternative to this requirement.

**ICC MARKER LIGHTS:**

The required ICC marker lights for this vehicle are to be LED. Bidder should note that some lightbars have ICC lights already installed. In that case those lights shall be installed in lieu of the lights described here unless denoted within this document.

**M9 SERIES LED SCENE LIGHT:**

Whelen M9 Series LED Scene Lights shall be installed in the quantity and locations noted below. Each light shall include the optional chrome flange. These lights shall be activated by right and left side switches located within the front electrical control console. Additional means of activation, if any, are listed in the electrical section of these specifications.

Quantity: 4  
LOCATE: (2) PER BODY SIDE PER DRAWING

**LOAD LIGHTS:**

Whelen M7 Series LED Scene Lights shall be installed in the quantity and locations noted below. Each light shall include the optional chrome flange. These lights shall be activated when the rear doors are opened, and by a switch located within the front electrical control console. Additional means of activation, if any, are listed in the electrical section of these specifications.

Quantity: 2

LOCATE: Above rear entry doors

**TAIL LIGHTS:**

Whelen M6 Series L.E.D. tail/brake, back-up, and turn signal lights shall be installed on the rear of the module body per the instructions listed below. All six of these lighting assemblies shall include the optional chrome flange. The tail/brake and turn signals shall be L.E.D. style lights. The back-up light shall be halogen.

LOCATE: TURN ARROWS ABOVE THE RISER, BRAKE/TAILS AND REVERSE LIGHTS IN THE REAR RISER.

**ELECTRICAL POWER GROUP:**

The vehicle electrical system is extremely important to this purchaser. The requirements for the onboard electrical system are noted in detail below. The bidder's electrical system, should it deviate in any way from that which is specified, shall be explained in great detail. This explanation shall present facts relative to the bidder's system only. The bidder shall not draw any comparisons between the electrical system being offered, and the system being specified. Any comparisons or decisions regarding one system versus another will be made solely by the purchaser and shall be based entirely on the written description as provided by the bidder at the time the proposal is submitted. All decisions made by the purchaser as to the merits of one system over another will be final and will not be subject to discussion, either verbal or written, at any point.

**ELECTRICAL CONTROL SYSTEM STANDARDS:**

The electrical control system must meet all current ambulance design standards to include, KKK 1822, NFPA 1917 and AMD. A system is desired that is easy to use, simple in design and allows electrical problem diagnosis and repair time to be minimized. The electrical system must be thoroughly engineered and manufactured to allow simple personnel operation. Finally, the system must be designed so that the probability of experiencing dead batteries, shorted electrical components and engaging in lengthy troubleshooting procedures will be reduced. In some cases the electrical output provided by the chassis charging system can be marginal and under certain circumstances the electrical load can exceed the alternator output. In addition, some electrical systems have not provided proper circuit protection and at times have not provided adequate wiring for the load. To address the above objectives, the following minimum electrical system design is required:

LOCATE CONTROL PANEL IN THE FORWARD SECTION OF THE CONSOLE.



**CONVERTER ADDED CHASSIS CHARGING ENHANCEMENT:**

The basic design for the chassis electrical output system must include equipment that provides adequate electrical needs to operate the vehicle's electrical components. In addition, a system is desired that continually monitors the chassis voltage and amperage outputs. The end result of the desired electrical output system is longer battery life, less down time associated with charging system repairs, and the fulfillment of each and every emergency response.

**BATTERY SELECTOR SWITCH:**

A two-position power selector, turning the battery power to the ambulance systems either On or Off shall be furnished. The switch shall be located on or near the driver's seat base. Unless otherwise specified, the battery switch shall not disconnect power to the OEM chassis systems.

Note: certain chassis are permitted from disconnecting chassis power with this switch.

**Automatic Throttle Advance:**

In order to reduce the number of component parts and unnecessary throttle linkages, the factory electronic throttle control shall be utilized to activate the throttle advance system. The controls shall require that the chassis be placed in Park or Neutral with the Module Disconnect switch in the On position and the Park Brake engaged before activation of the throttle advance. A digital display warning on the driver console, accompanied by an audible tone, must instruct the driver to Set Park Brake or Release Park Brake to engage or disengage the automatic throttle control.

**AUTOMATIC LOAD MANAGEMENT:**

In order to insure that onboard personnel attention is focused on victim care rather than being occupied with monitoring vehicle systems, an automatic load management system is required. The bidder must provide a system that continually monitors the vehicles charging system while it is sitting on scene. The system design shall have the ability to automatically shut down not less than ten pre-programmed electrical circuits to prevent a deficit charging condition while the vehicle is sitting at idle. The system shall be programmed to constantly scan the electrical system.

If a deficit charging condition continues for more than one minute, a pre-programmed circuit shall shut down, correspondingly reducing the electrical draw. If the deficit condition continues, a second circuit shall automatically shut down. This process shall continue to repeat at one-minute intervals until at least ten circuits are shut down with corresponding load reductions. In the event any circuits are being controlled (disabled) by the load management system, the driver must be informed in two ways. First, a digital display warning shall appear on the driver information panel indicating Load Management Active. At the same time, the L.E.D. switch indicator light shall begin to flash for each specific circuit that is being disabled. Systems that cannot indicate specific circuits being affected by the Load Management System are not acceptable.

Load management systems must be programmed through a microprocessor based logic and memory system rather than a series of mechanical relays.

Systems that require manual activation of Load Management will not be acceptable. Once the deficit condition ceases to exist, the system must be capable of restarting any disabled circuit without any action required by the driver.

**Ambulance Specifications**

The bidder is required to furnish a system that permits the end user, if he so desires, to determine prior to production the order of priority for shedding loads. Although the entire system must function automatically, it must also be designed so that it can be set by the end user to a mode for restocking, training, or maintenance convenience. The System Off setting shall not be merely a switch which would permit the operator to easily turn off Load Management. The intent is to keep the system active at all times when the vehicle is in operation.

**LOW AMPERAGE SWITCHING:**

Electrical devices that are not activated automatically shall be controlled from either the cab or patient area control panels through the use of manual switches. A low amperage switch that sends only an on/off signal to the central electrical distribution area is required. The switches provided shall have documented durability ratings at a minimum of fifty million (50,000,000) cycles. The switch design shall include magnetic technology to attain the required durability ratings. Switches that are rocker style will not be acceptable due to their tendency to degrade and fail in continued field use. To eliminate loose or poor contacts, it is unacceptable to have soldered or terminal type connections for the switches. The switches must be an inherent part of the panels.

**SWITCH "ON" INDICATOR LIGHT:**

All switches (unless otherwise noted) on the panels described below shall include a red L.E.D. indicator light that will indicate when power is being applied to a circuit. Designs that have indicator lights that activate to indicate switch position only are not acceptable. In addition, the indicator lights shall be independently programmable to flash or steady burn as required to meet the end user specification.

**SWITCH PANEL DESIGN:**

Both the driver and the patient area switch panels must be designed so they can be easily decontaminated. Current designs make decontamination impossible when an attendant must use a contaminated glove to operate the switch panel while treating a patient. These areas become breeding grounds for bacteria. For this reason, the switch panels must be built in such a manner that there are no openings or crevices on the panel faces. The entire switch panel must be sealed with a protective overlay material. There shall be no printing or labeling on the face of this material. Holes in the panel through which switches, backlighting, or legends are inserted will be unacceptable. The panels must be cleanable with any commercially available spray type cleaner or disinfectant commonly used by EMS systems with no damage created by fluids leaking through openings onto the circuit boards or switch contacts.

The panel surface must be covered with a polyester film laminate for enhanced solvent resistance, strength, and durability. Both front and rear switch panels shall have been tested to at least a 24 hour exposure under DIN 42 115 Part 2 for the following commonly used chemicals: hydrogen peroxide <25%, bleach <20%, glycol, isopropanol, xylene, benzene, phosphoric acid <30%, ammonia <2%, hydrochloric acid <10%, acetic acid <50%, sulphuric acid <10%, diesel fuel, silicone oil, linseed oil, Windex, Formula 409, Fantastic, Wisk, Downey, washing powders, fabric conditioner, Ajax, and glycerin. The bidder shall be required, if asked, to provide the appropriate documentation showing that the above chemicals produced no visible damage after at least a 24 hour exposure. Bidders should be cautioned that commonly used polycarbonate or vinyl membrane fascia and nameplate substrates for electrical panels will not meet this requirement.

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### Ambulance Specifications

The panels shall be spill resistant to shed accidental moisture from spilled soft drinks or coffee cups. In addition, the surfaces of the panels shall be antimicrobial. This antimicrobial property is to be inherent in the surface material itself and shall not need to be reapplied at any point in the future. Products offered that include aftermarket treatments of the panel surfaces will not be considered.

#### **SWITCH PANEL BACKLIGHTING:**

All switch perimeters shall be lighted and raised for ease of switch location at night. In addition, the control panels shall include a red color LED indicator -to further distinguish switch activation. The switch panels shall include, on each panel, an individual intensity control. Switch panel lighting that operates at the same level as the cab instrument panel or that illuminates both the front and rear panels at the same intensity will not be considered. The bidder must provide totally independent control for each panel.

#### **CAB CONTROL SWITCHING AND LCD DISPLAY:**

Switch Activation:

The cab control center shall include 8 critical buttons installed in protective enclosure with proper ventilation to maintain temperature. The following minimum circuits shall be provided on the switch panel:

- Module Disconnect
- Emergency Master
- Emergency
- Interior Lights
- Exterior Lights
- Home
- Apps
- Options

The following displays will appear on the Home screen of the cab console:

- Voltage (to the nearest 0.10 volt)
- Amperage (to the nearest amp)
- Outside Temperature
- Inside Patient Area Temperature
- Access or Compartment Door Open Warning Message and Display
- Electrical System Diagnostics
- 24 Hour Clock
- HVAC
- Emergency Brake Warning
- Accent Lighting and Backlighting Controls
- Patient Warning

## **PATIENT AREA CONTROL SWITCHES AND LCD DISPLAY:**

Switch Activation: Home

The patient area control center shall include 8 mission critical buttons installed in a backlight aluminum control panel. The following circuits shall be provided on the Home screen of the switch panel:

- Rear Heat/AC Activation and Separate Temperature Control
- Rear Heat/AC Fan Speed Control
- Power Vent
- Interior Lights
- Oxygen and Suction
- Patient Status
- Stop Clock
- Oxygen Line Pressure
- Oxygen Cylinder Pressure
- Exterior Lights

Digital Message Center:

The following digital displays shall appear on the faceplate of the patient area control console when selected:

- Patient Area Temperature
- Thermostat Setting
- Oxygen Tank Pressure
- Oxygen Line pressure
- Oxygen Warning

## **MODULE COMPARTMENT AND ACCESS DOOR SWITCHES:**

Exterior circuits such as loading lights, side scene lights and compartment lights shall be activated by low amperage, non-mechanical switches. The type of switch desired is a magnetic sensitive switch that activates the circuit when the magnetic plane is broken. Plunger type switches are not acceptable because of their short useful life and higher amperage requirements.

## **DOOR OPEN INDICATOR:**

A vehicle graphic door open warning indicator, with accompanying audible chime shall be installed in both the cab and patient area. A digital display shall appear on both consoles indicating which specific door has been left ajar.

Under no circumstances will red flashing lights or systems that do not specifically pinpoint a specific open door be acceptable.

**CENTRAL ELECTRICAL DISTRIBUTION AREA:**

The electrical system smart modules shall be independent and include their own logic. They must include RAM memory to execute commands without having to rely on a central CPU. The system must not be centered around the use of a logic-controlled microprocessor built into a single circuit board. This logic control system is required to maximize reliability of the electrical system and to minimize downtime. It must be provided in order to match the type of control system used in the chassis and to prevent communication problems caused when dissimilar systems are employed. The design of the system must totally separate chassis operation from converter feature installations. In the unlikely event of converter component failure, the chassis must still remain operable.

The computer based electrical system must utilize components similar in design to the computerized chassis functions such as the OEM cruise control system, fuel feed system, transmission control system and braking system.

**MULTIPLEXED ELECTRICAL COMMUNICATIONS SYSTEM:**

Because most chassis manufacturers have chosen multiplex electrical communication technology to operate the chassis system, this purchaser requires the same technology for the converter-added systems. A standardized electrical control and wiring system is required. The vehicle manufacturer must own and control all rights to the electrical system. Standard systems controlled by outside vendors and modified for a specific vehicle or manufacturer will not be acceptable due to the unpredictability for future parts or service. Switch panels or modules that are not standard in design and are not interchangeable from one unit to another will not be considered. Since solid state logic-controlled technology is commonly available and not proprietary to any one manufacturer and has been proven to be more reliable with greater benefits, a blanket exception or clarification regarding the electrical specification is not acceptable and will be cause for automatic rejection of the bid.

