

# MOBILE FORENSIC LABORATORY

## Specifications for

### MFLT – 18



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## **INSTRUCTIONS TO BIDDERS**

This specification covers a new commercially built surface emergency response 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 \$4,000,000.00 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 Val Verde County, Texas Sheriff's Department. This criteria will carry as much weight as LOW BID so that the office of the Sheriff in evaluating bids will be able to recommend a bid that will be in the best interest for the Val Verde Sheriff's Department. 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, nor 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. Drawings must be "design and construct" drawings that will be used in the manufacture of the vehicle. At a minimum they must show overall dimensions, compartment sizes, lighting package, and major specified options. The drawings should show the front, rear, right side, and the left side of the exterior. They should also include the interior bulkhead, street side, curb side cabinet plans and 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 \_\_\_(number) 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 \_\_\_\_\_ Department, will travel to the manufacturers 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 emergency 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**

84" 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 TRAILER**

The emergency vehicle Trailer shall be a commercially built body specifically designed for use as an emergency vehicle conforming to the requirements specified herein. The use of cargo trailers shall not be permitted. The module body of the trailer shall be all aluminum. The bidder must be a member in good standing with N.A.T.M. (National Association of Trailer Manufacturers).

**TRAILER MODEL AND TYPE**

The Trailer requirement of this specification is a custom aluminum body with steel I-Beam floor and is a pull tongue trailer with a 12,000 GVWR package, and equipped as follows:

**Bidder Complies to specification as written**

**Yes\_\_\_\_\_ No\_\_\_\_\_**

**TRAILER FRAME****FRAME RAIL**

The main frame shall be 6" x 2" x 1/4" Rectangular Tube Frame Rails, Fully undercoated for rust protection.

**HITCH FRAME**

A minimum of three (3) 6" x 2" x 1/4" Rectangular Tube Rails shall be welded into an A-frame assembly to form the hitch which shall attached to the main frame rails and a minimum of three frame cross members.

**CROSSMEMBERS**

The chassis cross members shall be of high strength tensile steel 3" I-Beam with clipped ends and coated to prevent Galvanic corrosion.

**AXLES**

A total of Two (2) 6000# Dexter Torflex axles shall comprise the trailer suspension and will be with electric brakes and EZ lube hubs.

**TIRES & RIMS**

A total of four (4) LT235/75R 16 LRD BSW Highway tires shall be provided and mounted on Powder Coated MOD wheels.

**WHEEL COVERS**

A total of four [4] Phoenix or equal stainless steel wheel covers shall be provided and mounted.

**HITCH**

An Atwood 2-5/16" adjustable coupler rated at 25,000 lbs. with safety chains and breakaway switch shall be provided.

**BUMPER**

The rear bumper shall be constructed using 3" C-Channel and coved with ADP Tread plate. It shall be a minimum of 12" wide.

**Bidder Complies to specification as written**

**Yes\_\_\_\_\_ No\_\_\_\_\_**

**STAINLESS STEEL WHEEL COVERS**

There shall be furnished and installed four [4] Phoenix Stainless Steel Wheel Covers.

**TRAILER 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.

**BATTERY**

There shall be one (1) "No Maintenance" 12 volt battery. They shall total not less than 770 CCA with 160 minutes of reserve capacity each @ -18 degrees Centigrade.

**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 Master Control Center. 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 a 20??15 amp 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.

### **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 maximum panel amperage of 50 Amperes.

### **GENERATOR:**

There shall be an Onan 7,000 watt commercial Quiet Gas fueled generator mounted in a manufacturer approved enclosure specifically designed for this generator. The compartment shall be color coded with the body and include a latching door with adequate ventilation and be side body mounted flush with the exterior. The exhaust will be piped under the vehicle to a safe corner location using exhaust components that can be easily located and replaced by local mechanics. The fuel line shall be piped into the vehicle's fuel tank with a factory approved filler tube which shall be short of the bottom of the fuel tank not to allow the vehicle to run out of fuel. Generator shall be remotely started including an hour meter and able to run while the vehicle is responding.

### **EXTERIOR SHORE POWER-60 AMP**

There shall be a 220 volt twist-lock male plug rated at 60 amps or more with a friction-assisted cover assembly, UL listed for exterior use, located on the driver's side of the body close to the driver's door. This shall energize the vehicle's 115 volt AC circuit from an exterior power source. This connector must be labeled: "115 volt AC, 60 Hz, 60 amp power supply". A 25' cord shall be furnished.

### **EXTERIOR SHORE POWER-15 AMP**

There shall be a 110 volt twist-lock male plug rated at 15 amps or more with a friction-assisted

cover assembly, UL listed for exterior use, located on the driver's side of the body close to the driver's door. This shall energize the vehicle's 115 volt AC circuit from an exterior power source. This connector must be labeled: "115 volt AC, 60 Hz, 60 amp power supply". A 20' cord shall be furnished.

### **INTERIOR 115 VOLT AC OUTLETS**

There shall be 12 (12) three-wire duplex 115-volt AC receptacles. There shall be six [6] in the curbside counter area, one [1] in the bath area and five [5] in the street side counter 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".

### **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.

### **SIREN/P.A. SYSTEM**

A Whelen WS-295HF siren shall be furnished and installed. This shall be a hands free model.

### **SPEAKER**

A Whelen #SA31I01D speaker shall be securely bolted through the chassis OEM front bumper on the driver's side.

### **SPEAKER**

A Whelen #SA31I01P speaker shall be securely bolted through the chassis OEM front bumper on the passenger's side.

### **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 chrome brush 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.

### **SCENE LIGHTS**

Scene Lights shall be furnished and consist of eight *Whelen* 810 series white quartz halogen scene light with 8-32 degree optics, model number 810CA0ZR (or current model). Three each shall be mounted on left side, right side and two on rear of body. Two switches shall be provided

to operate lights on either side of body.

