

S.W.A.T. VEHICLE STEP VAN CHASSIS

Specifications for

SVSVC-20

INSTRUCTIONS TO BIDDERS

This specification covers a new commercially built surface mobile training vehicle herein after referred to as module or vehicle. A vehicle in compliance with this specification shall be defined as a standard emergency vehicle. This vehicle shall be in accord with the Design Criteria of the National Highway Traffic Administration, U.S. Department of Transportation, Washington, D.C.

The purpose of this document is to provide minimum specifications and test parameters for the manufacture of an emergency vehicle that meets the needs and desires of this agency. It establishes essential criteria for the design, performance, equipment, and appearance of the vehicle. All dimensions listed are given as the approximate sizes required to meet the requirements of this department. The object is to provide a vehicle that is in accordance with nationally recognized guidelines. All vendors and manufacturers must meet all state and local regulations regarding the manufacturing, licensing, and sale of emergency rescue vehicles within the state.

This is an engineer, design, construct, and deliver type specification and it is not the intention of this agency to write out vendors or manufacturers of similar or equal equipment of the types specified. It should be noted, however, that this specification is written around the specific requirements of this department. With the intent to standardize certain components, certain specific brands have been specified in places. This has been done to establish a certain standard of quality. Other brands will be accepted providing the vendor or manufacturer details how another brand will meet or exceed the quality of the actual brand specified. Because of this, the Review Board reserves the right to accept or reject any and/or all bids.

The emergency vehicle, chassis, modular body, equipment, devices, accessories, and electronic equipment to be delivered under this contract shall be standard commercial products that meet or exceed the requirements of this specification. The vehicle shall comply with all Federal Motor Vehicle Safety Standards (FMVSS) and Federal regulations applicable or specified for the year of manufacture. The chassis, components, and optional items shall be represented in the manufacturer's current technical data. Materials used in the construction shall be new and not less than the quality conforming to current engineering and manufacturing practices. Materials shall be free of defects and shall be suitable for the intended use.

Any exceptions to these specifications must be clearly pointed out. Otherwise, it will be considered that the items offered are in strict compliance with the written specifications and that the successful bidder will be responsible for delivering a vehicle meeting these specifications. Any exceptions must be marked as such within the body of the bid and explained on a separate page marked "EXCEPTIONS".

INFORMATION AND DESCRIPTIVE MATERIAL

The bidder must furnish all information requested in the space provided on the bid form. The manufacturer must also supply at least one [1] complete set of sketches, descriptive literature, and complete specifications covering the products offered. Bids not meeting this requirement will be considered non-responsive and rejected.

PRICES AND PAYMENTS

All bid prices shall be on a F.O.B. destination and acceptance basis at the Purchaser's specified location. These Prices shall be complete and include warranty. Payment shall be made in accordance with these specifications and the Bid Proposal submitted by the Bidder. Payment shall be made upon acceptance of the vehicle(s) and equipment specified under these specifications. All bid prices and conditions must be specified on the bid proposal form. Bid prices shall be valid for at least thirty- [30] days from the date of the bid opening or as otherwise

specified on the bid proposal form. Full payment shall be made as each unit is received, inspected, and found to comply with the procurement specifications.

WARRANTY

There shall be provided a five year modular body structural warranty. The five year structural warranty period shall also remain in effect should the modular body be remounted onto a new chassis. This remount must be performed at a service center authorized by the original manufacturer.

WARRANTY SURETY

To ensure quality, service, and full compliance to the above warranties the vehicle, with the exception of the chassis, must be constructed by the body manufacturer. Additional elements constructed and installed “in house” are required to ensure service and parts availability. Subcontractors or lease/rental agreements to outside agencies will fail to meet this requirement. NO EXCEPTIONS WILL BE ALLOWED.

- Does the body manufacturer as the prime contractor construct the modular body?
- Does the body manufacturer as the prime contractor apply paint?
- Are interior cabinets installed by the body manufacturer as the prime contractor?
- Are the wiring harnesses, circuit boards, H.V.A.C., and electronics assembled, installed and tested by the body manufacturer as the prime contractor?
- Is the upholstery for seat cushions, head pads, and backrests assembled and installed by the body manufacturer as the prime contractor?

DELIVERY

Since delivery proposals by the bidder will weigh heavily in the determination of the bid award, the delivery schedules that are submitted by the bidders shall automatically become binding upon the successful bidder. Delivery delays due to component supply problems or chassis delivery problems to the manufacturer shall not penalize either the dealer or the manufacturer. Delivery must be within a maximum of six- [6] months from the date of the award of the bid.

ANTI-COLLUSION STATEMENT

By signing this bid, the bidder agrees that his bid is made without any understanding, agreement, or connection with any other person, firm, or corporation making a bid for the same purpose and that his bid is in all respects fair and without collusion or fraud.

Company Name: _____

Bidder Signature: _____

Data Signed: _____

SERVICE FACILITY

The successful bidder must have access to a service facility. Bidders must list below the nearest service facility and parts department to the purchaser.

Facility Name: _____

Address: _____

Phone Number: _____

Contact Name: _____

Approximate Miles

From Purchaser: _____

REFERENCES

All bidders must submit a list containing a minimum of ten [10] customers who are operating a similar vehicle as described in this specification. The customer reference list shall contain the Department name, address, phone number and contact person.

QUALITY ASSURANCE

To ensure the purchaser that proper engineering and production control guidelines have been implemented the body manufacturer shall employ an integrated quality and process control program including specific process controls for facets of the manufacturing process deemed to be critical. These critical elements of the process shall be documented and that documentation shall be available not only to manufacturing personnel but also customers who visit the manufacturing facilities. The critical elements shall be denoted on the vehicle control document, which accompanies the vehicle through the manufacturing process. A sample of this document shall be available to the purchaser upon request. A continuous series of inspections shall be performed and signed off on the vehicle control document and shall include but not be limited to the following:

Conduct a visual inspection of the vehicle body, body welds, and exterior attachments.