In addition, the system will consist of a series of input / output control modules to manage and feed information and to control the various circuits required by this specification. Each smart module must have 32 outputs and 10 inputs. The smart modules shall have a chassis gateway interface with a 120 amp max output. Mate-Lock connectors shall be used for all load connections. Molex connectors shall be used for data transmission lines. Under no circumstances will systems be acceptable that utilize screw type terminals or card connectors due to their susceptibility to working loose due to vibration normally encountered on a vehicle.

Under no circumstances may the operation of the central processing unit or the input or output modules be based upon the operation of mechanical relays. Relay based systems require higher amperage operating current and rely on mechanical contact points designed to degrade with use, creating short duty cycles for the vehicle electrical system. Relay based systems, due to those limited short duty cycles, will not be acceptable for the requirements of this specification.

**UNIT FUNCTION:**

The electrical control system shall be fully programmable and shall control a number of functions. The minimum functions to be controlled are as follows:

- No Load Starting Circuit (as defined in subsequent sections of this specification)
- Load Management
- Sequenced Start Circuit Activation
- Electrical System Diagnostics
- Climate Control Heat/AC operation
- Intensity Controls for Patient Dome Lights
- Oxygen Warning System (high and low pressure)
- All Warning Light Flashers and Flash Patterns
- Patient Status System
- Electrical Diagnostics

**UNIT FUNCTION OPTIONS:**

The electrical control system shall be capable of adding the following options:

- Up to four cameras
- Emergency GPS
- Pulse width Modulation
- USB port for field upgradability
- Seat belt monitor display
- Remote system activation from a mobile device
- Record ambulance PM schedule

The electrical control system shall include the ability to manage user defined maintenance issues. It shall also allow for the notification of critical care issues such as oil changes and tire rotations.

**CIRCUIT PROTECTION:**

Each converter added electrical circuit must have circuit protection for both over current limit and over temperature condition. The circuit protection shall be provided by solid-state circuit breaker/switching devices (MOSFETS) for both the input and output wire feeds for each circuit. The circuit protection shall require no user intervention such as that required for circuit breakers or fuses. The system shall be able to indicate an output fault warning.

**FIELD PROVEN AND TIME TESTED ELECTRICAL SYSTEM:**

The converter-added electrical system represents the most important system in the design of this ambulance. Reliability and proven performance is essential. Therefore, the bidder must be able to demonstrate that they have at least ten years experience with solid state logic-controlled electrical systems installed in emergency vehicles. Further, the bidder must be capable of all programming required by the system without turning to outside vendors. This includes custom-programmed items as may be delineated in this specification.

The bidder may be required to demonstrate an in production or in service vehicle in order to guarantee compliance with this requirement. Prototype or first of a kind electrical systems are not acceptable. The purchaser may require the bidder to furnish specific references to further document compliance.

**WIRING:**

The following minimum wiring standards are required:

Identification

By color, by itemized number, and by actual circuit name, stamped every 4-6"

Size:

Size will vary and will be dependent upon each wire being able to carry a minimum of 125% of the actual circuit load.

Protection of Wiring:

All wiring must be run in breakaway wire loom for protection against abrasion or chafing.

**ELECTRICAL SYSTEM DIAGNOSTIC CHECK:**

The electrical system must have built-in capability to self check each converter-added circuit and identify a short or open circuit by means of a single diagnostic switch. The diagnostic system shall be operable from the driver's seat without exiting the vehicle. Diagnostic systems that are incorporated into exterior compartments, patient area interior cabinets, or remote locations will not be acceptable. The relevant information shall be displayed on the digital display on the cab switch panel. When the operator activates the Run Diagnostic switch, the unit will initiate the systems check. The digital display shall flash the message Running Diagnostics while the check is in progress. The system must go through all outputs for the vehicle to check for malfunctions. If a malfunction is found, the display shall stop flashing and steady burn to indicate the message Module #, Output #, Fail. This message will direct the service staff to the correct output module and the correct wire number in order to troubleshoot and repair the system. Once a failure is identified, the operator may continue to run the remainder of the diagnostic by pressing the Warning Reset switch. The bidder shall furnish with the vehicle a detailed diagram indicating each input and output module number and identifying each circuit controlled by the module.

**ELECTRICAL SYSTEM SUPPORT DATA:**

Being able to service the electrical system should the need arise is of the utmost importance. To reduce the down time associated with servicing, the following information shall be provided at the time of delivery:

1. Electrical system operating instructions
2. Patient area heating/AC schematic and parts list
3. Oxygen and vacuum system schematic, parts list and leak check instructions
4. Battery and alternator schematic and system description
5. Radio communications installation instructions
6. Wire description list for converter added wiring
7. Individual schematics for all converter added electrical circuits

**MODULE DISCONNECT DEFAULT:**

The 'Module Disconnect' circuit shall default to the "on" position when the battery switch is activated. Manual activation of the switch is not acceptable.

**BATTERY SWITCH:**

A two position 'On-Off' "Master" battery switch shall be installed on the vehicle within easy reach of the driver. This switch shall control power to the converter-added electrical circuits. Items specified to be wired "Battery Hot" shall not be affected by the Master battery switch. Under no circumstances shall this switch control the chassis O.E.M circuitry. All chassis power (ignition, headlights, etc.) shall remain as designed by the chassis builder.

INSTALL BATTERY SWITCH ON CAB FLOOR TO THE LEFT OF THE DRIVER'S SEAT BASE.

**INVERTER INSTALLATION:**

The vehicle converter shall furnish and install an inverter as noted below:

**INVERTER/CHARGER:**

The vehicle converter shall furnish and install a Vanner 20-1050CUL inverter/charger. The inverter shall be located as noted below and shall power each onboard electrical outlet. No switch for the inverter is necessary as the unit will function "On Demand." The "Charger" portion of this unit shall be wired to the vehicle shoreline circuit.

LOCATE: UPPER STREETSIDE FORWARD ELECTRICAL COMPARTMENT.

**110V INTERIOR OUTLETS:**

Duplex 110V interior electrical outlets shall be installed. Quantity and location information is noted below. Each outlet shall be GFI protected and shall illuminate when powered.

Quantity: 5

LOCATE: (1) FORWARD INHALATION AREA NEXT TO CABINET  
(1) WALL OVER SQUAD BENCH  
(1) CURBSIDE WALL ABOVE CRASH BARRIER  
(2) UPPER CURBSIDE REAR CABINET



### **12V OUTLETS:**

12 volt electrical outlets shall be installed within the vehicle. Quantity, location, and adapter type are provided below. All 12 volt outlets shall be protected by a Schottky medical isolator. In addition, the 12 volt outlets shall be wired through a 20 amp manual reset circuit breaker. All outlets, unless noted otherwise below, shall be battery switched. All 12 volt outlets shall be labeled.

Adapter Type: Cigarette Lighter Style

Quantity: 7

LOCATE: (2) FORWARD INHALATION AREA (NEXT TO CABINET)

(1) CURBSIDE WALL ABOVE CRASH BARRIER

(2) PASSENGER SIDE OF FRONT RADIO CONSOLE. SIDE-BY-SIDE, JUST ABOVE FLOOR LEVEL.

(2) UPPER CURBSIDE REAR CABINET.

CONFIGURE: BATTERY HOT

### **SHORELINE:**

The vehicle shall be equipped with a Kussmaul Super Auto Eject non-arcng shoreline. The male shoreline inlet shall be installed as noted below. This inlet shall be a straight three-prong type and shall include the female adapter plug. The shoreline shall be designed so that the plug will automatically eject from the inlet in the event that the vehicle is started while still plugged in. The shoreline shall include a hinged cover to protect it from the elements. The shoreline system shall be designed to handle a 20 amp load, and shall also include a 20 amp inline GFI breaker.

Locate: Street Side of Module Body as Far Forward as Possible

### **SHORELINE INDICATOR:**

A small AC pilot indicator light shall be installed as noted below. The light shall be wired in after the applicable circuit breaker so as to indicate not only the presence of AC power, but the fact that the circuit breaker is in the closed position.

Locate: Over Shoreline Inlet

### **EXTRA CIRCUIT BREAKER:**

A Spare 15 amp manual resetting circuit breaker shall be installed as a provision for the possible installation, at a later time, of additional equipment. This feature is in addition to any prewire that may be included elsewhere within this vehicle specification. The total number of spare breakers is listed below:

Quantity: 1

### **CAB SWITCH PANEL INSTALLATION:**

The cab control panel for the converter-added electrical circuits shall be flush mounted in the upper face of the cab console. The mounting surface shall be angled downward so that the LCD screen and switches are visible to both the driver and passenger positions.

**REVERSE ACTIVATED REAR SIDE SCENE LIGHTS:**

The rear scene lights on either side of the vehicle shall be programmed to be activated when the vehicle is placed into reverse gear. This is in addition to the other modes of operation as described elsewhere within this document. This feature shall be attained through the programming of the onboard electrical system. Systems that require additional wiring in order to provide this feature are not acceptable.

**SIDE DOOR ACTIVATED CURB SIDE SCENES:**

The curb side scene lighting shall be programmed to be activated when the patient compartment side access door is opened. This is in addition to the other modes of operation as described elsewhere within this document. This feature shall be attained through the programming of the onboard electrical system. Systems that require additional wiring in order to provide this feature are not acceptable.

IATS, PROGRAM THE STREETSIDE BODY SCENE LIGHTS TO ACTIVATE ANY COMPARTMENT DOOR OPENING. (DOES NOT INCLUDE CURBSIDE)

**REVERSE ACTIVATED LOADING LIGHTS:**

The load lighting on the rear of the vehicle shall be programmed to be activated when the vehicle is placed into reverse gear. This is in addition to the other modes of operation as described elsewhere within this document. This feature shall be attained through the programming of the onboard electrical system. Systems that require additional wiring in order to provide this feature are not acceptable.

**HEADLIGHT CONTROLLED LIGHTING:**

The automatic illumination of compartment and load lighting shall only take place when the headlight circuit is activated and the corresponding door is in the open position. This feature shall be accomplished through programming of the onboard electrical system. Systems that require additional wiring in order to allow for this feature are not acceptable.

**AUDIBLE LOW VOLTAGE ALARM::**

An audible alarm shall be programmed to warn the operator should the vehicle's voltage drop below 11.8 volts for 120 seconds.

**EMERGENCY BRAKE WARNING:**

When the vehicle is placed into 'Park' or 'Neutral' with the "Module Disconnect" switch 'On' and the "Red Flashing Light" switch 'On', then an audible alarm, accompanied by a visual readout on the cab console digital display, shall warn the vehicle operator to engage the emergency brake. Likewise, when the vehicle is placed into gear, then the same alarm will sound with a visual display warning the operator to disengage the emergency brake.

CONFIGURE: WIRE ALARM TO ACTIVATE WITH RED FLASHER CIRCUIT

**REPORT LIGHT:**

Report lighting, as described below, shall be installed within the patient area. The fixture shall be LED. The fixture shall be controlled via a switch on the attendant control panel. This design will allow for simple "one touch" operation while still providing for flexibility in terms of lighting needs.

Quantity: (1)

LOCATE: INHALATION AREA

**CAB CEILING LIGHTS, COMBINATION WHITE/RED LED:**

One pair of LED cab ceiling lights shall be installed in the cab headliner. These lights are to feature both clear and red LEDs and can be operated via a switch mounted to the light. Light functions are to be 'OFF', 'CLEAR', and 'RED'.

MANUFACTURER #E013 LIGHTS WITH CHROME TRIM RING.

**PATIENT AREA LIGHTS:**

The manufacturer shall install ROM Durolumen LED lighting in the patient area ceiling as noted below.

Quantity: 2

LOCATE: PATIENT CEILING PER OVERHEAD DRAWING

**PROGRAMMABLE LIGHT TIMER:**

A momentary switch shall be installed as noted below to operate the specified lighting with the battery switch in the 'Off' position and the shoreline plugged in. The switch shall activate a programmable timer that will automatically shut the lights off after the specified period of time. This timer shall be field-programmable to allow the time to be adjusted after the vehicle has been delivered. The initial time setting shall be as follows:

LOCATE: CURBSIDE FORWARD WALL ABOVE CRASH BARRIER.

LIGHTS CONTROLLED: ROM CEILING LIGHTS

SET ELAPSED TIME FOR: 15 MINUTES

**DOMES LIGHTS:**

Weldon single filament halogen dome lights shall be installed in the patient area ceiling. Quantity and location information is listed below. The lights shall be recessed into the headliner and shall not protrude from the ceiling more than 1". Each light shall not draw more than three (3) amps at full intensity. All dome lighting shall be infinitely adjustable and shall be controlled via solid state switching at the patient area electrical control console.

