

MOBILE TECHNICAL TRAINING CENTER

Specifications for

MTTC – 32

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: _____

Date 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.

GENERAL VEHICLE DESIGN, TYPE, AND FLOORPLAN

The mobile training vehicle and the allied equipment furnished under this specification shall be the manufacturer's current commercial vehicle of the type and class specified. The vehicle shall be complete with the operating accessories as specified herein and furnished with such modifications and attachments as may be necessary or specified to enable the vehicle to function reliably and efficiently in sustained operation. The design of the vehicle and the specified equipment shall permit accessibility for servicing, replacement, and adjustment of component parts and accessories with minimum disturbance to other components and systems. The term "HEAVY DUTY" as used to describe an item shall mean in excess of the usual quantity, quality, or capacity that is normally supplied with the standard production vehicle or component.

INTERIOR HEADROOM

78" of interior headroom shall be provided inside the body. It shall be free of obstructions for the occupant's safety and shall meet or exceed all transportation and regulatory requirements.

TECHNICAL REQUIREMENTS CAB/CHASSIS

The Mobile Laboratory shall have a Medium Duty chassis and the chassis will be furnished with a two-door cab. The cab/chassis shall be suitable for subsequent mounting of a modular (containerized) transferable equipped vehicle body conforming to the requirements specified herein.

CHASSIS MODEL AND TYPE

M2 106 CONVENTIONAL CHASSIS 2008 MODEL YEAR SPECIFIED SET BACK AXLE – TRUCK STRAIGHT TRUCK PROVISION, LH PRIMARY STEERING LOCATION

General Service

TRUCK CONFIGURATION DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES), PICKUP AND DELIVERY / SHORT HAUL SERVICE, GOVERNMENT BUSINESS SEGMENT, FIXED LOAD COMMODITY TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS, MAXIMUM 8% EXPECTED GRADE, SMOOTH

CONCRETE OR ASPHALT PAVEMENT-MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE, MEDIUM TRUCK WARRANTY EXPECTED FRONT AXLE(S) LOAD: 8500 lbs, EXPECTED REAR DRIVE AXLE(S) LOAD: 17,500 lbs, EXPECTED GROSS VEHICLE WEIGHT CAPACITY: 26,000.0 lbs.

Truck Service

DRY VAN BODY, EXPECTED EMPTY BODY WEIGHT: 5500.0 lbs, EXPECTED TRUCK BODY LENGTH: 32.0 ft, EXPECTED TRUCK BODY WIDTH: 102.0, EXPECTED EMPTY BODY CG LOCATION FROM BODY FRONT: 16.0 ft, NO REAR CROSSMEMBER RECESS LOCATION, EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES: 32.0

Engine

MBE900-230 7.2 L 230 HP @ 2200 RPM, 2500 GOV, 620 LB/FT @ 1200 RPM

Electronic Parameters

DDC/MBE IDLE TIMER SHUTDOWN ENABLE – N

Engine Equipment

2007 EPA/CARB EMISSION CERTIFICATION, ENGINE MOUNTED OIL CHECK AND FILL, ONE PIECE VALVE COVER, SIDE OF HOOD AIR INTAKE WITH DONALDSON AIR CLEANER, DR 12V 160 AMP 24-SI QUADRAMOUNT PAD ALTERNATOR, (3) ALLIANCE MODEL 1031, GROUP 31, 12 VOLT MAINTENANCE FREE 2280 CCA THREADED STUD BATTERIES, BATTERY BOX FRAME MOUNTED, SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB FRAME, GROUND RETURN FOR BATTERY CABLES, NON-POLISHED BATTERY BOX COVER, NO JUMPSTART POST, NO CLUTCH RELEASE BEARING LUBE, WABCO 1.55 CFM AIR COMPRESSOR, DISCHARGE LINE WITH INTEGRAL QUICK CONNECT SYSTEM CHARGING VALVE, ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM, NO RETARDER, RH INBOARD FRAME MOUNTED HORIZONTAL AFTERTREATMENT DEVICE WITH HORIZONTAL TAILPIPE, ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH, STANDARD EXHAUST SYSTEM LENGTH, RH STANDARD HORIZONTAL TAILPIPE, BORG WARNER VISCOUS FAN DRIVE, MBE FUEL FILTER, FULL FLOW OIL FILTER, NO COOLANT FILTER, 1100 SQUARE INCH ALUMINUM RADIATOR, ANTIFREEZE TO -34 F, ETHYLENE GLYCOL PRE-CHARGED SCA HEAVY DUTY COOLANT, RUBBER COOLANT HOSES, CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES, NO OPTIONAL RADIATOR DRAIN VALVE, LOWER RADIATOR GUARD, PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER, RECEPTACLE MOUNTED UNDER LH DOOR, ALUMINUM FLYWHEEL HOUSING, DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH

Transmission

ALLISON 2200 RDS AUTOMATIC TRANSMISSION WITH PARK PAWL WITH PTO PROVISION

Transmission Equipment

1XXX/2XXX TRANS PROGRAMMING 5 SPEED, RDS 5/3/2/1 SELECTOR, (PACKAGE 354), VEHICLE INTERFACE WIRING AND PDM WITH BODY BUILDER CONNECTOR, BACK OF CAB, NO AUX/ACC TRANSMISSION WIRING, NO MAIN TRANSMISSION MOUNTED PTO, NO PTO MOUNTING LOCATION SPECIFIED, MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN, STEERING COLUMN TRANSMISSION CABLE SHIFT CONTROL WITH PARK POSITION FOR INTERNAL PARK PAWL, WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK, TRANSMISSION OIL CHECK AND FILL

Front Axle and Equipment

AF-10/0-3 10.000# FF 1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE, BOSCH HYDRAULIC PIN-SLIDE DISC FRONT BRAKES, NON-ASBESTOS FRONT BRAKE LINING, FRONT DISC BRAKE ROTORS, NO FRONT BRAKE DUST SHIELDS, CHICAGO RAWHIDE SCOTSEAL CLASSIC FRONT OIL SEALS, VENTED FRONT HUB CAPS-OIL, STANDARD SPINDLE NUTS FOR ALL AXLES, TRW THP-60 POWER STEERING POWER STEERING PUMP, 2 QUART SEE THROUGH POWER STEERING RESERVOIR

