



SPECIFICATIONS  
FOR  
**MOORE FIRE DEPARTMENT**  
FOR A  
FORD F550

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Rescue Apparatus

Bid # 2024-010

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Any Mention of Brand Name Shall be "or Equivalent"

BIDDER  
COMPLIES

YES NO

**Intent:**

The intent of these specifications is to set minimum requirements, not to otherwise limit bidding for the supply of one (1) new rescue apparatus. The city of Moore has purchased and is in position of a new 2024 Ford F550 Crew Cab 4WD Chassis 6.7 V8 Turbo Diesel Engine 84".

In as much as some designs of equipment vary among different manufacturer's, the Department specifically reserves the right to make judgment concerning what is or is not concerning deviations or exceptions and to award the bidder (s) whose bid best suits the Department's need for the product being purchased.

**Inspection Trips:**

The bidder shall provide (2) factory inspection trips for Fire Department representatives. The inspection trips shall be for a pre-build and final inspection. All cost, including lodging, travel, and meals shall be the responsibility of the bidder if travel is over 125 miles. The trip shall be scheduled at times mutually agreed upon, between the manufacturer's representative and the customer. No Exception

**Service and Warranty Support:**

To insure full service after delivery, the bidder must be capable of providing service when required. The bidder shall show that the company is in position to render prompt service and furnish replacement parts. Each bidder must be able to display that they are actively in the fire apparatus service business by operating an authorized service center located within the State of Oklahoma, and shall stock parts equating to \$250,000.00.

Detailed information shall be provided on service facilities, personnel, service vehicles, and how long the service facility has operated in the State of Oklahoma.

Service is a criteria for award of this bid.

**Service Certification:**

Each bidder shall supply with their bid an Emergency Vehicle Technician certification, and photos of the full service repair facility that is located within the State of Oklahoma, these documents must be provided with the proposal. No Exceptions.

**Oklahoma Motor Vehicle License:**

Each manufacturer and dealer must furnish a copy of their Oklahoma Motor Vehicle Commission License.

**This is an Oklahoma Law and must be furnished, No Exceptions.**

**Proposal Price:**

Each bidder's proposal must include all items required in the specifications unless a specific exception is taken. Any bidder who option prices an item included in these specifications that does not specifically require option pricing will have their proposal rejected without further cause.

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BIDDER  
COMPLIES

YES NO

**Proposal Format:**

Each bid must be accompanied by a set of detailed contractor's specifications consisting of a detailed description of the apparatus and equipment proposed. All bid proposal specifications must be in the same sequence as the advertised specification for ease of comparison. These specifications shall include size, location, type, and model of all component parts being furnished. Detailed information shall be provided on the materials used to construct all facets of the apparatus body. Any bidder who fails to submit detailed construction specifications, or who photo copies and submits these specifications as their own construction details or any proposals found to have deviations without listing them will be considered non-responsive and shall render their proposal ineligible for award,. **NO EXCEPTION.**

**Intent of Specifications:**

It is the intent of these specifications to clearly describe the furnishing and delivery to the Purchaser, a complete apparatus equipped as specified. The primary objective of these specifications is to obtain the most acceptable apparatus for service in the Fire Department. These specifications cover specific requirements as to the type of construction and tests the apparatus must conform, together with certain details as to finish, material preferences, equipment and appliances with which the successful bidder must conform.

The design of the apparatus must embody the latest approved automotive design practices. The workmanship must be of the highest quality in its respective field. Special consideration shall be given to service access to areas needing periodic maintenance, ease of operation, and symmetrical proportions. Construction must be heavy-duty and ample safety factors must be provided to carry loads as specified. The construction method employed will be in such a manner as to allow ready removal of any component for service or repair.

The apparatus shall conform to the National Fire Protection Association Standard for Automotive Fire Apparatus, number 1901 and the National Fire Protection Association Standard for Fire Apparatus, number 1906, in its most recent edition, unless otherwise specified in this document. Only the specified firefighting support equipment listed in these specifications shall be provided.

The apparatus shall further conform to all Federal Motor Vehicle Safety Standards. **NO EXCEPTION.**

Each bidder shall furnish satisfactory evidence of their ability to design, engineer, and construct the apparatus specified and shall state the location of the factory producing the apparatus. They shall also substantiate they are in a position to render prompt and proper service and to furnish replacement parts for the apparatus.