Over Cot: 6

Over walk/passsthrough 1

**HAND HELD SPOT LIGHT:**

An Optronics 400,000 CP hand-held spot light shall be installed in the cab area. The light shall include a momentary switch for activation. A bracket shall be included to hold the light when it is not in use. This bracket shall provide quick and simple access to the light. Retention designs that require two hands to remove the light for operation will not be acceptable.

LOCATE: WIRE TO PASS-THROUGH THE FRONT OF THE CONSOLE. FINAL MOUNTING LOCATION TBD AT DELIVERY.

WIRE TO BE SUFFICIENT LENGTH TO EXTEND OUT OF THE CAB WINDOW ON EITHER SIDE.

**PREWIRE FOR FUTURE STREAMLIGHT INSTALLATION:**

Prewire shall be provided as noted below for future installation of Streamlight charger bases.

Quantity: 4

LOCATE: (1) IN CAB BEHIND DRIVER SEAT  
(1) IN CAB BEHIND PASSENGER SEAT  
(1) STREETSIDE INTERMEDIATE COMPARTMENT, CENTER OF BACK COMPARTMENT WALL. INCLUDE 36" SERVICE LOOP.  
(1) IN STREETSIDE REAR COMPARTMENT, RIGHT WALL. INCLUDE 36" SERVICE LOOP.

**AUXILIARY BRAKE LIGHTING:**

The rear red flashing lights, as specified elsewhere within this document, shall be wired so that they illuminate when the brake pedal is depressed. This lighting is in addition to the specified brake/tail lights.

CONFIGURE: FLASHERS TO OVERRIDE BRAKE LIGHT FEATURE

NOTE: FEATURE TO ACTIVATE REGARDLESS OF MODULE DISCONNECT STATUS

LOCATE: REAR WINDOW LEVEL RED FLASHERS

**SPECIAL INSTRUCTION, ELECTRICAL & PROGRAMMING:**

INSTALL A FEDERAL LITTLITE LF12ES-LED ON THE PASSENGER SIDE OF THE CONSOLE.

**SPECIAL INSTRUCTION, ELECTRICAL & PROGRAMMING:**

INSTALL (1) WHELEN 3SCODCR LED WITH 3FLANGEC CHROME SURFACE MOUNT FLANGE FOR THE STEP WELL LIGHT.

LOCATE: BENCH SIDE OF THE STEP WELL.

**HEATING AND AIR CONDITIONING:**

A temperature control system is desired that provides quick and simple operation while maintaining a uniform temperature throughout the patient compartment. The unit itself must be located so that it is easy to access for service. This location must also be near the O.E.M. heat/AC connection points when provided so as to increase the overall efficiency of the unit. The following minimum design standards must be adhered to in order to best meet the needs of this purchaser.

### **SYSTEM CONTROLS:**

The climate control functions shall be controlled through a primary location in the inhalation panel, and through a secondary location in the cab electrical control console. The switches used for the operation of this system shall be identical to the switches described in the "Electrical" section of this specification. Switches shall be present in the front console to select either 'Heat', 'A/C', or 'Off' functions and to select the desired temperature. Switches shall be present in the rear control panel to select either 'Heat', 'A/C', or 'Off' functions, 'Automatic' or 'Manual' mode of operation, and to select the desired temperature.

### **THERMOSTAT:**

The temperature level shall be adjustable from both the front and rear electrical control panels for the 12V system. Two switches at each location shall be used to scroll through desired temperature settings on one degree intervals. Once the desired temperature is set, then the system shall retain that setting regardless of the position of the battery switch. The temperature sensor for the system shall be located at the inhalation panel so as to attain a true patient compartment temperature. The temperature setting and the actual temperature reading shall be viewable from both the front or rear digital displays.

This system is to be controlled through the converter-added electrical system. Under no circumstances shall household type thermostats be acceptable.

### **SYSTEM OPERATION:**

The system shall allow for both automatic and manual operation. When set to the manual mode the fan speed shall be infinitely adjustable from the rear control panel for extra ventilation. When set to the automatic mode the fan speed shall be controlled by the thermostat setting. The temperature that is selected shall be continuously maintained. When the selected temperature has been reached, then the system shall automatically cycle the fan speed down to reduce unnecessary electrical load.

### **HEATER WATER CONTROL:**

The flow of hot water from the chassis to the converter-added heat/AC system shall be controlled by an electrically operated valve located under the hood. Water flow to the rear heater shall be activated when either the front or rear heater switch is turned to the 'On' position. It is a requirement of this specification that this type of valve be used unless the converter is supplying a self-contained heat-AC system. The term "self-contained" is defined as being a unit that does not require any water flow from the chassis. Under no circumstances will manual valves be considered. Manual valves are inconvenient and tend to leak.

#### **UNIT LOCATION AND SERVICE:**

It is required that the heat/AC unit be installed inside a custom-made aluminum box beneath the attendant's seat. This box shall be perforated to provide air flow to the heat/AC unit mounted beneath the seat. This is required for efficiency, serviceability, and safety.

Many O.E.M. chassis builders provide tap-in points for the converter-added heat/AC unit behind the driver's seat. Therefore, system efficiency is higher when the hot water from the chassis is pumped to the area beneath the attendant's seat. Efficiency is not lost by pumping the water over an extended distance or up to ceiling level. Such a condition would naturally result in reduced patient area temperature levels as excessive flow resistance would be present.

The attendant's seat shall be installed on a hinged top cover for the aluminum heat/AC system housing. This allows the seat to be hinged forward and out of the way for service work. The unit will be accessible by removing three bolts located behind the seat and lifting the seat forward as opposed to dismantling cabinetry, etc.

In the unlikely event of a system leak the specified installation location will allow the leakage to run out onto the ground. Systems that are installed above cabinetry may leak into the cabinets, thus ruining the cabinets (if they are wood) and the cabinet contents.

#### **FILTRATION SYSTEM:**

A replaceable carbon filter shall be installed at the air intake area of the heat/AC system. Replacement of the filter shall be simple, and shall require very little time so as to assure that the vehicle will not have to be taken out of service. Replacement filters shall be readily available and shall be capable of being cut to the proper size to fit the vehicle.

#### **AIR FLOW:**

The installation of the heat/AC system shall include an air duct system to direct the airflow in such a way as to provide uniform temperature levels throughout the patient compartment. Air intake shall be from the floor level. The air shall be channeled through a duct that is aft of the heat/AC unit. The air shall exit through adjustable vents at the ceiling level above the attendant's seat. This design will allow for a circular flow of air throughout the patient compartment.

The specified design will separate the intake and exhaust ports. Separation of the intake and exhaust will decrease air turbulence and improve overall efficiency of the system. Systems that combine intakes and exhausts within the same grille work will not be acceptable.

#### **DUCTED HEAT/AC UNIT:**

The heat/AC unit shall be located over the forward upper portion of the streetside wall to allow for ducted air above the main cabinet wall.

**12V HEAT/AC SYSTEM:**

The 12V heat/AC system shall be installed per the instructions listed above. This system shall be designed to be independent from the chassis O.E.M. A/C system. At no point shall the converter-added A/C system tap into the O.E.M. system. The system provided shall include an evaporator, compressor, and a top-mount condenser. The BTU and CFM ratings on this unit shall be as follows:

Heat: 65,000BTU  
A/C: 32,000BTU  
CFM: 650

**DUAL A/C SYSTEM:**

The manufacturer shall provide and install a dual 12V A/C system as noted below. This system shall include a second evaporator and a 3-fan condenser and shall be run off of the auxiliary A/C compressor. This second system shall include a separate 'High/Low' function. This second unit shall operate as A/C only and shall provide an additional 32,000 BTUs and 650 CFMs over and above the manufacturer's standard package.

CONTROL AC SYSTEM THROUGH I4G SYSTEM.

LOCATE: HEAD OF BENCH, ANGLED TOWARDS REAR – MOVE THE UNIT 3.5" REARWARD TO REDUCE INTERFERENCE WITH SIDE ENTRY.

NOTE: MAXCOOL CABINET TO BE SMALLER THAN STANDARD. CABINET TO BE 20" DEEP BY 25" WIDE. SHIFT CABINET TOWARD THE OVERHEAD BENCH CABINET AND EXTEND SIDE ENTRY CLOSEOUT OVER TO MAXCOOL CABINET.

**HEAT/AC INTAKE FILTER:**

A three-ply air filter shall be installed at the heat/AC air intake point. This filter shall not be made of paper products. The filter is to include an internal wire frame and is to be constructed with a self-gasketing perimeter to prevent leaks. This filter is to be used in lieu of any other filters that the manufacturer may typically provide.

LOCATE: FOR DUCTED HEAT/AC AND MAXCOOL UNITS.

NOTE THESE ARE SLIDE IN STYLE FOR EASE OF SERVICE.

**VENTING SYSTEM:**

Install a 400cfm exhaust and a static intake vent. Each vent cover is to the 9.5" square and is to feature a polished finish.

**CAB CONSOLE AND COMMUNICATIONS:**

The vehicle communications and console features are designated below:

**ANTENNA COAX #1:**

An RG 58U coax shall be installed. A removable access plate in the patient area ceiling shall be provided for access to the exterior termination point located on the module body roof. Under no circumstances shall the vehicle design necessitate disassembly of the interior finish work to access the coax termination point. The coax shall terminate at the following locations:

EXTERIOR TERMINATION: LEFT SIDE OF CAB ROOF  
INTERIOR TERMINATION: BEHIND DRIVER SEAT

**ANTENNA COAX #2:**

A second RG 58U coax shall be installed. A removable access plate in the patient area ceiling shall be provided for access to the exterior termination point located on the module body roof. Under no circumstances shall the vehicle design necessitate disassembly of the interior finish work to access the coax termination point. The coax shall terminate at the following locations:

EXTERIOR TERMINATION: RIGHT SIDE OF CAB ROOF  
INTERIOR TERMINATION: UPPER PORTION OF VERTICAL CABINET BEHIND  
ATTENDANT SEAT

**ANTENNA COAX #3:**

A third RG 58U coax shall be installed. A removable access plate in the patient area ceiling shall be provided for access to the exterior termination point located on the module body roof. Under no circumstances shall the vehicle design necessitate disassembly of the interior finish work to access the coax termination point. The coax shall terminate at the following locations:

EXTERIOR TERMINATION: CENTER MODULE ROOF  
INTERIOR TERMINATION: FRONT RADIO CONSOLE

**CAB CONSOLE:**

A console shall be installed in the cab. The console shall be installed at floor level and shall allow space for siren and radio head installation. The console shall be color coordinated with the cab interior. The top of the console shall be on a slant and shall house the recessed emergency control panel and integral digital display. Under no circumstances shall the console interfere with the OEM vehicle controls or gauges, nor shall the control panel be installed in such a manner as to interfere with either the OEM vehicle controls, gauges, or the driver's line of vision.

REINFORCE PASSENGER SIDE OF CONSOLE FOR FUTURE MDT MOUNT.

LOCATE THE CONTROL PANEL IN THE FORWARD CONSOLE SECTION.

INSTALL CUSTOMER SUPPLIED MOTOROLA AND ICOMM RADIO HEADS IN CONSOLE



**CONSOLE EXTENSION:**

An aluminum console extension shall be fabricated and installed in the vehicle cab. The extension shall attach to the front console and shall include a location to mount siren and/or radio heads, as well as three slots for storage of map books and binders. The console extension shall be covered in black Scorpion material to compliment the interior cab color.

INSTALL (3) 2.50" MAP SLOTS, AND (1) APPROX. 5.00" SLOT PER DRAWING.

INCLUDE A PERFORATED VENT ON EACH SIDE OF THE CONSOLE FOR THE 5" SLOT AREA.

INSTALL (2) FLIP-DOWN CUP HOLDERS ON THE REAR OF THE CONSOLE.

EXTEND CONSOLE AS CLOSE TO MODULE AS POSSIBLE

**RADIO POWER/GROUND:**

The vehicle manufacturer shall install heavy gauge cable B positive and ground for radio power. Termination is to be to insulated studs.

LOCATE: BULKHEAD WALL BEHIND PASSENGER SEAT  
INSIDE CONSOLE  
BEHIND INHALATION PANEL

CONFIGURE: BATTERY HOT, IGNITION SWITCHED AT ALL LOCATIONS

**SPECIAL INSTRUCTION, CAB CONSOLE & COMMUNICATIONS:**

NOTE: INSTALL CUSTOMER SUPPLIED RADIO HEADS IN CONSOLE AND ANTENNAS ON THE CAB ROOF

NOTE: CUSTOMERS ARE TO LOCATE SPEAKERS AT INSPECTION

**OXYGEN AND SUCTION SYSTEMS:**

Reliability, safety, and ease of operation are essential characteristics of the onboard oxygen and suction systems. System design must meet the following minimum guidelines. Bidders are asked to respond to each section appropriately per the bid requirements and to explain any variations to these requirements.