Front Suspension

10,000# TAPERLEAF FRONT SUSPENSION, MAINTENANCE FREE RUBBER BUSHINGS – FRONT SUSPENSION, FRONT SWAYBAR, FRONT SHOCK ABSORBERS

Rear Axle and Equipment

ARS- 17.5-2 17,500# L-SERIES SINGLE REAR AXLE, 4.78 REAR AXLE RATIO, IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING, 16T MERITOR MAIN DRIVELINE WITH HALF ROUND YOKES, NO TRACTION EQUALIZER, CASTROL TRANSYND SYNTHETIC AUTOMATION TRANSMISSION OIL, BOSCH HYDRAULIC PIN-SLIDE DISC REAR BRAKES, NON-ABESTOS REAR BRAKE LINING, REAR DISC BRAKE ROTORS, CHICAGO RAWHIDE SCOTSEAL PLUS XL REAR OIL SEALS, REAR AXLE MOUNTED DRUM PARK BRAKE

Rear Suspension

AIRLINER 21,000# REAR SUSPENSION, AIRLINER HIGH POSITION RIDE HEIGHT, STANDARD U-BOLT PAD, SINGLE AIR REAR SUSPENSION LEVELING VALVE, TRANSVERSE CONTROL RODS, REAR SHOCK ABSORBERS – ONE AXLE (AIR RIDE SUSPENSION)

Brake Equipment

BOSCH HYDRAULIC BRAKE PACKAGE WITH OPTIONAL AIR SUPPLY, WABCO HYDRAULIC 4S/4M WITHOUT TRACTION CONTROL, HYDRAULIC TUBING WITH NYLON AND FABRIC/WIRE BRAID CHASSIS AIR LINES, NO BRAKE LINE AIR DRYER, ONE STEEL AIR BRAKE RESERVOIR, BW DV-2 AUTO DRAIN VALVE WITHOUT HEATER ON ALL TANKS(S)

Trailer Connections

UPGRADED CHASSIS MULTIPLEXING UNIT, UPGRADED BULKHEAD MULTIPLEXING UNIT

Wheelbase and Frame

316 INCH WHEELBASE, 250 IN CAB TO AXLE, 11/32"X3-1/2"X10-15/16" STEEL FRAME (8.73MMX277.8MM/.344"X10.94") 120KSI, 3050MM (120") REAR FRAME OVERHANG, FRAME OVERHANG RANGE 111" TO 120", SQUARE END OF FRAME, STANDARD WEIGHT ENGINE CROSSMEMBER, STANDARD REARMOST CROSSMEMBER, STANDARD SUSPENSION CROSSMEMBER

Chassis Equipment

THREE-PIECE 14" CHROMED STEEL BUMPER WITH COLLAPSIBLE ENDS, FRONT TOW HOOKS – FRAME MOUNTED, BUMPER MOUNTING FOR SINGLE LICENSE PLATE, NO MUDFLAP BRACKETS, NO REAR MUDFLAP, GRADE 8 THREADED HEX HEADED FRAME FASTENERS

Fuel Tanks

60 GALLON/277 LITER RECTANGULAR ALUMINUM FUEL TANK – RH, NO LH FUEL TANK, RECTANGULAR FUEL TANK(S), PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS, FUEL TANK(S) FORWARD, FUEL TANK CAP(S), ALLIANCE FUEL FILTER/WATER SEPARATOR WITH HEATED BOWL EQUIFLO INBOARD FUEL SYSTEM, REINFORCED NYLON FUEL HOSE, NO FUEL COOLER

Tires

275/80R22.5 14 PLY RADIAL FRONT TIRES, MICHELIN XZE 275/80R22.5 14 PLY RADIAL FRONT TIRES, 275/80R22.5 14 PLY RADIAL REAR TIRES, MICHELIN XDA3 275/80R22.5 14 PLY RADIAL REAR TIRES

Hubs

GUNITE IRON FRONT HUBS, CONMET PRE-SET BEARING IRON REAR HUBS

Wheels

ACCURIDE 29644A 22.5X8.25 10-HUB PILOT ALUMINUM DISC FRONT WHEELS, POLISHED FRONT WHEELS; OUTSIDE ONLY, ACCURIDE 29644A 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS, POLISHED REAR WHEELS; OUTSIDE OF OUTER WHEELS ONLY

Cab Exterior

106" BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB, AIR CAB MOUNTS, LH AND RH GRAB HANDLES, HOOD MOUNTED CHROMED PLASTIC GRILLE, CHROMED HOOD MOUNTED AIR INTAKE GRILLE, FIBERGLASS HOOD, TUNNEL/FIREWALL LINER, DUAL

ELECTRIC HORNS, DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME, REAR LICENSE PLATE MOUNT END OF FRAME, INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL, (5) AMBER MARKER LIGHTS, NO FOG LIGHTS, DAYTIME RUNNING LIGHTS, INTEGRAL STOP/TAIL/BACKUP LIGHTS, STANDARD FRONT TURN SIGNAL LAMPS, DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE DOOR MOUNTED MIRRORS, 102" EQUIPMENT WIDTH, LH AND RH 8" BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS, STANDARD SIDE/REAR REFLECTORS, 63"X14" TINTED REAR WINDOW, TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS, RH AND LH ELECTRIC POWERED WINDOWS, TINTED WINDSHIELD, 8 LITER WINDSHIELD WASHER, RESERVOIR WITHOUT FLUID LEVEL INDICATOR