### **120 VOLT 500 WATT QUARTZ LIGHTS**

Two [2] 500 Watt quartz lights shall be furnished. Each lamp head shall be 120 volt, Extenda-Lite 500 watts, draw 4.2 amps and have an output of 16,830 Lumens. The lamp head can be rotated 360 degrees, elevate up to 8 feet, have an on/off toggle switch, and can be tilted without a locking device with the friction controlled knuckle assembly. The screw type locking collar shall be an aluminum extrusion that shall be coated with a clear anodized finish for protection from inclement weather. A plastic collet tightens against the pole.

The 46" leg spread and the plug wired at the bottom will provide stability. The wiring shall be a minimum of 16 gauge wire that is properly supported and protected from damage. The light shall pass the 10th edition of UL 153, 83.1 Dielectric Withstand test. A serial number shall be assigned to each light and the results of the quality test shall be recorded and documented to the serial number. Extenda-Light Tripod Mounting Bracket used to mount Tripod lighting to exterior of emergency vehicle. Two brackets are furnished.

### **BODY CONSTRUCTION CHARACTERISTICS**

The Aft Custom Body shall be 216" long and will be completely designed and manufactured in-house, and will be an all-aluminum body. All body panels, structures, and extrusions shall be fabricated of aluminum using alloys consistent with the load requirements of the trailer and capable of carrying the maximum payload allowed by the trailer 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 designed and constructed to insure a life expectancy of more than five 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 with 2.5% magnesium and a tensile strength range of 28,000 to 33,000 psi. The roof shall then be reinforced the entire length of the unit. For this reason, flat roofs shall be considered unacceptable. There shall be twenty nine (29) .125" x 2" x 2" cross members 16" on center and be made of a highly corrosion resistant 6061T6 alloy with 1% magnesium and .6% silicone with a tensile strength range of 31,000 to 35,000 psi. Corner caps shall be cast aluminum and welded in place.

### **WALLS**

The sides shall be constructed of .063" pre-painted aluminum sheets with a highly corrosion resistant 5052H32 alloy with 2.5% magnesium and a tensile strength range of 28,000 to 33,000 psi. The body shall have straight sides free of waves and welding warp. Each sidewall shall have twenty nine (29) vertical .125" x 2" x 2" wall studs 16" on center and joined to the roof supports. The body 2" x 2" channels shall be a highly corrosion resistant 6061T6 alloy with 1.0% magnesium and .6% silicone and a tensile strength range of 31,000 to 35,000 psi. All box 2" x 2" roof and side support bows are .125" aluminum. Vertical corner extrusions shall be .125"

thickness and have a 5" radius. The vertical extrusions shall be of a web construction design for internal structural support.

## **FLOOR**

The body floor shall have a 3" 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 16" on center. The floor frame is then covered the entire length with moisture barrier mounted under the subfloor to act as a heat shield and vapor barrier. The subfloor is then sealed and fastened to the floor structure.

## **ENTRY DOOR**

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 WINDOW**

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

## **WINDOW**

A tinted radius side window shall be installed on the curbside of the trailer over the workstation desk. The window shall be an egress window and be furnished with a mini-blind for privacy. The window size shall be 24" high x 30" wide.

## **EXTERIOR COMPARTMENTS**

### **LEFT SIDE COMPARTMENTATION**

#### **FORWARD OF REAR WHEEL WELL - D1 (STREETSIDE)**

One lower compartment shall be provided in the forward area ahead of the rear wheels. The (D1) Generator compartment shall have the approximate dimensions as follows: 48" 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. The compartment shall be below the interior fuming hood.

### **FRONT OF TRAILER ON HITCH**

There shall be a storage compartment located on the front hitch. This compartment is for storage of shovels, rakes, screens, and other scene processing equipment. The compartment shall be designed not to interfere with the safe operation of the trailer.

## **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 1/4" 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 a dome light. 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 and ceiling giving an insulation factor of R-9. The insulation shall be fire retardant, non-settling, non-hygroscopic, and mildew and vermin proof. Additionally the ceiling shall be insulated with 1/4" astro-foil bubble insulation.

## **EXTERIOR GRAB RAIL**

An exterior style 16" stainless steel grab rail shall be installed on the rear of the vehicle to the left of the entrance door. The grab rail must be bolted to the aluminum side structure with fender washers and rubber gaskets. A grab rail mounted to the body skin is unacceptable.

### **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.

### **REAR STEP**

The rear step shall be an integral part of the rear bumper and be designed to fold out for ease of access.

### **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.

### **FENDERETTES**

Polished Aluminum Fenderettes shall be provided in each rear wheel well. They shall help prevent damage to the underside of the body caused by stones and road debris.

### **LICENSE PLATE HOLDER**

The rear license plate holder,

### **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.

### **BODY AWNING**

One (1) Carefree twelve foot (12') electric awning with windsmart detector shall be installed on curbside of vehicle body.

### **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 3/4" 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. NO EXCEPTIONS

### **STREETSIDE OVERHEAD CABINET**

A cabinet approximately 24" high x 120" wide x 14" deep with five equal doors 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.

### **STREETSIDE BASE CABINET**

A street side base cabinet will be installed in the conference work center. It will be approximately 40" high x 120" wide x 24" deep with a full length .090" stainless steel counter top 25" deep x 120" long with a gasket lock radius backsplash. There shall be one shelf behind each door. The base cabinet shall have radius edges and corners for occupant protection. The cabinet shall have an opening for a refrigerator. The counter top and base cabinet shall be equipped with a stainless steel sink.

### **STREETSIDE EQUIPMENT CABINET**

A street side base cabinet will be installed in the work center. It will be approximately 28" high x 38" wide x 30" deep and formed from 2" x 2" x .125" structural aluminum tube. It will have a .090 stainless steel counter top 30" deep x 42" wide. The generator shall be installed below this compartment. This cabinet is for the fuming hood.

### **LABORATORY 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.

### **POTABLE WATER SYSTEM**

The laboratory shall be equipped with a rectangular single stainless steel sink, 4" center set faucet, sink strainer, 30 gallon fresh water tank, and a holding tank. It shall include a Shur-Flo model # 2088-422-44412V water pump with sound absorbing base plate, an exterior potable water fill with cap, water level gauge, and a drain petcock on the water tank. It shall be completely plumbed for the DWV system. An additional five gallon water jug shall be furnished. Water pump shall be warranted for five years.