**SWITCHING FOR OXYGEN AND SUCTION:**

The rear switch panel shall contain two switches labeled "OXYGEN" and "VACUUM". Each of these switches shall electrically activate those respective systems. That activation shall be instantaneous. Systems that are not instantaneously responsive to their activation will not be considered.

**SYSTEM DESIGN:**

A single piece manifold assembly shall serve as the basis for the oxygen delivery system. The manifold assembly shall incorporate ports for installation of O2 lines to all specified outlets, an electrically activated oxygen delivery solenoid, and a manual bypass valve. The assembly shall be installed behind the inhalation panel and shall be easily accessible.

**ELECTRICAL OXYGEN ACTIVATION:**

The switch, located on the rear control panel and labeled "OXYGEN", shall activate the solenoid. This design will allow for the instantaneous flow of oxygen while eliminating the need to manually turn a valve to initiate oxygen flow.

**MANUAL BYPASS:**

The oxygen solenoid shall be equipped with a manual bypass valve. Located behind the inhalation panel, the valve shall be easily accessible so that, in the unlikely event of an electrical failure, administration of oxygen may continue.

**SYSTEM REGULATION:**

The patient area shall be free of high pressure oxygen lines. To accomplish this the vehicle converter shall install a KKK approved regulator at the oxygen cylinder. The regulator shall include an integral dial type gauge to monitor the cylinder contents. A single low pressure line shall be installed from the regulator to the O2 manifold assembly. This method shall insure that all high pressure is maintained in an exterior compartment away from the interior patient area.

**OXYGEN LINES:**

The O2 line connecting the regulator to the manifold assembly shall be rated at 200 psi working pressure and 1,250 psi burst pressure. The line shall be UL approved. There shall be NO connections installed in the line between the regulator and manifold assembly as these create a possibility for leakage. All connections shall be DISS style and shall be specific to the gas being supplied.

**LINE PROTECTION:**

The O2 line shall be protected from crimping through the installation of a flexible spring guard on the portion of the line in the cylinder storage compartment.

**SYSTEM MONITORING:**

The condition of the oxygen system shall be continually monitored and reported to the vehicle operators through the vehicle's onboard electrical system. Readouts containing the information listed below shall be available primarily at the patient area control console. The secondary location for availability of this information shall be the cab console. The information available shall include the following:

- Cylinder Pressure
- Line Pressure

In addition, this system shall be designed to offer a warning, both audible and visual, if the condition of the oxygen system falls outside of the following pre-programmed parameters:

- Low Cylinder Pressure (500 psi or below)
- Low Line Pressure (40 psi or below)
- High Line Pressure (75 psi or above)

These oxygen system warnings shall immediately notify the personnel of a problem, again, via a readout and audible alarm. The system shall require the personnel to acknowledge receipt of the information.

**PRELIMINARY SYSTEM TESTING:**

The oxygen system shall be tested prior to installation in the vehicle. This test shall be performed by the vehicle manufacturer and shall subject the system to three times (3X) the working pressure. This test shall be conducted for a minimum of four (4) hours.

**FINAL SYSTEM TESTING:**

The completed system shall be tested again once it is installed in the vehicle. This test shall be performed at working pressure for a minimum of four (4) hours. After the system has passed the inspection process it shall be capped and tagged per Federal KKK specifications.

**ADDITIONAL OXYGEN AND VACUUM SUPPLIES:**

The oxygen and suction systems shall be complete upon delivery with the exception of the O2 cylinder. The cylinder shall be supplied and installed by the purchaser after delivery of the vehicle has taken place.

**OXYGEN BOTTLE MOUNT, VERTICAL TRACK FOR QRM-V:**

Vertical track for mounting of a QRM-V O2 bottle mount shall be welded on the back wall of the compartment in the right hand corner. The O2 bottle mount is adjustable for "M" or "H" size tanks.

SIZE TRACKS FOR "M" TRACKS ONLY

**ZICO QRM-V CYLINDER BRACKET:**

A Zico QRM-V oxygen cylinder bracket shall be installed in the main O2 compartment.

Locate: STREETSIDE FORWARD  
Tank Size: "M"

**OXYGEN OUTLETS:**

Two oxygen outlets shall be installed in the rear inhalation panel unless otherwise noted below.

**ADDITIONAL OXYGEN OUTLETS:**

Additional oxygen outlets shall be installed as noted below.

Quantity: 1  
LOCATE: BENCH OVERHEAD CABINET REAR OF THE MAX COOL

**OHIO MEDICAL OXYGEN AND SUCTION OUTLETS:**

The oxygen and suction outlets installed in the vehicle shall be Ohio Medical Quick Connect style outlets.

**FLOWMETER:**

Dial type flowmeter(s), in the quantity listed below, shall be supplied with the completed vehicle. Each flowmeter shall be supplied with a mating quick connect adapter. The flowmeter shall provide a maximum flow of 25 LPM.

Quantity: 1

**CYLINDER WRENCH:**

A cylinder wrench shall be installed inside the oxygen compartment. The wrench shall be installed in such a way as it will not move or rattle. The wrench shall be chained to the compartment so that it cannot be removed, however, the chain must not interfere with the operation of the wrench.

**PRIMARY VACUUM OUTLET:**

A single vacuum panel shall be installed in the inhalation area. The outlet shall be of the same style as those of the oxygen system and shall be connected to the onboard vacuum pump.

LOCATE: INHALATION WALL PER DRAWING

**SSCOR ASPIRATOR:**

The manufacturer shall furnish and install an SSCOR suction system. The system shall include a #22000 wall-mounted regulator, and a #23002 canister holder. The aspirator shall be accessible for use from the inhalation area per the attached prints and plumbed to the pump described below.

**VACUUM PUMP:**

The aspirator system shall be operated through a CAPL #D34 SE (T282) 12V vacuum pump that is located inside an exterior compartment. The pump shall be activated by a switch on the inhalation area electrical control panel.

**LETTERING:**

Lettering information is noted in detail below:

**LETTERING DESIGN:**

This specification calls for lettering to be supplied and installed by the successful bidder. The lettering layout is summarized within this section and broken down by location in the sections below. Information relative to lettering material, size, color, font, or any other special requirements is also listed in the following sections. The lettering layout is to be as follows:

Color: AVERY ENGINE TURNED GOLD

Style: COMPUTER CUT

COPY EXISTING FLEET TO INCLUDE REAR CHEVRON.

**CUSTOM LETTERING:**

The successful bidder shall supply and install the lettering described below. The locations for the installation are noted in the "Layout" section of these specifications. This lettering is not typically provided as a standard lettering style by most manufacturers. Therefore, it has been deemed to be custom. The purchaser will provide photographs and, when possible, artwork pertaining to this lettering to the successful bidder. A Mylar laminate shall then be applied to the lettering's surface in order to protect against scuffing, and to provide added longevity. Lettering that does not have this protective covering will not be acceptable.

SUPPLY/INSTALL A WHITE VINYL OVERALL HEIGHT STICKER IN DRIVER SIDE FRONT WINDOW.

Optional Rescue Pricing  
City of Pembroke Pines Chevy Gas 3500 Chassis option

Current Freightliner M2 Chassis / 623 Body Price	\$ 273,664.00
Delete Freightliner M2 chassis	-\$ 75,822.00
Delete Pembroke Pines Horton 623 Body	-\$197,842.00
Add Pembroke Pines Horton 457 Body Configuration	+\$121,775.00
Add Chevrolet Gas 3500 chassis	<u>+\$ 31,500.00</u>

**Optional Price Chevy 3500 / Horton 457      \$153,275.00**



**Ford Motor Company**

*Is proud to recognize*

*Horton Emergency Vehicles (REV)*

*as a participant in the*

*Ambulance*

*Qualified Vehicle Modifier Program*



A handwritten signature in blue ink that reads "Randy M. Freiburger".

Randy M. Freiburger -- SVE Quality Programs Mgr.

**November, 2015**

## Item 1 Safety Certification

The bidder must perform and certify to dynamic sled or impact testing run on the ambulance body to a load of 30 G's. The body tested shall include normally installed components for each of the following areas of the vehicle. The body structure and installed components shall not show evidence of structural failure or separation from its mounted position as a result of the test. All test results must be witnessed and verified by a Registered Professional Engineer.

	Test Required	Date Tested	Body Test Force Applied	Signed By
1.	Body to Chassis Mounting	4/20/06	30 G's	<u>L. Dubois</u>
2.	Access Door Latching	4/20/06	30 G's	<u>L. Dubois</u>
3.	Oxygen Cylinder Mount (Main)	4/20/06	30 G's	<u>L. Dubois</u>
4.	Oxygen Cylinder Mount (Portable)	4/20/06	30 G's	<u>L. Dubois</u>
5.	Attendant Seat Mount	4/20/06	30 G's	<u>L. Dubois</u>
6.	Attendant Seat Belt	4/20/06	30 G's	<u>L. Dubois</u>
7.	CPR Seat Belt	4/20/06	30 G's	<u>L. Dubois</u>
8.	Squad Bench Seat Belt	4/20/06	30 G's	<u>L. Dubois</u>
9.	Retention of Main Cabinet Wall	4/20/06	30 G's	<u>L. Dubois</u>
10.	Crash Restraint Wall At Head of Bench	4/20/06	30 G's	<u>L. Dubois</u>

## Certification of Registered Professional Engineer

I L. Gregory Dubois attest that I am a Registered Professional Engineer registered in the State of Ohio. My Registration Number is 47216.

I hereby certify that I and my company, its affiliates and subsidiaries are completely independent of all manufacturers, suppliers, and vendors in the ambulance industry..

Signature L. Dubois  
 Company CTL Engineering, Inc  
 Date June 22, 2006





# Crash Test Documentation





March 14, 2007



Mr. Malley  
Horton Emergency Vehicles  
3800 McDowell Road  
Grove City, OH 43123

Dear Mr. Malley

18881 US 31 North  
P.O. Box 1020  
Westfield, Indiana  
46074-1020

Phone  
(317) 896-9531  
Fax  
(317) 867-2305

This document is to confirm that on February 22, 2007, IMMI's Center for Advanced Product Evaluation (CAPE) witnessed the dynamic roof pre-load, static roof load and dynamic rear impact tests as regulated by ECE R29, SAE J2422 and SAE J2420 on a Horton Emergency Vehicles ambulance box. The events were documented with photographs, real-time and high-speed video, vehicle accelerometers, cart accelerometers and a laser speed trap.

This document also reports that the Horton Emergency Vehicles ambulance box is in compliance with the requirements and intent of standards ECE R29, SAE J2422 and SAE J2420. Whereby, the testing with regard to the above-mentioned standards was carried out by CAPE on February 22, 2007 at IMMI's Center for Advanced Product Evaluation in Westfield, Indiana.