Cab Interior

OPAL GRAY VINYL INTERIOR, M2 INTERIOR CONVENIENCE PACKAGE, MOLDED DOOR PANEL WITH UPPER VINYL INSERTS, GRAY VINYL MATS WITH INSULATION, DASH MOUNTED ASH TRAYS AND LIGHTER, FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS AND ADDITIONAL CENTER COMPARTMENT WITHOUT NETTING, IN DASH STORAGE BIN, NO LOWER BUNK, (2) CUP HOLDERS LH AND RH DASH, GRAY/CHARCOAL FLAT DASH, NO FIRE EXTINGUISHER, HEATER, DEFROSTER AND AIR CONDITIONER, STANDARD HVAC DUCTING, MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH, STANDARD HEATER PLUMBING, SANDEN COMPACT AIR CONDITIONER COMPRESSOR BINARY CONTROL, R-134A SILENCER PACKAGE FOR CAB, SOLID-STATE CIRCUIT PROTECTION AND FUSES, 12V NEGATIVE GROUND ELECTRICAL SYSTEM, DOME DOOR ACTIVATED LH AND RH, DUAL READING LIGHTS, FORWARD CAB ROOF, LH AND RH ELECTRIC DOOR LOCKS, (1) 12 VOLT POWER SUPPLY IN DASH, BOSTROM TALLADEGA 910 HIGH BACK AIR SUSPENSION DRIVER SEAT, BOSTROM TALLADEGA 910 HIGH BACK AIR SUSPENSION PASSENGER SEAT, NO REAR PASSENGER SEAT, DUAL DRIVER SEAT ARMRESTS AND INBOARD PASSENGER SEAT ARMREST, LH AND RH INTEGRAL DOOR PANEL ARMRESTS, VINYL WITH CLOTH INSERT DRIVER SEAT, VINYL WITH CLOTH INSERT PASSENGER SEAT, 3 POINT FIXED D-RING RETRACTOR DRIVER AND PASSENGER SEAT BELTS, FIXED STEERING COLUMN, 4-SPOKE 18" (450MM) STEERING WHEEL, DRIVER AND PASSENGER INTERIOR SUN VISORS

Instruments and Controls

BLACK GAUGE BEZELS, WOODGRAIN DRIVER INSTRUMENT PANEL, WOODGRAIN CENTER INSTRUMENT PANEL, LOW AIR PRESSURE LIGHT AND BUZZER, DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS, 97 DB BACKUP ALARM, ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL, KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY, ODOMETER/TRIP/HOUR/DIAGNOSTIC/VOLTAGE DISPLAY; 1X7 CHARACTER, 26 WARNING LAMPS, DATA LINKED, ICU3 DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN, SAE J1587/1708/1939, LOCATED BELOW DASH, 2" ELECTRIC FUEL GAUGE, PROGRAMMABLE RPM CONTROL – ELECTRONIC ENGINE, ELECTRICAL ENGINE COOLANT, TEMPERATURE GAUGE, TRANSMISSION OIL TEMPERATURE INDICATOR LIGHT, ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY, NO PTO CONTROLS, ELECTRIC ENGINE OIL PRESSURE GAUGE, DELPHI AM/FM/WB/SIRIUS PREMIUM RADIO WITH CD DASH MOUNTED RADIO,

(2) RADIO SPEAKERS IN CAB, AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF, NO CB RADIO/PROVISION, NO CB RADIO MOUNTING PROVISION, NO CB ANTENNA, BRACKET OR LEAD INTEROPERABLE SDAR ANTENNA, ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITH ODOMETER, IGNITION SWITCH CONTROLLED ENGINE STOP, (8) EXTRA SWITCHES IN DASH; (4) WITH INDICATOR LAMPS AND WIRES TO CHASSIS AT BACK OF CAB, (4) WIRED BY BODY BUILDER, NO TRAILER HAND CONTROL BRAKE VALVE, DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY, SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY, MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH, FOOT PEDAL OPERATED PARK BRAKE AND WARNING INDICATOR FOR HYDRAULIC BRAKE, SELF CANCELING TURN SIGNAL SET WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE, INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS

Paint

PAINT: ONE SOLID COLOR

Color

CAB COLOR A: L0006EB WHITE ELITE BC, BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT

BODY AUTOMATIC LEVELING SYSTEM

Furnish and install one (1) Quadra Touch Pad leveling system with a capacity of #17,000 to #25,000 per cylinder. The ram diameter shall be 1-1/4" and the foot pad size shall be 100 inches. The complete system weight shall be between 190 lbs to 240 lbs and be 12 VDC powered. It shall have fully automatic and/or manual controls. The hoses shall be rubber flex line with JIC fittings. The battery cables shall be 4 gauge plastic coated.

FUEL SYSTEM CAPACITY

The fuel system capacity shall be a minimum of 60 gallons and shall meet FMVSS 301 "Fuel System Integrity".

ENGINE BLOCK HEATER

The OEM chassis engine block heater shall be wired to the external 115 volt power source.

VEHICLE WIRING

All insulated cable shall conform to SAE J1292 requirements and shall have type SXL high temperature thermoplastic insulation conforming to SAE J1127 and J1128. All wire shall be of a gauge size to carry 125% of the current required without overheating. Where practical, all wires shall be routed in high temperature looms with a rating of 300 degrees Fahrenheit. All conductors shall be annealed copper with machine crimps. Wiring harnesses shall be assembled and warranted by the vehicle manufacturer. All 110VAC wiring shall be fully tinned, type 3 stranded copper round safety duplex boat cable approved by Underwriters Laboratories. The safety color coding of red and yellow conductors are found inside of a white jacket, with non wicking fiber fillers to maintain a round shape. This cable is UL listed boat cable 600V with a 105C temp rating and meets all approvals from ABYC and United States Coast Guard.

NO EXCEPTIONS WILL BE ALLOWED.

ELECTRIC CONTROL CENTER

A dedicated cabinet will house the electrical components. Solenoids, relays, circuit breakers shall be behind a door and are to be mounted securely to the inside of the electrical control center. This door shall hinge out of the way for free movement and for ease of maintenance and repair and shall have a latch to secure the door and be large enough for complete and unobstructed inspection. Ample venting shall be supplied.

