MONROE COUNTY
BID PROPOSAL

Division of Purchasing
County Office Building, Room 200
39 West Main Street
Rochester, NY 14614
(585) 753-1100

BID PROJECT NUMBER: BP 0524-12

BID TITLE: Hostage Response Team (HRT) Critical Incident Response Vehicle

BUYER: Phil DiFrancesco
PHONE: 585.753.1130

BID TIME: 11:00 am
BID DATE: June 26, 2012

BID SECURITY REQUIRED: No: X
Yes, in the amount of _____ as specified herein

ITEM AND/OR GROUP NO.	ESTIMATED QUANTITY	ARTICLES OR SERVICES	UNIT PRICE	EXTENSION
		HOSTAGE RESPONSE TEAM (HRT) CRITICAL INCIDENT RESPONSE VEHICLE *Per Attached Specifications or County Approved Equivalent* Delivery Guaranteed_____Days After Receipt of Order Please submit two (2) copies of bid proposal at time of bid opening.		$ _____

I have received, read and agree to the terms and conditions as set forth in General Terms and Conditions, Monroe County, attached, and any special terms and conditions set forth in the General and Technical Specifications herein. I have read, understand and agree to all Instructions to Bidders (including the Non-Collusion Bidding Certification) on the reverse hereof. I hereby recognize and agree that upon execution of this document by an authorized officer of Monroe County, that this document, together with the Contractor's bid as accepted by Monroe County and all other documents prepared by or on behalf of Monroe County for this bid solicitation, shall become the binding contract between the parties for the services to be provided in accordance with the terms and conditions set forth herein.

FIRM NAME _____ SIGNED BY _____

ADDRESS _____ PRINTED NAME _____

_____ TITLE _____

FEDERAL ID NO. _____ PHONE NO. _____

E-MAIL ADDRESS _____ FAX NO. _____

BID ACCEPTANCE AND CONTRACT AWARD

The above bid is accepted, except as noted, and the contract is awarded to you for the following item(s):

_____

Authorization to furnish supplies/services will be made via Purchase Order, as appropriate, signed by the Monroe County Purchasing Manager, or designated agent. Contract period from _____ to _____.

Date: _____ BY: _____

Dawn C. Staub, Purchasing Manager, Monroe County

Dec3

INSTRUCTIONS TO BIDDERS

- All public bids must be submitted to Purchasing in sealed envelopes which clearly identify the bid project number and the title of the service/product being bid. Any other writing on the envelope, with the exception of company logos, etc. may result in bids being misplaced and otherwise rejected.

- Unsigned bids may be rejected as informal.

- Questions regarding ambiguities or the propriety of these specifications should be addressed, in writing, to the Buyer, prior to the formal bid opening. Such questions will not be entertained after said bid opening.

- Where a Bid Security is indicated on the face of the proposal, the security must be attached to the Proposal as an earnest of good faith. In this case, any bid without a bid security may be rejected as informal.

The Purchasing Manager reserves the right to reject any and all bids, to waive any informality in the bids and to make awards in the best interest of Monroe County.

NON-COLLUSION BIDDING CERTIFICATION

By submission of this bid, each bidder and each person signing on behalf of any bidder, certifies and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of knowledge and belief:

1. The prices in this bid have been arrived at independently without collusion, consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor.

2. Unless otherwise required by law, the prices, which have been quoted in its bid, have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor.

3. No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit a bid for the purpose of restricting competition.

CERTIFICATION REGARDING
DEBARMENT, SUSPENSION AND RESPONSIBILITY

The undersigned certified, to the best of his/her knowledge and belief, that the Contractor and its principals:

1. Are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded by any Federal department or agency;

2. Have not within a three-year period preceding this transaction/application/ proposal/contract/agreement been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction or records, making false statements or receiving stolen property;

3. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 2 of this certification and;

4. Have not within a three-year period preceding this transaction/application/ proposal/contract/agreement had one or more public transactions (Federal, State or local) terminated for cause or default.

Date: _____

_____
[Print Name of Contractor]

By: _____
[Signature]

_____
[Print Name]

_____
[Print Title/Office]

VENDOR MUST COMPLETE THIS FORM AND SUBMIT WITH BID.