Conduct a visual and mechanical inspection of the heater/air conditioning lines, cables, grommets, valve connections, clamps, mounting brackets, belts, etc.

Conduct a visual inspection of the interior cabinets, also sliding/hinged cabinet doors, moldings, flooring, walls, headliner, and cushions.

Conduct a Visual inspection of the vehicle exterior paint, decals, and lettering.

Conduct an operational inspection of all electrical systems of the vehicle. This must consist of tests of battery voltage, electrical load tests, alternator output, beacons, flashers, siren, interior lighting, compartment lighting, power exhaust vent, scene lights, load lights, chassis lights, silent signal lights/buzzer, heat/cool unit, and any optional electrical devices as furnished by the manufacturer. The current requirements of each device tested must be noted on an inspection sheet together with the total current requirements.

All chassis fluid levels shall be checked and filled to capacity. All doors, locks, windows, tires, etc. shall be inspected for proper operation and/or condition.

The completed vehicle must be test driven a minimum of ten [10] miles on paved highways and [5] miles on rough terrain to check handling, brakes, acceleration, and noises.

SERVICE

A toll free number for service requests shall be provided and this number should be the primary contact for all service requests. Scheduling, parts information, and technical support should be available during normal business hours at this toll free number. Additionally the manufacturer must maintain a complete stock of module body parts for rapid replacement when necessary.

Manufacturer must provide a minimum of \$1,000,000.00 in Liability and Workers Compensation Insurance. A copy of this insurance certificate should be provided with bid. **NO EXCEPTIONS**

CRITERIA TO EVALUATE BIDS

Listed below you will find the criteria to evaluate bids for Lafayette Technical College. These criteria will carry as much weight as LOW BID so that the office of the Facilities Manager in evaluating bids will be able to recommend a bid that will be in the best interest for Lafayette Technical College. The criteria are as follows.

1. Low Bid
2. Availability: This unit is a replacement of equipment
and consideration of availability will be considered in the award of the bid.
3. Parts availability
4. Rated maintenance and operating data
5. Similar makes and models in the fleet and our
maintenance history with them.
6. Capability of vendor to supply the service required.
Ability of unit offered to perform the task of the user or department
7. Warranty: The length and coverage, including any
extended warranty.
8. Vendor Performance: How well the vendor performed.
 - a. Responsiveness
 - b. Assistance

- c. Training requirements
- d. Warranty claims

WITHDRAWAL OF BID

A Bidder may withdraw a bid any time prior to expiration of the period during which bids may be submitted by a written request signed in the same manner and by the same person who signed the Proposal. No bid may be withdrawn, modified, or otherwise changed once the bids have been opened. It will be assumed that each Bidder has thoroughly and completely familiarized themselves with these specifications at the time of the bid. Modifications to a bid, once submitted will not be permitted. Simply stated, if any item, feature, options, etc. Is not stated in writing in the Bidder's proposal, it will not be considered. Bidders are cautioned that verbal or written modifications to already opened bids are neither valid, or considered ethical, and the comparison and selection of bid award will proceed only from what is stated in Bidder's written proposal. **NO EXCEPTIONS**

AUTHORITY TO PURCHASE FROM EXISTING CONTRACTS:

All bidders submitting a response to this Invitation to Bid agree that such response also constitutes a bid to all governmental agencies under the same conditions, for the same contract price, and for the same effective period as this bid, should the bidder feel it is in their best interest to do so. Each governmental agency desiring to accept these bids and make an award thereof shall do so independently of any other governmental agency. Each agency shall be responsible for its own purchases and each shall be liable only for materials and/or services ordered and received by it, and no agency assumes any liability by virtue of this bid. This agreement in no way restricts or interferes with the right of any governmental agency to bid any or all items.

MANUFACTURING CAPABILITY

Manufacturer must submit proof of a minimum of 25 years manufacturing experience as the same entity

ENGINEERING CAPABILITY

To demonstrate your company's abilities and to show understanding of the written bid specifications, each manufacturer must submit with the bid, scale drawings of the vehicle it proposes to supply. Drawing must be "design and construct" drawing that will be used in the manufacturing of the vehicle. At a minimum it must show overall dimensions, compartment sizes, lighting package, and major specified options. The drawings should show the interior floor plan layout. The reproduction of the drawing furnished with the bid will not be acceptable as each manufacturer utilizes different material sizes and construction techniques. **NO EXCEPTIONS**

PLANT FACILITY

To demonstrate a Manufacturers capability, pictures of the interior of the plant facility during production hours must be submitted. A minimum of four plant photographs and one office photograph shall be supplied. One of the plant photographs must be an overhead view showing facility from the air.

EMPLOYEE STATEMENT

It is mandated by the United States Government that all employees currently and to be employed during the duration of this contract are not discriminated against because of race, creed, color, sex, national origin and disability. Further this agency must be satisfied that the primary manufacturer's labor pool is treated in a fair and equitable manner. Therefore, it will be the responsibility of the primary manufacturer to include a human resource statement outlining employment status, working conditions, and benefits.

PRE-CONSTRUCTION CONFERENCE

The successful contractor(s) shall be required prior to manufacturing to have a Pre-Construction conference at the site of his choosing with representatives of this agency to finalize all the construction details. If the bidder requires the conference to be held at a location other than that

of the purchaser, the bidder at his/her expense shall provide transportation, lodging and meals, etc., for two people designated by the purchaser. If this meeting is to occur at a location more than 300 miles from the purchaser's location, the transportation shall be by commercial air carrier.