Sincerely,

James R. Chinni P.E.  
Director of CAPE

Ref: CTR02181





Corner Impact Test

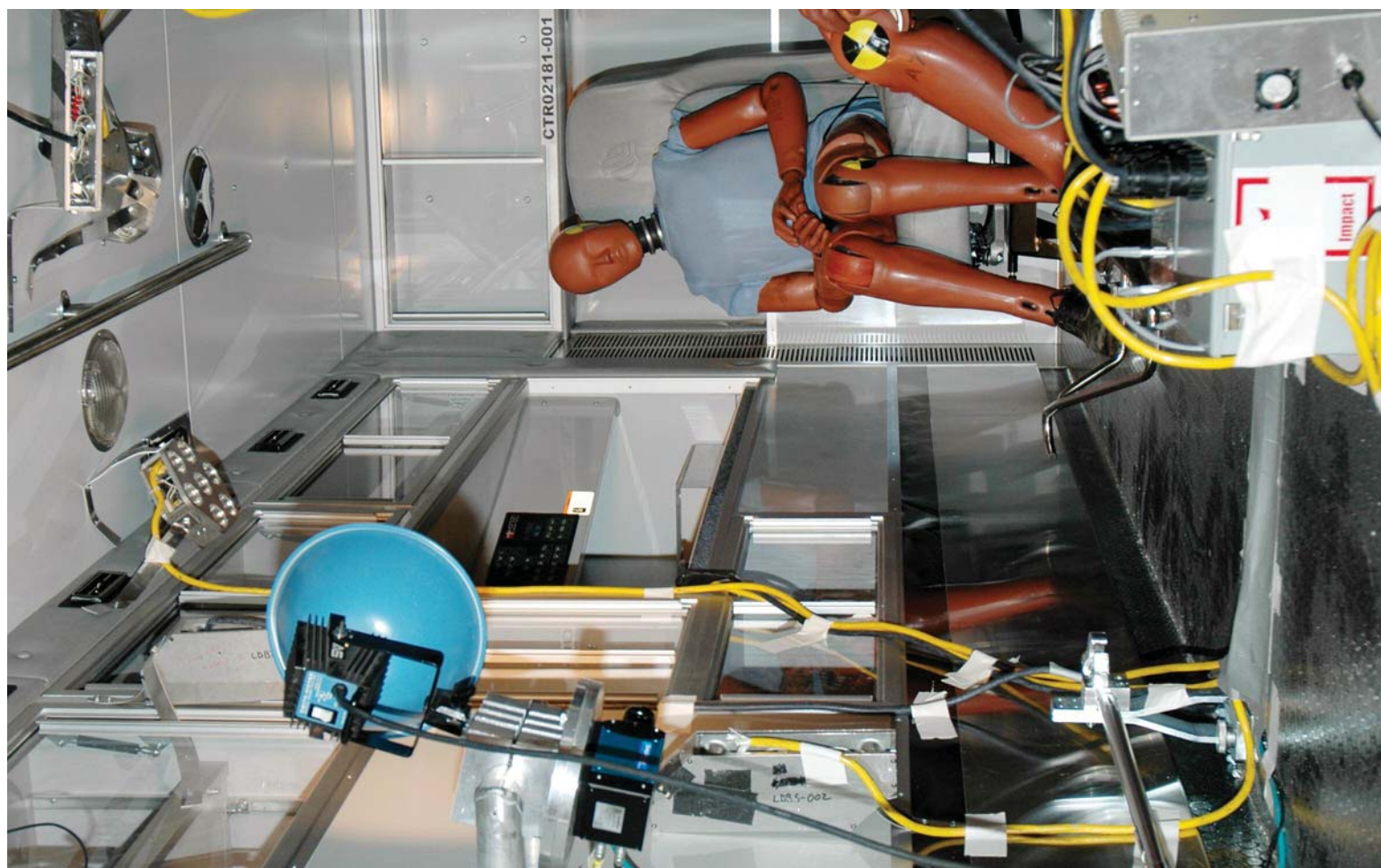


Rear Impact Test



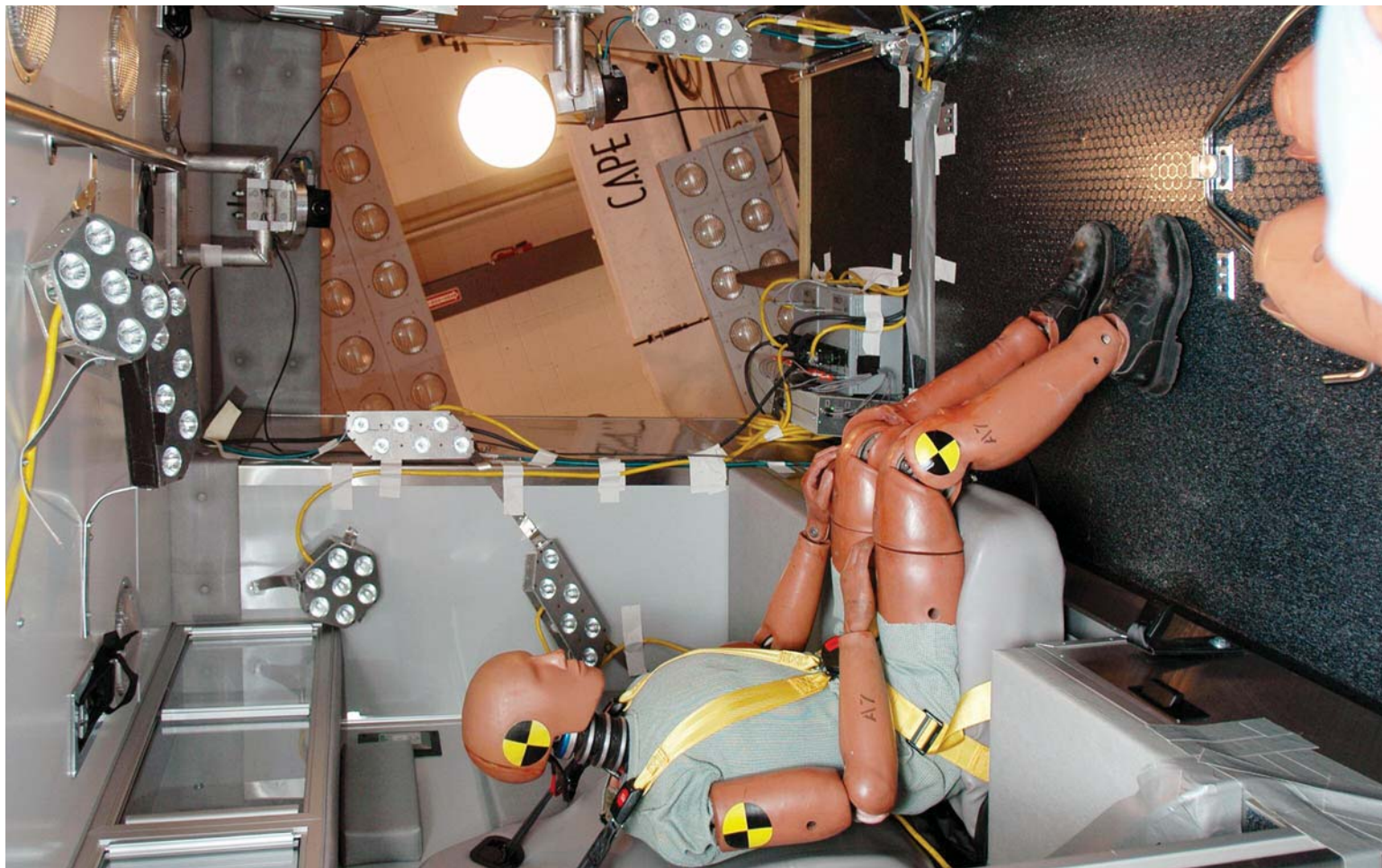


Dynamic Roof Pre-Load

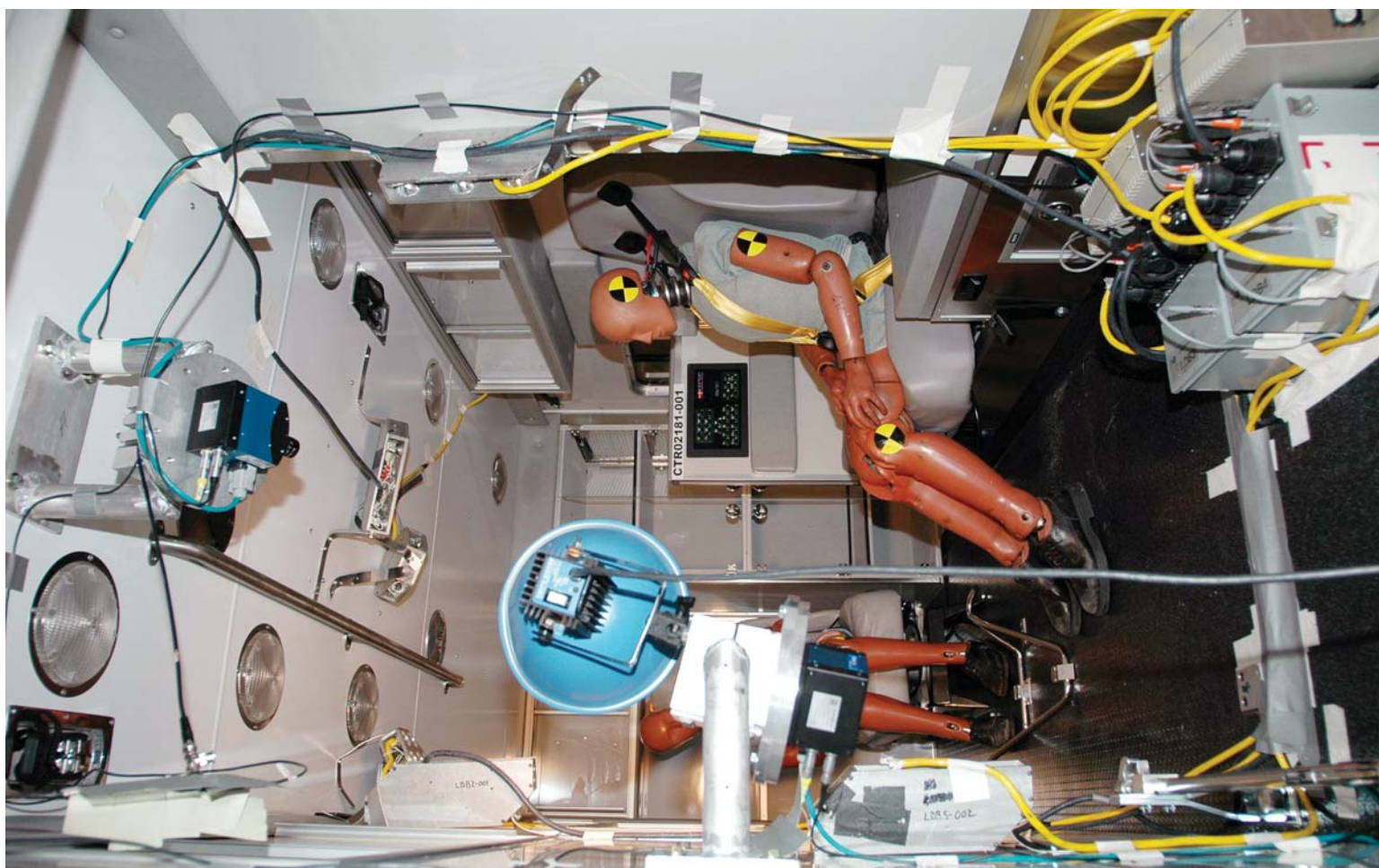


Attendant Seat -- Impact Test





Five Point Harness, Bench Seat -- Impact Test



Five Point Harness, Bench Seat -- Impact Test



## Item 1 Safety Certification

The bidder must perform and certify to dynamic sled or impact testing run on the ambulance body to a load of 30 G's. The body tested shall include normally installed components for each of the following areas of the vehicle. The body structure and installed components shall not show evidence of structural failure or separation from its mounted position as a result of the test. All test results must be witnessed and verified by a Registered Professional Engineer.

	Test Required	Date Tested	Body Test Force Applied	Signed By
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4.	Oxygen Cylinder Mount (Portable)	4/20/06	30 G's	<u>L. Dubois</u>
5.	Attendant Seat Mount	4/20/06	30 G's	<u>L. Dubois</u>
6.	Attendant Seat Belt	4/20/06	30 G's	<u>L. Dubois</u>
7.	CPR Seat Belt	4/20/06	30 G's	<u>L. Dubois</u>
8.	Squad Bench Seat Belt	4/20/06	30 G's	<u>L. Dubois</u>
9.	Retention of Main Cabinet Wall	4/20/06	30 G's	<u>L. Dubois</u>
10.	Crash Restraint Wall At Head of Bench	4/20/06	30 G's	<u>L. Dubois</u>

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I L. Gregory Dubois attest that I am a Registered Professional Engineer  
registered in the State of Ohio. My Registration Number is 47216.

I hereby certify that I and my company, its affiliates and subsidiaries are completely independent of all manufacturers, suppliers, and vendors in the ambulance industry..

Signature L. Dubois  
Company CTL Engineering, Inc  
Date June 22, 2006



**Horton Emergency Vehicles  
2006 623 Modular Ambulance  
Flat Frontal Impact Simulation  
VI Tech Mounting System  
Test Numbers: S060420**













## DEMONSTRATOR WARRANTY TRANSFER

Warranties are valid for parts installed by Horton Emergency Vehicles as listed on the "Final Build Specifications" for this vehicle. All other parts are excluded.

Name of Original Owner \_\_\_\_\_

Name of New Owner \_\_\_\_\_

Phone Number \_\_\_\_\_

Email Address \_\_\_\_\_

Address \_\_\_\_\_

Address 2 \_\_\_\_\_

City/State/Zip Code \_\_\_\_\_

Horton Vehicle Identification Number \_\_\_\_\_

Chassis VIN \_\_\_\_\_

Date of the Change of Ownership \_\_\_\_\_ Mileage at the Change of Ownership \_\_\_\_\_

Print Name \_\_\_\_\_

Title \_\_\_\_\_

Signature (new owner) \_\_\_\_\_

This form must be submitted to Horton Emergency Vehicles within 30 days of the transfer of ownership.