TERMS AND CONDITIONS

BID ITEM:	**HOSTAGE RESPONSE TEAM (HRT) CRITICAL INCIDENT RESPONSE VEHICLE**
FOR:	**Monroe County Sheriff's Office**
DEPARTMENT CONTACT:	**Jennifer Curley, (585) 753-4520**
DUPLICATE COPIES:	**PLEASE SUBMIT YOUR BID IN DUPLICATE; THE ORIGINAL AND ONE (1) COPY.**
BID INFORMATION:	At the time of bid, the bidder shall supply detailed specifications covering the item(s) contained herein and shall clearly indicate any areas in which item or items offered do not fully comply with the specifications contained herein.
SUBMITTAL OF FORMAL PROPOSAL:	Bid proposal must be legible and submitted in the original form, bearing an original signature. **EMAILS AND FACSIMILES ARE NOT ACCEPTABLE.** All bidders must submit proof that they have obtained the required **Workers' Compensation** and **disability benefits** coverage or proof that they are exempt.
SPECIFICATION ALTERATIONS:	Specifications will be construed to be complete and be considered the entire description of the goods or services upon which Monroe County is now seeking bids. **Only formal written addenda can materially alter this set of specifications**. No verbal statement made by a Monroe County employee or anyone else is binding nor shall such statement be considered an official part of this public bid proposal.
BRAND REFERENCE:	References to a manufacturer's product by brand name or number are done solely to establish the minimum quality and performance characteristics required. Bidders may submit bids on alternates, but must attach two (2) copies of manufacturer specifications for any alternate at the time of the bid. Further, the bidder must demonstrate that the alternate proposed has a sufficient operating track record to show the equipment will perform per the specified brand. The acceptance of a bidder's alternate rests solely with Monroe County.

QUALIFIED BIDDER: Each bidder must be prepared to present satisfactory proof of his capacity and ability to perform this contract. Such proof may include, but is not limited to, an inspection of the bidder's facilities and equipment, financial statements, references and performance of similar contracts. **The Purchasing Manager reserves the right to reject any bid where the bidder cannot satisfy the County as to their ability to perform.** Monroe County reserves the right to reject any and all bids if the Monroe County Purchasing Manager deems said action to be in the best interests of Monroe County.

METHOD OF AWARD: Monroe County intends to award a purchase order to the lowest responsive and responsible bidder based on the **TOTAL**. **Bidder must bid on all items in order to be considered. The County reserves the right to reject any and all bids** if the Purchasing Manager deems said action to be in the best interest of the County.

DELIVERY: Delivery to be **F.O.B. destination as specified by Purchase Order**. Delivery must be completed within **six (6) months** after receipt of order. A delivery in excess of **six (6) months** may be grounds for rejection of a bid.

PURCHASE ORDER ISSUANCE: Delivery of goods may be directed by the receipt of a Purchase Order only. **Items that are not part of this bid will not be paid for by Monroe County**.

As to all purchase orders issued by Monroe County, exceptions may only be authorized, in writing, by the Purchasing Manager or her authorized agent prior to delivery.

WARRANTY/ GUARANTEE: All warranties by manufacturer shall apply. Bidder shall, as part of its proposal, furnish its warranty/guarantee for all goods/services to be furnished hereunder. As a minimum, Bidder shall warrant all goods for a period of one (1) year from date of acceptance. Bidder shall be obligated to repair or replace all defects in material or workmanship, which are discovered or exist during said period. All labor, parts and transportation shall be at Bidder's expense.

SUBCONTRACT: The Contractor shall not subcontract any work without first obtaining the written consent of the Monroe County Purchasing Manager.

INDEMNIFICATION: The Contractor agrees to defend, indemnify and save harmless the County, its officers, agents, servants and employees from and against any and all liability, damages, costs or expenses, causes of action, suits, judgments, losses and claims of every name not described, including attorneys' fees and disbursements, brought against the County which may arise, be sustained, or occasioned directly or indirectly by any person, firm or corporation arising out of or resulting from the performance of the services by the Contractor, arising from any act, omission or negligence of the Contractor, its agents and employees, or arising from any breach or default by the Contractor under this Agreement. Nothing herein is intended to relieve the County from its own negligence or misfeasance or to assume any such liability for the County by the Contractor.

Office of the Sheriff
Monroe County

Patrick M. O'Flynn
SHERIFF

William E. Sanborn
UNDERSHERIFF

130 SOUTH PLYMOUTH AVENUE, ROCHESTER, NEW YORK 14614 • PHONE (585) 753-4178

SPECIFICATIONS

The Monroe County Sheriff's Office intends to purchase a Critical Incident Response Vehicle for use by our Hostage Response Team and has determined the minimum specifications required of the best design, functionality and comfort available, in order to meet our interoperability needs.