FINAL INSPECTION

Two (2) members of the Lafayette Technical College, will travel to the manufacturer's plant for the purpose of inspecting the vehicle for compliance to the specifications and for the overall quality of the vehicle.

Costs shall include air transportation on a major commercial carrier to the nearest airport (ground transportation shall not exceed two hours), individual rooms, and meals. Inspections shall be scheduled and funded to be conducted during weekdays, including travel time.

CHASSIS BODY DIMENSIONS:

Wheelbase of chassis: 190". Overall length of apparatus, including rear step: 353".

Overall apparatus width, rub rail to rub rail: 96"

Rear step height from ground (loaded): 24"*

Overall height of apparatus (loaded): 144"*

Interior walkway height raw body: 83"

Interior walkway height finished: 81.5"

Interior walkway length: 240"

Interior raw body width: 93"

Interior finished body width: 85.5"

Estimated measurement dependent on chassis components, axles, tires, frame, suspension, and roof-mounted equipment

CHASSIS:

Freightliner MT-55 forward control chassis. 25,500-lb. GVWR with taper leaf spring rear suspension and hydraulic brakes.

ENGINE:

Cummins 300 HP

ENGINE EQUIPMENT:

2009 emission certification

Oil fill and dipstick located for enhanced serviceability

Frontal air intake

FARR ECO BC air cleaner with separator

Air cleaner mounted on rail

Leece Neville 12v 200 amp 4948pa pad mount alternator

(2) *Alliance* 1131 grp31 12v MF 1900 CCA threaded stud batteries

Electric engine integral warning & derate protection system with low coolant

Horizontal tailpipe, exit forward of rear tires

Custom fuel filter

Full flow oil filter

680 sq-in downflow radiator mounted in front

Radiator mounted surge tank

Antifreeze to -34f, ethylene glycol pre-mixed 50/50 coolant

Gates Blue stripe coolant hoses

Phillips-Temro 1000 watt/115 volt block heater

Nippon-Denso 12v starter with tungsten contacts and ground stud

TRANSMISSION:

Allison 2200 EVS automatic transmission with park pawl with PTO provision

TRANSMISSION EQUIPMENT:

Water to oil transmission cooler

Transmission oil check and fill

FRONT AXLE AND EQUIPMENT:

AF-8.0-2 8,000# FC1 72.0 KPI/3.74 drop single front axle

Bosch hydraulic pin-slide disc front brakes

Front disc brake rotors

Front oil seals

TRW TAS-55 power steering

2 quart power steering reservoir

FRONT SUSPENSION:

8,000# taperleaf front suspension

Maintenance free rubber bushings - front suspension

Gabriel front shock absorbers

REAR AXLE AND EQUIPMENT:

RS-17-145 17,500# single rear axle
5.13 rear axle ratio
Iron rear axle carrier with standard axle housing
SPL70 *Dana Spicer* main driveline with half round yokes
Transmission and rear axle driveline guard
Castrol Transynd synthetic auto trans oil & mobil synthetic 75w-90w all axles
Bosch hydraulic pin-slide disc rear brakes
Rear disc brake rotors
Rear oil seals

REAR SUSPENSION:

F/L 17,500# taper leaf spring rear suspension with radius leaf
Rear sway bar
Monroe rear shock absorbers

BRAKE SYSTEM:

Bosch hydraulic brake package
Wabco hydraulic 4S/4M without traction control

FRAME:

5/16"X2.81"X9-1/8" steel frame (7.94MMX231.8MM/.312"X9.12") 80KSI
Standard rearmost cross member

CHASSIS EQUIPMENT:

Three-piece 14" chromed steel bumper with collapsible ends

FUEL TANKS:

60 gal / 227 liter rectangular steel fuel tank - between rails
Length of auxiliary pickup tubes (generators, furnaces etc.) shall prevent these devices from using more than 75% of vehicle's fuel tank capacity

TIRES:

10R22.5 14 ply radial front tires, *Michelin* XZE 10R22.5 14ply front tires
10R22.5 14 ply radial rear tires, *Michelin* XDE M/S 10R22.5 14ply rear tires

HUBS:

Gunite iron front hubs with short stud length, *Gunite* iron rear axle hubs

WHEELS:

Accuride 28484 22.5x8.25 8-hub pilot 4-hand steel disc front wheels, *Accuride* 28484 22.5x8.25 8-hub pilot 4-hand steel disc rear wheels

CAB EXTERIOR:

Hood mounted chromed plastic grille

Dual electric horns

CAB INTERIOR:

Sanden compact air conditioner compressor
Auto self-reset circuit breakers and fuses
TRW tilt/3.00" telescopic steering column with foot actuated pedal
4-spoke 18" (450mm) lk charcoal steering wheel

INSTRUMENTS & CONTROLS:

Black instrument panel-driver
97 db backup alarm
Cruise control switches
Double-sided heavy duty ignition switch w/4 position off/run/start/accessory integral start
Integrated speedometer message center LCD display, data linked
2" electric fuel gauge
2" multiplexed engine coolant temperature gauge
2" transmission oil temperature gauge
Engine hour meter, integral to message center LCD
2" multiplexed engine oil pressure gauge
Multiplex speedometer w/LCD message display, odometer (mph)
Multiplexed tachometer 3000 rpm
Voltmeter; multiplexed
Wagner 7212 turn signal flasher

CHASSIS WARRANTY:

Two (2)-year/24,000 mile *Freightliner* MT-55 chassis warranty.
Two (2)-year/unlimited miles *Cummins* engine warranty.
Five (5)-year/unlimited miles *Allison* transmission warranty.

Block heater shall be wired to a switch on the AC control panel.

