Tennessee Bureau of Investigation
Medicaid Fraud Response Unit
Specifications

A. CHASSIS

GVWR:	26,000 lbs.
Frame:	120,000 PSI steel frame. “C” Channel w/L reinforcement steel frame.
Wheelbase:	218”, CA: 145”
Axles:	Front axle: 10,000 lbs. Wide track, I-beam type Rear axle: 17,500 lbs.
Suspension:	12,000 lb. spring taper-leaf front suspension. Air ride Rear Suspension
Bumpers:	Front bumper: Steel swept chrome plated steel. Rear bumper: Full width 12" deep heavy-duty aluminum painted to match the body.
Engine:	Minimum 6.8L V10 Gas.
Horsepower:	Minimum Net 362 @ 2200, torque: 660 @ 1600 RPM.
Cooling System:	Front mounted 1100 sq. in. aluminum radiator, engine oil cooler. Nylon surge tank.
Oil Filter:	Spin on, frame mounted.
Gauges:	Air Cleaner Restriction Gauge mounted on instrument panel. Transmission Temperature Gauge Dash mounted.
Exhaust:	Single horizontal right side mounted inside frame rail. Includes temperature control device
Rear End:	40,000 lbs. capacity Ratio: 4.88
Alternator:	DR 12v 160 Amp, 24-SI Quadra-mount.

Batteries:	Two (2), Group 31, 2200 CCA total.
Transmission:	Six (6) Speed Automatic
Fuel system:	Dual 120 gallon (total capacity) (2) 60 U.S. Gal tanks, mounted under cab entry doors.
Mirrors:	Electric remote control, lighted, heated 102” wide load, integral arm, and integral convex mirror.
Steering Column:	Tilt-wheel, adjustable steering column.
Tires:	Front: (2) 12R22.5G Rear: (8) 11R22.5G
Wheels:	22.5” x 8.5” 10 HUB pilot aluminum.
Air Brakes:	Spring Hydraulic with channel abs
Air Compressor:	13.2 CFM, Bendix Tru-Flo 550 or equal,
Hooks:	Front tow hooks.
Color:	White
Radio:	AM/FM/CD player and speakers.
Airbags:	Driver & Passenger airbags w/ on/off switch for pass side airbag.
Driver/Pass Seat:	High back air ride bucket cloth driver seat and std. passenger seat.
Windshield Wipers:	Single switch intermittent.
Air conditioning:	Factory installed in conjunction with heater, with dash controls.

B. VAN BODY

1.) Dimensions:

Overall Length -	216” Approx.
Overall Width -	96”
Overall Height-	152" Approx.
Interior Width-	88"
Interior Headroom -	83”

2.) 18' load space aluminum van body.

3.) All aluminum commercially available production model body (no exceptions). May not include any proprietary construction techniques or components. Built to the following specifications:

a.) Aluminum alloy double H wall beam, 6005-T5 alloy, 3” x 3” wide at the base, 1.5” wide at the top, 0.125” wall thickness 24” on center. Studs feature machined wire pass-throughs, and raised adhesive control features on base. Include photo documentation of body with proposal to verify that vendor can meet this requirement. Photos must show interior structure and exterior of the body.

b.) I-beams chemically bonded to sidewalls eliminating the need for additional rivets. Buck-rivets will be used to fasten the top, bottom and rub rail. Use of two-sided tape is not acceptable.

c.) Body shall have 0.125" strain-hardened aluminum alloy 5052-H36 side panels. The upper panels shall be free of rivets allowing for smooth graphics application.

d.) Skirt supports, 1.5” x 1.5” x 0.125” angle to reinforce skirt edge and hold bottom edge in a straight line. 0.188 x 1.00" flat braces placed at 4' intervals and riveted to lower wall angle and floor to maintain sidewall skirt rigidity.

e.) Fender flares, 1.38” x 2.25” x 0.090” roll formed and radiused 5052-H32 aluminum sheet, mechanically fastened to wheel opening. Edges sealed against moisture and painted to match the body – no exceptions.