These specifications are designed to meet our minimum requirements. Any bid submissions that do not meet these minimum requirements will not be accepted. Bid submissions of products that are equivalent or exceed our minimum specifications will be reviewed and accepted on a case by case basis. Purchaser reserves the right to purchase a greater or reduced quantity of items. Award will be made to the lowest responsible bidder meeting the specifications below.

One (1) **== FREIGHTLINER M2 CHASSIS ==**

One (1) **2013 FREIGHTLINER M2 2-DOOR CHASSIS**
A4-M2-4D35

CAB:
2-Door Conventional
106" BBC (Bumper to Back of Cab)
GVWR:
33,000 Pounds
WHEELBASE:
205"
CAB TO AXLE:
138"
FRAME:
95" Frame Overhang (AF)
Steel Channel -11/32 x 3-1/2 x 10-3/16
Rated for 35,000 Pounds
Inner Frame Reinforcement
FRONT BUMPER:
14" Chrome Steel
3-Piece with Collapsible Boxed Ends
(2) Frame Mounted Front Tow Hooks
FRONT AXLE:
12,000 Pound Rating; Front Oil Seals
Bonded Rubber Spring Pin Bushings
REAR AXLE:
21,000 Pound Rating
#RS-23-160
Ratio for 75 MPH (Top Speed)
SHOCKS:
Heavy Duty Front
STEERING:

Power Hydraulic Assist
4-Spoke 18" Steering Wheel
Tilt/Telescopic Wheel

BRAKES:
Anti-Lock Braking System
Full Air; Cam Type; Dual System
Cummins 18.7 CFM Air Compressor
(2) Steel Air Reservoirs
BW DV-2 Drain Valve
Automatic Slack Adjusters
Wabco 1200 Heated Air Dryer
Petcock Drain Valves on all Air Tanks

PARKING BRAKE:
MGM TR Parking Chambers (Axle Cam)

ENGINE:
Cummins ICS-330 Turbo Diesel
330 Horsepower @ 2200 RPM
Cummins Exhaust Brake Integral W/variable Geometry Turbo W/Tail Light Activation
Cummins Full Flow/Bypass Oilf Filter
Engine Speed Control (Set @ 1400 RPM)
Heavy Duty Engine Cooling
Coolant Recovery System
Horton Drive Master On/Off Fan Drive
Automatic Fan Control Without Dash Switch
1000W/115V Block Heater
Air Intake

EXHAUST:
RH Horizontal Muffler/Exhaust
Enigine Aftertrearment Device
Automatic Over the Road Regeneration
Dash Mounted Regeneraiton Request Switch
6-Gallon Diesel Exhaust Fluid Tank, Mounted Next to Fuel Tank

TRANSMISSION:
Allison EVS3000; 6-Speed Automatic
With Auto Neutral
Dash Mounted Push Button Controls
Vehicle Interface Wiring & PDM
Body Builder Connector - Back of Cab
PTO Provisions
Transmission Oil Check and Fill W/Electronic Oil Level Check

DRIVE SHAFT:
Spicer Heavy Duty Tubular

FUEL TANK:
50 Gallon Capacity Short Rectangular -LH Side - Aluminum
Fuel/Water Separator/ With Primer Pump

ELECTRICAL SYSTEM:
Delco 12V Starter
Engine Warning System Buzzer and Light
Warning Alarms: Low Oil, Low Water, High Water Temperature
Tail Light Connector (Back of Cab)

ALTERNATOR:
275 Amp 40-SI Quadramount Pad Alternator
w/Remote Battery Voltage Sense

BATTERIES:
(3) 3300 CCA

Single Battery Box LH- Frame Mounted (To Be Relocated By Body Builder)

HORNS:
- Dual Electric

HOOD:
- 1-Piece Moulded Fiberglass
- Tilting Hood and Fenders
- Chrome Front Grille

CAB GLASS:
- Tinted Safety Glass - All Windows

MIRRORS:
- 7" x 16" Stainless Steel/Heated
- 102" Wide Mirror Spacing
- 8" LH/RH Bright Finish Convex