### **HOT WATER HEATER**

A 2.5 gallon electric hot water heater shall be furnished. It shall be properly vented and installed per the manufacturer's recommendations.

### **RESTROOM AREA**

**COMMODE**

A Thetford C200CS cassette toilet shall be installed. A Thetford C200CS cassette holding tank shall be furnished.

**MIRRORED STORAGE CABINET**

A mirrored wall mount with depth to store toilet tissue shall be installed in the restroom area.

**EXHAUST VENT**

A Fan-tas-tic roof vent shall be installed in the restroom area. It shall have a wall switch separate from the light switch.

**RESTROOM DOOR**

A 24" X 74" solid door with aluminum perimeter frame and polystyrene core mounted in aluminum jamb with a chrome plated paddle door lock shall be furnished.

**CURBSIDE OVERHEAD CABINETS**

Two [2] cabinets approximately 24" high x 108" wide x 14" deep with four equal doors shall be installed above the 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.

**CURB BASE CABINETS**

Two (2) curb side base cabinets will be installed in the work center. They will be approximately 40" high x 90" wide x 24" deep with six [6] drawers approximately 12 inches high and seven [7] doors with a full length stainless steel counter top 25" deep x 180" long with a gasket lock radius backsplash. The drawers and doors shall have a full length aluminum pull handle on each drawer and door. The base cabinet shall have radius edges and corners for occupant protection.

**CURB SIDE WORKSTATION**

A full length counter top 25" deep x 36" long x 29" high shall be installed. The counter top shall be finished in a high quality laminate with a gasket lock radius backsplash. There shall be two 18" wide x 3" high x 18" drawers below the counter top.

**INTERIOR COMPARTMENT WALLS**

The interior compartment walls shall be constructed of custom "Z" extrusions 1.5" x 1.5" with .090 wall covered with 3/8" plywood and FILON panel.

**INTERIOR COMPARTMENT LIGHTS**

Nine (9) Thinlite brand 18" recessed fluorescent lights shall also be provided and installed. On/off position switches shall be provided in convenient locations.

Six (6) 18" surface mounted Thinlite lights shall be provided and installed in the primary operations area consoles. These lights shall have a manual "on/off" switch.

### **CEILING HEADLINER**

The headliner shall be constructed of a durable high-gloss Filon backed with a substrate material of 3/8" plywood.

### **FLOORING**

A 3/4" plywood subfloor shall be installed on top of the one piece FILON sheet. The 3/4" 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.

### **FLOOR COVERING**

An all vinyl one piece floor covering shall be provided. It shall have a smooth coin pattern for both traction and ease of clean up.

### **SLIDING DOOR WALK-THROUGH**

There shall be a sliding access door 58" high x 20" wide x 3/4" thick and shall have a fixed, tinted Plexiglas window trimmed in aluminum. The door shall slide freely on a suspended track with a bottom guide and shall have positive latches to hold it in both the open and closed positions. The door shall slide behind the driver seat.

An aluminum partition wall framed with aluminum "Z" channel placed on 16" centers and plated with .063" aluminum formed and attached to the roof, both sides, and floor shall be installed. The interior compartment side of the partition shall be covered with 3/8" plywood covered with FILON. The driver's side of the partition shall be covered with a mildew resistant marine style carpet of a color that matches with the cab interior colors.

### **H.V.A.C. EQUIPMENT**

One (1) Coleman MACH 3 PLUS RV air conditioners with heaters shall be furnished and installed. The roof mounted air conditioners shall deliver a minimum of 13,500 BTU hour of cooling and delivers 340 cu. ft. of air movement per minute on high. The Heater Assembly shall deliver 5600 BTU of heat on high setting.

### **COMMUNICATIONS, TELEVISION, AND RADIO EQUIPMENT**

A DVD/VCR shall be installed in the upper cabinet on driver's side of vehicle.

The laboratory shall be pre-wired for a weather station that will be installed in the

communications area.

### **COMPUTER EQUIPMENT**

An LCD computer monitor shall be installed on the wall of the desk area and

### **CRIME SCENE KITS**

One (1) Crime Scene Digital Photo Equipment Kit #MCL-01 to consist of the following:

- (1) Professional Carrying Case with Precut Foam Insert  
Dims: 18-1/2" X 11-1/2" X 7-1/2"
- (1) 8.0 Megapixel SLR Digital Camera Body
- (1) 18-55mm, f3.5-5.6 Lens with Lens Cap
- (1) Dedicated Electronic Flash
- (1) All-Purpose Tripod

One (1) MegaMAXX Alternate Light Source System Kit, #MMX100, consisting of the following:

- 1 - 395nm megaMAXX UV light with 5 LEDs
- 1 - 455nm MMX Light
- 1 - 470nm MMX Light
- 1 - 505nm MMX Light
- 1 - 530nm MMX Light
- 1 - 590nm MMX Light
- 1 - 625nm MMX Light
- 1 - White MMX Light
- 1 - Light Diffuser
- 1 - MMXPOD Light Support Tripod
- 1 - Fal208 Yellow Barrier Goggles
- 1 - Fal207 Red Barrier Goggles
- 1 - BMS300 Barrier Orange Goggle
- 1 - 797GV UV Protective Spectacles
- 1 - 52mm Orange Camera Lens Barrier Filter
- 1 - 52mm Red Camera Lens Barrier Filter
- 1 - 52mm Yellow Camera Lens Barrier Filter
- 21 - AAA Alkaline Batteries
- 2 - CR123 Lithium Batteries
- 1 - MMX100C Custom Fitted, Heavy-duty attaché case w/ pre-cut foam insert; size 18.5" x 15.5" x 5.5", Weight: 11.12 lbs.