INSTALLATION AND PROTECTION

Wires must be grouped or harnessed where practical. Metal edges through which cables pass shall be protected with nonmetallic bushings or grommets. All auxiliary circuits shall be wired separate and distinct from the vehicle chassis circuits. All wire passing from the console head shall be encased in a heavy-duty loom. All wiring shall be clipped or otherwise attached at suitable intervals to prevent rubbing or chafing due to wire movement, vibration, etc.

BATTERIES

There shall be three (3) "No Maintenance" 12 volt batteries. They shall total not less than 2250 CCA with 160 minutes of reserve capacity each @ -18 degrees Centigrade. The batteries shall be located in the OEM location under the driver step, below cab door, in a tray.

INTERNAL 12 VOLT DC POWER

When specified all internal 12 volt DC power circuits shall be 12 VDC 20 amp capacities with separately protected circuits. Circuit protection shall be accomplished by the use of manual breakers mounted in the control panel. Due to the potential danger associated with a separate "battery hot" circuit, no exception to the above will be accepted.

CIRCUIT BOARD 12V PANEL

The 12 VDC circuit board panel shall be housed in a heavy .125" H5052 aluminum alloy housing and face. The face shall have a two-part polyurethane slate gray finish. It shall have countersunk mounting holes throughout. All positive, negative, and grounding buses shall be installed. Panels with meters include toggle switch for monitoring up to three (3) battery banks. All panels are equipped with 12 VDC analog meters. All circuit label positions are backlit. There shall be "ON" indicating LED's installed in all circuit positions.

115 VOLT AC POWER

There shall be 115 volt AC wiring furnished. A three-wire system is used for powering certain equipment, battery charger, etc. The system shall incorporate GFI devices with 15 amp minimum circuit breakers that can also be used as a disconnect switch for the interior 115 volt outlets. The GFI devices shall be located in the galley, bath, communications, and conference areas. All exterior receptacles shall be GFI protected. When an inverter is specified, an automatic transfer switch shall be furnished which will turn off the inverter 115 volt supply when the 115 volt utility shoreline power is applied. All wiring shall meet NEC and NEMA electrical codes.

CIRCUIT BOARD 110V PANEL

The 110 VAC circuit board panel shall be housed in a heavy .125" H5052 aluminum alloy housing and face. The face shall have a two-part polyurethane slate gray finish. It shall have countersunk mounting holes throughout. All hot, neutral, and safety ground buses shall be installed and fully pre-wired. There shall be "ON" indicating LED's shall be installed in all circuit positions. Reverse polarity shall be indicated by red LED lights. All circuit label positions are backlit. Panel shall have MIL-C-5541C or equivalent immersion undercoating for lifetime corrosion resistance. The circuit board shall have a panel amperage of 50 Amperes.

INVERTER

A 1000 watt inverter shall be furnished and installed. The inverter shall have a control panel on the interior of the vehicle.

GENERATOR

A 12 KW Generator shall be installed in the (D-1) compartment.

INTERIOR 115 VOLT AC OUTLETS

There shall be Sixteen (16) three-wire duplex 115-volt AC receptacles. There shall be ten [10] in the classroom area, one [1] in the gallery area, three [3] in the training area, and two [2] in the teachers area. There shall be red indicator lights located within each 115-volt outlet to indicate a live "hot" circuit. Add-on style indicators are not acceptable. The receptacles shall be clearly labeled: "115 VAC". There shall be three [3] 230-volt AC receptacles located at the workstations in the training area.

COMPUTER WIRING AND CABLING

A two piece multi-channel nonmetallic raceway shall perimeter all workstations and computer stations for access to 120VAC. Wiring. Category 6 computer wiring and telephone connections shall be provided. All wiring shall meet the flammability requirements of UL-5; and be constructed of material with UL94V-0 rating. All category 6 wiring from each computer system shall be terminated in a Hubbell category 6 patch panel Model PC624U or equal. The patch panel shall be installed in a 19" wide x 24" high x 12" deep data communications rack. There shall be one category 6 port switch installed.

WI-FI ROUTER

A WI-FI router capable of supporting the instructor and students workstations shall be installed.

ELECTRICAL EQUIPMENT

All electrical equipment shall be electromagnetic radiation suppressed, filtered, or shielded to prevent interference to radio and telemetry equipment. The RFI shall not exceed SAE J551 limits.

BACKUP ALARM

A backup alarm shall be installed on the side of the chassis frame at the rear of the vehicle. This alarm will activate whenever the vehicle is put into reverse gear.

EXTERIOR LIGHTING

Exterior lighting shall conform to FMVSS 108 and consist of halogen headlights, LED ICC clearance lights with guards, parking lights, hazard warning lights, license plate lights, tail, stop, and backup lights. Tail and stoplights shall have red, clear, and amber lenses. Electrical wires for the taillights shall be sealed to protect them from the elements of weather.

BODY CONSTRUCTION CHARACTERISTICS

The Aft Custom Body shall be approximately 408" long and will be completely designed and manufactured in-house, and will be an all-aluminum body with steel undercarriage. All body panels, structures, and extrusions shall be fabricated of aluminum using alloys consistent with the load requirements of the vehicle and capable of carrying the maximum payload allowed by the chassis. All framing and structural supports will be welded in accordance with the current standards set forth in the American Welding Society Code. The body shall have a seamless finish with no exposed fasteners. The body shall be attached to the chassis with hardened steel "U" bolts fastened to the chassis and body mounting rails. Treated pine sills shall be installed between the modular body and the chassis frame. The body shall be designed and constructed to insure a life expectancy of more than ten years with normal use. The body structure shall be built and warranted by the vehicle manufacturer.

ROOF

The roof shall be constructed of one-piece .040" aluminum. This aluminum shall be a highly corrosion resistant 5052H32 alloy. The roof shall then be reinforced the entire length of the unit. For this reason, flat roofs shall be considered unacceptable. There shall be approximately twenty (20) roof cross members 24" on center and be made of a highly corrosion resistant 6061T6 alloy. Corner caps shall be cast aluminum and welded in place.