Bids will be addressed and submitted in accordance with the instructions provided on the cover sheet. The bid number, the date, and bid opening time shall be stated on the front of the bid envelope.

It shall be the responsibility of the bidder to assure that their proposal arrives at the location and time indicated. Late proposals, telegrams, facsimile, or telephone bids will not be considered. **NO EXCEPTION.**

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BIDDER  
COMPLIES

YES NO

**Exceptions:**

The following apparatus specifications are considered minimum design and construction standards against which the apparatus will be inspected. It is the intent to receive proposals on equipment/apparatus meeting the attached detailed specifications in their entirety. Any proposals being submitted, without "Full Compliance" with these specifications shall so state on the bid proposal page, followed by a detailed "Letter of Exceptions" listing the areas of non-compliance. The reference must include page number, paragraph, and the exact nature of the exception.

Failure to follow this format, provided for the convenience of the Purchaser, will render the vendor's proposal non-responsive and ineligible for award of contract.

If a product brand name is specified and is commercially available to all bidders, an exception to such items is not acceptable and such bid may be rejected. All deviations, no matter how slight, shall be clearly explained on a separate sheet, in the bid sequence, citing the page and paragraph number(s) of the specifications, how the proposal deviation is different, how the deviation meets or exceeds the specifications and why it is necessary.

The Purchaser may add the statement "No Exception" to a component or design feature in these specifications. In the interest of fleet conformity or specific performance requirements, the Purchaser will not permit exceptions taken to these item(s). The Purchaser reserves the right to reject any or all bid proposals and purchase the equipment it deems most suitable to its needs.

The Purchaser does not, in any way, obligate itself to accept the lowest or any bid. Any bidder taking total exception to the complete specification, or a major element will result in immediate rejection of the proposal.

**Delivery:**

The bidder shall state the time required for delivery of the completed unit on the proposal page. The completed unit shall be delivered to the purchaser with full instructions provided to Fire Department personnel on operation, care, and maintenance of apparatus at the purchaser's location.

**Full Bumper Replacement:**

A full front bumper replacement shall be supplied. The front bumper shall be manufactured with 1 ¼" square tubing with the 90 degree corners on the square tubing to give the grille guard unmatched strength & durability. The body of the front bumper shall be constructed from 1/8" black gloss tread plate and shall mount to the apparatus frame using a combination 3/8" and ½" steel plate.

The front bumper shall have an integrated speaker mount, winch receiver mount.

**Mud Flaps:**

Mud flaps shall be provided behind each rear wheel.

**Chassis Fuel Fill:**

There shall be a fuel fill provided in a recessed area on the rear of the truck.

**Chassis DEF Tank Fill:**

There shall be a DEF (Diesel Exhaust Fluid) fill provided in an accessible location on the rescue body, if necessary

**Cab Console:**

A custom electrical console and enclosure shall be provided to house cab mounted electrical switching devices and equipment. The console shall be located between the driver's and the officer's seating up to and under the dash.

The console shall have vent holes with a grill insert on each side to allow for ventilation.

The console shall have two (2) armrests, dual USB and 12v Hot spot outlets. The front 12" shall be angled up 30%

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BIDDER  
COMPLIES

YES NO

**Body:**

The rescue body shall be constructed of aluminum extrusions, 3/16" smooth aluminum sheet, and 1/8" aluminum tread plate.

The aluminum extrusions shall be designed as structural-framing members with the smooth aluminum, fabricated to form compartments, and floors.

All aluminum material shall be welded together utilizing the latest MIG and/or Tig welding processes.

The rescue body wheel well panels shall be formed aluminum that is welded in place. The exterior sections of the wheel well shall be painted job color.

There shall be no visible bolt heads, retention nuts, or fasteners on the exterior surface of the panel.

To fully protect the wheel well area from road debris and to aid in cleaning, a smooth aluminum wheel well liner shall be provided.

The wheel wells shall be radius cut for a streamlined appearance.

A polished aluminum fenderette shall be furnished at each wheel well opening, held in place with stainless steel fasteners.

**Aluminum Sub Frame:**

The main body sub-frame shall be extruded aluminum and be fully welded to the longitudinal frame rail extrusions that are mounted parallel to the chassis' frame rails.