One (1) Master Crime Scene Sketch Kit #MCL-03 to consist of the following:

- (1) No. SK1000C, Vinyl, leather finish, black, briefcase type carrying case Dims:  
13-1/2" X 9-1/2" X 2-1/2"
- (1) No. KCP130, Pad of graph paper, 50 sheets
- (1) No. KCP131, 12" (30 cm) white ruler
- (1) No. KCP134, Mechanical sketch pencil
- (1) No. KCP132, 30 degree/60 degree/90 degree clear plastic triangle
- (1) KCP133, 45 degree/45 degree/90 degree clear plastic triangle.
- (1) No. 1190I, lavatory planning template
- (1) No. 714, house-furnishing template

- (1) No. 712, store layout template
- (1) No. 710, office plan template
- (1) No. KCP135, Universal compass
- (1) No. SK800, 50 foot/15 meter steel rule
- (1) No. KCP136, Set professional drawing instruments
- (1) No. TB100 Booklet, "Sketching and Detail Drawing of the Crime Scene"

One (1) Investigation Mapping Kit #MCL-04 to consist of the following:

- (1) Custom Molded Carrying Case – Dims: 16-1/2" X 8-1/2" X 7-1/4"
- (1) 100 foot Steel Tape Measure
- (10) White Plastic Placards with Black Numerals (0-9)
- (10) Black Plastic Placards with White Numerals (0-9)
- (5) Spring Steel Placard Holders
- (1) Mechanical Pencil
- (1) Model 711CS Notebook

One (1) Evidence Collection and Identification Kit #MCL-05 to consists of the following:

- (1) Leatherette Covered Carrying Case with Molded Plastic Inserts  
Dims: 18-1/2" X 15-1/2" X 5-3/4"
- (1) 50ft/15m Steel Tape Measure
- (1) 2-Cell Flashlight
- (2) No. 603E Rolls of Evidence Tape
- (2) No. 606E Rolls of Evidence Tape
- (12) Evidence Labels
- (12) 608E01 Evidence Tags with Ties
- (12) 608E11 Evidence Tags with Ties
- (10) Chain of Possession Labels
- (20) Zip-Top Bags, 4"x6"x0.004"
- (10) Zip-Top Bags, 9"x12"x0.004"
- (1) Ultraviolet Light with Batteries
- (4) Evidence Collection Lifters
- (2) 4-3/4" Plastic Tweezers
- (1) Pair of Scissors
- (1) Carbide Tipped Scriber
- (1) Evidence Knife
- (1) China Marker, Black
- (1) China Marker, White
- (4) Liquid Sampling Pipettes, 1ml
- (1) 3-1/2" Magnifying Glass
- (1) Probe with Paint Chip Cutter
- (3) Sticks of White Chalk
- (2) Collection Tubes with EDTA, 7ml
- (2) Disposable Syringes, 3cc
- (3) Plastic Jars with Caps, 2 fl. oz.
- (3) Amber Plastic Jars with Caps, 7 fl. dram
- (3) Amber Plastic Jars with Caps, 5 fl. dram
- (2) Disposable Latex Glove Pairs
- (1) Stainless Steel Spatula

- (1) Disposable Scalpel
- (1) 6 Foot Steel Tape
- (1) Molded Polypropylene Inner Storage Case

One (1) Evidence Vacuum Sweeper Kit #MCL-06 to consist of the following:

- (1) Briefcase style molded Carrying Case with form fit foam Inserts  
Dims: 18-3/4" X 14-1/4" X 6"
- (1) 120V AC Vacuum with Heavy Duty Motor
- (2) Trace Evidence Collection Filters
- (1) Seven (7) Foot Long Flexible Plastic Hose
- (1) AC Power Cord, Detachable, 10'

One (1) Evidence Collection Bag and Sealing Kit #MCL-07 to consist of the following:

- (1) Custom Molded Carrying Case: Dims: 16-1/2" X 8-1/8" X 7"
- (25) 12" x 20" x .003" Plastic Evidence Bags
- (25) 8" x 12" x .003" Plastic Evidence Bags
- (25) 4" x 9" x .003" Plastic Evidence Bags
- (25) 3" x 5" x .003" Plastic Evidence Bags
- (1) 120V AC Electric Bag Heat Sealer

One (1) Master Expert Latent Print Kit #MCL-08 to consist of the following:

- (1) Leatherette covered carrying case pre-cut insert Dims: 20-1/2" X 13" X 9-3/4"

#### REGULAR POWDER PROCESSING:

- (1) Silk Black Powder, 2 oz.
- (1) Indestructible White Powder, 2 oz.
- (1) Silver/Black Powder, 2 oz.
- (1) Silver/Gray Powder, 2 oz.
- (1) Silver/Red Powder, 2 oz.
- (2) Fiberglass Latent Print Brushes
- (5) Regular Latent Print Brushes

#### MAGNETIC POWDER PROCESSING:

- (1) Black Magnetic Powder, 3 oz.
- (1) White Magnetic Powder, 3 oz.
- (1) Silver/Black Magnetic Powder, 3 oz.
- (1) Silver/Gray Magnetic Powder, 3 oz.
- (1) Silver/Red Magnetic Powder, 3 oz.
- (1) Magnetic Powder Applicator

#### CHEMICAL FUMING PROCESSING:

- (6) Cyanoacrylate Packets
- (4) Disposable Iodine Fuming Guns
- (4) Iodine Print Enhancers

#### CHEMICAL PROCESSING:

- (1) Ninhydrin Spray, 8 oz.
- (1) Silver Nitrate Spray, 8 oz.
- (1) Small Particle Reagent (SPR) 250 ml.

