

PROJECT FOR  
KEY WEST POLICE DEPARTMENT  
FOR THE PURCHASE AND OUTFITTING  
OF A SELF CONTAINED EVIDENCE  
COLLECTION VEHICLE

PROJECT NO. MCL- 100T/ Key West

DATED: 12-09-13 / Rev A

## SCOPE:

The following specifications outline the minimum requirements for a custom manufactured Evidence Collection Vehicle to be utilized by the Key West Police Department. The vehicle will be utilized in the most severe of conditions and must be designed and constructed for its intended use. While all efforts have been made to fully detail the construction materials, methods, and equipment required to accomplish this task, it remains the vendor's responsibility to choose components that will provide maximum performance, service life, and safety and not just meet the minimum requirements. Due to the chemicals and harsh reagents present during the processing of evidence, and the 10 year life expectancy that is desired for the vehicle, METAL CABINETRY IS REQUIRED. Offers submitted and based on the use of lighter duty wooden cabinetry construction will not be considered. Any item necessary for the normal and intended use of the vehicle will be supplied by the Vendor even if it is not fully detailed by the specifications.

Forensic reagents and chemicals that are supplied must be compatible and interchangeable with existing crime scene equipment and already established procedures. No substitutions will be permitted. Technical questions regarding the specifications and components should be directed to Lt. James Benkocz at 305-809-1027.

## DESIGN / ENGINEERING DRAWINGS:

The vehicle to be provided is to be constructed and designed to orderly and systematically house Evidence Collection / Forensic Investigative Equipment, Portable Lighting, and general items intrinsic with the processing of a Crime scene. To accomplish this task the cabinetry will be sized and compartmentalized to house specific pieces of equipment. Dimensions for the equipment that will be housed in the vehicle are provided to assist in the development of the cabinetry layout. General bulk storage cabinets or commercially available cabinets that are not specially sized for this application will not be accepted.

To ensure that the vehicle to be supplied meets the design requirements, a minimum of four (4) engineering drawings will be provided and consist of one (1) rear door view, one (1) cab facing rearward view, one (1) overhead view, and one (1) driver's side exterior view. All four (4) views will provide a pictorial layout of the compartmentalized storage design and designate equipment storage areas. Additional views as required to provide further detail on any special accommodation or feature will also be supplied.

## EVIDENCE COLLECTION VEHICLE

### MODEL MCL100T

### SPECIFICATIONS

#### VEHICLE SPECIFICATIONS

- Chevrolet Model CC10706, 2 WD Tahoe Police Package – Color White
- 5.3 Litre V8, Flex Fuel Engine with Federal Emissions
- 4-Speed Automatic Transmission, Electronically Controlled Clutch
- Auxiliary Transmission Oil Cooler, Heavy Duty Air-to Oil
- Power Steering with Tilt Wheel, Leather Wrapped
- Power Brakes - 4 Wheel Anti-Lock, 4 Wheel Disc
- Air Conditioning, Dual Zone Manual Climate Control
- Fresh Air Heater and Defroster with Rear Auxiliary Heating Ducts
- Heavy Duty 160 AMP Alternator
- Battery, Heavy Duty 730 Cold Cranking Amps
- 6,700 lb. GVWR
- Skid Plate Package
- Recovery Hooks, Front Frame Mounted
- Suspension, Front Coil-Over Shock with Stabilizer Bar
- Suspension, Rear Multi-Link with Coil Springs
- Rear Wheel Drive
- Rear Axle, 3.73 Ratio
- Locking Rear Differential
- Body, Liftgate with Liftglass

**VEHICLE SPECIFICATIONS (CONT'D)**

- Power Windows and Locks
- Seats, Front Bucket with Custom Cloth, 6-Way Power Driver Seat Adjuster
- Second Row Vinyl Seats
- Center Console – Deleted
- Black Embossed Vinyl Floor Matting
- Four (4) P265/60R-17 All Season H-Rated, Police Duty Goodyear Tires
- Full Size Spare
- Wheels – Five (5) - 17" x 7.5"
- Tire Pressure Monitoring System
- Mirrors, Outside Heated Power Adjustable
- Intermittent Windshield Wiper
- Full Gauges Analog including Certified 140 MPH Speedometer, Odometer, Trip Odometer, Fuel Level, Voltmeter, Engine Temperature, Oil Pressure and Tachometer
- AM/FM Stereo Radio with MP3 Compatible CD Player, Digital Clock