f.) NFPA 1901 embossed 0.125" aluminum tread plate roof attached to 3" x 1.5" x 0.125” extruded aluminum roof bows on 16" centers. Bows are 2” skip welded every 12”. Tread plate seams to be continues welded - no exceptions. Bows feature machined wire pass-throughs, and raised adhesive control features on base - no exceptions. Perimeter of roof shall be chemically sealed. Include photo documentation of roof with proposal to verify that vendor can meet this requirement, photos must show interior structure and

exterior rooftop. Simply stating comply without the photo documentation will result in disqualification.

g.) Extruded aluminum floor with interlocking planks, 1.88" high x various widths, 0.125" top surface. 6005-T5 alloy and temper. Heavy-duty thick-wall extruded planks fore and aft of all floor cutouts and every 5th plank in all other areas. Planks made of 6005-t5 alloy and temper, 0.250" thick top surface.

h.) Full width rear bumper painted to match the body.

i.) Full length skirting. Skirt shall extend 32” down from the bottom of floor extrusions.

j.) All clearance and side marker lights to be LED.

k.) Standard structural warranty of 5 years or 50,000 miles and standard component warranty of 12 months or 12,000 miles.

l.) The vehicle shall be fully sanded on all exterior surfaces with no more than 150 grit paper. This will assure removal of imperfections in metal surface. All aluminum shall be chemically etched and primed prior to painting. Base body color shall be oven baked and painted to commercial truck standards.

4.) Walk through access from cab to body, finished with fabric/carpet that matches cab interior.

5.) All step wells shall be equipped with automatic step-well lights.

a.) Lights to be controlled through vehicle automation system. Vehicle automation system will be configured to automatically illuminate lights when the door is opened and will automatically turn off if the door is in the open position for more than 20 minutes. Touch screen(s) shall have a courtesy light on/off icon on the LIGHTING screen.

6.) Body to be fully under-coated.

7.) Body color to be – White.

8.) Flat floor slide out room extension fabricated with a structurally rigid welded aluminum tube design with a fully bonded aluminum shell. During deployment an electronic control system automatically expands the room extension and lowers the floor to flush position. Built to the following specifications:

a.) Slide-out to be fabricated with a structurally rigid welded aluminum tube design with a fully bonded aluminum shell.

b.) 0.125" 5052 aluminum wall skins on slide-out.

c.) 1" x 3" x 0.125” 6061 aluminum wall beam channels with 2" x 6" wire chase slot 6" from the top.

d.) 2" x 4" x 0.125" 6061 aluminum lower tubular structure with 1" x 2" x 0.125” cross supports.
e.) 1" x 4" x 0.125" 6061 aluminum upper tubular structure with 1" x 1" x 0.125” cross supports.
f.) All exposed tube ends to be capped before welding assembly together.
g.) Flexible wire chase to be fully enclosed in aluminum channel with access cover. Fabric covered or exposed cable chase will not be acceptable under any circumstance.
h.) Awning that automatically extends and retracts over the top of the room to protect from weather and debris.
i.) Full perimeter double rubber bulb seal with an additional seal in the fully extended and fully retracted positions.
j.) Slide out shall be fully automatic and shall not require the operator to manually move the floor panel or any other component of the slide out before or after deployment.
k.) No track or hardware shall be attached to the ceiling of the body.
l.) Multiplexed electric over hydraulic control system programmed to lower the slide out to floor height after full extension.
m.) Vehicle automation system touch screen(s) shall have a slide-out extend/retract icon on the MISC screen for each slide out room.
n.) There shall be an interlock through the vehicle automation system to prevent moving the vehicle with the slide out extended. Vehicle automation system to give audible and visual alert if the ignition is turned to on position when any slide out is extended.
o.) Include photos of vehicles previously built with flat floor slide out rooms with response. Photos must show slide out construction and fit and finish. Ergonomic safety and efficiency is of utmost importance in the design and functionality of this vehicle, therefore, above floor or straight out slide outs will not be acceptable. There will be no exceptions to any of the slide out requirements.

C. ***DRIVER CAB AREA REQUIREMENTS***

1.) Emergency lighting controls, driver’s area radio, and back up camera monitor shall be mounted to the dash.

2.) Provide and install one (1) Black Out Panel System.
   a.) Front windshield and door windows.
   b.) Black CORDURA fabric.

3.) Provide and install one (1) back-up camera system.
    a.) Monitor mounted on dash.
    b.) Activated when unit is shifted into reverse.
    c.) Camera mounted on rear of unit.