Stainless steel wheel liners with braided stainless steel valve stem extenders

DOT triangle reflector kit with three (3) triangles

BODY

Load space area shall be 83" high x 93" wide x 20' long all aluminum step van body.

Driver sedan door with slider window, door skin shall be chemically bonded to door frame structure reducing the amount of rivets required.

Door shall have continuous stainless steel piano hinge and two (2) nylon straps.

Passenger sedan door with slider window, door skin shall be chemically bonded to door frame structure reducing the amount of rivets required.

Door shall have continuous stainless steel piano hinge and two (2) nylon straps.

Sedan doors shall have a 0.125" aluminum tread plate step well for 18" skirt depth.

Sedan doors shall have black non-skid tape on all door entry sills.

Sedan doors shall have polished aluminum Tri-mark flush mounted locking hardware with self-aligning

rotary latch and matching key locks. Outside door handles not to exceed 50" from ground

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. Studs feature machined wire pass-throughs, and raised adhesive control features on base.

I-beams shall be 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.

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.

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.

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.

NFPA 1901 embossed 0.125" aluminum tread plate roof attached to 3" x 1 1/2" x 0.125" extruded aluminum roof bows on 16" centers. 90lb per sq ft weight capacity (no exceptions). Bows are 2" skip welded every 12" Tread plate seams to be continuous welded. Perimeter of roof shall be chemically sealed.

Lift-up molded fiberglass hood with chrome grill insert. Hood shall have integrated headlamps and turnsignal indicators and dual assist gas charged lift shocks. The use of mechanical assist springs is not acceptable.

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.

Bright polished front bumper.

Tinted safety plate glass windshield with driver and passenger sun visors.

Full width 12" deep heavy-duty aluminum rear bumper with center step, painted to match the body.

Integral cab air conditioning and heating system with dash controls.

Ve/vac heated remote control rear view mirrors with dash controls. Upper mirror has 62-sq.in. of flat surface and lower mirror has 30-sq.in. of convex surface. Mirror has a fold-away arm.

Driver seat shall be *Seats Inc.* Magnum 200 mechanical suspension seat on fixed pedestal. Seat shall be covered in black cloth and have arm rests, lumbar support, tilt back and 3-point seat belt. Passenger seat shall be black jump seat with 2- point seat belt.

Intermittent windshield wiper/washer with single heavy-duty windshield wiper motor.

Custom front wheel cutouts for tires.

Rear frame-mounted tow eyes extending past body.

Aluminum engine box cover with acoustical and thermal insulation. Black molded ABS composite engine box over-lay.

Acoustical and thermal insulation with heat shield on exterior fire-wall.

Full length skirting. Skirt shall extend 18" down from the bottom of floor extrusions.

Dash shall be vacuum formed ABS composite with integrated control pod located left of dash.

All clearance and side marker lights to be LED.

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

The vehicle shall be fully sanded on all exterior surfaces with no more than 150 grit to 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 with *Dupont Imron* 5000 to commercial truck standards

Two (2) 20-inch wide swinging rear doors with interior and exterior latches, exterior latch has key lock. Includes one window in each door.

Permanent labels installed on the interior rear doors illustrating handle rotation direction.

Change passenger seat to black jump seat with 2- point seat belt.

Two Heavy-duty fluted aluminum grab handle with rubber inserts and chrome plated stanchions installed at exterior entry door location

Two Automatic courtesy light at side entry doors

30" wide 0.125" bright aluminum NFPA 1901 tread plate flip-down step on rear bumper. Step shall have cam lock to secure step while vehicle is in motion.

One *Whelen* 810 Series combination stop/tail, turn and reverse lights, model number 8103RACR (or current model).

Entire underside of the apparatus shall be undercoated. Includes chassis, floor extrusions, step wells and aluminum compartments.

Rear mud flaps with anti-sail brackets.

PAINT:

Body base color to be *Dupont Imron* (or equivalent) **ROYAL BLUE** nonmetallic paint. *Note:* Paint color code to be submitted at time of order.

DRIVER/PASSENGER CAB AREA:

Cover cab doors with aluminum panels upper half to be wrapped with vinyl and lower half to be wrapped with padded vinyl.

10" high 0.100" bright aluminum tread plate kick plate at bottom of doors.

Heavy-duty rubber grab handle on each door.

Panels covered with vinyl above driver and passenger doors.

Vehicle height sign on dash.

Insulated black rubber mat in driver and passenger toe plate area. Insulate walls in toe plate area and install vinyl covered panels.

Vehicle shall have a Final Stage Vehicle Certification and Altered Vehicle Certification as required by Federal Motor Vehicle Safety Standards (FMVSS) 49 CFR Part 567.5 and 567.7

Payload sticker in cab area with vehicle axle load ratings and available axle payload as built.

Work area on passenger side constructed of 5/8" plywood covered to match rear counter-tops and trimmed with vinyl T-molding.

Control panels for 120Vac and 12Vdc systems shall be located in the overhead console. The entire console shall be constructed of 3/4" plywood. The face shall be finished with black laminate and the bottom shall be covered with vinyl.

Red LED/Clear incandescent dome light with 3- position switch, red/off/white.

Weldex WDRV-3005 (or current model) back-up camera and monitor system. Camera features: B&W Camera With Infra-Red LEDs, Weather Proof Camera Enclosure, 1/3" CCD Image Sensor (Sony Chip Set), 430 Lines of Resolution, 0.1 LUX (F 2.0 with 6 LR LED) Minimum Illumination. Monitor features: B&W Backup Monitor With 700 Lines of Resolution, 5.5 inch Picture Measured Diagonally, Factory Preset to Reverse Image, Automatic Activation when Vehicle is in Reverse, Dimensions: 7.0"(W) X 5.0"(H) X 7.8"(D)

Pioneer DEH-P4800MP (or current model) MOSFET 50-watt x 4, CD/MP3/WMA/WAV Receiver with 3-band parametric EQ, and one (1) pair of *Pioneer* TS-A6971R (or current model) 6" x 9" three-way speakers.