The main body sub-frame shall be constructed of no less than four (4) extruded aluminum tubes running full width of the apparatus body.

A minimum of two (2) full body width tubes shall be provided ahead of and behind the rear axle forming the main body support cross members.

The main cross tubes shall be fully welded to the vertical and horizontal extrusions forming the body super-structure, described elsewhere herein.

For added strength and rigidity, no less than six (6) intermediate body cross members shall be provided, constructed from extruded aluminum tubes.

The intermediate structural cross members shall be interconnected and welded into the main body tubular cross members forming a fully welded support grid for the body super-structure compartments.

The tubular extrusions shall consist of 2.0" x 3.0" rectangular tubes of 1/8" wall thickness



**Rescue Body Dimensions:**

The 3/16" extruded aluminum rescue body shall be 144"L x 96"W x 72"T. The body shall be 84"T to the upper most rim of the coffin box enclosure.

**Roof:**

The roof of the body shall be constructed of 3/16 aluminum diamond plate. With coffin boxes along driver side shall be 144"L x 36"W and 36"x 72" at the front on the passenger side. A rim around the top will connect the coffin boxes.

**Rear Bumper:**

There shall be a 3" x 6" x 3/16" steel bumper with receiver hitch installed at the rear of the body. A fixed ladder shall extend to the roof for coffin box access on the right side of Rear Cargo Area (B1).

**Two Eyes:**

There shall be two (2) tow eyes located at the rear of the rescue apparatus.

**SCBA Tubes:**

There shall be three (4) SCBA bottle holders, located two (2) on passenger side wheel well area and (2) on the driver side wheel area.

**Compartmentation:**

Rescue body compartments shall be water and dust resistant.

All compartments shall be made to the maximum practical dimensions to provide maximum storage capacity. To ensure maximum storage space, the rescue body shall be constructed without any void spaces between the body and compartment walls.

NOTE: Double wall construction shall not be utilized.

The compartment floors shall be constructed of smooth aluminum material, to match the compartment interior walls. The interior of the compartments shall have a heavy duty zolotone finish.

All exterior compartments shall have aluminum drip moldings installed above the doors where necessary to prevent water from entering the compartments.

Any Mention of Brand Name Shall be "or Equivalent"

BIDDER  
COMPLIES

YES NO

**Left Front Compartment (L1):**

There shall be one (1) full height compartment located on the left side of the rescue body in front of the chassis' rear wheels.

The compartment dimensions shall be approximately 59"W x 69.5"H x transverse. The compartment opening dimensions shall be approximately 54"W X 60"H or as tall as possible.

There shall be one (1) 50% of the transverse slide installed. The slide shall be approximately one half transverse x 42"W.

A vertical slide tool board shall be installed at the rear of the compartment roughly 36" tall with grab handles installed centered on this slide out. This board shall be securely mounted with both upper and lower hardware. The compartment shall be provided with one (1) ROM roll-up door.

**Left Overwheel Compartment (L2):**

There shall be one (1) compartment located on the left side of the rescue body above the chassis' rear wheels.

The compartment dimensions shall be approximately 48"W x 47"H x transverse. The compartment opening dimensions shall be approximately 46"W X 41"H.

The compartment shall be provided with one (1) floor mounted roll out tray the width of the opening and one half the transverse.

The compartment shall be provided with one (1) ROM roll-up door.

**Left Rear Compartment (L3):**

There shall be one (1) full height compartment located on the left side of the rescue body to the rear of the chassis' rear wheels.

The compartment dimensions shall be approximately 35"W x 69.5"H x 22"D.

The compartment opening dimensions shall be approximately 31"W X 60"H or as tall as possible.

The compartment shall be provided with 2 adjustable trays.

The compartment shall be provided with one (1) ROM roll-up door.

**Right Front Compartment (R1):**

There shall be one (1) full height compartment located on the right side of the rescue body in front of the chassis' rear wheels.

The compartment dimensions shall be approximately 59"W x 69.5"H x transverse. The compartment opening dimensions shall be approximately 54"W X 60"H or as tall as possible.

There shall be one (1) 50% of the transverse slide installed. The slide shall be approximately one half transverse x 42"W.

A vertical slide tool board shall be installed at the rear of the compartment roughly 36" tall with grab handles installed centered on this slide out. This board shall be securely mounted with both upper and lower hardware. The compartment shall be provided with one (1) ROM roll-up door.