GAUGES:
- Tachometer with Hourmeter
- Speedometer
- Odometer
- Fuel level
- Voltmeter
- Transmission Temperature Gauge
- Engine Coolant Temperature
- Engine ECM Customer Access
- Dual Air Pressure
- Air Restriction Indicator

WIPERS:
- Electric Wipers and Washers
- Intermittent Wiper Switch

PAINT COLOR:
- Black (Repaint by Body Manufacturer)

ENVIRONMENTAL:
- Cab Air Conditioning
- Heavy Duty Heater
- Windshield Defroster

CAB SEATING:
- High-Back Driver's Seat - Air Ride
- High-Back Passenger's Seat - Air Ride
- Codura Fabric - Dark Color
- 3-Pioint High Visibility Orange Retractor Type

CAB TRIM/COLOR:
- Custom Interior Grey Vinyl
- Black Floor Mats with Insulation

TIRES:
- Goodyear 11R 22.5 14-ply
- (2) Front/Highway Tread G662
- (4) Rear/Traction Tread G338

WHEELS:
- (6) 22.5" Steel Disc

MISCELLANEOUS:
- LH/RH NFPA Exterior Grab Handles
- AM/FM/WB w/CD Player Front Auxiliary Input
- 2-Speakers in cab
- Self-Cancelling Turn Signal Switch with dimmer;
- Integral Headlight Beam 4-way Flasher
- Cigarette Lighter
- Dual Interior Sun Visors
- Halogen Head Lamps
- Wiring With Separate Stop Turn Wires,

To 4 Feet Beyond End Of Frame
12 Volt Power Source - Dash
LH/RH Dome Light/Red Map Light - Front
Overhead Instrument Panel
Forward Roof Mounted Console/w Upper Storage Compartment
(2) Cup Holders LH/RH Dash

One (1) **CHASSIS PREPARATION - GENERAL (01/12)**
B0-50-0000

The following paragraphs outline the chassis related options necessary for the specified chassis to be utilized. Additional basic vehicle options are listed and are to be performed/installed in order to meet the needs of this customer and to outfit the vehicle for use as an emergency service apparatus.

One (1) **CHASSIS FRAME RAIL PREPARATION**
B1-00-0000

Chassis muffler, filters, ejectors, and reservoirs shall be relocated, if necessary, to accommodate the body without modifying body compartmentation. The chassis frame rails shall be the proper length to fully support the modular body. If the frame rails need to be extended, they shall be properly modified following the chassis manufacturer's specific guidelines.

One (1) **EXHAUST PIPE EXTENSION**
B1-50-0000

The chassis exhaust pipe shall be extended to the side of the apparatus body to direct exhaust fumes away from the unit. The extension shall maintain the same diameter as the original pipe.

One (1) **DIAMOND PLATE FUEL TANK COVER - LH**
B2-50-0000

The O.E.M. left side chassis fuel tank shall be covered with .125" aluminum diamond plate. All seams shall be heliarc welded for strength and appearance. The tank cover shall incorporate a recessed step for entry and exit.

The diamond plate utilized shall be "slip resistant", meeting NFPA requirements

One (1) **DIAMOND PLATE CAB STEP - RH**
B2-60-0500

The right side cab entrance step shall be completely covered with .125" aluminum diamond plate to insure good footing as well as a durable long lasting finish. The step shall be properly supported with steel bracing off the chassis frame rail.

The diamond plate utilized shall be "slip resistant", meeting NFPA requirements

One (1) B4-00-0000 **ENGRAVED LABEL - DIESEL FUEL ONLY**

A heavy gauge plastic label shall be provided with the words "DIESEL FUEL ONLY" engraved in capital letters. The label shall be attached to the apparatus adjacent to the fuel fill location.

One (1) B4-00-0002 **ENGRAVED LABEL - ULTRA LOW SULFER DIESEL FUEL ONLY**

A heavy gauge plastic label shall be provided with the words "ULTRA-LOW SULFER-DIESEL FUEL ONLY" engraved in capital letters. The label shall be attached to the apparatus adjacent to the fuel fill location.

One (1) B5-05-0500 **REAR STEP AND BUMPER ASSEMBLY**

The rear bumper and step assembly shall extend the full width of the apparatus. The bumper structure shall be an extension of the steel chassis frame. The steel framework shall be constructed of 3" steel tubing. It shall be welded into one (1) unitized assembly, then bolted to the chassis frame for replacement, if necessary.