Blackout curtains for all cab area windows and Blackout curtains for rear door windows. Curtain specs: Black woven fabric made of pigmented and acrylic top coated 45% polyester / 55% cotton fabric, Tensile Strength: 283 lbs. x 214 lbs. Manufacturer's 5-year limited warranty. Seams shall be double stitch/single fold with 1" sewn-in hook-and-loop or nickel plated fasteners. Meets California State Fire Marshall requirements for flame retardancy - Title 19, CPAI-84 (Section 6), and FMVSS-302

WALLS, CEILING AND FLOOR:

Insulate walls and ceiling with a minimum of 2-1/2" of fiberglass with an R-11 rating. Cover interior body side posts with 1/2" plywood sub wall, ICI 7-2-7-2 G-1 Exposure 1-APA 347 PCUF PS1-95 (or equivalent).

Cover sub wall with smooth finish *Kemlite* 0.075" fiberglass reinforced plastic (FRP) lining. Wall covering shall be a continuous piece front to back, no seams acceptable.

Insulate ceiling with a minimum of 2-1/2" of fiberglass with an R-11 rating. Cover interior roof supports with 1/2" plywood, ICI 7-2-7-2 G-1 Exposure 1-APA 347 PCUF PS1-95 (or equivalent).

Cover sub ceiling with *Veelok* 17-oz. ribbed loop pile fabric.

Overhead fluted aluminum grab rails with rubber inserts and chrome plated stanchions

5/8" exterior grade tongue & groove plywood underlayment for floor, ICI 7-2-7-2 G-1 Exposure 1 APA 347 PCUF PS1-95 (or equivalent)

Lonseal Loncoin II Flecks 150 Onyx non-skid commercial grade PVC flooring. The flooring shall be a continuous piece from front to back.

2-1/2" vinyl cove molding as required (mop board).

30" FRP covered pocket door installed on heavy-duty aluminum track with two (2) four-wheel roller trucks. Pocket door shall have recessed handles and a key lock.

All bulkheads shall be covered with *Kemlite* 0.075" FRP.

Cover rear load space entry doors with 0.100" bright aluminum tread plate with rubber grab handles. Install gas charged lift/support cylinder on each rear door to hold doors open at 90°.

GALLEY:

Minimum 0.9-cu.ft. 800-watt microwave oven.

Black & Decker model ODC400 (or current model) under-cabinet coffee maker with carafe.

SEATING:

United Ergonomic Uni-chair NSX-11 black (or current model) with mid back, armrests, five caster spider base, and adjustable height.

Fabricate and install fifteen feet of hinged bench seating. Bench seat cushions shall be covered in heavy-duty vinyl.

BENCH SEAT REQUIREMENTS:

Foam for seat backs and bottoms shall have a minimum density rating of 28, a minimum compression rating of 65 and a support factor of 2.2.

All bench seating material must meet Federal Motor Vehicle Safety Standards part 571.302m Flammability of Interior Materials.

Seam stitching shall be done with 8-oz. bonded nylon thread.

Material corners shall be squared or angled to fit precise cut of foam.

Foam shall be bonded to plywood backer with industrial grade elastomer adhesive.

Bottom and sides of plywood backer shall be completely sanded.

Stapling of fabric/vinyl to backer with industrial grade upholstery staples.

No more than a 1/2" space is acceptable between staples around the entire perimeter

All fabric shall be stain resistant.

CABINETS:

Custom fabricated aluminum cabinets. Cabinet specifications: Base cabinets constructed of 0.080" powder coated aluminum with anodized aluminum frames. Base cabinet doors are double shell, formed from a single sheet of 0.080" aluminum, with a 0.040" aluminum door back attached. Overhead cabinets constructed of 0.064" powder coated aluminum with anodized aluminum frames. Overhead cabinets' doors are double shell, formed from a single sheet of 0.064" aluminum, with a 0.040" aluminum door back attached. Overhead cabinets' doors swing up on a full-length aluminum hinge, and are held open with a locking door stay. Overhead cabinets to have one adjustable shelf per door (24" high and taller cabinets only) - locked in place to your selected height. Shelves are formed from a single sheet of 0.064" mill finish aluminum, with 1 1/8" hemmed edges.

Radius edging incorporated as design permits.

Five Gas shock lift supports on overhead cabinet door.

Five LED strip light under overhead cabinet.

Aluminum radio box with removable face plate - four feet long.

Laminated gun mount dividers for eight guns. Gun sizes to be discussed at pre-construction meeting.

Countertop four feet long shall be covered in 0.040" *Wilsonart* laminate. All exposed edges shall be covered with heavy duty flexible PVC T- molding.

Double pedestal three foot long removable table located at bench seat

Cabinet shelves shall be infinitely adjustable using mini B-line track and hardware.

Five FRP shelf with aluminum lip located in overhead interior cabinets.

Two Aluminum slide out ammo drawer with 250 lb. *Accuride* drawer slides. Drawer shall be made of 0.125" thick aluminum with key lock.

Three Aluminum framed dry erase marker board with pin strip. One at workstation and two at bench seating.

One Wall mounted dry erase marker caddy kit QRT558 (or current model). Location to be determined.

HVAC SYSTEM:

Two Coleman Polar Mach 9200 series low profile air conditioner. Includes: 9223-C876 13,500 nominal BTU air conditioner with condensate pump. 9330-B715 Ceiling Assembly with 5,600 BTU heat strip.

One Broan model 174 wall mount 5,120 Btu/hr electric heaters.

