

Town of Pahrump

Pahrump Valley Fire-Rescue Services

Bid Specifications for One 2012 Chevrolet C3500, Type I Ambulance

1. One 2012 Chevrolet C3500, Type 1 ambulance
2. Type 1 walk-through. Full height cab to module walk-through.
3. Chassis must have Chevrolet Ambulance Prep. Package with dual alternators and high idle feature that maintains the vehicle's charging system with emergency lights on.
4. Chevrolet 6.6 L Duramax Diesel engine with a 5 year/ 100,000 mile power train warranty.
5. Gross Vehicle Weight minimum 13,200 lbs.
6. Chevrolet original equipment manufacturer (OEM) fuel tank.
7. Fuel fill housing: Cast aluminum fuel fill shall be installed according to the chassis manufacturer instructions.
8. Alternator – dual output.
9. Mirrors – trailer towing, with remote control and heat.
10. Vehicle must have Silverado package with cruise control, intermittent wipers, tinted windows, chrome front bumper, power locks, power windows, day time running lights, and black rubber flooring.
11. High back OEM captain chairs.
12. Seven OEM radial tires including a loose spare tire.
13. Phoenix brand – Stainless steel wheel covers.
14. A map book holder between the two front seats in front of the walk through.
15. QVM Certification proof. If QVM has been lost during the past five years, the manufacturer must state why.
16. Bidder must provide proof (copy) of ISO 9001:2000 Certification.
17. American Welding Standard Certified Welders: AWS D12 certification must be provided.
18. Bidder must provide proof (copy) of: ISO 17025 certified 3rd party testing for Federal KKK 1822-F Specifications.
19. KKK Required Label Package provided on interior O2 panel compartment door.
20. This agency is committed to partnering with an ambulance manufacturing company that has safety programs in place for modular body construction. At minimum, in addition to roof static load testing, side static load testing with a min. side load of 22,700 lbs.

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21. Electrical: The battery system will be wired in accordance with Federal KKK –A 1822 F specifications. The switch must be physically isolated from other switching to preclude inadvertent activation. The system must meet SAEJ541 for starter circuit voltage drop for heavy-duty applications.
22. The electrical system shall have a 75-amp solid state contactor to activate the master power. An additional Cole-Hersee switch shall be provided in the electrical cabinet as a back-up.
23. A 200-amp power disconnect switch shall be provided for module power.
24. The modular box size shall be 153” x 95” with minimum 72” (raised) interior headroom. Do not bid a smaller box.
25. No two stage manufacturing. All will be completed within the same facility.
26. The modular body will be one piece, all aluminum, welded construction with a 15 year min. warranty.
27. The modular frame will be a minimum 2x2x14” centers with extruded box tubing. Structural enhancement shall include a machine rolled crowned roof 1.5” with 5” gusset plates on all corners.
28. High strength extrusions will be utilized for all roof rail perimeter frame and vertical corner posts of the body.
29. A full set of DOT marker lights and reflectors will be provided. In addition, each of the four modular body corners will contain a recess mounted clearance light.
30. There will be a drip rail over each of the exterior compartment doors.
31. Metal tapping plates will be welded to the body or frame to secure the installation of equipment such as cabinets, benches, cylinders, etc. Self tapping are not to be used.
32. There shall be ten mounting points, five on each frame rail. The modular body will be attached to the frame rails using ¾” grade eight bolts.
33. The exterior compartments will be constructed of .090 aluminum and shall be constructed so that they are water tight.
34. The compartments will be welded in place to the side and floor structure. The floor will be at least two (2) inches below the door frame lip to help prevent equipment from falling out.
35. The inside of the compartments shall be fully finished with a chip resistant bacteriostatic, anti-fungal, mildew resistant sprayed finish. All exterior compartments will be vented to displace air when the door is closed.