WALLS

The sides shall be constructed of .063" pre-painted formed aluminum sheets with a highly corrosion resistant 5052H32 alloy. The body shall have straight sides free of waves and welding warp. Each sidewall shall have twenty nine (29) vertical "Z" wall studs 16" on center and joined to the roof supports. The body "Z" channels shall be a highly corrosion resistant 6061T6 alloy. All roof and side support bows are .125" aluminum. Vertical corner extrusions shall be .125" thickness and have radius. The vertical extrusions shall be of a web construction design for internal structural support.

FLOOR

The body floor shall have a 3" steel I-beam frame structure with main members all being fully welded and gusseted. This framework is mounted using rubber gaskets to prevent contact of dissimilar metals. The steel I-beam framing shall be on average of 12" on center. The subfloor is then sealed and fastened to the floor structure.

ENTRY DOORS

The door frame assembly shall be heavy duty extruded aluminum with a baked on enamel finish. It shall have three separate hinges with polymer bushings. The hinge system shall comply with FMVSS 206 and CMVSS 206. It shall have a sloped seal to promote drainage. The seals shall be large continuous automotive type held in by a T-slot. Use of adhesive seals is not permitted. The door core assembly is 1-13/16" thick with a 14 gauge steel inner frame

that allows the door to be camber free. An automotive style lock with integral dead bolt shall be utilized. The door window shall be a radius

DOOR WINDOWS

The entry/egress doors shall be provided with a 27" high x 19" wide window. It shall have tempered automotive safety glass.

ENTRY STEPS

The step shall be constructed of aluminum diamond plate and shall be reinforced. It will be a double step set up. It shall be at least 36" wide and shall allow easy entry and egress. It shall be electrically operated and fold out when deployed and flush to the side of the vehicle when stored. Design of step shall allow for an entry step rail to be deployed at the same time as step.

WHEEL CHAIR LIFT

Furnish and install a wheel chair lift in the curbside rear of the vehicle that is ADA compliant and one that meets FMVSS 403 standards. The installer must follow the installation instructions from the lift manufacturer. Compliance for the lighted lift platforms are the responsibility of the installer. The lift must continue to comply with FMVSS-403 once it is installed. The installer must complete a checklist provided by the lift manufacturer that at least certifies that the threshold warning device is operating, the platform lights are operating, the lift interlocks are operating, and the vehicle interlocks are operating. The lift owner's manual must be placed in the vehicle. There must be operator's instructions permanently affixed as indicated by FMVSS.

BODY WINDOWS

Furnish and install six (6) 36" wide x 20" high radius corner slider windows

EXTERIOR COMPARTMENTS

EXTERIOR COMPARTMENT DEPTH

All exterior compartments shall have a clear depth of approximately 30".

RIGHT SIDE COMPARTMENTATION

FORWARD OF REAR WHEEL WELL - P1- P2 (CURBSIDE)

Two lower compartments shall be provided in the forward area behind the front entry/egress door. The (P1) compartment shall have the approximate dimensions as follows: 60" wide x 30" high The (P1) compartment shall have a solid flush mounted top hinged door constructed of aluminum. The (P-2) compartment shall have the approximate dimensions as follows: 48" wide x 30" high. The (P-2) shall have a solid flush mounted top hinged door constructed of aluminum.

LEFT SIDE COMPARTMENTATION

FORWARD OF REAR WHEEL WELL - D1 (STREETSIDE)

One lower compartment shall be provided in the forward area ahead of the entry/egress door. The (D1) Generator compartment shall have the approximate dimensions as follows: 60" wide x

30" high The (D1) compartment shall have a solid flush mounted top hinged door constructed of aluminum. The generator compartment shall have a louvered vented door.

REAR OF WHEEL WELL – D4 (STREETSIDE)

One lower compartment shall be provided in the forward area behind the rear wheel well. The (D4) compartment shall have the approximate dimensions as follows: 48" wide x 24" high. The (D4) compartment shall have a solid flush mounted top hinged door constructed of aluminum.

EXTERIOR COMPARTMENT FABRICATION

All exterior compartments shall be constructed of .125" aluminum 5052H32 walls and ceilings with .125" smooth aluminum floors, formed and MIG welded. Exterior compartments are welded to the floor structure components for strength and durability. All exterior compartment doors shall be equipped with gas charged hold open door check. Exterior compartments shall be top hinged.

EXTERIOR COMPARTMENT DOORS

Each exterior compartment door shall be constructed of .125" 5052H32 aluminum sheet double pan formed with a 1.5" return bend with recessed offset supporting the .063" 3003 alloy aluminum diamond plate interior liner. Extruded doors and/or doorframes are not acceptable. In addition, for maximum rigidity, 2.375" "C" channel bracing shall be added internally for additional door structural integrity. The exterior face of the door and the door edges shall be formed from one [1] sheet of aluminum. All doors shall be flush with the body side and shall be fully insulated with sheet Styrofoam. When opened, the doors will activate their respective compartment lights. All compartment doors shall be keyed alike.

EXTERIOR COMPARTMENT DOOR HANDLES AND LATCHING

Door hinges shall be full length steel with a ¼" stainless pin and shall be fastened to the door and door frame with rivets. The locking mechanism shall be a D-Ring style. Latches shall be near flush with the door skin. Each latch must be capable of being locked independently with an exterior key lock.

COMPARTMENT DOOR SEALS

For optimum fit and closure, the compartment doors shall close on a .625" W x .400" thick automotive bulb gasket attached to interior surface of the double pan-formed compartment doors. The gasket seal shall be attached to this surface to prevent exposure of the compartment to water or dirt when the door is closed.

COMPARTMENT ILLUMINATION

Each exterior compartment shall be lighted with [Litco lights #69000200](#). These lights shall have Lexan clear lenses recessed into the compartment sides and/or ceiling - in our standard positions. Each door shall have an individual automatic switch. The switches shall be mounted in the door frame for both maintenance-free operation and protection from the weather.