4.) Provide and install placards for weight and height.
    a.) Vehicle height sign on dash. Vehicle weight sign w/ axle loads & available axle payload.

5.) Provide and install one (1) red/white dome light.
    a.) Located in headliner.
    b.) Switched on dash.

6.) Provide and install one (1) gooseneck light located on front dash, Federal Signal Model LF18ERB or equal.

D. CEILING

1.) Insulate ceiling with a minimum of 2-1/2” of fiberglass with an R-11 rating.
    a.) Applied with a minimum coverage of 90% sprayed contact cement on both surfaces.

2.) Cover interior roof beams with ½” plywood sub wall, structural plywood sub wall, Exposure 1-APA, 5 ply, face veneer plugged and sanded. Meets California Air Resources Board (CARB) phase 2 requirements.
    a.) Sub-ceiling to be applied with flush head mechanical fasteners spaced on a maximum of 16" centers.

3.) Ceiling shall be 3-piece modular design to allow easy access for future wiring additions and/or maintenance. Include photos of modular ceiling construction with response. No exceptions.

4.) Cover sub-ceiling with ribbed, acoustical, flame retardant, and mildew resistant loop pile fabric.
    a.) Applied with a minimum coverage of 90% spray grade contact adhesive applied to both surfaces.
    b.) Color to be determined.

E. FLOOR

1.) Floor underlayment to be 5/8” exterior grade tongue and grove structural plywood, Exposure 1-APA, 6 ply, face veneer plugged and sanded. Meets California Air Resources Board (CARB) phase 2 requirements. Sub-floor to be applied with flush head mechanical fasteners spaced on a maximum of 12" centers.

2.) Cover sub-floor with commercial grade flooring.

3.) Lonseal Loncoin II Flecks 150 Onyx non-skid commercial grade PVC flooring. The flooring shall be continuous, one piece full length, full width, no seams – no exceptions.
   a.) Flooring to have a minimum 10-year limited warranty
   c.) All exposed edges to be capped with aluminum angle.
   d.) Color to be determined.

4.) Provide and install cove base molding at wall/floor interface.
   a.) High black vinyl, 3”.
   b.) Secured with silicone based adhesive.

F. WALLS

1.) Insulate walls with a minimum of 2-1/2” of fiberglass with an R-11 rating. Applied with a minimum coverage of 90% sprayed contact cement on both surfaces.

2.) Cover interior body side posts with ½” plywood sub wall, structural plywood sub wall, Exposure 1-APA, 5 ply, face veneer plugged and sanded. Meets California Air Resources Board (CARB) phase 2 requirements. Sub-wall to be applied with flush head mechanical fasteners spaced on a maximum of 16" centers.

3.) Cover sub-wall with gloss white laminate material.
   a.) Applied with a minimum coverage of 90% sprayed contact cement on both surfaces.
   b.) All seams hidden or covered with laminated rail.
   c.) Standard grade.

G. DOORS

1.) One (1) 32" wide 0.125" aluminum sedan door with 21.5" wide x 25.5" high fixed window and mini-blind. Door shall have continuous stainless steel piano hinge, two (2) nylon door straps and an aluminum drip rail.
   a.) 90 degree swing stop on top edge of door.
   b.) Flush mounted Trimark latch.
   c.) Aluminum tread-plate step-well with automatic courtesy lights pull out steps mounted under flat floor on curb side.
   d.) Provide and install aluminum kick-plate on bottom of door.

2.) Provide and install entry assist grab handles.
   a.) Chrome with rubber inserts.
   b.) 30 degree offset stanchions.
   c.) Located at entry door inside/outside.
   d.) Handles to be 24" in length.

3.) Features common to all doors.
   a.) Install 2" wide, black non-skid tape on step tread.
   b.) Install yellow/black reflective tape on outboard edge of door.

