

Apparatus Specification Addendum- 10/14/2016

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Front Bumper

The chassis shall be equipped with a severe duty front bumper constructed from structural steel channel. The bumper material shall be ASTM A36 steel, **approximately .3 or 1/3** inches thick, measuring 12.00 inches high with a 3.00 inch flange with angled front corners. See picture below.



The bumper shall be primed and painted to match the color of the cab.

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A/C Condenser Location

The A/C condenser shall be installed in a reasonable location. Consideration should be given to the most efficient use of available space.

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Auxiliary A/C Cab

An auxiliary Danhard™ 125 volt air conditioning and heat system Model 50-2000 shall be installed. The preferable location for the evaporator/heater would be on the rear cab wall above the EMS cabinet. Acceptable locations for mounting the condenser will be discussed at preconstruction, however the vendor should understand the intent of using the Danhard system is to limit the overall height of the truck. Therefore, proposals mounting the unit on the raised portion of the roof will not be considered. The unit shall be approximately 13,500 BTU for A/C and 1250 watts for heat and wired to run off of shore power (and generator power while not plugged into the shore line, if that option is chosen). Alternative brands of auxiliary AC units will be considered. Vendors unwilling to provide a Danhard system or possibly believe they have a better option should take exception to this and provide an explanation.

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Under Cab Coating and Insulation

Ceramic spray-on insulation and undercoating treatment is desired, if provided it shall be applied to the underside of the cab, inside the engine tunnel, under the seat risers and inside the cab face double wall area. The insulation shall be applied at a minimum of 0.040" thickness to the entire underside of the cab, inside the engine tunnel and the double wall area at the front of the cab.

If specific vendors do not provide this service, there should, at a minimum be provisions for sound and heat barriers to be applied.

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Alternator

The charging system shall include an appropriately rated Leece-Neville 12 volt alternator. Calculations of Alternator size shall be achieved through regular and commonly accepted methods which will consider the electrical load of the vehicle while at full capacity. The alternator shall include a self-excited integral regulator

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Compartment "~~R3~~": "L3"

There shall be one (1) full height compartment located behind the rear wheels on the left side of the apparatus. The approximate interior dimensions of this compartment shall be a minimum of 43" wide by 74" high with an upper depth of 12.5". The framed opening shall measure approximately 40.5" wide by 70" high. The compartment will have approximately 38 cubic feet of space.

The full depth area of this compartment shall extend approximately 47" up from the compartment floor.

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Compartment "~~L3~~": "R3"

There shall be one (1) full height compartment located behind the rear wheels on the right side of the apparatus. The approximate interior dimensions of this compartment shall be a minimum of 43" wide by 74" high with an upper depth of 12.5". The framed opening shall measure approximately 40.5" wide by 70" high. The compartment shall have approximately 38 cubic feet of space.

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HOSE STORAGE

A hose bed shall be provided and installed with a minimum of thirty (30) cubic feet of storage space available. The hose bed shall have a slotted 1/4" aluminum flooring installed to allow drainage through the tank cavity to the ground below.

The aluminum flooring shall be manufactured in discrete sections to allow for ease of removal and stability. The area shall be free of sharp edges to protect the hose when loading and unloading.

The hose bed floor shall extend off the back of the hose bed and be finished with aluminum tread-bright to create a shelf.

~~There shall be a "Chicago Tray" in the hose bed. This is to be deleted.~~

The walls of the hose bed shall be the same height as the highest portion of the cab.

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Bumper Extension Additions

There shall be a hose well provided on the front bumper extension. The hose well shall be made of smooth aluminum and shall have the edges flush with the gravel shield. There shall be modular floor tiles located in the bottom and drain holes provided in the corners.

There shall be an embossed aluminum diamond plate cover installed on the front bumper compartment. There shall be a notch in the front corner adjacent to the front discharge.

The rear edge of the cover shall be attached with a stainless steel hinge. The cover shall be equipped with a D-ring style latch to secure the cover in the closed position and utilize ~~one (1) gas shock~~ a suitable hold open device.

The hose well shall be located in the front bumper of the apparatus and shall be designed to hold 150' 1 ¼ DJ fire hose. This well should not extend below the level of the angle of approach.

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REMOVABLE RUNG ASSEMBLY

For ease of service, the first rung of each section shall be integrated with the rear ladder side guides and vertical load transfer mechanism. The assembly shall be removable from the rear of the section by removing four bolts to allow for easy service access to slide pads and rollers.

The intent is to ensure adequate service access to any slide pads or rollers. If this is not applicable, vendors should take exception and explain process of accessing these items.

Aerial Specifications

The intent of incorporating the aerial specifications at the end of the engine specifications is to provide identical design and construction for all three apparatus. Additional components will be considered as directed by the manufacturer. Appendix A1 reflects additional pricing options that we would like to consider if the manufacturer chooses to itemize for those options.

The below sections will directly pertain to the aerial apparatus capabilities:

Aerial Length-100 foot vertical reach

Aerial tip load- Minimum 500 lbs uncharged/dry (An option to upgrade to 750 pound (Dry) tip load can be added to the bid for consideration). See Appendix A1.

Aerial mount- Rear mount

Aerial materials- Steel

Pump-Same type as engine specifications.

Paint and striping-Same design as the above fire engine specifications.

Hose beds must accommodate a minimum of 1000' supply hose. Vendors should provide their available hose capacities with consideration given to NRHFD's utilization of 5 and 2.5 inch supply hose.