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36. The environmental system shall be separate from the cab. The system shall have a self-contained purification unit. An alternative type heat/AC unit is unacceptable.
37. The air conditioning and heating unit will be service accessible through a tilt out access panel in a dedicated environmental cabinet on the bulkhead.
38. The installed system shall have a three-part filtering system that includes an anti-microbial pre-filter of 100% Dacron fiber that destroys micro organisms. The filter shall remove particles 10 microns and larger at 35% efficiency.
39. The second stage filtration of activated charcoal dispersed over a fiber medium to assist in odor removal.
40. The third stage filtration will be a high efficiency particulate air filter that removes particles of 03 microns and larger at 99.97% efficiency.
41. The system must exchange air within the vehicle through the sealed filtering system in the module every 90 seconds.
42. All filters shall be easily accessible for changing.
43. The air delivery system shall be sealed to prevent air from bypassing the filtration system.
44. There shall be a thermostat installed in the action area switch panel. There shall be a three-speed fan control with the thermostat automatically adjusting the heat and AC.
45. Six exterior compartments shall be installed on the modular box.
46. Compartment "A" 68" high x 22" wide is located forward most on the curb side. This section is accessible from the interior and exterior.
47. The interior of Compartment A to have a single wood door with clear Lexan insert (hinged right).
48. The above cabinets will have center pull handles, plunger roller latches on the top and bottom of each door, and 1 lever latch on the above mounted doors.
49. Compartment A shall have (2) adjustable shelves.
50. Compartments A, B2, and F shall have "hold open" socket and plungers to allow greater pass-through access to compartment interior.
51. All other exterior doors or compartment doors shall be held open via overhead gas struts.
52. Compartment B1 shall be 21.5" high x 24" wide, and 18.5" deep and will be located adjacent to the backboard storage compartment. This compartment is used for storage.
53. Compartment B2 shall be 84" high x 15" wide x 18.5" deep and will be located rearward most on the curbside of the modular. This compartment will be for vertical storage of backboards.

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54. A seatbelt type strap shall be installed in compartment B2 –side to side- half way up the compartment.
55. Compartment D shall be 61” high x 32” wide x 18.5” deep and will be located rear most on the street side. The compartment will also have (2) adjustable shelves.
56. Compartment E shall be 39” high x 32” wide x 18.5” deep and will be located behind compartment F. It shall have one fixed and one adjustable shelf and an exterior retrieval for sharps and infectious waste that can be deposited from the inside of the vehicle.
57. Compartment F shall be 59” high x 20” wide x 18.5” deep and will be located behind the driver. This compartment will be for oxygen storage.
58. Compartment F will have a dog leg recessed area with a minimum of 7.5” wide and a total depth of 21.5”. This space can be used for a stair chair or folding stretcher.
59. The outer face of the doors shall be formed from one sheet of 5052-H32 aluminum and shall be flush with the side body. All corners shall be a welded a minimum of two inches in each direction.
60. The inner door frame shall be a .125”/.250” thick aluminum extrusion. The extrusion shall extend around the entire Inner perimeter of the door skin. Where the corners meet, each shall be welded to prevent pulling apart.
61. Both patient compartment and exterior compartment doors will be provided with an extended rubber seal consisting of a custom hollow cell bulb gasket.
62. All doors will be attached using 1/4 -20 stainless steel hex bolt with stainless steel piano hinges with a pin of at least .250” in diameter.
63. Door latches, hinges, and hardware shall be stainless steel. All exterior patient and equipment compartment doors shall have a flush slam latches with stainless steel hardware. Cable operated latches are not acceptable.
64. TriMark 9” door paddle handles latches with a full floating ergonomic handle shall be utilized.
65. The curbside and primary rear entrance doors to by the patient compartment shall have upper and lower emergency release allowing the striker bolt latch. Release levers shall be yellow rubber coated.
66. An “L” shaped 1” diameter stainless steel tube assist handle shall be installed on the inside of each patient entry door.
67. Trailing doors shall have a patented side release paddle handle that eliminates the necessity of reaching into the patient compartment through the door.

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68. All compartment doors shall be constructed as the entry doors. All access doors must be encased by a doorjamb that is separate from the body skin.
69. The rear modular doors shall use a Cast Product type open door holder to be placed at the upper side of the doors.
70. The interior surface of the patient compartment doors shall be made of brushed aluminum.
71. The center of all interior entry door panels will include a 7" red/white reflective stripe.
72. Exterior compartment door panels (interior side) will be made of diamond plate aluminum.
73. A hidden "unlock" switch will be located in the grille area (passenger side) to unlock the front cab doors only.
74. Compartment and entry doors shall be painted separately from the modular body.
75. Exterior compartment lighting for storage compartments will be accomplished utilizing low voltage, factory sealed, recessed mounted lights activated by magnetic switches.
76. An additional compartment light shall be added to the right front below the fixed shelf.
77. The curbside modular door will have a sliding window w/ screen installed.
78. Curbside door will have a minimum opening of 73".
79. An open door indicator light or compartment ajar light will be automatically activated at the console.
80. Rear modular doors will have fixed upper windows with privacy glass. 22.5" x 13.5".
81. The modular will be constructed with additional enhancement with structural box section aluminum.
82. The floor top shall consist of 7-ply, 3/4", and marine grade plywood. The plywood will be coated with a marine resin coat prior to installation. The floor must extend full length and width.
83. The entire underside of the rear module will be sealed.
84. The rear step bumper shall be reinforced and constructed of 10 gauge steel "C". The center portion shall be hinged to allow it to be flipped up. A gator grip surface shall be used.
85. The rear bumper assembly shall have I-beam constructed skid plates with tow eyes mounted to the frame/bumper.
86. There will be a 1/2 inch gap between the bumper and the body for drainage. Above the rear bumper, there will be a protective diamond plate kick panel affixed with ceramic coated stainless steel screws.