H. ELECTRICAL SYSTEM-120V-AC

1.) Provide and install one (1) 10KW diesel generator

2.) Compartment shall be constructed to the following specifications:
   a.) 0.187" aluminum with all welded seams.
   b.) 2" deep 0.125" aluminum box pan doors and 0.125" aluminum frames.
   c.) Door frames riveted to the body and welded to the compartments.
   d.) Stainless steel door hinges attached with stainless steel machine screws.
   e.) Flush mounted door handles with slam latches.
   f.) 0.125" perforated aluminum panels on interior door surfaces.
   g.) Gas charged lift/support cylinders to hold doors open at 90°
   h.) Industrial grade neoprene gasket door seals.
   i.) Sound barrier lining on interior compartment walls, ceiling and doors. Sound barrier material consists of metalized mylar facing, 1"" sound absorbing foam, 1.0#/sf barrier, 1/4"" foam decoupler and a 3 mil. acrylic pressure sensitive adhesive with a 76# kraft paper liner.
   e.) Existing vehicle fuel tank tapped for unit.
      1.) Tapped so that vehicle still has between 1/8 and 1/4 tank.
   f.) Generator will use vehicle battery for starting.
   g.) Generator to be mounted on slides.

3.) One (1) Custom programmed vehicle automation system.

a.) Furnish and install a multiplexed vehicle automation system incorporated into a common touch screen that is custom programmed to monitor and control onboard systems as described throughout these specifications. The automation system software must allow simultaneous distribution of information to multiple onboard control/monitoring stations and the software must be updateable and configurable as required. This system is mandatory as it simplifies start up procedures, contains fewer operating components, reduces operational start-up time, reduces the total amount of wiring in the vehicle and has error detection protocols and troubleshooting features.

b.) One (1) 10” LCD touch screen with custom graphics for control and monitoring in body area.

c.) One (1) touch pad with custom graphics for local control in cab.

d.) AC power distribution control and monitoring for the generator with power management.

e.) DC power distribution control and monitoring with I/O channels and 3 battery banks.

f.) Manual or automatic generator control.

g.) HVAC and temperature control.

h.) Lighting control.

i.) Automatic power transfer switches.

j.) Automated startup and shutdown mode that will enable the command center to be fully operational/fully deployed in no more than ten minutes time by a single operator.

k.) Storage mode configuration to ensure auxiliary and chassis battery systems are maintained at full charge capacity. Storage mode must also control heating and air conditioning systems at a preset level to maintain interior vehicle temperature.

l.) Battery Tend mode that automatically starts the generator and charges all battery banks when voltage drops below a user definable voltage setting. The generator will run for approximately two hours to fully charge the battery banks and then shut down.

m.) Travel mode to maintain interior vehicle temperature and power to critical equipment, such as computers and radios, as the vehicle is traveling to and from the incident scene.

n.) Safety interlocks and warnings. The automation system touch screen(s) will automatically display a warning message and give an audible alert when the ignition switch is turned to the on position with an item deployed. In order to easily identify the item causing the alert condition, the screen(s) must display a list of all items that are deployed, i.e. mast, slide out, leveling jacks, awning, etc.

o.) Built in back up features to ensure system is always functional.
p.) Vehicle automation touch screen(s) to have a minimum of four tabs, POWER (home), LIGHTING, HVAC and MISC. The POWER screen will display the main power control icon, AC power source (i.e. generator, shore power or auto-eject) and all AC/DC information as described elsewhere in these specifications. The LIGHTING screen will display all lighting control icons as described elsewhere in these specifications. The HVAC screen will display HVAC control icons and settings as described elsewhere in these specifications. The MISC screen will display miscellaneous information as described elsewhere in these specifications and will also have the Auto Startup, Auto Shutdown, and Storage Mode icons. Include photos of touch screen control panel with response.
q.) Vehicle automation touch screen(s) to have a Utility page that when accessed will show the status of system modules, gen hour meter adjustment, AC system override, and other system control features.
r.) Vehicle automation touch screen(s) will automatically time out to a digital clock after 10 minutes of nonuse. Digital clock is to have 12 and 24 hour modes that are user definable.
s.) Vehicle automation system must be completely upgradeable. Additional components may be added into system with a simple software modification.
t.) Vehicle automation system must include electronic over-current protection (no fuses permitted) with fault indication and automatic restoration.
u.) None of the vehicle automation components and systems may be proprietary.

5.) Provide and install one (1) 120/240 Shore cord.
a.) 50 Amperes capacity. Twist lock connectors
b.) 30 foot in length.
c.) 50 amp to 30 amp adapter.
d.) 30 amp to dual 15 amp adapter.
e.) Cord hard-wired through 50 ampere double pole circuit breaker.
f.) Stored in electrical compartment.