The bumper assembly frame shall be thoroughly primed, mylar insulated, then covered with .125" aluminum diamond plate. The rear corners shall be rounded to minimize injuries.

The diamond plate utilized shall be "slip resistant", meeting NFPA requirements

Two (2) B5-10-2500 **CUSTOM SLIDE-OUT/DROP-DOWN STEP**

A *"custom"* built, manually operated, slide-out/drop-down step shall be provided. The step shall feature **heavy duty** 1/2" aluminum bar with built-in tracks attached to an open grid step surface. The step shall be securely held in the "in/out" position.

One (1) **PAIR REAR BLACK RUBBER WHEEL MUD FLAPS**
B6-00-1000

There shall be two (2) mud flaps installed. One (1) **heavy duty** black rubber flap shall be bolted in place behind each pair of rear wheels. The flaps shall include company logo in white writing.

One (1) **SET STAINLESS STEEL WHEEL INSERTS - 22.5"**
B7-05-2200

Each outer wheel on the apparatus shall be fitted with full *stainless steel* wheel liners and lug nut covers. In addition, the inner air valves shall be extended to allow easy access. These liners shall eliminate the need for painted wheels and provide a smooth "rust free" surface for cleaning.

Valve extensions shall be installed and properly secured, when necessary, to allow for easily checking tire and pressure.

One (1) **ALL ALUMINUM MODULAR BODY**
C0-01-0000

The modular body shall be designed and constructed to carry all types of specialized equipment and shall be installed on the specified chassis.

The modular body shall be constructed entirely of aluminum, capable of carrying the maximum payload allowed by the chassis. Body shall not be constructed using dissimilar metals. All framing and supports shall be welded using a continuous weld with an inert gas automatic welder, and shall interlock to build a complete cage.

This module body construction shall be warrantied for a minimum of fifteen (15) years from the date of manufacture, as designated on manufacturer's certification plate which shall be attached to the modular body. Unit shall be free of all structural defects of both material and workmanship and shall maintain structural integrity for a period of fifteen (15) years.

The module body shall be a free standing, self supporting roll cage structure which does not rely on compartments, skin, or other strengthening components for it's integrity. The module body shall have been tested using the FMVSS Static Load Test 002 criteria. Minimum test load shall be 15,000 pounds.

The floor framing shall be designed in a grid pattern. All lateral main structural supports shall be 2" x 3" x 1/4" (.250") 6061-T5 aluminum extrusion. All other structural members shall be 2" x 2" x 1/8" (.125") 6061-T5 aluminum extrusion. Two (2) mounting rails 1/2" x 3" 6061-T6 solid aluminum shall be welded to the underside of the floor frame grid running the entire length of the modular body. These mounting rails shall align with chassis frame rails for securely fastening the modular body to the chassis.

The side wall framing shall consist of 2" x 3" x 1/8" (.125") 6061T5 aluminum extrusion main vertical structural supports which are welded and gusseted to the primary lateral floor structural members. The remaining structural supports shall be 2" x 2" x 1/8" (.125") and shall be securely welded with spacing between frame members not to exceed 18". Where required, 1/2" solid aluminum support plates shall be welded in place for seatbelt, seat hardware, grab rail, or other options requiring additional structural support.

The roof framing shall be 2" x 2" x 1/8" (.125") 6061-T5 aluminum extrusions which are spaced on 16" centers and shall be welded into a grid pattern. In addition, longitudinal frame members shall be welded in place at the center of the roof frame to provide additional rigidity. The completed roof frame shall be recessed 1/2" down between the four (4) vertical wall frames creating a true roll cage structure.

Each frame wall, roof, and floor shall be continuously welded together at the corners and where floor members join all four (4) walls.

All load bearing side wall supports shall be gusseted to the floor frame at each structural member. There shall be a minimum of one (1) vertical side wall support and one (1) gusset support between each door opening.

The rear wheel housing construction shall be .125" aluminum welded integral with the body framing, completely sealed, and watertight. In addition, each housing shall contain a fully sealed watertight liner. These liners shall be rolled for ease of cleaning, and in one piece to avoid any pockets that may trap or collect road debris.

Proper rear wheel clearances shall be maintained, as recommended by the chassis manufacturer. An additional 2" clearance shall be provided fore, aft and above each wheel, for improved protection against wheelwell and tire damage.