Mail, Email, or Fax to:

Warranty Administrator      warranty@hortonambulance.com  
Horton Emergency Vehicles      fax (800) 513-8192  
3800 McDowell Road  
Grove City, Ohio 43123

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

REV 05\_17\_16



p: 614.539.8181

tf: 800.282.5113

f: 800.513.8192

warranty@hortonambulance.com

hortonambulance.com

## WARRANTY REGISTRATION

*This form must be completed and submitted to Horton when the vehicle is put into service by the purchaser / user (owner). The form must be completed in its entirety with all the requested information provided.\**

Horton Prod. Number \_\_\_\_\_ In-Service Date \_\_\_\_\_

Dealer \_\_\_\_\_

Owner _____		
Address _____		
City _____	State _____	ZIP _____
Phone _____	Email _____	

Dealer Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_

Print \_\_\_\_\_

Owner Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_

Print \_\_\_\_\_ Title \_\_\_\_\_

*Submitting this form indicates that the Dealer and Owner have read, understand, and accept the terms of the Horton warranty as detailed on the warranty certificates. If this form is not submitted, the warranty start date will be considered to be the date encoded in the Horton VIN as listed on the yellow complete vehicle sticker located on the driver's side chassis door.*

*\* This form is not for use with former demonstrator units. Use the "Demonstrator Warranty Transfer" form.*

Mail, Email, or Fax to:

Warranty Administrator

Horton Emergency Vehicles

3800 McDowell Road

Grove City, Ohio 43123

Email: warranty@hortonambulance.com

Fax: (800) 513-8192

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period. REV 05\_17\_16



p: 614.539.8181  
tf: 800.282.5113  
f: 800.513.8192  
warranty@hortonambulance.com  
hortonambulance.com

## WARRANTY TRANSFER

*Warranties are valid beginning from the date of the original purchase and expire at the conclusion of the original warranties' terms.  
Warranties are valid for parts installed by Horton Emergency Vehicles as listed on the "Final Build Specifications" for this vehicle. All other parts are excluded.*

Name of Original Owner \_\_\_\_\_

Name of New Owner \_\_\_\_\_

Address \_\_\_\_\_

Address 2 \_\_\_\_\_

City/State/Zip \_\_\_\_\_

E-Mail \_\_\_\_\_

Horton Vehicle Identification Number \_\_\_\_\_

Chassis VIN \_\_\_\_\_

Date of the Change of Ownership \_\_\_\_\_

Mileage at the Change of Ownership \_\_\_\_\_

Signature (new owner) \_\_\_\_\_

Print Name \_\_\_\_\_

Title \_\_\_\_\_

This form must be submitted to Horton Emergency Vehicles within 30 days of the transfer of ownership.

Mail, Email, or Fax to:

Warranty Administrator  
Horton Emergency Vehicles  
3800 McDowell Road  
Grove City, Ohio 43123  
Email: warranty@hortonambulance.com  
Fax: (800) 513-8192

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or beach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period. REV 05\_17\_16

## COOL-TECH WARRANTY

The Cool-Tech HVAC systems are warranted for three (3) years from the date of manufacture or 36,000 miles, whichever occurs first.

The Cool-Tech II solar panel is warranted ten (10) years from the date of manufacture or 100,000 miles, whichever occurs first.

The repairs must be made by HEVC or an HEVC-authorized party.

This warranty will not cover defects caused by misuse, negligence, or accident. HEVC's warranty does not cover travel expenses, towing charges, mileage, downtime, or personnel time associated with warrant repairs. HEVC shall have no obligation to provide a replacement vehicle.

HEVC shall determine the extent of warranty repairs.

Horton Emergency Vehicles reserves the unrestricted right at any time, and from time to time to make changes in the design of, and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

This manufacturer's warranty is provided in place of any and all other representations or express or implied warranties, including the implied warranty of merchantability. No person is authorized to make any other or further representation or warranty on behalf of Horton Emergency Vehicles or its Dealers. Your right to service and replacement of parts on the terms expressly set forth herein are your exclusive remedies and neither the manufacturer nor any of its Dealers shall be liable for damages, whether ordinary, incidental, or consequential.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period. REV 05\_17\_16



## DEMONSTRATOR VEHICLE SALE WARRANTY

Horton Emergency Vehicles (HEVC) hereby warrants each HEVC demonstrator vehicle purchased after June 1, 2013, that all material and workmanship incorporated in an HEVC demonstrator shall be free of defects.

The warranty extends to features installed by HEVC as listed in the "Final Build Specifications" for this vehicle. All other parts are excluded.

**When a demonstrator is sold within one (1) year from the date of completion as determined by the vehicle's HEVS Final Manufacturer's Certification Plate, HEVC shall allow the following warranties to be in effect under the following conditions:**

- The application for this warranty must be made through the completion and the submittal of the "Demonstrator Warranty Transfer" form to the Warranty Manager / Horton Emergency Vehicles. *Warranty claims based upon this warranty will not be approved without the submitted form.*
- The terms, conditions, and coverage of the warranty are specified in the original manufacture warranty documents as provided in the HEVC Owner's Manual.
- The term of the conversion warranty shall be a period of two (2) years or 24,000 miles from date of the sale.
- The term of the electrical systems warranty shall be a period of seven (7) years or 100,000 miles from the date of the sale.
- The term of the stationary wiring harness shall be a period of ten (10) years from the date of the sale.
- The term of the paint warranty shall be a period of seven (7) years from the date of manufacture or 84,000 miles prorated as follows:
  - 0 – 4 years
  - 4 – 5 years
  - 5 – 6 years
  - 6 – 7 years
- The structural warranty of major components shall be thirty (30) years from the original manufacture date.
- The ProAir warranty terms are specified in the ProAir warranty document and are not covered by this warranty.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or beach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

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## ELECTRICAL SYSTEMS WARRANTY

**Wiring:** The stationary wiring harness is warranted for ten (10) years from the date of manufacture including, broken, chafed or pinched wires, and defective splices. Connections at electrical devices are not included in this ten (10) year warranty.

**IntelliPLEX:** The IntelliPLEX solid state electrical system is warranted for seven (7) years from the date of manufacture or until the vehicle has been driven 100,000 miles, whichever occurs first, including all circuit boards, circuit board components, and circuit board connections.

All other components are warranted for a period of two (2) years from the date of manufacture or until the vehicle has been driven 24,000 miles, whichever occurs first.

**IntelliPLEX i4G:** The IntelliPLEX i4G solid state electrical system is warranted for ten (10) years from the date of manufacture or until the vehicle has been driven 100,000 miles, whichever occurs first, including all circuit boards, circuit board components, and circuit board connections.

The IntelliPLEX i4G control panels are warranted for seven (7) years from the date of manufacture or until the vehicle has been driven 100,000 miles, whichever occurs first.

All other components are warranted for a period of two (2) years from the date of manufacture or until the vehicle has been driven 24,000 miles, whichever occurs first.

These warranties extend only to standard Horton Emergency Vehicles (HEVC) features and published standard HEVC options. Special options and features that are not part of HEVC's published options list shall be subject to such warranty, if any, as HEVC may designate in writing for each specific case.

HEVC's warranty does not include the chassis, chassis parts, or any components or equipment manufactured by others and not installed by HEVC, all of which are the subject of warranties issued by other parties. The warranty does not include normal-wear parts such as tires, batteries, bulbs, or upholstery. Warranty coverage of special option components will be considered on a case-by-case basis with the terms given in writing. Warranty coverage is based upon reasonable maintenance and prompt notification of defects. This warranty will not cover defects resulting from misuse, negligence, accident, or overloading the vehicle beyond its weight rating. All warranty repairs must be made by HEVC or an HEVC-authorized party. This warranty does not cover work that was not performed by HEVC or an HEVC-authorized party.

HEVC's warranty does not cover travel expenses, towing charges, mileage, downtime, or personnel time associated with warranty repairs. HEVC shall have no obligation to provide a replacement vehicle.

HEVC shall determine the extent of warranty repairs.

HEVC reserves the unrestricted right to, at any time and from time to time, make changes in the design of and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

Within sixty (60) days of transfer of HEVC vehicle ownership by the original purchaser, HEVC's warranty may be revalidated. Revalidation is contingent upon the original or subsequent owner completing vehicle inspection by HEVC or its authorized dealer and filing a warranty revalidation form available from HEVC.

Upon subsequent transfer of ownership, this warrant may be revalidated in the same manner, provided that it has been revalidated on each preceding transfer. The warranty is valid beginning from the date of original manufacture and expires at the conclusion of the original warranty term.

This manufacturer's warranty is provided in place of any and all other representations, or expressed or implied warranties including the implied warrant of merchantability. No person is authorized to make any other or further representation or warranty on behalf of Horton Emergency Vehicles or any of its dealers. Your right to service and replacement of parts on the terms expressly set forth herein are your exclusive remedies and neither the manufacturer nor any of its dealers shall be liable for damages, whether ordinary, incidental, or consequential.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

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## HORTON CONNECT WARRANTY

The Horton Connect system elements are warranted as follows:

- Wi-Fi module: Three (3) years
- Antenna: One (1) year
- Cellular modem: One (1) year

Any repairs must be made by HEVC or an HEVC-authorized party.

This warranty will not cover defects caused by misuse, negligence, or accident. HEVC's warranty does not cover travel expenses, towing charges, mileage, downtime, or personnel time associated with warrant repairs. HEVC shall have no obligation to provide a replacement vehicle.

HEVC shall determine the extent of warranty repairs.

Horton Emergency Vehicles reserves the unrestricted right at any time, and from time to time to make changes in the design of, and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

This manufacturer's warranty is provided in place of any and all other representations or express or implied warranties, including the implied warranty of merchantability. No person is authorized to make any other or further representation or warranty on behalf of Horton Emergency Vehicles or its Dealers. Your right to service and replacement of parts on the terms expressly set forth herein are your exclusive remedies and neither the manufacturer nor any of its Dealers shall be liable for damages, whether ordinary, incidental, or consequential.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period. REV 05\_17\_16

## REMOUNT of NON-HORTON VEHICLE WARRANTY

Remounts performed by HEVC on vehicles that were not originally manufactured by HEVC are warranted for one (1) year from the date of the remount (as noted on the Final Manufacturer's Certification Plate) or 24,000 miles, whichever occurs first.

These warranties extend only to standard HEVC features incorporated during the remount process and published standard HEVC options.

HEVC's warranty does not include the chassis or chassis parts. The warranty does not include normal-wear parts such as tires, batteries, bulbs, or upholstery. Warranty coverage of special options components will be considered on a case-by-case basis with the terms given in writing. Warranty coverage is based upon reasonable maintenance, prompt notification of defects. This warranty will not cover defects resulting from misuse, negligence, accident, or overloading the vehicle beyond its weight rating. All warranty repairs must be completed by HEVC or a HEVC-authorized party. This warranty does not cover work that was not performed by HEVC.

HEVC's warranty does not cover travel expenses, towing charges, mileage, downtime, or personnel time associated with warranty repairs. HEVC shall have no obligation to provide a replacement vehicle.

HEVC shall determine the extent of warranty repairs.

Horton Emergency Vehicles reserves the unrestricted right at any time, and from time to time to make changes in the design of, and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

This manufacturer's warranty is provided in place of any and all other representations or express or implied warranties, including the implied warranty of merchantability. No person is authorized to make any other or further representation or warranty on behalf of Horton Emergency Vehicles or its Dealers. Your right to service and replacement of parts on the terms expressly set forth herein are your exclusive remedies and neither the manufacturer nor any of its Dealers shall be liable for damages, whether ordinary, incidental, or consequential.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

## NON-STRUCTURAL CONVERSION WARRANTY

Horton Emergency Vehicles' (HEVC) warranty extends two (2) years from the date of manufacture as noted on the HEVC final manufacturer sticker, or 24,000 miles, whichever occurs first.

These warranties extend only to standard HEVC features and published standard HEVC options. Special options and features not part of HEVC's published option list shall be subject to such warranty, if any, as HEVC may designate in writing to each specific case.

HEVC's warranty does not include the chassis, chassis parts or any components or equipment manufactured by others and installed by HEVC, all of which are subject to warranties issued by other parties. The warranty does not include normal-wear parts such as tires, batteries, bulbs, or upholstery. Warranty coverage of special options components will be considered on a case-by-case basis with the terms given in writing. Warranty coverage is based upon reasonable maintenance and prompt notification of defects. This warranty will not cover defects resulting from misuse, negligence, accident, or overloading the vehicle beyond its weight rating. All warranty repairs must be completed by HEVC or a HEVC-authorized party. This warranty does not cover work that was not performed by HEVC.