One 12,000-16,000 Btu/hr direct discharge, 12Vdc powered, and diesel-fired furnace with individual thermostat control. Exhaust shall be routed to the street side.

120/240VAC ELECTRICAL SYSTEM:

One Power Tech 8-kW 120/240Vac liquid-cooled diesel generator installed in a custom fabricated compartment. Generator features: Prime Power (100% output 24/7 at up to 70°F and 500ft elevation), USTC Certified Manufacturer, 3 year/2000 hour Warranty with nationwide service network, Sound reduction enclosure, Four point mounting system, Four-cycle water cooled diesel engine, Radiator cooled, direct mounted and protected enclosure, High-coolant temp and low oil pressure shutdown sensors, Spin-on fuel and oil filter, Single side and bottom service, Typical Gallon Per Hour fuel consumption: 25% load = 0.25, 50% load = 0.36, 100% load = 0.72

Compartment shall be constructed to the following specifications: 0.187" aluminum with all welded seams. 2" deep 0.125" aluminum box pan doors and 0.125" aluminum frames. Door frames riveted to the body and welded to the compartments. Stainless steel door hinges attached with stainless steel machine screws. Flush mounted door handles with slam latches. 0.100" aluminum treadplate panels on interior door surfaces. Gas charged lift/support cylinders to hold doors open at 90°. Industrial grade neoprene gasket door seals. Door activated compartment light.

One Hardwired Transient Voltage Surge Suppressor (TVSS) protection for entire AC power system. Product features: Tested to 25,000 Amps Fault Current per NEC Article 285, UL US listed: UL1449 2nd Edition, NEMA 4 plastic enclosure: 6.28"(H) x 4.18"(W) x 3.33"(D), 2 Green LED indicators, one for each line, Red LED indicator for reduced or lost protection

One 60A-120Vac control panel with generator and shore power main breaker, twelve (12) UL listed magnetic/hydraulic branch circuit breakers with amber LED indicators, digital voltmeter, digital frequency meter, digital ammeter, generator stop/start switch, generator hour meter, shore power reverse polarity indicator and 3-position rotary transfer switch.

One Kussmaul Auto Eject 20, 20A-120Vac shore power inlet with 25-ft. 20A-120Vac shore power cord.

One Maringo 50A-125Vac waterproof shore power inlet, 50-ft. 50A-125Vac shore power cord, 6-ft. 50A-125Vac pigtail and 50A-to-15A adapter

Four Specification grade 20A-125Vac duplex receptacle mounted in stainless steel wall plate or raceway panel. Receptacle is not dedicated to any installed equipment.

Two Specification grade 20A-125Vac exterior GFCI duplex receptacle with weatherproof PVC cover. GFCI receptacles will be wired in pairs to 20A circuit breakers located in the 120Vac electrical load distribution center.

120/240VAC WIRING REQUIREMENTS:

All 120/240Vac main wiring shall be stranded THHN wire and run in non-metallic *Carlton* Carflex liquid tight conduit. All 120/240Vac branch circuit wiring shall be stranded THHN wire (AWG 12 minimum) and run in non-metallic *Carlton* Carflex liquid tight and *Carlton* Flex-Plus blue ENT conduit. All electrical circuits and appliances shall conform to applicable national electrical codes

12VDC ELECTRICAL SYSTEM:

Four (4) *Lifeline* GPL-4C 6Vdc Absorbed Glass Mat (AGM) batteries. Batteries shall be installed underbody in slide out weather resistant aluminum compartment. Compartment shall have box pan door with slam latch, flush mount handle, key lock and *Kwikkee* heavy-duty slide assembly. Two (2) batteries will be separated for auxiliary equipment and two (2) batteries will be for communications equipment.

Two (2) electronic converter/chargers, 60 amp minimum output each. Converter/charger features: Charges three banks of batteries at the same time. UL listed for safety. Manual reset circuit breaker Reverse battery protection. Electronic current limiting. High voltage protection. One (1) master disconnect switch to control the auxiliary battery systems. 12Vdc control panel with seven (7) UL listed magnetic/hydraulic circuit breakers with red LED indicators, 12Vdc digital voltmeter, and 12Vdc low voltage alarm. 12Vdc auxiliary panels with UL listed magnetic/hydraulic circuit breakers as required.

12Vdc auxiliary digital voltmeter to monitor the communications battery system.

Eight Thin-Lite model 616 18" white 12Vdc fluorescent light fixtures.

Five Thin-Lite model 616 18" red 12Vdc fluorescent light fixtures located.

Four Walk way lights in aisle. Lights will automatically illuminate when the rear door is opened.

Six Whelen 810 Series white quartz halogen scene light with 8-32° optics, model number 810CA0ZR (or current model).

Two 15A-12Vdc power outlet mounted in stainless steel wall plate or raceway panel.

One Whelen 295HFS2 (or current model) remote siren amplifier with flush mount control head.

One Federal Signal TS-100 (or current model) 100 watt speaker behind grill.

12VDC EMERGENCY LIGHTING:

One Light bar bracket installed for department installed light bar. (*Light bar make and model ~ to be determined at pre-construction meeting*)

Three Whelen 600 series Linear Super-LED lighthouse with internal flasher, red LED's with clear outer lens, model 60R02FCR (or current model). Includes chrome flange 6EFLANGE (or current model).

Three Whelen 600 series Linear Super-LED lighthouse with internal flasher, blue LED's with clear outer lens, model 60B02FCR (or current model). Includes chrome flange 6EFLANGE (or current model).

Three Whelen 900 series Linear Super-LED lighthouse with internal flasher, red LED's with clear outer lens, model 90RR5FCR (or current model). Includes chrome flange 90FLANGC (or current model).