One (1) **MODULE BODY PACKAGE; 18 FT WALK-IN**
C0-18-WI00

The modular aluminum body shall contain exterior storage compartments as listed below. The dimensions are actual "frame" openings *(without wall and trim material)*. The finished opening shall be within 1/2" (.5") of the size listed or an exception shall be noted. The depth dimension shall be an inside measurement, taken with the compartment door closed.

Compartment numbering sequence shall start at the streetside front of the apparatus body, continue around the rear of the body and then forward with the highest number being at the curbside front.

COMPARTMENT INTERIOR DIMENSIONS:

Compartment #1 : 52" wide x 32" high x 26" deep
Compartment #2 : 52" wide x 32" high x 26" deep
Compartment #3 : 63" wide x 17" high x 26" deep

One (1) **MODULE BODY LENGTH - 216"**
C1-10-2090

The body length shall be measured from the inside of the front frame to the inside of the rear frame. This measurement shall be exclusive of wall covering, cabinets, etc.

One (1) **MODULE BODY WIDTH - 94"**
C1-20-9400

The module body interior width shall be measured between the left and right side frames. This measurement shall be exclusive of wall covering, cabinets, etc.

One (1) **MODULE BODY HEADROOM (WALK-IN) - 80"**
C1-35-7200

The module body headroom in the walk-in personnel area shall be measured from the finished floor to the finished ceiling.

One (1) **ENTIRE MODULE FRONT WALL - DIAMOND PLATE**
C1-40-0500

The entire module front wall behind the cab shall be covered with .125" aluminum diamond plate to provide a long lasting

and durable finish. This panel shall be full width between the corners.

One (1) C1-50-0000 **DIAMOND PLATE MODULE ROOF**

The entire roof of the module shall be covered with .125" aluminum diamond plate. The plate shall be welded and bonded inside as well as outside to insure a watertight seal.

The diamond plate roof shall incorporate radius side corners as an integral part of it's construction.

The roof shall be strong enough to be used as an observation platform to support men and equipment, as necessary.

One (1) C1-60-0000 **EXTERIOR SHEETING - 1/8" THICKNESS**

Both sides and rear of the module frame work shall be covered with 1/8" (.125") aluminum sheeting.

This skin shall be welded to the structural members. In addition, the skin shall be bonded from the interior wherever the skin and frames meet. The bonding process shall be performed in a manner to provide a complete seal on the interior as well as exterior seal.

One (1) C1-70-0500 **SET DIAMOND PLATE BODY VERTICAL CORNERS**

The vertical outer corners of the apparatus body shall be a corner radius extrusion for a smooth symmetrical appearance. Since the corners are most susceptible to damage, they shall be totally independent of the actual corner structure for easy repairability in case of damage. The entire vertical corner shall be covered with aluminum diamond plate for durability.

One (1) C1-80-0000 **DRIP RAIL PACKAGE**

There shall be extruded aluminum drip rails installed around the complete roof line of the module body. In addition, drip rails shall be installed above all exterior compartment doors. These drip rails shall have a polished finish and shall not be permanently attached for ease of replacement, if damaged.

One (1) C2-00-1500 **PAIR REAR ENTRY DOORS WITH #400 LATCHES**

There shall be two (2) entry doors at the rear of the module body.

They shall combine for a total of 40" wide and shall be approximately 4" less than the module body interior headroom.

Latching consists of an *Eberhard #400* latches on the right and left door. The latches shall be operated by stainless steel recessed paddle latches. The left door shall open *first* with the handle on the outside and the inside. The right door shall open *second* with the handle on the inside only.

Doors shall be hung on all stainless steel hinges with 1/4" (.25") pin diameter and shall be sealed with a two-lip neoprene cell door gasket.

The interior of the doors shall be covered with 1/8" (.125") thick aluminum diamond plate, or ABS material over smooth aluminum.

There shall be an 11" x 22" sliding window with removable screen in each of the two (2) module entrance doors. These windows shall be manufactured of standard automotive safety glass with integral aluminum frame. Glass shall be standard grey auto tint.

Each door shall be equipped with a 12" chrome plated pull handle, in addition to the lock operating handle.

Entry doors shall be held in the "open" position by means of Cleveland style overhead door checks.

A head saver, padded bumper shall be installed above the rear entry doors. It shall be made of 1" thick padded foam covered with color coordinated Naugahyde and mechanically fastened in place.