INSULATION – POLYSTYRENE

The module shall have 1-1/2" high density polystyrene insulation in the walls, floor and ceiling giving an insulation factor of R-9. The insulation shall be fire retardant, non-settling, non-

hydroscopic, and mildew and vermin proof. Additionally the ceiling shall be insulated with Astro-foil bubble insulation for additional cooling.

ADJUSTABLE SHELVES

One (1) adjustable shelf will be provided and installed in the P-1, P-2 compartment. Each shall be easily adjusted to accommodate equipment/supply requirements.

ADJUSTABLE SHELVES

One (1) adjustable shelf shall be provided in the D4 compartment. It shall be easily adjusted to accommodate equipment/supply requirements.

REAR BUMPER

The rear bumper shall be an I.C.C. and state D.O.T. approved design. The rear bumper shall be constructed of Galvaneal steel angle and channel and painted with a rust resistant black enamel finish.

BODY HARDWARE

All body hardware and all compartment and entry doors are mounted on the module body. All stainless screws are sprayed in electrolysis preventive solution before installing on the module body. This is necessary to prevent future electrolysis. **NO EXCEPTIONS WILL BE ALLOWED.**

LICENSE PLATE HOLDER

A rear license plate shall be furnished with the vehicle

REAR MUDFLAPS

A set of anti-sail rear mud flaps shall be installed on the rearward side of each rear wheel well. The mud flaps shall be black in color.

UNDERCOATING

Undercoating shall be liberally applied to the entire undercarriage of the chassis and vehicle body. Undercoating must be applied according to OEM chassis manufacturer guidelines.

INTERIOR COMPARTMENT COMPONENTS

CABINetry

All cabinets are constructed of 100 percent aluminum panels, aluminum extrusions and steel fasteners for weight reduction, corrosion and a high strength to weight ratio. The cabinets shall be specifically designed for installation in trailers and moving vehicles

Drawers are to be all aluminum construction. The drawers are fully integrated into the cabinet with no visible frame or surrounding box for an aesthetically pleasing quality professional finish. The drawers will feature full width extruded pull handles and integrated self-latching mechanisms allowing one hand unlocking and opening on the entire width of the pull handle.

The cabinets shall be constructed of all aluminum sheet metal 5052 – H32 alloy. The aluminum extrusions shall be prime billet 6063-T5 or T6 alloy, architectural surface quality.

All principle walls to be no less than .090" thick. Where stainless steel is used it shall be a minimum of 304 Stainless Steel alloy with #4 brushed finish.

All fasteners are zinc plated, stainless steel, or aluminum. All nuts are Nyloc / Spin Lock self-locking. Assembly bolts are custom flat head carriage bolts for ease of assembly and disassembly. Cabinets are to be designed so that individual components can be easily replaced. Rivets of any type are not to be used in cabinet construction.

Latches are cast zinc with polyester powder coat finish. The latch shall be a single motion Latch that can be operated with one hand. Hinges are continuous extruded all aluminum staked hinges. Shelf brackets are zinc-plated steel and able to be placed across from each other on both sides of a panel in the same mounting slots via self-mating brackets.

Countertops are industrial grade laminate bonded to ¾" thick exterior grade particleboard (Optional Aluminum and Stainless Steel tops are available).

Drawer latches are solid molded glass reinforced Nylon. Drawer slides are all steel, double carriage ball bearing full extension slides capable of withstanding 250 lbs loading per drawer. Slides will disconnect for ease of drawer removal.

All sheet components are coated with baked on polyester powder coat - door backs are pre-finished coil coated aluminum. The finish shall be UV and scratch resistant. The extrusions shall receive a 204-R1 Class 2 Architectural clear anodized finish.

The frames are fabricated from .090 wall extrusions with square cut and coped ends. Door hinges are secured to frame with self-locking nut and bolt hardware. Frames are pre-punched with all required assembly and mounting slotted holes. All sheet components are CNC punched from new sheet material. Doors are formed to a 1" thickness from a single sheet of aluminum. The overhead and wall cabinets are .063" thick. The base and closet cabinets are .080" thick. All doors to have .040" pre finished aluminum sheet back continuously bonded to face sheet with VHB structural bonding tape. Overhead doors have a mechanical folding hold open mechanism. All doors have full length pivoting handles with a self-latching, independently sprung latch mechanism.

All sheet components are CNC punched from new sheet material. Drawers are all .080" aluminum construction with welded corners. Drawers are encased in a .080" aluminum insert case designed to mount into cabinet faces and integrate with no visible frame around drawers. Drawer has full width extruded aluminum pivoting handle with a self actuating dual self-actuating latches to eliminate two-hand operation. The exterior drawer finish is powder-coated/ anodized to match surrounding cabinet.

The end and center panels are .063" aluminum sheet at overhead and wall cabinets - .080" thickness at closet and base cabinets - all punching, drilling, and forming done prior to finishing - all components must be CNC punched for consistency. All cabinets are provided with a mounting feature perimeter. All panels are finished on all exposed surfaces, inside and outside, after fabrication. Shelves are constructed of .090" mill aluminum and all sides are hemmed over to prevent sharp edges from being exposed. Shelves must include adjustable mounting bracket and securing screw. Shelf slots to be punched in side panels. Cabinets shall be furnished in colors selected by LTC-Lafayette from twenty color choices. **NO EXCEPTIONS WILL BE ALLOWED.**

CLASSROOM AREA CABINETRY

DRY ERASE BOARD

A dry erase board shall be installed on the front interior wall of the classroom. It shall run from side to side and from top to bottom of the front wall.

STREETSIDE OVERHEAD CABINETS

Three (3) cabinets approximately 24" high x 36" wide with two equal doors shall be installed above the student workstations and shall be provided with one (1) full compartment adjustable shelf behind each door. It shall have a "Dry Erase finish" surface on all doors. The doors shall have a full length aluminum pull handle on each door. Overhead cabinets shall have radius edges and corners for occupant protection.