Three Whelen 900 series Linear Super-LED lighthouse with internal flasher, blue LED's with clear outer lens, model 90BB5FCR (or current model). Includes chrome flange 90FLANGC (or current model).

12VDC WIRING REQUIREMENTS:

2-gauge minimum copper stranded battery cable shall be used for 12Vdc main supply lines. All cable runs shall be full length, no splices. All cable terminals shall be staked and soldered. All cable shall be enclosed in convoluted polyethylene tubing and the ends of the cable shall be sealed with color-coded shrink-wrap identifying the function of the cable.

All added electrical circuits shall be protected from over-current by resettable circuit breakers appropriately rated for the load. Only circuit breakers shall be used in the installation of added electrical wiring (plug type fuses are unacceptable).

Circuit breaker functions shall be identified by engraved or printed labels.

All added wiring for load runs shall be AWG 8, 10, 12, 14 and 18 and must conform to MIL-W-16878F.

Wire terminals for added circuits must conform to MIL-T-7928. Terminals shall be insulated, insulation grip, TYPE II, CLASS 2 and shall be crimped with tooling recommended by the terminal manufacturer.

All wiring shall be numbered or lettered on 6" centers minimum. Wiring shall be protected from chafing and abrasion with convoluted polyethylene tubing (wire loom) as required.

Where wire passes through sheet metal, bulkheads and structural supports, plastic grommets shall be used to protect both wiring and wire looms. All wiring shall be supported on 12" centers. All wire bundles shall be tied with trimmed nylon ties on 6" centers minimum. The complete 12Vdc wiring system and electrical appliances shall be to modern automotive standards throughout the installation.

Extreme care shall be exercised to provide for easy serviceability of the system in future years.

Extreme care must be taken in the installation to avoid the engine manifold, engine exhaust, and muffler, which could expose the wiring to severe overheating during long periods of operation. Proper insulation and heat deflection panels must be installed in such areas.

A high-current 12Vdc system wiring schematic shall be provided.

These are the minimum acceptable 12Vdc wiring requirements.

AUDIO/VIDEO:

One *Samsung* 19" Flat Panel LCD TV LNT1953H (or current model). Product features: HD-grade 1360(H) x 768(V) pixel resolution, Widescreen aspect ratio, Built-in digital tuner (ATSC/Clear QAM), PC input, Dimensions: 18.9"(W) x 14.2"(H) x 2.3"(D)

One Vesa-standard 75 mm wall mount with quick-release.

One *Sony* RDR-VX530 (or current model) Progressive Scan DVD/VCR Recorder And Player Combo. Product features: One Touch Dubbing DVD To VHS Or VHS To DVD, 4 Video Head Stereo VHS With 19 Micron Heads, Built In Television Tuner, MP3 On CD-R/-RW Playback, Dolby Digital And DTS Decoding, Dimensions: 17"W X 3.5"H X 13"D

One *Middle Atlantic* rack mount kit (custom fitted for VCRs, DVD players, VCR/DVD combination units, and DSS receivers).

One *Winegard* Sensar RV-3090 amplified TV antenna with outlets at each TV/VCR location. Includes dash mounted warning light with interlock to prevent moving the vehicle with antenna raised.

All RF cable for DSS antenna systems (when specified) shall be Belden #9116 series 6 broadband coaxial cable. All other video cabling shall be Belden #1505A RG-59/U precision video cable.

RADIOS

Primary 12Vdc power leads for communications radios shall be minimum 2-gauge copper stranded wire with soldered crimp-on end connector (gauge based on radio requirements). Cables shall be enclosed in convoluted tubing and function identified with colored shrink-wrap. Power to radios shall be controlled by a continuous-duty switch actuated by the auxiliary battery disconnect switch.

One Prewire and make installation provisions for communications radio. Installation includes: NMO-style base on the roof or antenna raceway, as applicable. LMR195 antenna cable routed to radio transceiver location in *Carlton* Carflex ENT conduit. 12Vdc power routed to radio transceiver location.

One Prewire and make installation provisions for dual head communications radio. Installation includes: NMO-style base on the roof or antenna raceway, as applicable. LMR195 antenna cable routed to radio transceiver location in *Carlton* Carflex ENT conduit. 12Vdc power routed to radio transceiver location. Install hinged panels under countertops to conceal radio transceivers where applicable.

Four Telephone extension jack.

Note: Single line phones will connect to each other only. (Single line phones support communications between exterior and interior of truck)

Panasonic phone will be used to communicate with a second truck which has a Panasonic PBX system intact.

Two *Red Dot* weather-proof box in *Leviton* QuickPort insert. Install spring loaded weatherproof PVC cover on box.

One *Panasonic* KX-T7720-B (or current model) black twelve-line speakerphone telephone. Two Single line phones.

MISCELLANEOUS ELECTRONICS:

One *Napco* Gemini alarm system. System includes magnetic contacts on all entry doors, exterior storage compartment doors, battery box doors, generator compartment doors and hood. Two (2) key fobs, key pad, 360° ceiling mounted motion sensors, siren and bell. *Note:* If applicable, one (1) *Telular*

Phonecell will be interfaced to the alarm system to allow the customer to program a telephone number that will be dialed automatically if the alarm system is triggered. Phonecell will be connected to a constant hot power source.

One Franklin Instruments #FD254-I00-0P4 (or current model) clocks with 2.5" LED display and 12 hour or 24 hour modes.

One Cast Products EB00013-1 (or current model) cast aluminum box with key lock. The rear of the box will be removed to allow cables to be passed into the vehicle.