HEVC's warranty does not cover travel expenses, towing charges, mileage, downtime, or personnel time associated with warranty repairs. HEVC shall have no obligation to provide a replacement vehicle.

HEVC shall determine the extent of warranty repairs.

HEV's warranty covers the vehicle as delivered. Changes to the vehicle could change the structural integrity of the vehicle or damage equipment. Specific consent must be obtained from HEVC for the warranty to remain in effect.

Horton Emergency Vehicles reserves the unrestricted right at any time, and from time to time to make changes in the design of, and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

This manufacturer's warranty is provided in place of any and all other representations or express or implied warranties, including the implied warranty of merchantability. No person is authorized to make any other or further representation or warranty on behalf of Horton Emergency Vehicles or its Dealers. Your right to service and replacement of parts on the terms expressly set forth herein are your exclusive remedies and neither the manufacturer nor any of its Dealers shall be liable for damages, whether ordinary, incidental, or consequential.

Within sixty (60) days of transfer of ownership of an HEVC vehicle by the original purchaser, HEVC's warranty may be revalidated provided that the original or subsequent owner has the vehicle inspected by HEVC or its authorized dealer and complete and files a warranty revalidation form available from HEVC. Upon subsequent transfer of ownership, this warranty may be revalidated in the same manner, provided that it has been revalidated on each preceding transfer. The warranty is valid beginning from the date of the original manufacture and expires at the conclusion of the original warranty term.

Contact an authorized Horton dealer or representative to make arrangements for work to be completed locally or at Horton Emergency Vehicles. Occasionally a dealer may need to obtain authorization from HEVC for major repair work. Without Horton approval, any repairs complete may not be covered. All bills for service under warranty must be submitted to HEVC by an HEVC-authorized dealer. If you have any problems concerning service under warranty, please contact Horton Emergency Vehicles directly.



p: 614.539.8181

tf: 800.282.5113

f: 800.513.8192

[warranty@hortonambulance.com](mailto:warranty@hortonambulance.com)

[hortonambulance.com](http://hortonambulance.com)

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

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## PAINT WARRANTY

The paint finish is warranted seven (7) years from the date of manufacture or 84,000 miles prorated as follows:

0 – 4 years	=	100%
4 – 5 years	=	50%
5 – 6 years	=	35%
6 – 7 years	=	20%

Written notice of all defects must be given to HEVC or its authorized distributor before warranty work begins. Written approval must be received from HEVC. Paint repairs made without HEVC's written approval will not be paid by HEVC. The repairs must be made by HEVC or a party authorized by HEVC. The paint warranty extends only to Sikkens paint applied by HEVC to the module body. It does not extend to the chassis, chassis parts, or paint applied by the manufacturers of accessory parts. This warranty does not extend to and will not cover defects caused by misuse, negligence or accident.

HEVC's warranty does not cover travel expenses, towing charges, mileage, downtime, or personnel time association with warranty repairs. HEVC shall have no obligation to provide a replacement vehicle.

HEVC shall determine the extent of warranty repairs.

Horton Emergency Vehicles reserves the unrestricted right at any time, and from time to time to make changes in the design of, and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

This manufacturer's warranty is provided in place of any and all other representations or express or implied warranties, including the implied warranty of merchantability. No person is authorized to make any other or further representation or warranty on behalf of Horton Emergency Vehicles or its Dealers. Your right to service and replacement of parts on the terms expressly set forth herein are your exclusive remedies and neither the manufacturer nor any of its Dealers shall be liable for damages, whether ordinary, incidental, or consequential.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or beach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

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## PROAIR LIMITED WARRANTY

ProAir warrants every heating and cooling unit produced by ProAir and used in an ambulance converted by Horton Emergency Vehicles to be free from defects in material and workmanship under normal use for a period of thirty-six (36) months from final production date or thirty-six thousand (36,000) miles, whichever occurs first.

If a repair or adjustment under the warrant is required, the product should be taken to an authorized ProAir service center or, if possible, taken to the original installer. The owner's registration certificate should be presented.

The repairing service center must contact ProAir by calling 574-264-5494 or 800-338-8544, asking for the customer service department and describing the type of warranty repair needed. If warranty parts are needed, ProAir reserves the right to replace them. No warranty claims will be paid without the return of defective parts to ProAir.

If the ProAir service center is too far away, the customer may find a repair facility nearby and contact ProAir. ProAir will attempt to allow the repair facility authorization to address the concern.

This warranty does not cover any product which has been subject to misuse, neglect, alteration, accident, improper installation, improper maintenance, or which has been repaired outside of an authorized ProAir service center in any way so as to affect adversely its performance or reliability. This warranty does not cover material or labor used in normal maintenance services or the replacement of service items. Normal wear of service items shall not be considered defects under this warranty. This warranty does not cover customer lost time, vehicle towing, vehicle rental, or lodging.

This warranty does not include consequential damages, and ProAir shall not be responsible for any such damages. ProAir does not make and does not authorize any person to make for it any warranty other than the foregoing warranty. Such other warranties, if any as may be imposed or implied by law, are limited in duration to the duration of this written warranty.

Some states do not allow limitations on how long an implied warranty lasts, nor do they allow the execution or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply. This warranty gives specific legal rights and other rights which vary from state to state.

This warranty does not cover loss of refrigerant unless the loss is a direct result of a defect covered by this warranty.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

## HORTON WARRANTY PROGRAM OVERVIEW

### Warranty Terms, Conditions and Exclusions

The following description of the warranty terms, conditions, and exclusions is a summary of the warranty documents provided in the Horton Emergency Vehicles' owner's manual. Refer to those documents for a full description of Horton Emergency Vehicles' warranty.

The warranty start date is determined by the Horton serial number under "vehicle type" on the yellow "Final Manufacturer" sticker located on the chassis driver's side door post.

The Horton body builder's plate is located in the external compartment used for oxygen bottle storage. The warranty start date, listed as the "serial number", is used to determine warranty start date of the module body structural warranty.

Conversion Warranty: Horton Emergency Vehicles' (HEVC) warranty extends two (2) years from the date of manufacture as noted on the HEVC Final Manufacturer sticker or 24,000 miles, whichever occurs first. This applies to all vehicles with the following exceptions:

Wiring: The stationary wiring harness is warranted for ten (10) years from the date of manufacture including, broken, chafed or pinched wires, and defective splices. Connections at electrical devices are not included in this ten (10) year warranty.

IntelliPLEX: The IntelliPLEX solid state electrical system is warranted for seven (7) years from the date of manufacture or until the vehicle has been driven 100,000 miles, whichever occurs first, including all circuit boards, circuit board components, and circuit board connections.

IntelliPLEX i4G: IntelliPLEX i4G: The IntelliPLEX i4G solid state electrical system is warranted for ten (10) years from the date of manufacture or until the vehicle has been driven 100,000 miles, whichever occurs first, including all circuit boards, circuit board components, and circuit board connections.

The IntelliPLEX i4G control panels are warranted for seven (7) years from the date of manufacture or until the vehicle has been driven 100,000 miles, whichever occurs first.

All other components are warranted for a period of two (2) years from the date of manufacture or until the vehicle has been driven 24,000 miles, whichever occurs first.

Paint: The paint finish is warranted seven (7) years from the date of manufacture or 84,000 miles prorated as follows:

- 0 – 4 years
- 4 – 5 years
- 5 – 6 years
- 6 – 7 years

Written notice of all defects must be given to HEVC or its authorized distributor before warranty work begins. Written approval must be received from HEVC. Paint repairs made without HEVC's written approval will not be paid by HEVC. The repairs must be made by HEVC or a party authorized by HEVC. The paint warranty extends only to Sikkens paint applied by HEVC to the module body. It does not extend to the chassis, chassis parts, or paint applied



by the manufacturers of accessory parts. This warranty does not extend to and will not cover chips, scratches, or gloss reduction due to normal use. This warranty will not cover defects caused misuse, negligence, or accident.

**Structural:** The module body, manufactured by HEVC, is warranted thirty (30) years from the date of manufacture as determined by the HEVC body build plate mounted in the module body. All exterior doors and hinges are warranted against structural defects and that they will remain in proper adjustment for thirty (30) years. Interior aluminum cabinetry is warranted against structural defects for thirty (30) years. Written approval must be given by HEVC prior to the repairs beginning on items covered by this warranty. Unauthorized work will make this warranty void and unenforceable.

**Remounts:** Remounts performed by HEVC are warranted for one (1) year from the date of the remount or 24,000 miles, whichever occurs first. If the ambulance body is rechassis by HEVC during the original warranty period, the structural warranty will be revalidated an additional five (5) years from the expiration of the original warranty period. Bodies rechassis subsequent times will be warranted an additional five (5) years from the date the body was last rechassis. Any rechassis or body modification work performed by an unauthorized party will void this warranty.

### **Exclusions and Limitations**

These warranties extend only to standard HEVC features and published standard HEVC options. Special options and features not part of HEVC's published option list shall be subject to such warranty, if any, as HEVC may designate in writing in each specific case.

HEVC's warranty does not include the chassis or chassis parts. The warranty does not include normal-wear parts such as tires, batteries, bulbs, or upholstery. Warranty coverage of special option components will be considered on a case-by-case basis with the terms given in writing. Warranty coverage is based upon reasonable maintenance, prompt notification of defects. This warranty will not cover defects resulting from misuse, negligence, accident, or overloading the vehicle beyond its weight rating. All warranty repairs must be made by HEVC or a party authorized by HEVC. This warranty does not cover work that was not performed by HEVC.

HEVC's warranty does not cover travel expenses, towing charges, mileage, down time, or personnel time associated with warranty repairs. HEVC shall have no obligation to provide a replacement vehicle.

HEVC shall determine the extent of warranty repairs.

Horton Emergency Vehicles reserves the unrestricted right at any time and from time to time to make changes in the design of, and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

This manufacturer's warranty is provided in place of any and all other representations or express or implied warranties, including the implied warranty of merchantability. No person is authorized to make any other or further representation or warranty on behalf of Horton Emergency Vehicles or any of its Dealers. Your right to service and replacement of parts on the terms expressly set forth herein are your exclusive remedies and neither the manufacturer nor any of its Dealers shall be liable for damages, whether ordinary, incidental, or consequential.

### **Warranty Revalidation**

Within 60 days of transfer of ownership of an HEVC vehicle by the original purchaser, HEVC's warranty may be revalidated provided that the original or subsequent owner has the vehicle inspected by HEVC or its authorized dealer and completes and files a warranty revalidation form available from HEVC. Upon subsequent transfer of ownership, this warranty may be revalidated in the same manner, provided that it has been revalidated on each



preceding transfer. The warranty is valid beginning from the date of the original manufacture and expires at the conclusion of the original warranty term.

### Filing a Warranty Claim

HEVC makes available a standard warranty claim. Service centers may use a claim form that fits their needs but, it must provide all the information stated in this section, "Filing a Warranty Claim".

A warranty claim must be completed so that it stands on its own. In other words, it must be treated as a legal and financial document that can be understood by anyone reading it.

The claim must be written in such a way so that it can be determined:

- What was the symptom?
- What was the cause?
- How was it repaired?
- How much time did the repair take?
- What parts were used in the repair?

The claim must have listed the following information:

- Dealer name
- Customer name & address
- Customer contact name & phone number
- Claim number (determined by the claim writer)
- Date the claim was written
- Mileage of the vehicle at the time of the repair
- Chassis year
- Chassis type
- Chassis serial number (the entire number)
- Horton serial number (as listed on the yellow "Final Manufacturer" door sticker)
- Customer delivery date
- Date that the work was performed (date of work completion)
- Parts used

Only one vehicle can be listed on a warranty claim. More than one repair item can be listed on a single claim form however; each problem, cause, and fix must be listed together and separate from the other problems, causes, and fixes. Labor must be listed for each repair.

Parts used in the repair must be listed on the claim.

- If HEVC-supplied parts were used, the HEVC invoice number must be provided.
- If non-HEVC parts were used, a copy of the parts invoice must be provided.

All aspects of a repair must be listed on one claim. Separate claims for the diagnosis, labor, and parts of a single repair are unacceptable.

All warranty claims must be received by HEVC within 30 days of the work being completed. Claims received later than 30 days after completion of the repairs will be denied.

The warranty claim and associated returned warranty parts must be returned together.

Service centers will be notified of unclear or incomplete claims. The needed information must be provided within 10 days of the request or the claim will be denied,

### **Warranty Labor**

The rate at which a dealer is reimbursed for labor is determined by the HEVC's dealer's actual labor and overhead costs. Requests for a change in labor rate must be made in writing to HEVC.