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87. Stone guards shall be mounted 28" high at the front corners to protect the lower box.
88. Fender flares will be constructed of rubber and provided around the rear wheel well.
89. Diamond plate running boards with gator strips shall be installed under the cab doors.
90. The vehicle shall have a skirt line/rub rail installed. It shall be 2" wide x 1" high with 45 degree beveled edges.
91. Mud flaps shall be installed at the front and rear.
92. The Vehicle shall be painted: Red – the entire vehicle except the upper modular box roof FLNA 3047. White – Upper modular box and down to and including the upper drips rails.
93. 3-M Striping shall be used. Bright yellow, center strip 6", with angle upward on front of modular box. 1" on either side to be left blank, 3-M, 1", reflective stripe on either side of center stripe across the cab and modular box. Lettering and striping to match current fleet.
94. Star of Life to be installed on the roof.
95. KKK label package to be installed.
96. Wiring shall consist of copper and conform to SAE J1292 requirements. Wiring shall be GXL cross linked, high temperature polyethylene or better insulation, rated to 300 degrees F. All wires carrying a load in excess of 5 amps shall be required of the same size as a power lead.
97. Wires shall be permanently marked by number and function codes.
98. All added wiring shall be located in accessible, enclosed, and protected locations and kept at least 6" away from exhaust components. All wiring in the oxygen compartment shall be enclosed in metal conduit.
99. All conduits, looms and wiring shall be secured to the body or frame with insulated metal cable strips.
100. All circuit connections will be made on screen printed circuit boards with all circuits fully numbered and clearly marked.
101. A service loop of wire or harness shall meet KKK-A-1822-F specifications.
102. All wires between the cab and module shall be connected to a terminal strip or block.
103. No splices shall be permitted, except for pig tail devices.
104. An instrument console will house a switching panel and radio installation. The console will incorporate full-sized rocker switches, status indicator lamps, throttle control, and volt gauge.

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105. All switches and controls for the patient compartment including those for the heat/air unit will be located in this area.
106. Four antenna coax which will include Motorola mounts on the roof of the vehicle. One in the electrical cabinet, another in the driver's seat base, and the third in the exterior compartment E.
107. There shall be cigarette style outlets with diode protection. A 12-volt cigarette style outlet will be installed in the action area. An additional cigarette style outlet will be located in the right front bulkhead.
108. A 20 amp. Super Auto Eject shall be installed and located on the face of the module.
109. A shoreline indicator light shall be installed above the shoreline.
110. A 110 VAC, shoreline (with medical grade GFI protection) shall be located in the action area, inside of the front bulkhead compartment, curbside over the foot of the squad bench, in the telemetry area, and in the O2 interior cabinet for IV warmer.
111. A Vanner 20-1050 CUL combination 1050 watt inverter / 55-10 amp battery charger/conditioner.
112. Driving lights / PIA Model 5112 installed and wired to the headlight switch.
113. The ambulance shall have a Datcon voltmeter installed on the front switch console.
114. A Kussmaul sequencer load manager shall be installed to operate all emergency lights with a five second delay. The switch shall be mounted in the console.
115. The sequencer shall have an in-gear override / neutral safety switch.
116. A Whelen 295-HFSR MI (hands free – silent test) shall be installed with “Q” sound.
117. Siren will be wired to the OEM horn ring.
118. Two 100-Watt siren speakers (Cast Products SAD P4314) will be mounted in the front bumper.
119. A back-up alarm with auto reset will be installed to activate when the ambulance is placed into reverse. The device must meet or exceed OSHA and SAE J994 requirements and be rated (SAE) for Type C or B.
120. All lights must meet Federal KKK 1822-F Specifications
121. Warning, scene, and load lights shall be installed as specified.
122. Vanner 5860 WC warning light flashers to be installed for all warning lights.