EXTERIOR STORAGE COMPARTMENTS:

One Double door thru floor storage compartment with approximate interior dimensions of 36" high x up to 42" wide x 25" deep constructed from 0.125" aluminum with all welded seams

One Double door storage compartment with approximate interior dimensions of 59" high x up to 60" wide x 25" deep constructed from 0.125" aluminum with all welded seams. Note: doors to swing fully open to body. Door holders will hold doors in open position.

Two Storage compartment with approximate interior dimensions of 78" high x up to 48" wide x 25" deep constructed from 0.125" aluminum with all welded seams.

Compartments will be constructed to the following specifications: Sweep out type bottoms with 1/2" drain holes. 2" box pan doors and door frames fabricated from 0.125" aluminum. Door frames shall be riveted to the body and welded to the compartments. Compartments shall have a dome light that illuminates when the door is opened. Compartments shall have *Dri-Dek* matting with tapered front lip.

Compartment doors will be constructed to the following specifications: Stainless steel hinges attached with stainless machine screws. Slam latches and flush mounted handles. 0.100" bright polished aluminum diamond plate on interior surfaces fastened with stainless hardware. All horizontally hinged doors shall be held open in a 120° position with gas charged lift/support cylinders. All doors shall be sealed with industrial grade neoprene gasket.

Six Custom roof storage boxes 26"W x 76"L x 24"H -watertight construction - exterior walkway lights (switch located on vehicle rear)- interior strip lighting - activates when door opens

Two Custom fabricated expanded air conditioner cover - 300 pound weight bearing.

Two Aluminum box pan shelf with heavy duty full extension slides to be installed in small exterior compartments. Slide features: Industrial grade ball bearing slide, 450 lb. weight capacity, Safety latch holds shelf secure during travel and when fully extended,

Compartment shelves shall be infinitely adjustable using mini B-line track and hardware.

Twelve Aluminum box pan shelves located in three larger compartments

Two Aluminum roll up doors for large compartments painted to match body. Includes: Manual Lock with 2-sided Key, Sill Plate, Pull strap (as required), Painted Trim, *Note:* Paint color code to be submitted at time of order.

Incandescent strip lighting installed in roll up door compartments and street side large compartment with swing doors

AWNING:

One Dometic Weather Pro Awning 18' #4633 linen acrylic fabric (other colors available on request electric awning with the following features: Solid-state sensor automatically closes awning after detecting sustained winds, Exclusive Knee-Action Design prevents damage from sudden wind gusts, Heavy duty

motor is fully contained in the roller tube, self-locks awning in travel position. Unique spring-arm mechanism automatically dumps accumulating rain water.

One Dometic Weather Pro screened-in enclosure Product features: Super-durable nonflammable screen fabric repels moisture and dries quickly to resist mildew. Starter set includes both end panels, one 3-foot door panel, skirting, wheel-well cover, hardware kit, and zippered storage bag.

ROOF ACCESS:

One Zico Quic-Ladder swing out and down vehicle ladder, RL-2-7 (or current model). Product features: Cast aluminum rungs with flat, non-skid surface, Steps are 3" deep x 15-1/2" wide, Handrails are 1-1/4" heavy-walled aluminum tubing, covered between rungs by ribbed black neoprene tubing

MISCELLANEOUS ITEMS:

One Removable 0.125" aluminum exterior shelf with white powdercoat finish, approximate size 18" x 48". Install shelf brackets on the exterior of the vehicle. Note: store on bulkhead behind passenger jump seat.

One Removable *Quartet* Magnetic Porcelain Exterior Marker Board QRT P563T (or current model) 36" x 24", White, magnetic; matte finish for reduced glare. Full-size tray for markers and erasers. Brackets on the exterior of the vehicle. Note: Board to be stored on interior wall. Location to be determined at pre-construction meeting

Two Kidde Pro Line 3-A: 40-B: C 5 pound dry chemical fire extinguishers

One First Alert 9-volt combination Carbon Monoxide and Smoke alarms.

MANUALS:

One Complete manual set on CD, including the following: As-built specifications with interior and exterior drawings as used for production of the vehicle. Chassis and body owner's manuals. All individual component manuals and warranty registration cards as provided by component manufacturers. 12Vdc and 120Vac legends showing wire gauge, color, number and function. 12Vdc high current wiring diagram illustrating the battery system, isolators, power converters, alternator, disconnect switches and control panels.

Roof top antenna placement drawing and legend identifying antenna placements and termination points. Audio/Video cabling diagram. Telephone system punch block wiring diagrams. Alarm system zones legend. Warranty and Return Authorization procedures. Chassis and generator maintenance and service logs. Battery maintenance information.

MISCELLANEOUS:

At time of delivery to customers facility a company representative will provide up to eight (8) hours of orientation on installed systems, as applicable: Generator start up and shut down procedure, AC and DC electrical systems operation, HVAC systems operation, Audio/Video system operation does not include programming VCR's, TV's, etc. Alarm operation. Awning operation.

<Your Organization Name>

BID FORM

NAME OF BIDDER: _____

ADDRESS: _____

CITY/STATE/ZIP: _____

TELEPHONE: _____

PERSON TO CONTACT: _____

We herewith submit and bid as follows:

CHASSIS/MAKE: _____

MODEL/TYPE: _____

F.O.B. POINT: _____

DELIVERY/CALENDAR DAYS: _____

BID IS: _____ AS PER SPECIFICATION TAKING NO EXCEPTIONS

BID IS: _____ TAKING ONLY THOSE SPECIFICATION EXCEPTIONS

LISTED, ATTACHED AND REFERENCED TO PARAGRAPH

It is agreed by the undersigned bidder that the signature and submission of this bid represents the bidder's acceptance of all terms, conditions, and requirements bid specifications and, if awarded, the bid will represent the agreement between the two parties.

SIGNED: _____ DATE: _____

NAME PRINTED: _____ TITLE: _____