**VEHICLE DIMENSIONS**

**(DIMENSIONS SHOWN ARE FOR THE BASE VEHICLE PRIOR TO THE ADDITION OF EQUIPMENT OR OPTIONS)**

Exterior Overall Length: 188.0"

Exterior Overall Width: 77.1"

Exterior Overall Height: 71.4"

Wheelbase: 111.5"

## **CUSTOMIZED EXTERIOR CONFIGURATION**

### **SIREN**

Whelen Model 295SLSA6 (or equal) Siren amplifier 3with 9 switch Light Control and Standard Switching. Park Kill & Timed-Out Relay with 17 Scan-Lock Siren Tones mounted in Cab Area.

Whelen Model SA315P (or equal) 123dB Nylon Composite Speaker mounted at front bumper.

### **Undercover Emergency Warning Light System:**

Vehicle shall be equipped with -Two (2) 911EP Red / Blue Strobe Warning Lights. One (1) shall be mounted at the top of the front windshield and one (1) at the top of the rear hatch window. Additionally, a four (4) position Hide-Away-Strobe system shall be installed using front and rear marker light, tail light and /or headlamp housings. In the event the Whelen 295SLA siren is installed, the emergency light system shall be activated by the siren slide control switch. If the siren option is not chosen, one (1) control switch shall be installed at the dashboard area to operate both systems.

## **CUSTOMIZED INTERIOR CONFIGURATION**

### **COMPARTMENTALIZED CABINETS**

Two (2) Custom Engineered Compartmentalized Aluminum Cabinets are provided. One cabinet faces the Rear Lift Gate and one cabinet is forward facing, mounted behind the second row seats.

- Cabinets are of Aircraft type construction utilizing rivets instead of screws or bolts.
- Compartmentalized Cabinetry is custom designed to house the Evidence Collection Field Kits listed at the end of the specification with each compartment sized for each individual kit. General Bulk storage cabinets are not acceptable.
- Open Shelved Storage Cabinet is equipped with rounded front access Hand Notches for easy retrieval of kits
- All Shelves are Constructed with Front Edge Lip to Secure Compartment Contents
- Each Compartment Shelf is Lined with Slip and Noise Suppressing Corrugated Rubber Matting
- Finish Consists of Zinc Chromate Undercoating with Durable Baked-On Vinyl Coating
- Both Kit Storage Cabinets are covered by a work surface top of ¾" hardboard material finished in a color coordinated formica finish.

## **REPORT WRITING DESK**

Two (2) Pull-Out Report Writing Desks and Evidence Examination Areas are installed.

- One (1) work surface pulls out to provide a work surface in the back seat area.
- One back seat section can be used to create a seated workstation.
- One (1) work surface pulls out at the rear lift gate to provide a work surface while standing at the rear of the vehicle.
- Work Surfaces are Constructed of ¾ inch Hardboard Material and are finished in a color coordinated Formica finish.

## **MISCELLANEOUS**

First Aid Kit provided and installed.

Fire Extinguisher, 5 lb. ABC Dry Chemical Type, UL approved

- Unit Complete with Dial Type Pressure Indicator and Quick Release Clamp Vehicle Bracket

## **CRIME SCENE POWER AND LIGHTING EQUIPMENT**

### **INVERTER**

- A 1000 Watt True Sign Wave 120-Volt AC Output, 12-Volt DC Input Power Inverter is provided.
- Inverted provides 120-Volt AC power to interior duplex outlets and exterior GFI Duplex Outlets.

### **BATTERY CHARGER / CONDITIONER**

Fully Automatic Battery Charger / Conditioner Xantrex True Charge (or equal) will be installed.