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123. Seven (7) 900 Series Super LED warning lights shall be installed across the front of the modular box.
124. Front Modular Box warning lights include: Six-RED- and one center Clear Whelen Super LED 900 series lights. Red Red Red Clear Red Red Red (spaced equally).
125. Front six 900 series lights to be labeled as light bar. They are to be wired to dual flash through an internal flasher.
126. Whelen Super LED Red warning lights: Two each side and Two rear facing. The two rear facing shall be seen through the windows of the opened rear modular doors.
127. One Whelen 900 Series Super LED clear to be center front mounted.
128. One Whelen 900 Series Super LED Amber located center above rear doors.
129. One Whelen LED 5L TIR 6 flashing light to be installed on the interior upper/outer corner of the curbside entry door. To be wired through the ignition switch when door is open and ignition on.
130. Four Whelen Red LED warning lights mounted in the front grille.
131. Two Whelen RED LED intersection warning lights mounted on the front fenders.
132. Two red and two amber LED warning lights shall be installed with applicable flasher in the corner cap clearance lights.
133. Red LED marker lights as clearance lights.
134. Vanner 5860 WC for KKK F Lighting package with flasher.
135. Two Whelen 9H, 8-32 degree scene lights installed on each side and controlled by a rocker switch on the control console.
136. Two rearward facing scene lights illuminate when the vehicle is placed into reverse.
137. Two Whelen 9HL, 8-32 degree scene lights to be installed at the rear. These lights will illuminate when the rear doors are open. These lights will illuminate when the vehicle is placed into reverse.
138. Two clear Whelen M4C flashing warning lights shall be mounted in the lower grille area. Lights shall be set to flash intermittently with a double flash.
139. LED style taillights shall be mounted in the rear kick plate. Two lights will be red, two clear back-up lights, and two amber turn/hazard lights.
140. Whelen taillight package shall be installed to cover 32 square inches of lighted surface area.

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141. LED license plate light.
142. The patient compartment ceiling will be seamless, white in color, smooth, hardened material, and flat to eliminate bio fluid infiltration.
143. Patient compartment dome lighting will consist of seven (7) dual intensity LED lights. Four shall be mounted over the primary patient area and three over the squad bench. The lights shall be mounted in the headliner.
144. The attendant shall be able to control the level of light provided by the seven (7) LED lights via a switch in the action control panel. The four lights over the primary patient will illuminate on the low setting when the side or rear modular doors are opened.
145. A stop well light shall be installed in the curbside stop well area and shall illuminate when the door is opened.
146. A 12-volt direct current incandescent light with switch shall be installed in the action area.
147. A 100,000+ candle power spotlight shall be hard wired into the 12-volt vehicle system and mounted in the cab area accessible to either driver or passenger.
148. Additional compartment lights shall be installed in the right front cabinet below the shelf and in the D exterior compartment between the shelf areas.
149. A "Little Lite" light with flex shaft shall be installed on the passenger side of the front console.
150. There will be a momentary switch checkout timer located inside the curbside door entry. When activated, the light and functions within the box will come on for 5-15 minutes.
151. A digital clock with count-down timer shall be located above the action area.
152. Two stereo speakers shall be flush installed in the ambulance box roof with a volume switch in the action area.
153. A suction pump shall be installed with an in-board vacuum aspirator, which will be mounted above the action area tray. The on/off switch is to be located on the attendant console.
154. A SSCOR suction system with model #22000 regulator, disposable SSCOR canister and holder shall be incorporated. Model #22002 with 4 additional disposable SSCOR canisters shall be shipped loose.
155. The unit insulation shall be certified to meet smoke and flammability requirements set forth in FMVSS302. The insulation shall have R-14 value and the ceiling will be insulated with three-inch thick temperature rated R-11.