6.) Provide and install one (1) 80 Ampere power converter.
a.) Produce a filtered, regulated 12VDC output with a variable input.
b.) Units must keep battery voltage within one (1) volt of optimum charge at maximum 12VDC draw.
c.) Work in unity with each other without the use of external isolators.
d.) Converter shall never "over charge" the batteries.

e.) All DC electrical shall be controlled and monitored through the vehicle automation system. The POWER (home) screen shall display the chassis battery voltage and amperage load, auxiliary battery bank voltage and amperage load, and the communications battery bank voltage and amperage load.

7.) Provide and install ten (10) interior duplex wall receptacles.
a.) Brushed stainless steel covers.
b.) Receptacles located near a source of water will be GFI rated.
c.) Controlled through the vehicle automation system - no exceptions.

8.) Provide and install two (2) GFI exterior duplex receptacles.
a.) Exterior grade weather resistant covers.
b.) Flush mounted into exterior.
c.) Controlled through the vehicle automation system - no exceptions.
d.) Two (2) dedicated 20 Amp circuits.

9.) All 120 VAC main wiring.
a.) 6 gauge minimum.

10.) Provide and install one (1) shore power inlet.
a.) 50 Ampere capacity. Twist lock connectors.
b.) Cord hard-wired through 50 ampere double pole circuit breaker.
c.) 6' 120/240 pigtail provided.

I. ELECTRICAL SYSTEM-12V-DC

1.) Provide and install one (1) 8D Gel batteries.
a.) mounting to be powder coated steel angle and channel uni-frame construction.
b.) Shrouding with .063 brite plate.
c.) Batteries to be protected with mega fuse or hi-amp circuit breaker.
d.) Door to be 1 1/2" box pan construction, with
1.) polished stainless steel D-ring handle.
2.) Dual double rotary latches.
3.) 1 1/2" stainless steel hinge with 1/4" pin.
4.) Polished stainless steel drip rail.
5.) Gas struts to hold door open at 170 degrees.
6.) EPDM rubber seal around door.

2.) Provide and install one (1) automatic battery combiner.
a.) 200 AMP continuous, 600 AMP surge.
b.) Charges three battery banks with the alternator.

c.) Fully adjustable-low and high voltage disconnect and actual connect voltage.
d.) LED status indicators.

3.) Provide and install three (3) Interior 12VDC outlets.
a.) Cigarette lighter type.
b.) Mounted in stainless steel plates at each workstation.
c.) 5 Ampere rating per outlet.

J. LIGHTING-12VDC

1.) Provide and install up to fifteen (15) 4.75” LED flush mounted lights.
a.) Switch changes colors from white to blue.
b.) Located in headliner and above workstations.
c.) Model ITC # 69233SSNS-W/B
d.) Switched through automation system touch screen. Vehicle automation system LIGHTING screen to have light on/off icon with indicators.

2.) Provide and install six (6) WHELEN 900 series or equal halogen scene lights.
a.) Scene lights to be divided into three (3) zones and switched through automation system touch screen. Vehicle automation system lighting screen to have light on/off icon with indicators for street side, curb side and rear.
b.) Rear lights to operate when vehicle is placed in reverse, in addition to the switch on the power panel.

3.) Provide and install Automatic step-well lights.
a.) Located in entry door step-wells.
b.) Activated when door opens anytime.
c.) Master override switch on power panel.

J. WIRING REQUIREMENTS

1.) Terminals to conform to MIL-T-7928 and MS 25036.
a.) Terminals to be crimped with tool recommended by manufacturer and per MIL-SPEC.
b.) Spade and hook terminals are unacceptable.

2.) All wiring to be supported with insulated clamps complying with MS 21919.

3.) Wire bundles to be tied with trimmed nylon cable ties.

4.) All added DC electrical circuits to be protected by resettable circuit breakers rated for 125% of circuit load.

5.) Full wiring schematics are to be provided.
- a.) 120 VAC main and branch distribution.
- b.) 12 VDC main and branch distribution.
- c.) Generator and shore transfer.
- d.) Audio/video distribution.
- e.) Low voltage control circuits.
- f.) Wiring to be color coded.
- g.) Numbered at both ends.
- h.) Charted on master wire list.

6.) All added wiring to be protected from chafing and abrasion.