STREETSIDE DESK WORKSTATIONS

The five (5) street side workstations will be 29" high x 216" long with a 3" stainless steel hinge with a 1/4" staked hinge pin to allow the desk-tops to be folded out of the way for an open classroom area when needed. It shall be attached to a reinforced aluminum tapping plate sufficient to support the desk top in the folded or open position. The desktop shall be lockable in either position. The rearmost workstation shall be wheel chair accessible. The drawers shall have a full length aluminum pull handle on each drawer. The desk cabinet shall have radius edges and corners for occupant protection.

CURBSIDE OVERHEAD CABINETS

Three cabinets approximately 24" high x 36" wide with two equal doors shall be installed above the student workstations and shall be provided with one (1) full compartment adjustable shelf behind each door. It shall have a "Dry Erase finish" surface on all doors. The doors shall have a full length aluminum pull handle on each door. Overhead cabinets shall have radius edges and corners for occupant protection.

CURBSIDE DESK WORKSTATIONS

The five (5) curb side workstations will be 29" high x 216" long with a 3" stainless steel hinge with a 1/4" staked hinge pin to allow the desk-tops to be folded out of the way for an open classroom area when needed. It shall be attached to a reinforced aluminum tapping plate sufficient to support the desk top in the folded or open position. The desktop shall be lockable in either position. The rearmost workstation shall be wheel chair accessible. The drawers shall have a full length aluminum pull handle on each drawer. The desk cabinet shall have radius edges and corners for occupant protection.

TEACHERS AREA WORKSTATION

A street side teacher's workstation with file cabinet will be installed in the front of the classroom. It will be approximately 29" high x 40" long with 2 file drawers approximately 12 inches high with a full length desk top. The drawers shall have a full length aluminum pull handle on each drawer. The base cabinet shall have radius edges and corners for occupant protection.

CURB SIDE COMMUNICATIONS CABINET

A street side communications cabinet will be installed opposite the teachers work area. It will be approximately 29" high x 21" wide. The door shall have a full length aluminum pull handle on

the door. The base cabinet shall have radius edges and corners for occupant protection. A 19" equipment rack shall be installed in cabinet.

GALLEY AREA CABINETRY

GALLEY OVERHEAD CABINET

An overhead cabinet approximately 24" high x 30" wide with one door and a space for a microwave oven insert with raised internal floor shall be installed above the conference work center and shall be provided with one (1) full compartment adjustable shelf behind each door. It shall have a "Dry Erase finish" surface on all doors. The doors shall have a full length aluminum pull handle on each door. Overhead cabinets shall have radius edges and corners for occupant protection.

GALLEY BASE CABINET

Install a curbside base cabinet approximately 40" high x 30" wide. Cabinet shall have an opening for a refrigerator. The base cabinet shall have radius edges and corners for occupant protection.

GALLEY REFRIGERATOR

A Norcold 2.7 cubic foot refrigerator model # DE-0251 T shall be furnished and installed in the galley base cabinet. It shall have adjustable door bins for various container sizes. Freezer shelf shall hold ice cube tray. Refrigerator shall have durable and easy to clean white powder coated shelves. Refrigerator shall provide for off-level operation up to 30 degrees.

MICROWAVE

A microwave shall be furnished and installed in the galley overhead cabinet. It shall be a GE 0.7 cubic foot compact model in black. A recessed turntable that maximizes usable oven space will be provided. It shall have Instant-on one-touch buttons offer convenient cooking and reheating for foods. It shall have an Auto defrost feature. A window allows you to view cooking process and an On/off timer reminds you when meals are done. It will have a door latch with release to ensure secure closure.

TRAINING AREA CABINETRY

On the street side rear of the classroom a heavy duty CNC Lathe workstation capable of supporting bench-top size CNC mills, lathes, and other accessories shall be furnished. It will be constructed of welded tube steel and have a perforated steel top. The perforated work surface enables fixtures and tooling to be quickly attached and removed allowing multiple student groups to share the use of the workstation. The station shall be provided with one phase, 120 VAC, 60 Hz, 10 Amps power or one phase, 230 VAC, 50 Hz, 8 Amps power plus the electrical requirements for the CNC machine tool.

A basic Hydraulic workstation shall be furnished and installed. It shall include an industrial hydraulic power supply, actuator component module, valve component module, instrumentation panel, hose and fittings set, supply and return manifolds. The workstation shall be constructed of heavy-duty welded steel. A drip pan is provided on the work surface for setting up circuit applications. The hydraulic valve and actuator modules consist of a variety of components to

enable students to set many different applications. Components are pre-mounted to panels and include quick disconnect fittings to allow for quickly setting up circuits. The workstation panels shall be designed to attach to the workstation and to be interchanged with optional panels that can be added later to the system for more advanced study. The station shall be provided with a one phase, 208 VAC, 60 Hz, 6 Amps power or one phase 230 VAC, 50 Hz, 6 Amps power.

A workstation for holding equipment to teach AC/DC electrical fundamentals shall be furnished and installed. It shall be a heavy-duty workstation capable of supporting industrial quality laboratory equipment. The workstation shall be constructed of heavy-duty welded tube steel and have a plastic laminate top. The workstation shall be supplied with one phase, 120 VAC, 60 Hz, 1.5 Amps power.

INTERIOR COMPARTMENT WALLS

The interior compartment walls shall be constructed of custom "Z" extrusions and the walls covered with 3/8" plywood and FILON panel.

INTERIOR COMPARTMENT LIGHTS

Twelve (12) Thinlite brand 18" recessed fluorescent lights shall be provided and installed over the galley area, student and teacher workstations. On/off position switches shall be provided in convenient locations. Seven (7) Thinlite brand 39" fluorescent lights shall be provided and installed one each over each of the rear training tables, three in the center aisle of the classroom and one each over each entry area.

CEILING HEADLINER

The headliner shall be an automotive headliner of non-woven fabric that will not lose its shape or fall. It shall provide a finished surface that adheres easily to the ceiling and be backed with a substrate material of 3/8" plywood.

STEPWELL LIGHTS

The interior step wells of the patient compartment shall have a Grote light recess mounted, to illuminate the stepping surfaces. It shall be activated by opening the entry/egress door of the vehicle.