One (1) **SIDE ENTRY DOOR(S) - CURBSIDE WITH #400 LATCH - 22" X 11" SLIDING WINDOW**

C2-00-3500

There shall be an entrance door installed on the curbside of the module body. Latching consists of an *Eberhard #400* latch. The latch shall be operated by a stainless steel, recessed paddle latch.

The door shall be hung on an all stainless steel hinge with 1/4" (.25") pin diameter and shall be sealed with a two-lip neoprene cell door gasket.

The interior of the door shall be covered with 1/8" (.125") thick aluminum diamond plate, or ABS material over smooth aluminum.

There shall be a 22" x 11" sliding window with removable screen in the module entrance door. The window shall be manufactured of standard automotive safety glass with integral aluminum frame. Glass shall be standard grey auto tint.

Entry door shall be held in the "open" position by means of a Cleveland style overhead door check.

A head saver, padded bumper shall be installed above the side entry doors. It shall be made of 1" thick padded foam covered with color coordinated Naugahyde and mechanically fastened in place.

One (1) C2-20-1000 **STEPWELL(S)**

Stepwell construction shall be *polished aluminum diamond plate* on step areas and all vertical risers. Each stepwell shall extend down below floor level to allow easy entry or exit from the apparatus body.

The diamond plate utilized shall be "slip resistant", meeting NFPA requirements

One (1) C2-20-1500 **STEPWELL WITH INTERMEDIATE STEP**

Stepwell construction shall be *polished aluminum diamond plate* on step areas and all vertcal risers. Each stepwell shall have an intermediate step, and shall extend down below floor level to allow easy entry or exit from the apparatus body.

The diamond plate utilized shall be "slip resistant", meeting NFPA requirements

One (1) C2-50-0000 **PAIR DIAMOND PLATE EXTERIOR WHEELWELL PANELS**

The outer panels above and around each rear wheel shall be finished with 1/8" (.125") aluminum diamond plate. The wheelwell opening edge shall be trimmed with a 1/2" inward return for strength and to eliminate sharp edges.

One (1) **REAR DIAMOND PLATE KICK PANEL**

The rear of the body directly above the bumper step shall be covered with a full width aluminum diamond plate panel which extends approximately 16" to 18" in height.

One (1) **LOWER BODY RUB RAILS - "C" CHANNEL**
C2-71-2L00

Rub rails shall be installed on both lower sides of the module body and extend past the compartment doors to aid in protecting the doors, should the vehicle strike a solid object.

Rub rails shall be constructed of 2" x 2" x 3/16" anodized aluminum *c-channel* extrusions. A reflective stripe shall be adhered inside the c-channel extrusion to provide a visible edge.

The rub rails shall be bolted to the heavy wall aluminum tubing side structure for replacement, if necessary.

One (1) **PAIR 50" SS REAR WHEEL FENDERETTES**
C2-90-0050

There shall be a fender extension provided at the edge of the rear wheelwell opening. A bright finish, polished stainless steel fenderette shall be installed providing a finished appearance to the wheelwell opening. The fenderette shall provide additional protection to the module body by reducing wheel wash. Fenderettes shall be designed for easy removal, if necessary.

One (1) **KNURLED GRAB RAIL(S) - MEDIUM**
C3-40-K01M

There shall be grab rails installed on the module body as noted below. The rails shall be a *"knurled"* aluminum finish, and shall be mounted in chrome plated stanchions.

Location: (1) at the side entrance

Two (2) **ZICO #SAC-44-E COLLAPSIBLE WHEEL CHOC(S)**
C6-70-1000

Zico #SAC-44-E choc shall be of high tensile strength aluminum. Each choc shall include a hand grip and a double row of rugged teeth to grip almost any surface. Choc design shall be collapsible to reduce storage space. Choc meets NFPA 1901-03 and SAEJ348 for design and manufacture.

Two (2) **ZICO #SQCH-44-H HORIZONTAL FOLDING CHOC HOLDER(S)**
C6-70-1100

Zico #SQCH-44-H horizontal holder(s) shall be provided to store each folding choc under the rub rail of the body. Exact location to be indicated on the final approval drawings.

One (1) **BODY INSTALLATION**
C9-00-2L00

The apparatus body shall be designed as a modular unit capable of being transferred, and shall not be permanently attached.

The floor shall incorporate full length mounting rails of 3" wide by 1/2" solid aluminum mounting rails parallel with chassis frame rails. Mounting rails shall be welded directly to the floor structure at each floor member location and shall run the full length of the body.