**Right Overwheel Compartment (R2):**

There shall be one (1) compartment located on the right side of the rescue body above the chassis' rear wheels.

The compartment dimensions shall be approximately 48"W x 47"H x transverse. The compartment opening dimensions shall be approximately 46"W X 41"H.

The compartment shall be provided with one (1) floor mounted roll out tray the width of the opening and one half the transverse.

The compartment shall be provided with one (1) ROM roll-up door.

**Right Rear Compartment (R3):**

There shall be one (1) full height compartment located on the right side of the rescue body to the rear of the chassis' rear wheels.

The compartment dimensions shall be approximately 35"W x 69.5"H x 22"D.

The compartment opening dimensions shall be approximately 31"W X 60"H or as tall as possible.

The compartment shall be provided with 2 adjustable trays.

The compartment shall be provided with one (1) ROM roll-up door.

**Rear Cargo Area (B1):**

The dimensions of the rear cargo area shall be approximately 52"W x 42"H x 35"D.

There shall be one (1) adjustable tray installed in the compartment. The compartment shall be provided with one (1) ROM roll-up door.

**Rear Storage Area (B2):**

There shall be a storage area located between the body sills and be accessed from the rear of the truck with a smooth plate fold down door with thumb latches.

It shall contain (4) 2"ID round tube storage containers. (ex. Pike pole/ New York hook)

The tubes shall be notched to secure such tools.

The dimensions of this compartment shall be approximately 5"H x 30"W x 96"D.

**Body Front Protection Panels:**

Aluminum tread plate panels shall be installed on the front, lower portions of the rescue body.

**License Plate Light & Bracket:**

There shall be a license plate mount with light supplied at the rear of the apparatus.

**Electrical System:**

Low Voltage Electrical System Specifications

The following specifications describe the low voltage electrical system. The electrical system shall include all panels, electrical components, switches and relays, wiring harnesses and other electrical components.

All wiring shall be stranded copper or copper alloy conductors of a gauge rated to carry 125 percent of the maximum current for which the circuit is protected. Voltage drops in all wiring from the power source to the using device shall not exceed 10 percent. The wiring and wiring harness and insulation shall be in conformance to applicable SAE and NFPA standards. The wiring harness shall conform to SAE J-1128 with GXL temperature properties. All exposed wiring shall be run in a loom with a minimum 289 degree Fahrenheit rating. All wiring looms shall be properly supported and attached to body members. The electrical conductors shall be constructed in accordance with applicable SAE standards, except when good engineering practice requires special construction.

The wiring connections and terminations shall use a method that provides a positive mechanical and electrical connection and shall be installed in accordance with the device manufacturer's instructions.

Any Mention of Brand Name Shall be "or Equivalent"	BIDDER COMPLIES	
	YES	NO
<p>Electrical connections shall be with mechanical type fasteners and large rubber grommets where wiring passes through metal panels.</p> <p>All connections shall be crimp-type to resist moisture and foreign debris such as grease and road grime. Weather-resistant connectors shall be provided throughout to ensure the integrity of the electrical system.</p> <p>Any electrical junction or terminal boxes shall be weather resistant and located away from water spray conditions.</p> <p>There shall be no exposed electrical cabling, harnesses, or terminal connections located in compartments, unless they are enclosed in an electrical junction box or covered with a removable electrical panel or wire loom. The wiring shall be secured in place and protected against heat, liquid contaminants and damage.</p> <p>The electrical system shall include the following:</p> <ul style="list-style-type: none"> <li>A) The electrical wiring shall be harnessed or be placed in a protective loom.</li> <li>B) No Holes shall be made in the roof of chassis, unless approved by end user.</li> <li>C) Any electrical component that is installed in an exposed area shall be mounted in a manner that will not allow moisture to accumulate in it.</li> </ul> <p>The warning lights shall be switched in the chassis cab with labeled switching in an accessible location. All electrical equipment switches shall be mounted on a switch panel mounted in the cab convenient to the operator and passenger.</p> <p>A single warning light switch shall activate all required warning lights. This switch will allow the vehicle to respond to an emergency and call for the right of way.</p> <p><b>Light Bar:</b></p> <p>A Whelen Red/Blue LED low profile light bar shall be supplied. The light bar shall have clear lenses to the front and blanks to the rear and will be mounted on cab of the vehicle.</p> <p><b>Features:</b></p> <ul style="list-style-type: none"> <li>• NFPA 1901 Compliant</li> <li>• Alley &amp; Takedowns</li> <li>• Variety of selectable flash patterns</li> <li>• Hermetically sealed</li> </ul>		

**Warning Lights:**

Twenty (20) Whelen Red/Blue LED Warning lights shall be provided. These warning lights shall have different flash patterns to customize to department specifications.