7.) Electrical installation.
- a.) Complete 12 VDC system and electrical appliances will be to modern automotive standards throughout the installation.
- b.) Extreme care will be exercised to provide for easy serviceability of the system in the future years.

L. INTERIOR FEATURES

1.) Provide and install one (1) refrigerator/freezer.
- a.) Dual voltage- 12 VDC/120VAC.
- b.) Switched from 12VDC power distribution panel.
- c.) Switched from 120VAC power distribution panel.
- d.) 2.7 Cubic Feet.

2.) Provide and install one (1) SHARP or equivalent microwave oven.
- a.) 1000 watt minimum.

3.) Provide and install one (1) coffee maker.
- a.) Mounted under overhead cabinet in galley.
- b.) Switched from 120VAC power distribution panel.

4.) Provide and install two (2) custom inlaid deep tint horizontal slide windows.
- a.) 30"W X 22"H.
- b.) Window box on inside for day/night shades.
  - 1.) Covered with the same laminate used for the countertops.

5.) Provide and install two (2) roof mounted heat pump/air conditioner.
   a.) 15,000 BTUH cooling capacity.
   b.) 12,700 BTUH heating capacity up to 47degrees F.
   c.) 5,600 BTUH heating capacity below 47 degrees F.
   d.) Ceiling ducting with thermostatic control through the vehicle automation system touch screen. Vehicle automation system HVAC screen shall have a digital temperature display and an icon to increase or decrease the temperature setting for each air conditioner, there shall also be icons to choose fan high/low.

6.) Provide and install one (1) roof ventilator.
   a.) Unit to be high volume with three (3) fan speeds.
   b.) Unit to have reverse air flow capabilities.

7.) Provide and install wire chases.
   a.) 3/4" X 4" wide.
   b.) Mounted with chrome trim screws.
   c.) Minimum of 3 screws in any one chase cover, with screws placed no further apart than 24".

8.) Provide and install Safety equipment to consist of the following.
   a.) 2-5lb. ABC rated fire extinguishers.
      1.) one located behind drivers position.
      2.) one located inside rear doors.
   b.) 3-9VDC smoke/carbon monoxide detectors.

9.) Provide and install 1” blinds for all exposed windows.

M. <u>CABINETS</u>

1.) Custom fabricated powder coated aluminum cabinets, include photos of upper cabinets and base cabinets with response - no exceptions. Cabinet specifications:
   a.) Base cabinets constructed of 0.080" powder coated aluminum with anodized aluminum frames.
   b.) Base cabinet doors are double shell, formed from a single sheet of 0.080" aluminum, with a 0.040" aluminum door back attached.
   c.) Overhead cabinets constructed of 0.064"powder coated aluminum with anodized aluminum frames.
   d.) Overhead cabinet doors are double shell, formed from a single sheet of 0.064" aluminum, with a 0.040" aluminum door back attached.
   e.) Overhead cabinet doors swing up on a full-length aluminum hinge, and are held open with a locking door stay.
   f.) Radius edging incorporated on all overhead cabinets.

g.) Dry erase writing surface on all overhead cabinet doors.
h.) Dual gas shock lift supports on all overhead cabinet doors.
i.) LED strip lights under overhead cabinet. Power to lights to be controlled through the vehicle automation system touch screen display. Vehicle automation system LIGHTING screen to have light on/off icon with indicators.
j.) All work stations and galley to have custom fabricated Wilsonart Gibraltar 1/2" solid surface countertop bonded to subsurface. Countertops shall have a 1-1/2" front radius edge.

2.) One (1) 19” EIA electronics rack.
a.) Custom fabricated mounting system to secure forty-space 19" wide x 26.5” depth (24” useable depth) open framed EIA electronics equipment rack with caster base. Rack to easily roll out from its fixed position allowing full access to rack mounted equipment. Include photos of rack installation and accessibility with response.
b.) Plexiglas front door with key lock for forty-space rack.
c.) Top fan panel, with two (2) 50 cfm ventilation fans installed on forty-space rack.
d.) 15 amp power strip with eight (8) outlets installed in forty-space rack.

N. AUDIO/VIDEO

1.) Provide and install one (1) 50” LCD Flat Panel LCD HDTV.
a.) Switched on 120VAC power distribution panel
b.) Provide one (1) intergraded SmartBoard overlay

2.) Provide and install two (2) DVD/VCRs
a.) Switched from 120VAC power distribution panel.