FLOORING

A 1-3/8" eleven ply (11) plywood subfloor shall be installed. The 1-3/8" plywood sheet shall be securely fastened with sheet metal screws long enough to penetrate the 3" Steel I-Beams below the FILON sheet. Underlayment substrate shall be placed over the plywood to create a level smooth surface for the vinyl flooring. This process shall create a sandwich effect for long lasting durability and a solid surface. The use of all aluminum or all steel floors is prohibited due to the heat transfer characteristics of metal floors. **NO EXCEPTIONS**

H.V.A.C. EQUIPMENT

The mobile classroom shall be furnished with a rear mounted 3.5 ton air conditioner with a 5 KW heat coil. The air conditioner unit shall be 230 VAC single phase and will include a barometric fresh air damper, a one inch replaceable filter, twin blowers, a scroll compressor, baked enamel finish over galvanized steel with polyurethane primer. The air conditioner unit shall not be mounted on the roof of the vehicle so that a low clearance can be maintained. The AC/Heat

shall run in a ducted system installed in the roof of the classroom. An interior height of 78" shall be maintained and the ducting shall not infringe into the classroom area. **NO EXCEPTIONS.**

MAIN COMPUTER SERVER

Furnish and install the following computer server in custom rack cabinet. Specific items required for the server system are listed below. There should be a rack mounted switch to tie all the computers to the server. In addition there shall be wireless access for the instructors' station and student locations. The network printer shall be stored on top of the custom rack cabinet.

NETWORK SERVER

A Dell PowerEdge 2950 "2U" Rack Mount Server shall be furnished and installed. It shall have an Intel Dual Core Xeon 5130, 4 MB Cache, 295W20 2.00GHz, 1333 MHz FSB Processor. It will have a Windows Server 2003 R2, Standard Edition 3R23SEA SP2 with 5 CALs. It shall be equipped with 1GB 667MHZ (2x512MB), Single Ranked 1G2D6S DIMMs memory. It will have a Riser Card with 3 PCIe Slots. The chassis configuration shall be Rack Chassis with sliding rapid/versa rails and cable management arm, universal. It shall have a redundant power supply with a Y-Cord for RPSWY for a PowerEdge 2950. The hard drive configuration will be integrated SAS/SATA No RAID, SAS 5/I MS integrated. A 1x6 Backplane for 3.5-inch hard drives and a SAS 5/I integrated, No RAID primary controller with a 300GB 10K RPM Serial-Attach SCSI 3Gbps 3.5-inch HotPlug hard drive. A Dual Embedded Broadcom NetXtreme II 5708 Gigabit Ethernet NIC network adaptor shall be furnished. A 24X IDE CD-RW/DVD ROM Drive shall be furnished and installed. Server will have four (4) year Silver Enterprise Support 7 x 24 Hardware/Software and 7 x 24 four hour on-site service.

WORKSTATION COMPUTER EQUIPMENT

Furnish and install at each workstation the following items. One OptiPlex 755 Ultra Small Form Factor: Intel Core 2 Duo Processor E6550 7523U (2.33 GHz, 4M, VT, 1333 Mhz FSB), with Genuine Windows XP Professional, SP2, XPP232Px32 with Media, English operating system with ASF basic hardware enabled systems management. It shall have 1.0GB DDR2 Non-ECC SDRAM, 667 MHz, (1DIMM) memory with a 160GB SATA 3 3.0Gb/s and 8 MB DataBurst Cache. A 24X Slimline CDRW/DVD Combo, Roxio Creator Cyberlink Power DVD removable media storage device shall be furnished. It shall have an Intel GMA3100 Integrated Video Card. Workstation shall have a Dell 17" UltraSharp 1708FP All-In-One stand for USFF chassis. It will have Dell Energy Smart Enable and an NTFS file system. System will be furnished with a DVI-to-VGA Video Adaptor Cable and a Smart Card Reader USB Keyboard. A Dell USB 2-Button Optical Mouse with Scroll in black color shall be furnished. A rear cable cover for the 755 Ultra small form factor computer shall be furnished. System shall come furnished with a four (4) year limited hardware warranty with next business day on-site service and shall have GOLD technical support for four (4) years.

PRINTER

A 5110 CN network printer shall be furnished and installed.

STUDENT/INSTRUCTOR SEATING

Furnish and install twelve adjustable ergonomic office type chairs with pneumatic height control, swivel pedestal and five (5) caster wheels shall be provided at each workstation. Chairs shall be cloth upholstered and the seat height and back supports shall be adjustable. Chairs shall be secured in the knee space area for travel by a strap or bungee cord.

FIRE EXTINGUISHER

Three (3) 5 pound rated ABC fire extinguisher with mounting brackets shall be furnished with the vehicle. These shall be shipped loose to allow the department to install in the desired locations in the classroom, training area, and the chassis cab area.

CARBON MONOXIDE MONITOR

A carbon monoxide monitor shall be installed in the classroom area.

SMOKE DETECTOR

Two (2) smoke detectors shall be installed in the classroom area.

OPERATOR'S MANUAL

A vehicle owner's manual (reference handbook) for the ambulance shall be provided in an 8 ½" x 11" three-ring hard cover loose leaf binder. It shall contain copies of the chassis manufacturer's warranties and owner's manual, copies of the body manufacturer's warranties and operating/service instructions, component manufacturer's equipment information, installation, operating, service instructions, warranties, etc.

OPTIONAL EQUIPMENT**OPT. NO. 1A**

Furnish and install a 24" flat screen TV on the front wall of the classroom and shall include a remote control and roof mounted antenna.

OPT. NO. 1B

Furnish and install a 40" LCD monitor on the front wall of the classroom and shall include a remote control and roof mounted antenna.

OPT. NO. 1C

Furnish and install A second processor on the server computer

OPT. NO. 1D

Furnish two additional drives with RAID 5 for a total of three drives

**LOUISIANA TECHNICAL COLLEGE
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: _____

*NOTE: All variations and/or exceptions must be listed on the attached pages by page and paragraph number from specifications and explained in detail. Failure to so list the exceptions will disqualify the bid.