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156. Additional reflective insulation shall be added to the wall and ceiling areas.
157. An overhead grab rail shall be installed and run the full length of the modular body.
158. There shall be “L” shaped styled grab handles on the interior of the modular doors.
159. Oxygen “M” or “H” style rack for large oxygen tanks will be located in the left front compartment with (3) ratchet style straps.
160. An electric oxygen system with Ohio Style outlets shall be installed with a manual by-pass switch in the action area. Oxygen Ports shall be located in the action area and at the head of the squad bench.
161. Two Flow Meter oxygen regulators with dial type 7MFA 1105 shall be installed for interior oxygen ports.
162. A large 50 psi oxygen regulator shall be provided.
163. Cot Mount for Stryker Cot (MX PRO).
164. A Stryker rear safety hook shall be installed.
165. Cot: (One) Stryker MX PRO Cot with three stage IV Pole, head end (2 bottle holder, base tray, pocketed head end storage pouch, and dual brake shall be provided with mattress, straps, and shoulder straps (for vehicle one).
166. Two IV Holders, one located streetside, and another located curbside up at the ceiling. They shall have a hook and Velcro for stabilizing the bags.
167. Modular box interior vertical edges shall be protected by aluminum extrusions, the face material shall be constructed of commercial grade laminate and adhered using high quality poly vinyl adhesive with thermal press application. There shall be no voids of the adhesive material and the cabinet surfaces.
168. Interior cabinet construction shall consist of Feather Ply Plywood and shall be $\frac{3}{4}$ inches thick.
169. Cabinets shall use 8 mm dowels and placed no more than 32 mm apart. Dowels shall be hardwood and pre-glued.
170. Interior cabinet doors shall use European style hinges and 3 mm edge banding. Center and lower cabinets shall be flush mounted using stainless steel piano hinges.
171. The counter tops shall be covered with acrylic material incorporating a one inch lip around the tray. It shall be permanently affixed and sealed around the edges.
172. Patient area flooring shall be impervious to fluids, glued to the floor, and be colored “Brushed Pewter”. The floor shall roll up on the sides and rear of the patient compartment.

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173. A threshold shall be formed where the floor meets the passenger compartment to eliminate fluids from flowing over.
174. An EVS Style, High back bucket seat with 3 point seat belt shall be installed. The seat shall be constructed of seamless material.
175. The Attendant seat shall have a metal base with diamond plate floor and a lever latch.
176. Patient compartment seats and upholstery shall be constructed of 32-ounce nylon reinforced commercial vinyl material. All material must meet OSHA Blood Borne Pathogen requirements.
177. Seat belts and patient restraints shall be provided for the patient and crew safety. A three point at the attendant's seat, 3 patient restraints on the squad bench, and the ability to seat belt three seated patients.
178. Three "medical glove" boxes shall be installed with Lexan hinges over the curbside door and glove box cabinet.
179. The squad bench lid shall be attached to the single squad bench assembly using stainless steel piano hinges. The lid will be a single piece, with a locking device that secures automatically.
180. The squad bench shall be held open by a min. #60 gas strut.
181. (1) bio-hazard trash container and (1) Sharps disposal container shall be located at the head of the squad bench. Each shall be located in a motion stable bin with lock.
182. A CPR seat shall be installed with a fixed back section.
183. Interior Cabinet "M" shall be located above the telemetry area and will be approx. 7.25 inches high and the same depth as the other street side cabinets.
184. There shall be an open area for telemetry equipment on the rear side of the CPR seat.
185. Cabinets J/K will consist of one long cabinet approx. 45" wide with grey Lexan sliders that cover the entire opening. The cabinets shall have a fixed center divider with one adjustable shelf on either side of the center. Clips shall be used to secure the shelves.
186. Interior Cabinets L1 & L2 shall be one large cabinet with clear Lexan sliding doors covering the single opening.
187. 1-Biohazard waste and 1-sharps disposal (one-gallon) containers to be located in the action area. The trash is to be removed through an exterior compartment just below the action area. Both waste areas will have a flip-up type container.

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188. The action area will be covered with a solid surface poured acrylic material with a 1" lip. The tray will be permanently fixed and sealed around the edges.
189. The telemetry area shall also be covered with a poured acrylic material with a 1" lip. This will be permanently fixed and sealed around the edges.
190. Interior cabinets shall contain shelves in areas (1) O, (2) J/K, and (2) L1/L2
191. Vertical Dividers shall be located in cabinets J/K and L1/L2
192. A Fire Extinguisher, 5lb ABC shall be shipped loose.
193. A DOT lettering package with roof star shall be installed prior to delivery.
194. Lettering: All lettering shall match current fleet with vehicle numbers to be determined.
195. IV Warmer, Smithworks, 12 VFM4L02 mounted in cabinet "O". It shall be powered by a 110 power installed within the vehicle. With adapter 12 VRFE.
196. Cast Products- Double oxygen cylinder cup holder. D & E base. Two wall mount oxygen cylinder holders (Cast Product 0A0009).
197. To be included: Owner's manual, electrical schematics, full parts manual, bottle of touch up paint.