**FINGER PRINT LIFTING:**

- (1) Transparent Lifting Tape, 2" x 360"
- (1) Frosted Lifting Tape, 2" x 360"
- (12) Transparent Hinge Lifters, 1 1/2" x 2"
- (12) White Hinge Lifters, 1 1/2" x 2"
- (12) Black Hinge Lifters, 1 1/2" x 2"
- (4) Transparent Hinge Lifters, 4" x 4"
- (4) White Hinge Lifters, 4" x 4"
- (4) Black Hinge Lifters, 4" x 4"
- (2) White Rubber Palm Lifters, 7" x 9"
- (2) Black Rubber Palm Lifters, 7" x 9"
- (1) Lifted Print Backing Pad, 5 1/2" x 8 1/2", 50 sheets

**PROCESS SUPPORT MATERIALS:**

- (1) Magnifier, 2 1/2"
- (1) Penlight, 2-AA, 1.5 volt
- (1) Photo Evidence Rule Tape, 1" x 360"
- (1) Evidence Identification Tape, 1" x 500"
- (1) Scissors, 5"
- (1) Retractable Measuring Tape, 6 ft.
- (1) Notebook
- (1) Water Dispensing Bottle, 8 oz.
- (4) Disposable Towels, 4 ply
- (8) Evidence Bags, 4" x 6"
- (3) Evidence Bags, 9" x 12"
- (4) Disposable Latex Glove Pairs
- (8) Ink Cleaner Towelettes
- (2) Storage Containers, Molded Polypropylene, 10-3/8" x 4-5/8" x 1-11/16"
- (1) Complete Instructions

One (1) BLUEMAXX™ Patrol Kit #MCL-09 to consist of the following:

- (1) Custom Molded Carrying Case – Dims: 17-1/2" X 10-1/4" X 8-1/2"
- (1) BLUEMAXX™ Standard Light Source w/Excitation and Barrier Filter
- (1) REDescent™ Fluorescent Latent Powder, 2 oz.
- (1) GREENescent™ Fluorescent Latent Powder, 2 oz.
- (2) Marabou Feather Duster, Black
- (1) Transparent Lifting Tape, 2 inch
- (1) Transparent Lifting Tape, 4 inch
- (10) Reversible Backing Cards
- (1) Set of Complete instructions

One (1) Master Hard-Core and Liquid Silicone Casting Kit #MCL-10 to consist of the following:

- (1) Carrying Case – Dims: 10-1/2" X 12" X 10"
- (1) Container, P/S Hinged, 7"x13-1/2"x1" which contains the following
  - (1) Spatula, 7", Steel Blade
  - (1) Photo Evidence Ruler
  - (1) Clay Stick, 1/4 lb.
  - (1) Silicone Casting Kit

- (1) Tape Measure, 100ft/30m
- (1) Sirchseal Label Roll
- (1) Casting Frame, 7-1/4"x12"-18"
- (1) HARD-CORE Casting Material, 5.7 lbs.
- (1) HARD-CORE BLUE™ Mixing Solution, 32 fl. oz.
- (1) Silicone Release Agent, 6 fl. oz.
- (1) SNOWPRINT Wax
- (1) Gas Power Unit with Head, 6.5 fl. oz.
- (1) Spray Head Cleaner, 16 oz.
- (1) Liquid Silicone Rubber, 1 lb.
- (1) Base Builder, 8 fl. oz.
- (3) Flexible Rubber Bowls
- (1) Surface Brush
- (1) Steel Mixing Spoon

One (1) DUROCAST™ Impression Compound Kit #MCL-11 to consist of the following:

- (1) Molded Case – Dims: 12-1/8" X 7-1/4" X 5-1/2"
- (1) DUROCAST™ Impression Compound, 24 fl. oz.
- (1) DUROCAST™ Impression Compound Catalyst, 5 g
- (1) Plastic Measuring Spoon

One (1) Master Blood Test Kit #MCL-12 to consist of the following:

- (1) Carrying Case - Dims: 13-1/2" X 10" X 5"
- (18) 3 ml. Disposable Pipettes w/ Capillary & Bulb
- (2) Contact Filter Papers, 1"x2", 25 each
- (6) Leuco Malachite LM1 Ampoules
- (6) Leuco Malachite LM2 Ampoules
- (6) Phenolphthalein PX1 Ampoules
- (6) Phenolphthalein PX2 Ampoules
- (6) Luminol L1 Ampoules
- (6) Luminol L2 Ampoules
- (2) 2 oz. Distilled Water
- (2) 7 ml. Vacutainers with EDTA for DNA Blood Analysis
- (1) Flint Glass Jar with Cap, 13/64 oz.
- (15) Cotton Balls
- (1) Spray Power Unit with Tube

One (1) Seminal Fluid Test Kit #MCL-13 to consist of the following:

- (1) Carrying Case – Dims: 13-1/2" X 10" X 5"
- (8) 3 ml. Disposable Pipettes w/Capillary & Bulb
- (2) Contact Filter Papers, 1"x2", 25 each
- (2) 2 oz. Distilled Water
- (10) I.D. Labels
- (3) Glass Specimen Vials with Caps, 3 dram
- (15) Cotton Balls
- (8) Reagent No. 1 Ampoules, 5 ml
- (8) Reagent No. 2 Ampoules, 2 ml
- (8) Reagent No. 3 Ampoules, 1 ml

One (1) Trace Metal Detection Kit #MCL-14 to consist of the following:

- (1) Molded Carrying Case – Dims: 12-1/2" X 7" X 5-3/4"
- (4) 2 oz. Jars Trace Metal Reagent
- (1) Aerosol Power Spray Head
- (1) Short-wave Ultraviolet Light (AC/DC)
- (12) Reagent Cleaner Towelettes

Five (5) Primer Residue Collection Kits (Scanning Electron Microscopy) #MCL-15 to consist of the following:

- (1) No. GRA202 Gunshot Residue Collection Vial, Right Palm
- (1) No. GRA203 Gunshot Residue Collection Vial, Left Palm
- (1) No. GRA204 Gunshot Residue Collection Vial, Right Back
- (1) No. GRA205 Gunshot Residue Collection Vial, Left Back
- (1) No. GRA201 Test Data Label
- (1) No. TI3081 Instruction Sheet
- (2) No. KCP118 Integrity Seals
- (1) No. SF00761 Latex, Powder-Free Glove Pair
- (1) No. KCP223 Box, Plastic, 7" x 3 1/2" x 1"

One (1) Cyanowand Cyanoacrylate Fuming Kit # MCL16 to consist of the following:

- (1) No. SCW101 CYANOWAND Heat Generator, with Protective Head Cover
- (1) No. SCW103 Butane Fuel Can, 1.3 oz.
- (1) No. SCW104 Cartridge Extraction Tool
- (1) No. SCW200 CYANOWAND Cartridge (Pack of 10)
- (1) No. SCW105 Carrying Case, Copolymer with Foam Inserts

One (1) NARK200MK Master Testing Kit # MCL 17, containing fourteen reagents, packaged in quantities of 10, which will test for the following:

Amphetamine (Speed), Barbiturates, Benactyzine, Cannabis (Marijuana), Cocaine, Codeine, DMT (Businessman's High), Ephedrine (Over the counter, used to manufacture methamphetamine), Heroin (Smack, Tar), LSD (Acid), MDA (Mad Dog), MDMA (Ecstasy), Mescaline (Chocolate Mesc), Methadone, Methamphetamine (Crank, Speed, Ice), Methcathinone, Methedrine, MMDA, Morphine, PCP (Killer Weed, Angel Dust, Dust), Psilocybin (Magic Mushrooms, Shrooms), Rohypnol (Roofies, Date Rape Drug), Talwin, Valium

One (1) Number Restoration Kit #MCL-18 to consist of the following:

- (1) Carrying Case – Dims: 16" X 10" X 6"
- (1) Restoration Accelerator with Probes
- (3) 3 ml. Disposable Pipettes w/ Capillary & Bulb
- (1) 2 oz. Acid Neutralizer
- (6) Emery Paper, 2"x3"
- (1) File, Bastard
- (1) Jars, 8 oz Polystyrene, 70/400
- (15) Cotton Balls
- (2) NIS Steel Reagents, 1/8 oz.
- (2) NIC Copper Reagents, 1/8 oz.
- (2) NIA Aluminum Reagents, 1/8 oz.

- (1) Steel Restor-A-Gel, 2 oz.
- (1) Copper Restor-A-Gel, 2 oz.
- (1) Aluminum Restor-A-Gel, 2 oz.
- (1) Metal Surfacing Solution, 2 oz.
- (1) Aluminum Surfacing Solution, 2 oz.
- (1) Pair Rubber Gloves
- (1) 1/4 lb. Everflex Clay

One (1) Ultraviolet Kit #MCL-19 to consist of the following:

- (1) Carrying Case – Dims: 13-1/2" X 10" X 5"
- (4) UV Powders
- (2) UV Pastes
- (1) CLUE SPRAY™
- (2) Invisible Fluorescent Crayon
- (1) Battery Operated UV Light, Longwave, with Batteries
- (4) 118L Regular Powder Brushes
- (1) Fluorescent Invisible Marking Pen
- (12) Cotton Tipped Applicator Swabs

Two (2) Anti-Putrefaction Mask Kits #MCL-20, Each to consist of the following:

- (1) Carrying Case – Dims: 12-3/8" X 7" X 4-5/8"
- (1) Nose-Mouth Mask with Filters
- (2) Replacement Filters
- (1) Disposable Latex Gloves
- (12) Cleaning Towelettes

One (1) Postmortem Fingerprint Kit #MCL-21 to consist of the following:

- (1) Carrying Case – Dims: 13-1/2" X 10" X 5"
- (12) Left Hand Postmortem Cards
- (12) Right Hand Postmortem Cards
- (10) Ink Cleaner Towelettes
- (4) Hypodermic Syringes, 3 cc, Disposable
- (15) Cotton Balls
- (8) Tissue Builder Solution 4 Dram
- (1) Tissue Builder Solvent 2 oz.
- (2) Finger Tissue Cleaner 2 oz.
- (1) Postmortem Inking Tool
- (1) Postmortem Record Strip Holder
- (1) Disposable Latex Gloves, Pair

Three (3) Crime Scene DNA Kit #MCL-22 to consist of the following:

- (1) FDA Manufacturers Insert
- (2) Evidence Id Strips, Date/Number Type
- (1) Kit Box, Factory-Integrity-Sealed
- (5) Evidence Collection Envelopes 5 X 7-1/2
- (5) Evidence Collection Envelopes 3-1/2 X 6-1/2
- (1) DNA 1005 Undergarment Bag
- (1) DNA 1006 Debris Collection Bag
- (2) DNA 1007 Outer Clothing Collection Bag
- (1) DNA 1008 Tape Strip, Red, Vinyl, 19"

- (1) DNA 1009 Distilled Water
- (3) ILSP33008 Evidence Integrity Bag Seals
- (2) KCP122 Blood Collection Tubes, 7 ml w/ EDTA
- (1) KCP137 Syringe w/ Needle, 10 cc Disposable
- (1) KCP139 Pair of Tweezers, Plastic, 4-3/4
- (5) KCP160 Packages of Two Swabs, Sterile, Cotton-Tipped
- (2) KCP164 Evidence Seals, Red, "Warning! Police Seal Do Not Remove"
- (1) KCP178 Liquids Absorber Packet
- (1) KCP194 Mailer, Styrofoam, Two Tube
- (5) KCP196 Swab Box, Ventilated, No imprint
- (4) KCP206 Biohazard Label, 1 X 1-1/4, Black on Orange
- (5) KCP211 Gauze Pads, 12 Ply, 2 X 2
- (1) KPC241 Bag, Loc-Top, 6 X 9 X .004
- (6) SF00761 Latex Powder-Free Gloves, Large, Ambidextrous, .005 Thick

One (1) Krime Kit Evidence Identification Kit #MCL-23 to consist of the following:

- (1) No. GL000 Carbide Tip Scriber
- (1) No. GL001 Diamond Tip Scriber
- (1) No. GL002 Collection Knife
- (1) No. GL004 Ridge Counter
- (1) Vinyl Pocket Case

Two (2) DFO-Spray (1,8-Diazofluoren-9-One) 4 ounce Aerosol Cans of Amino Acid Fluorochrome, Kit # MCL24:

One (1) Cyanoacrylate Portable Fuming Cabinet with Carrying Case, Kit # MCL25

- (1) Removable Lid for Document access
  - (1) Removable Inner shelf for single or dual compartment use
  - (3) Evidence Clips with support rod for hanging documents
- Weight: 16 Pounds  
Volume: 2,880 cu. inches (approx. 12.5 gallons)  
Dimensions: Assembled 12" X 12" X 20"

One (1) Compact, Self-Contained Forensic Fluorescence Light Source Kit, Model No. FAL2000, consisting of the following:

**FAL 2000 KIT CONTENTS:**

- One (1) FAL200 Lamp Assembly with High Intensity Xenon Lamp
- Two (2) PA6GF30 NiCad 14.4 DC Rechargeable Batteries
- One (1) FAL201F Sliding Filter Array
- One (1) FAL202F Sliding Filter Array
- Four (4) Barrier Filter Goggles: Yellow, Orange, Red, UV (clear)
- One (1) 49mm Orange Camera Lens Barrier Filter
- One (1) 49mm Red Camera Lens Barrier Filter
- One (1) 49mm Yellow Camera Lens Barrier Filter
- One (1) CGA6GF30 Battery Charger
- One (1) Professional Duty Tripod
- One (1) Durable Molded Carrying Case w/precut foam insert:  
Dimensions: 28" W x 17" H X 10.5" D;  
Total Kit Weight: 22.2 lbs.

**SLIDING FILTER ARRAYS**

- FAL201F: 365nm, 415nm, 450nm, white light
- FAL202F: 470nm, 505nm, 530nm, white light

**CAT. NO. FAL200 LAMP ASSEMBLY**

## Light Source:

- 35-watt, high intensity Xenon lamp lighter
- Approx. 3000 hours of operation
- Color temp.: 4200° K. lamp
- Output: 3200 lumens

Dimensions: 18.75" X 4.5" X 7.25"

Weight: 5.9 lbs. (w/battery and filter)

Cooling: 2 silent running, high volume fans

**CAT. NO. CGA6GF30 BATTERY CHARGER**

- One hour charging time
- Input: FAL2000=110V AC, 60 Hz

FAL2000220=220V AC, 50 Hz

- Output: 12.0-14.4V DC, 1.8A
- Automatic voltage regulation, monitors battery condition
- Weight: 3.5 lbs. (without battery)
- Dimensions: 9" X 4.5" X 3 3/8"

**CAT. NO. PA6GF30 BATTERY**

- NiCad, Rechargeable 14.4V DC, 2-AH
- Approx. 30 minutes of continuous operation from fully charged battery
- Weight: 1.8 lbs.

One (1) KRIMESITE™ IMAGER Direct View Kit w.Black Talon Stabilizer, Model KSS60TALON, consisting of the following:

- One (1) KRIMESITE™ IMAGER w/KSS100B 60mm UV lens; Adjustable Focus Eyepiece w/Rubber eyecup; KSS8010 Dual Filter Slide Assembly (Luminol/Visible and UV); Gen II Image Intensifier; Laser Pointer; 6" wrist Lanyard
- One (1) CR123 Lithium Battery
- One (1) KIRMESITE™ IMAGER Steady Rest w/Removable Pistol Grip
- One (1) BTS100 Black Talon Stabilizer w/2 CUV100TS 4-watt battery operated UV Lamps (254nm)
- Two (2) Precision Laser Engraved Scales, English and metric
- One (1) KSS9200 SIRCHPOD® Copy Stand
- One (1) SW969 Companion Illuminator Dual 6/12-watt UV Lamp, 254nm, Battery or AC operated, 345° Rotating Lamp Head
- One (1) 58mm Camera Adapter
- Two (2) 797GV UV Protective Spectacles
- One (1) EPS30KS Photo Scales (white on black, 10 pk.)
- One (1) KSS684 Pkg. Arrow Designators (100 count)

- One (1) Operator's Manual
- One (1) Carrying Case: Weight: 26.75 lbs.;
- Dimensions: 24.5"W x 8.75"H x 19.75"D

*KSS100b 60mm UV Lens*

- Focal Length: 60mm
- Aperture: f/3.5 – f/32
- Lens Construction: 4 elements, all quartz glass
- Spectral Waveband: Min. 230nm
- Geometric Distortion: <0.1% in corners
- Vignetting: < 22% in corners

*Body Construction, precision machined:*

- Material: Extruded Aluminum, 6061-T6 alloy
- Finish: Black Anodized, Vinyl covered (selected areas)
- Objective Mount: C-mount
- Configurable Steady Rest for safe instrument support during periods of non-use
- Removable contoured foam covered pistol grip
- 6" wrist lanyard, removable

*Body Construction, precision machined:*

- Eyepiece, w/removable rubber eyecup
  - Adjustable focus
  - 25mm eye relief

*Laser Pointer:*

- Wavelength: 650nm
- Aperture Output Power: 2.1 – 3.0 mw
- Operating Voltage: 3.0V DC, internal
- Control: Push-button; Momentary ON/OFF

*Battery:*

- Lithium, 3.0V DC, type CR123

*Control Panel:*

- Rotary Control, Power ON/OFF
- Visual Indicator: Green LED, Image Intensifier ON
- Battery Access: Threaded Cap, Spring loaded

*Image Intensifier Tube:*

- Gen II, Double Proximity focused, 18mm
- Built-in Over Brightness Protection (Tube automatically limits gain from bright light sources)
- >/=40 Lp/mm typical, with built-in over-brightness protection circuitry
- P22 Phosphor
- S20 Photocathode
- Input Window: Quartz

*Image Intensifier Tube:*

- Image Inversion: None

***BTS100 Specifications:***

- CRS Black Powder Coated Steel Legs With Integral 4 Point Surface Contact
- Two (2) 4-watt battery operated UV light sources (254nm) each mounted on an aluminum powder coated swing arm
- Single point quick-connect, black anodized aluminum body mount
- Two (2) Independently adjusted UV light swing arms
- Two (2) Precision Laser Engraved Sliding Photo Evidence Scales, English and metric
- Weight: 2.2 lbs. (with lights and batteries)
- Dimensions: 12.5"H x 12"W x 7.75"D (maximum overall)
- Finish: Black powder coated and black anodizing

One (1) Digital Package for KSS60, Krimesite™ Imager Direct View Kit consisting of the following:

- Digital Camera
- Digital Color Printer
- Printer Paper and Ink Ribbon
- Puissant UV Light w/Carrying Case
- Photo Evidence Scales (10)
- Protective Spectacles (2)
- Durable Molded Carrying Case

One (1) ESP900, Electrostatic Dust Print Lifter. A new high voltage power supply/control unit successfully picks up dust prints from tile or ceramic floors, as well as, carpeted and upholstered surfaces. One of the most overlooked forms of physical evidence found at the crime scene.