### **Warranty Parts**

HEVC's warranty covers the parts used in the original manufacture. A defective part must be replaced with the same part (manufacturer, model number, part number). If the defective part is replaced with a more costly unlike part, the reimbursement for the price of the original part will be issued. The substituted part will not be warranted by HEVC. If the same part cannot be used, obtain authorization from HEVC to substitute the part with an unlike part.

Parts used for warranty repairs are to be ordered through HEVC's Parts Department. The parts will be processed and invoiced. Reimbursement for the parts is obtained through the filing of a warranty claim. Returned defective warranty parts must be accompanied by a warranty claim. The defective part(s) and the warranty claim must be received by HEVC within 30 days of the work being completed.

Shipping charges for parts sent from HEVC to the service center will be reimbursed to the service center through the warranty claim.

Shipping charges for defective warranty parts sent from the service center to HEVC will not be reimbursed to the service center.

Approval for "next day" shipping must be approved by HEVC. Warranty claims listing unapproved "next day" shipping charges will be reduced by the difference between the "next day" charges and what the "standard" shipping charges would have been. This includes parts obtained from HEVC or a third party supplier. Parts returned to HEVC are not to be sent using "next day" shipping.

Shipping charges for parts used for warranty repairs obtained from an OEM vendor will not be reimbursed by HEVC.

### **Vehicles Not Built Per the Vehicle Specifications**

It is recommended that HEVC be contacted prior to a vehicle being modified due to a vehicle not being built to specifications. HEVC's warranty covers the vehicle "as-built" at the time of manufacture. Modifications could void HEVC's warranty. Reimbursement for the modification might be denied because the vehicle was actually built per the specifications as approved by the dealer.

### **Dealer Repair Facilities**

Service centers that are authorized to perform warranty work are required to have the proper facilities, equipment, and tools to perform the work. They not only include everyday screwdrivers and wrenches but also electrical testing equipment, HVAC equipment, etc.

Service centers should maintain a readily-available stock of replacement parts. A customer should not be out-of-service for a day or more because of a common, inexpensive part.

HEVC does not reimburse for common shop supplies.

Service centers must have properly trained technical personnel. They must be able to trouble-shoot all of HEVC's systems. Technical training is available from HEVC. Excessive repair times due to lack of proper tools or poorly trained technicians will not be accepted. Warranty claim charges will be reduced accordingly.

### Third Party Repair Centers

Exclusive or repeated use of third party repair companies to perform warranty work is unacceptable. Third party service centers or chassis dealerships do not represent the HEVC product or quality. HEVC and its dealers use service-after-the-sale by HEVC-trained personnel as a sales tool. HEVC's and its dealers owe our customers HEVC service.

Customers must be instructed to contact their HEVC dealership before taking their vehicle to a chassis dealership for warranty repairs. HEVC and chassis systems work in conjunction on certain systems and it cannot be assumed that a seemingly chassis issue is actually a chassis issue. Several hours can be spent by a chassis dealer troubleshooting an HEVC system. The problem may not get resolved. The customer has to start all over in the repair process. Excessive and unnecessary down time for the customer is incurred.

Claims for unnecessary repairs or excessive amounts will be reduced accordingly or denied.

### Summary of Warranties

	Years	Miles
General	2	24,000
Paint	Prorated: 0 – 4 years / 100% 5 years / 50% 6 years / 35% 7 years / 20%	84,000
Wiring Harness	10	Unlimited
Electrical	7	100,000
Structural	30	Unlimited
Remount		
General	1	12,000
Structural	+5	Unlimited

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

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## REMOUNT WARRANTY

Remounts performed by HEVC are warranted for one (1) year from the date of the remount (as noted on the Final Manufacturer's Certification Plate) or 24,000 miles, whichever occurs first.

These warranties extend only to standard HEVC features incorporated during the remount process and published standard HEVC options.

HEVC's warrant does not include the chassis or chassis parts. The warranty does not include normal-wear parts such as tires, batteries, bulbs, or upholstery. Warranty coverage of special options components will be considered on a case-by-case basis with the terms given in writing. Warranty coverage is based upon reasonable maintenance, prompt notification of defects. This warranty will not cover defects resulting from misuse, negligence, accident, or overloading the vehicle beyond its weight rating. All warranty repairs must be completed by HEVC or a HEVC-authorized party. This warranty does not cover work that was not performed by HEVC.

HEVC's warranty does not cover travel expenses, towing charges, mileage, downtime, or personnel time associated with warranty repairs. HEVC shall have no obligation to provide a replacement vehicle.

HEVC shall determine the extent of warranty repairs.

Horton Emergency Vehicles reserves the unrestricted right at any time, and from time to time to make changes in the design of, and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

This manufacturer's warranty is provided in place of any and all other representations or express or implied warranties, including the implied warranty of merchantability. No person is authorized to make any other or further representation or warranty on behalf of Horton Emergency Vehicles or its Dealers. Your right to service and replacement of parts on the terms expressly set forth herein are your exclusive remedies and neither the manufacturer nor any of its Dealers shall be liable for damages, whether ordinary, incidental, or consequential.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

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## STRUCTURAL WARRANTY

The module body, manufactured by HEVC, is warranted thirty (30) years from the date of manufacture as determined by the HEVC body build plate mounted in the module body. All exterior doors and hinges are warranted against structural defects and will remain in proper adjustment for thirty (30) years. Interior aluminum cabinetry (exclusive of paint finish, hardware, moldings, and accessories) is warranted against structural defects for thirty (30) years. Written approval must be given by HEVC prior to the repairs beginning on items covered by this warranty. Unauthorized work will make this warranty void and unenforceable.

If the ambulance body is rechassis'd by HEVC during the original warranty period, the structural warranty will be revalidated an additional five (5) years from the expiration of the original warranty period. Bodies rechassis'd subsequent times will be warranted an additional five (5) years from the date the body was last rechassis'd, provided that necessary repairs are authorized by the owner and performed by HEVC. Any rechassis of body modification work performed by an unauthorized party will void this warranty.

These warranties extend only to standard HEVC features and published standard HEVC options. Special options and features that are not part of HEVC's published options list shall be subject to the original OEM manufacturer, if any, as HEVC may designate in writing for each specific case.

HEVC's warranty does not include the chassis or chassis parts. The warranty does not include normal-wear parts such as tires, batteries, bulbs, or upholstery. Warranty coverage of special options components will be considered on a case-by-case basis with the terms given in writing. Warranty coverage is based upon reasonable maintenance, prompt notification of defects. This warranty will not cover defects resulting from misuse, negligence, accident, or overloading the vehicle beyond its weight rating. All warranty repairs must be completed by HEVC or a HEVC-authorized party. This warranty does not cover work that was not performed by HEVC.

HEVC's warranty does not cover travel expenses, towing charges, mileage, downtime, or personnel time associated with warranty repairs. HEVC shall have no obligation to provide a replacement vehicle.

HEVC shall determine the extent of warranty repairs.

Within sixty (60) days of transfer of ownership of an HEVC vehicle by the original purchaser, HEVC's warranty may be revalidated provided that the original or subsequent owner has the vehicle inspected by HEVC or its authorized dealer and complete and files a warranty revalidation form available from HEVC. Upon subsequent transfer of ownership, this warranty may be revalidated in the same manner, provided that it has been revalidated on each preceding transfer. The warranty is valid beginning from the date of the original manufacture and expires at the conclusion of the original warranty term.

Horton Emergency Vehicles reserves the unrestricted right at any time, and from time to time to make changes in the design of, and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

This manufacturer's warranty is provided in place of any and all other representations or express or implied warranties, including the implied warranty of merchantability. No person is authorized to make any other or further representation or warranty on behalf of Horton Emergency Vehicles or its Dealers. Your right to service and replacement of parts on the terms expressly set forth herein are your exclusive remedies and neither the manufacturer nor any of its Dealers shall be liable for damages, whether ordinary, incidental, or consequential.

Legal Remedies: Any claim or controversy arising out of or relating to this limited warranty, or beach thereof, shall be settled by arbitration administered by the American Arbitration Association in Milwaukee, Wisconsin in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Wisconsin shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

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#### **Appendix 4 - Warranty**

**A. Warranties:** The System when originally installed in a newly built HORTON vehicle is warranted against material and workmanship defects for the period set forth below per module. The period is defined as the date the vehicle is delivered; each module carries its own date of manufacture. For all warranty claims, HORTON must provide the serial number (VIN) of the chassis, the chassis odometer reading, and the HORTON body number.

**B. Warranty Table:** The warranty period shall be the lesser of (i) the body/chassis combination in which The System is originally installed having reached 200,000 miles (as based on the chassis odometer) or (ii) the period shown in the following table:

Description & Part Numbers	Defective Parts Period	Labor Period	Replacement Time	Parts Support Period
Horton I/O Nodes 10013510 Super Node 10013511 Mini Node	10 years	5 years	1.0 hour	15 years
Horton LCDisplay Nodes 10013514 Front Panel 10013515 Rear Panel	7 years	5 years	1.0 hour	15 years
Horton Switch Panels 10013512	7 years	5 years	0.5 hour	15 years
WiFi Module 10013517	2 years	0 years	0	15 years
GPS System 10013513	2 years	0 years	0	5 years
Temperature Sensors 10013516	2 years	0 years	0	15 years

**C. Defective Parts Period:** Weldon will correct by repair or replacement, at its option, equipment or parts which fail because of material or workmanship defects, provided that the goods have been properly handled and stored prior to installation and properly installed and properly operated after installation. HORTON must provide Weldon written notice of such defects after delivery of the goods to HORTON. All products to be returned for repair or replacement must be authorized by Weldon prior to their return. Weldon will issue a Returned Goods Authorization (“RGA”) number that must be clearly marked on the exterior of the box and associated packing slip. Weldon reserves the right to access a \$100.00 no-fault-found fee on any product returned to Weldon as defective and found to be fully functional. Horton must provide the serial number (VIN) of the chassis, the chassis odometer reading, and the Horton body number. The warranty is limited to the original body/chassis combination for not more than 100,000 miles. Additionally, the model number, serial number and failure mode of the component being returned to Weldon shall be provided by HORTON. Weldon may examine any



goods upon which a claim is made in the same condition as when defect therein is discovered, and may require the return of the goods to establish any claim.

**D. Labor Period:** Weldon's obligation under this warranty is limited to repair or replacement within a reasonable time after receipt of such written notice. WELDON's liability under no circumstances will exceed the contract price of goods claimed to be defective plus any covered labor. Weldon will reimburse Horton for the removal of the defective part and the installation of new or repaired product. Labor is defined as "Replacement Time" in the Warranty Table. Labor cost is the dealer's hourly billable labor rate multiplied by the established replacement time. The allowed dealer labor rate shall not exceed \$130 per hour. Troubleshooting time, down time, transportation, consequential damage, towing, and costs other than replacement labor are excluded. Weldon's liability under no circumstances will exceed the contract price of goods claimed to be defective. Any returns under this guarantee are to be on a transportation charges prepaid basis.

**E. Parts Support Period:** Weldon will provide parts support for fifteen years from the date of manufacture. The supported parts must be listed in the warranty table of this document. Weldon reserves the rights to provide different parts should components become obsolete; provided they can be compatible and perform the function of the existing parts.

**F. Warranty Repairs:** End users requiring warranty repairs on the System should contact Horton's customer service or other appropriate department for service/warranty repairs. All repairs and / or exchanges performed on the System must be routed through and coordinated by Horton utilizing Weldon's RGA process.

**G. Limitations:** No warranty will apply if the products are in any way altered or modified after delivery by WELDON. The warranties contained herein only apply to the original end user purchaser and are not transferable.

**THIS IS WELDON'S SOLE WARRANTY WITH RESPECT TO THE GOODS; THERE ARE NO EXPRESS WARRANTIES OR WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY IMPLIED WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY IMPLIED WARRANTIES OTHER THAN THOSE MADE EXPRESSLY HEREIN. ALL SUCH WARRANTIES BEING EXPRESSLY DISCLAIMED.**

**Patents:** Weldon shall pay costs and damages finally awarded in any suit against HORTON to the extent based upon a finding that: the design or construction of the goods as furnished infringes a United States patent (except infringement occurring as a result of incorporating a design or modification at HORTON's request), provided that HORTON promptly notifies Weldon of any charge of infringement, and Weldon is given the right at its expense to settle such charge and to defend or control the defense of any suit based upon such charge.

THIS PARAGRAPH SETS FORTH WELDON'S ENTIRE LIABILITY WITH RESPECT TO PATENTS.

**H. Governing law and Assignment:** The laws of the State of Ohio shall govern the validity, interpretation, and enforcement of this Agreement. Assignment may be made only with written consent of both parties.