3.) Provide and install one amplified directional antenna
a.) Mounted on roof towards front of unit.
b.) Model #RV-3095. Crank-up style.
c.) Amplifier located inside front overhead cabinet.
d.) Cable input from street-side to amplifier.
1.) Placed under exterior cover.

4.) Coaxial cable for TV distribution system.
a.) 20 AWG solid copper center conductor.
b.) Nominal attenuation of 6.4 db/100 feet @ 700 Mhz.

5.) Provide and install one (1) set exterior audio/video inputs.
a.) RCA style connections.
b.) Inputs located under exterior cover on side.

6.) Provide and install two (2) A/B switches.
    a.) To be able to select from antenna or CATV inputs.

O. EXTERIOR COMPARTMENTS & EQUIPMENT

1.) Provide and install Four (4) compartments.
    a.) One (1) generator.
    b.) One (1) for batteries.
    c.) One (1) electrical
    c.) One (1) for misc. storage.

2.) Compartments to be constructed as follows.
    a.) aluminum sheeting – minimum .090”
    b.) Hinges -1 1/2" continuous polished stainless steel w/ 1/4" pin.
    c.) All doors to have industrial grade EDPM seal.
    d.) Door hardware to consist of polished stainless steel, locking D-ring handles, and dual rotary latches with safety catch.
    e.) Upward opening doors to be held open to 170 degrees, and pulled closed with dual SPD gas pressurized springs.
        1.) Springs shall be individually computer selected to provide proper open/close handle pressures.
    f.) Compartments to be lined with DRI-DEK or equal to provide moisture protection of stored equipment.
    g.) All compartment to have identical keyed locks.

3.) Exterior Equipment and Accessories

    a.) Provide and install Mud flaps. Rear duals.

    b.) Underbody to be undercoated. (All exposed metal Underbody).

    c.) Provide and install back up alarm.

    d.) Provide and install one (1) power step at curbside load spaceentry door.
        1.) Mounted under curb-side entry door
        2.) Step to be controlled through vehicle automation system shall be configured to stay in the extended position when the truck is deployed with the ignition in the off position.

P. ***OTHER EQUIPMENT***

1.) Provide and install one (1) Dometic Weather Pro Awning 13', minimum length, electric awning with the following features:
   a.) Solid-state sensor automatically closes awning after detecting sustained winds
   b.) Exclusive Knee-Action Design prevents damage from sudden wind gusts
   c.) Heavy duty motor is fully contained in the roller tube, self-locks awning in travel position
   d.) Unique spring-arm mechanism automatically dumps accumulating rain water
   e.) Interlock through the vehicle automation system to prevent moving the vehicle with awning deployed. Vehicle automation system to give audible and visual alert if ignition is turn to on position.

2.) Provide and install one (1) computer controlled leveling system
   a.) 4-point System to be automatic leveling.
   b.) 17,000 lb. two-way straight acting jacks with 20" stroke.
   c.) Interlock through the vehicle automation system to prevent moving the vehicle with jacks deployed. Vehicle automation system to give audible and visual alert if ignition is turn to on position.

3.) Provide and install one (1) removable white board.
   a.) Stainless steel mounting brackets on exterior.

4.) Provide and install three (3) workstation chairs.
   a.) High back.
   b.) 5 arm spider base with dual casters.
   c.) Bungee harness to secure chair for transit.
   d.) Chairs will have pneumatic height adjustment.

Q. ***PAINTING SPECIFICATIONS***

1.) Van body to be painted white.

R. ***WARRANTIES***

1.) Cab chassis Manufacture Standard Warranty.
2.) Rest of Unit - Two (2) year against defects in materials or workmanship.

S. ***TRAINING***

1.) Upon arrival at customer's facility, one factory-authorized representative to perform the following training schedule.

A.) Eight (8) hours for drivers, operators, maintenance personnel, and other personnel with instructors present to provide further training.

2.) Training Subjects to Include but not Limited to the Following:

a.) Generator/Shore power systems use and maintenance.
b.) 12V DC and control systems use and maintenance.
c.) Communications systems use and maintenance.
d.) Audio/Video systems use and maintenance.
e.) Water systems start-up and shut-down procedures with simulation exercises.
f.) Vehicle automation system operation.