***FEATURES:***

- Operates from a single 9-volt battery
- Compact, lightweight design
- High impact, fully insulated unit case
- No wires or complicated setup
- Safety features abound
- High voltage (10,000 volts) insures complete pickup of dust particles
- Aluminized pickup mat with high contrast black pickup area
- Lift prints from most surfaces including carpet, tile, wood and metal

***KIT CONTENTS:***

- 1 ea. Electrostatic Voltage Control Unit
- 1 ea. Ground Plane, Nickeloid Steel 4" x 6"
- 1 ea. Ground Plane Polycarbonate Insulating Sheet 5" x 7" x 0.01"
- 5 ea. Metallic Pickup Mats in protective tube (24" x 36" x .0014")
- 1 ea. Insulated Mat Roller
- 1 ea. 9-volt Alkaline Battery
- 1 ea. Technical Information Packet
- 1 ea. Static Discharge Cable
- 1 ea. Molded Carrying Case

Each Kit is Stenciled to Identify its Contents and a Corresponding Label is affixed to each Compartment for Ease of Equipment Inventory and Location.

**CRIME SCENE SEARCH EQUIPMENT:**

100' Hank Nylon Rope

(1) Sirchie Model MCL-26 Search Alert Metal Detector with Case, Batteries and Instructions.

(1) Sirchie Model MCL-27 Permanent Recovery Magnet with 225 lb. Lift Capacity, Steel Case and Eyebolt.

(1) Military Type Folding Shovel

(1) Barrier Tape, "Crime Scene - Do Not Cross"

(1) Sirchie Model MCL-30 Metal Tool Box with Flip-up Lid and Two Drawers  
Measuring 18" X 10" X 9-1/2" and containing:

1/4" Electric Drill with Set of Bits

Ball Peen Hammer

Phillips Screwdriver

4" Screwdriver

8" Screwdriver

Scraper/Putty Knife

Regular Pliers

Adjustable Wrench

14" Multibar

Bolt Cutters

Tin Shears

Utility Knife

Hacksaw

Wood Chisel

Wire Cutting Pliers

Rubber Gloves

One (1) Industrial Grade Aluminum Ladder

Multi-function folding ladder can be utilized as a stepladder or 16' extension ladder

Folds down to a compact 55 1/2"L x 22 1/2"W x 10" D size for storage

Stores in specially designed wall mounted bracket in the work area.

(Please note that when the roof deck option is taken the ladder is then mounted on the Roof Deck.)

**TRAINING PROGRAMS:**

Two training programs will be provided. The first training program will be a vehicle orientation program provided at Brown Specialty Vehicle Production Facility in Lawrence, Kansas. The second training program will be an accelerated forty-hour course that covers all of the forensic processes and general crime scene processing. The second training program will be provided by Brown Specialty Vehicles. Full details on both programs are provided below.

**VEHICLE ORIENTATION PROGRAM:**

The vehicle outlined in these specifications is a specialized piece of investigative equipment that features unique systems developed solely for Crime Scene Investigation. To insure that the vehicle and its systems are Understood, Used and Maintained properly, a vehicle orientation-training program will be provided.

The Training program will be coordinated with the completion of the vehicle so that the using personnel will be trained on the actual equipment to be utilized in the field. The program will be a hands-on demonstration and operation of all vehicle systems. Standard Operating Procedures and Maintenance Practices will be reviewed, demonstrated and discussed.

The Instructors for the course will be Knowledgeable Technicians who actually constructed the vehicle and have full knowledge of the systems. A complete instruction manual tailored for the vehicle will be used in conjunction with the "Hands-on" operation of the equipment to provide a comprehensive and complete training session.

The Training session will be provided at Brown Specialty Vehicles Production facility. This will allow for a complete and thorough inspection of the vehicle prior to its delivery. Attendance of the Vehicle Orientation Program is not limited though it is recommended that only the people who will be involved with the vehicle attend.

Brown Specialty Vehicles will provide all materials required for the training of personnel. All traveling, food and lodging expenses will be the responsibility of the Police Department.

**ACCELERATED CRIME SCENE TECHNOLOGY PROGRAM:**

The Crime Scene Technology Training Program will be provided for two to 10 (2-10) Police Department Representatives. The 40 hour course is provided at a police department facility and is an accelerated Monday thru Friday Program. As with the Vehicle Orientation Training, the course is a hands-on program that goes into detail on the use of the forensic processes and equipment provided on the Evidence Collection Vehicle. Please refer to the Accelerated Crime Scene Training brochure for full details. Classroom materials will be furnished for the classes

**FIRE EXTINGUISHERS**

Two (2) 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 conference, communications and galley areas.

**CARBON MONOXIDE MONITOR**

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

**SMOKE DETECTOR**

A smoke detector shall be installed in the laboratory area.

**MAIN PAINT STRIPE(S)**

Two (2) single color paint stripes shall be provided on the vehicle. Paint color, paint code, stripe dimensions and layout shall be provided by the department after award of bid.

### **LETTERING**

Vehicle lettering will be determined at the pre-construction conference and will closely match existing fleet vehicles.

### **MARKINGS / LOGOS**

Vehicle marking and logos will be determined at the pre-construction conference and will closely match existing fleet vehicles.

### **OPERATOR'S MANUAL**

A vehicle owner's manual (reference handbook) for the ambulance shall be provided in an 8 1/2" 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.

**<customer 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: \_\_\_\_\_

\*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.



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