- Unit wired directly into shore power input to provide charge to vehicle battery whenever garaged or connected to external 120 Volt AC power source.
- Shore power 30 AMP / 120 Volt AC (3 wire) power input with spring loaded cover. Corrosion resistant type designed for use in damp or wet locations.

### **AC POWER OUTLETS**

Six (6) 120 Volt AC Outlets are provided.

- One (1) 120 Volt AC Duplex Outlet will be mounted at the driver's side second row seats near the pull out work surface.
- One (1) 120 Volt AC Duplex Outlet will be mounted at the rear interior of the vehicle near the lift gate.

- One (1) 120 Volt AC Duplex Outlet will be mounted at the exterior driver's side rear corner of the vehicle. Exterior GFI protected outlets will be mounted in an exterior rated, weather resistant housing with a spring loaded cover.

### **DC POWER OUTLETS**

Six (6) 12 Volt DC Power Outlets are provided to power 12 Volt DC accessories.

- Two (2) 12 Volt DC Outlets will be mounted at the vehicle dash board.
- Two (2) 12 Volt DC Outlets will be mounted at the driver's side second row seats near the pull outwork surface.
- Two (2) 12 Volt DC Outlets will be mounted at the rear interior of the vehicle near the lift gate.

### **CRIME SCENE POWER AND LIGHTING EQUIPMENT**

#### **INTERIOR LIGHTING**

Interior 12V DC Dome Lights are located in the Ceiling of the vehicle cab and both front and rear kit storage areas.

- Cab Area Dome Light is activated by door operated courtesy switches located at both front Cab doors and at right side access door
- All other Dome Lights are activated by a dash mounted lighted Toggle Switch

#### **CONTROL PANEL**

Control Panel Mounted at Dash with Toggle Switches and Indicating Lights to Control the Off-On Operation of Emergency Lights, and Dome Lights.

#### **HAND-HELD SEARCH LIGHT**

High Intensity Hand-Held Search Light with DC Recharger and Vehicle wall Mounting Bracket

- Unit Recharges Automatically when stored in Specially Designed Vehicle Storage Bracket

### **PORTABLE FLOODLIGHTS**

Two (2) Each Outdoor Type 500 Watt Portable Floodlights with shock resistant handle, bulb protector, angle adjustment knob and power cords.

### **POWER CORDS**

- A twenty foot 14/3 SJ dockside power input cord with dead face front plugs is provided.
- A one hundred foot heavy duty 14/3 SJ power extension cord with dead face front plugs is provided.

## **FORENSIC EVIDENCE COLLECTION KITS:**

(Note: Dimensions provided for the Forensic Evidence collection Kits are for those items as provided by Sirchie Finger Print Laboratories of Medford, New Jersey. All Forensic Kits supplied must be permanently labeled (stenciled) and equipped with an access handle on the front (labeled) side. These features are not standard for these kits and must be added by the vehicle manufacturer. To ensure the proper accommodation of all items listed in this section, engineering drawings depicting the cabinets with individual compartments sized for each item will be provided. There are no exceptions allowed to this requirement.)

- 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 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



## FORENSIC EVIDENCE COLLECTION KITS (CONT'D)

- (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.
- Master Expert Latent Print Kit #MCL-08 (cont'd)

### REGULAR POWDER PROCESSING

- (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"

## FORENSIC EVIDENCE COLLECTION KITS (CONT'D)

- (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

### Master Expert Latent Print Kit #MCL-08 (cont'd)

#### 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

## FORENSIC EVIDENCE COLLECTION KITS (CONT'D)

- 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.

### Master Hard-Core and Liquid Silicone Casting Kit #MCL-10 (cont'd)

- (2) (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) 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:

## FORENSIC EVIDENCE COLLECTION KITS (CONT'D)

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) 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

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

- (1) FDA Manufacturers Insert
- (3) 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
- (4) 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

Each Kit is labeled 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

One (1) Hand Held Metal Detector

Model MCL-28 Military Type Folding Shovel

Model MCL-29 Barrier Tape, "Crime Scene - Do Not Cross"

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