The Warning Lights shall be installed as follows:

- Four (4) on the front bumper, with two on each side.
- Two (2) on side of the apparatus chassis above the wheel well towards the front of the fender with one (1) each side
- Ten (10) on the side of the apparatus body; five (5) each side; Two (2) on upper body with two (2) on the lower body and one (1) centered above wheel well.
- Four (4) on the rear of the apparatus body, with one (1) high and one (1) low each side.

There shall be four (4) RECT 14’s Red LED lights installed in the lower rub rail with two (2) each side, one (1) offset forward and one (1) offset rearward.

**Perimeter Lights:**

Six (6) LED strip lights shall be installed as to light the perimeter of the apparatus during nighttime operations.

Lights shall be installed as follows:

- One (1) on each side of the chassis under the driver and officer chassis doors;
- One (1) on each side of the apparatus body where applicable.

**Compartment Lights:**

Each compartment shall be provided with two (2) ROM V3 LED vertically mounted lights.

The compartment lights shall be installed one (1) on each side of the compartment door opening and shall be integrated into the roll-up door tracks with the light actuation with the door opening.

The compartment light shall be controlled by a magnetic “On-Off” switch located on each compartment door.

**Scene Lighting:**

It shall have eight (8) Whelen fixed LED scene lights

- **Location of light shall be:** Two (2) lights on each side of the body: in the upper left and upper right corners of the front, left side, right side, and back. The two (2) rear lights shall be operated by chassis reverse.

**Air Horns:**

Two (2) air horns shall be installed in the front bumper with the tank concealed in the engine compartment. The horns shall be operated by the driver or front passenger

**Electronic Siren:**

One (1) Federal Signal PA-640 full function electronic siren shall be mounted in the cab console. The siren shall have the following features: electronic air horn, wail, yelp, hi-lo, radio rebroadcast, P.A. and shall have a hard-wired microphone.

**Features:**

- 100-Watt SAE J1849 and Class A output
- Internal programmable siren functions
- Four Position progressive slide switch
- Six backlit and rubberized relay push-button switches
- Scrolling TAP II intersection clearing feature

**Speaker:**

One (1) Federal Signal ES100, 100 watt speakers shall be mounted behind the front of the chassis bumper or grille. The speaker shall be wired to the electronic siren located in the cab.

**D.O.T Lighting:**

The 12 volt lighting on the truck body shall conform to FMVSS 108 standards. All DOT lighting shall be LED type.

**Clearance:**

There shall be a minimum of five (5) red clearance lights on the rear of the truck (three (3) in the rear center and one on each outside corner of the rear apparatus bed).

One (1) red clearance lights shall be on each side rear corner and one (1) yellow clearance light on each front side corner.

**Rearview Camera in Mirror:**

The factory rearview mirror shall be replaced with a rear-view camera.

**Signal, Brake and Reverse:**

There shall be 4-stack Whelen M6 series LED stop & tail; turn; reverse light and emergency light mounted on the rear of the body in a chrome bezel.

The lighting shall be towards the outside of the body.

**Auto Charge:**

The Auto Charge 2000 is a compact, completely automatic, dual channel battery charger designed for vehicles with two batteries. The charger is ruggedized to withstand the shock and vibration encountered by vehicle mounted equipment.

- Independent charge controls for each battery
- Electronic remote sensing of true battery voltages, eliminates the need for sensing wires
- Automatic current limiting and apportionment
- Built-in Battery Saver
- Remote dual battery charge/condition indicator
- Power "ON" LED indicator
- Battery Saver overload indicator

The charger contains two independent charge controls, one for each battery. This allows each battery to be independently charged while maintaining battery isolation. Each battery voltage is remotely sensed, electronically, eliminating the need for four sense wires. Each of the charge controls is completely automatic and stops charging the battery when it is fully charged.

**Battery Saver:**

A 3 ampere Battery Saver is built into the charger. When connected as shown in the installation wiring diagram, loads on battery #1 such as radios and rechargeable hand lights are automatically switched to the Battery Saver when power is applied to the charger.

The Battery Saver allows more efficient charging by removing these loads. A Battery Saver overload indicator alerts the operator that the Battery Saver load has exceeded 3 amperes.

**Remote Battery Charge Condition:**

This remote indicator shows the charge condition of each battery in 10 levels from "LOW CHARGE" to "FULLY CHARGED".

**Auto Eject Receptacle:**

Two (2) auto eject weather proof plugs will be provided and mounted on the front of the apparatus body, driver's side front lower body panel. One (1) will service 12 volt needs and One (1) will service 120-volt needs.



**Inverter/Charger:**

A heavy duty 6000W inverter/charger shall be supplied to charge a battery bank in the R3 & L1 compartments while not connected to shoreline. A six (6) fuse 12-volt fuse panel shall also be located in both locations for DC applications.

**Features:**

- Built-in transfer switch automatically transfers between inverter power and incoming AC power
- Parallel stacking enables the inverter/chargers to double the available AC output power in inverter mode
- Works with Kussmaul Super Auto Eject with Deluxe Cover with Digital Display

**Master Disconnect Switch:**

A battery disconnect switch shall be located conveniently to the driver of the apparatus. The switch shall disconnect the 12-volt power supply from the battery system.

**Directional Light Bar:**

A Whelen LED Directional light bar shall be supplied and mounted to the rear of the apparatus above the B1 compartment.

**Backup Alarm:**

An automatic electric back-up alarm shall be wired to the back-up light circuit and mounted under the rear of the apparatus body.

**Radio:**

The customer supplied radios shall be installed in the cab console. Make and model shall be provided at pre-build.

**Antenna:**

The customer supplied antenna shall be installed on the front left side of the apparatus body.

Any Mention of Brand Name Shall be "or Equivalent"

BIDDER  
COMPLIES

YES NO

**Scotchlite Striping & Lettering:**

**Cab and Body:**

The apparatus cab and body shall be provided with Scotchlite striping and installed to department's requirements. Colors to be determined at prebuild meeting.

**Lettering:**

Scotchlite lettering with shading will be installed to department requirements and colors to be determined at prebuild meeting.

**Rear Body:**

Chevron "A" style Scotchlite Red/Lemon Yellow striping shall be provided on rear of body (outboard rearward facing smooth plate panels of the rear apron).

The colors shall be decided at pre-build.

**Apparatus Paint:**

**Apparatus Body:**

The apparatus body shall be painted to match the color of the chassis, color to be Ford Race Red. The interior body painted with zolotone,

Any Mention of Brand Name Shall be “or Equivalent”

BIDDER  
COMPLIES

YES NO

**Warranty:**

**1 Year Standard Warranty:**

The apparatus manufacturer shall provide a full 1-year standard warranty. All components manufactured by the apparatus manufacturer shall be covered against defects in materials or workmanship for a 1-year period. All components covered by separate suppliers such as engines, transmissions, tires, and batteries shall maintain the warranty as provided by the component supplier. A copy of the warranty document shall be provided with the proposal. No Exceptions

**10 Year 100,000 Mile Structural Warranty:**

The apparatus manufacturer shall provide a comprehensive 10 year/100,000-mile structural warranty. This warranty shall cover all structural components of the body manufactured by the apparatus manufacturer against defects in materials or workmanship for 10 years or 100,000 miles, whichever occurs first. Excluded from this warranty are all hardware, mechanical items, electrical items, or paint finishes. A copy of the warranty document shall be provided with the proposal. No Exceptions

**3 Year Graphics Warranty:**

The apparatus manufacturer shall provide a full 3-Graphics warranty. This warranty shall cover defects in materials or workmanship of apparatus manufacturer’s graphic components for 3 years. A copy of the warranty document shall be provided with the proposal. No Exceptions

**5 Year Electrical Warranty:**

The apparatus manufacturer shall provide a full 5-year electrical warranty. This warranty shall cover defects in materials or workmanship of apparatus manufacturer’s electrical components for 5 years. A copy of the warranty document shall be provided with the proposal. No Exceptions.