The body shall be attached to the chassis with case hardened 5/8" (.625") steel bolts, fastened to clamping plates above the mount rails and below the chassis rails. A set of precision DIE springs shall be installed at each hold down location forward of the rear axle. These springs shall be properly adjusted to allow for frame twisting under *severe* condition. The bottom fasteners shall be "double" nutted to prevent loosening.

A non-metallic sill shall be sandwiched between the body floor framing and the chassis frame. The sill will prevent body movement as well as isolating the steel chassis frame from the aluminum body.

Three (3) **1/8" EXTERIOR COMPARTMENTS - DIAMOND PLATE**
D0-50-0000

All exterior compartments shall have 1/8" (.125") *aluminum diamond plate* forming the compartment walls and ceiling.

Each compartment shall be constructed as an independent unit, with it's own top, sides, bottom, and back. No wall of a compartment shall act as a wall for another part of the apparatus body. All seams in compartments shall be welded continuous. NO EXCEPTIONS.

Each compartment opening shall be pre-framed. After the compartment is inserted, additional tubular framing shall be installed. Compartments shall be fastened both horizontally and vertically with an inert gas automatic wire feed welder.

Framing shall consist of 1" x 1" x 1/8" (.125") 6061-T5 tubing for vertical supports of back and side walls; and 2" x 2" x 1/8" (.125") tubing for under compartment floors.

All seams in the compartments shall be welded continuous on the back side.

Compartments shall be "sweep-out" style, constructed without lips protruding into any part of the compartment area.

The interior walls and ceiling shall be polished aluminum diamond plate. The interior diamond plate walls and floors shall provide a maintenance free, highly reflective compartment finish. All welding of joints shall be done on the back side to eliminate unsightly weld marks, and weld splatter inside the compartments.

Compartment Floors: .188" thick brushed aluminum

Three (3)
D0-71-0000

COMPARTMENT DOOR CONSTRUCTION

Exterior compartment doors shall be custom manufactured to perfectly fit each compartment. Door construction shall be heavy duty, utilizing an aluminum extrusion frame with removable inner door panel. Doors shall be designed to overlap on the body sides to insure a tight seal and allow for future door adjustment. Compartment door designs which do not allow for future adjustment will not be accepted. Compartment doors are expected to withstand years of rugged service.

Compartment doors shall consist of *3/16" (.188") smooth aluminum* outer door panel, welded aluminum extrusion door frame, and 1/8" (.125") diamond plate door panel. The welded aluminum extrusion door frame shall be welded and bonded to the exterior door panel.

All void areas between door frame members shall be filled with full thickness polystyrene panels that shall not settle, move once in place, or absorb moisture. Inner door panel shall be fastened to the door frame with stainless steel screws. Door design shall allow the easy removal of slam latch without removing inner door panel.

Two-lip neoprene door gasket shall be utilized around the perimeter of the compartment door. Additional gasket material

shall be installed along the hinge side of the door. Compartment door gaskets shall insure a watertight seal.

Compartment doors shall be hung on full length stainless steel piano hinges with a 1/4" (.250") pin diameter. Hinges shall be fastened to the module body frame structure and the door a minimum of every 4". Hinges shall be installed in a manner that will conceal bolt heads.

Two (2)
D0-71-020L

DOUBLE COMPARTMENT DOOR(S) - LOCKING

Exterior compartment double doors shall be custom manufactured to perfectly fit the compartment. Double compartment doors shall include two (2) adjoining, vertically hinged doors that together seal the compartment opening.

The forward most of the two (2) adjoining doors ("live door") shall include a slam latch receiver. It shall be positioned to accept a cast striker which is bolted to the frame of the second of the two (2) adjoining doors. The second ("dead door") shall utilize two-point (*top and bottom*) slam latches connected together with rods and a center handle located on the inner door panel.

Compartment door latches shall be *Eberhard #206* double catch latch assemblies. Latches shall be adjustable, and removable without compartment door disassembly.

Compartment door handles shall be flush *6" D-ring* of stainless steel construction. The handle shall have a shaft which directly turns the lock in either direction without the use of cables or rods. All exterior storage compartments shall be "lockable" with the same key. The grasp portion of the handle shall be bent outward for easy grasp while wearing gloves.

Each vertically hinged compartment door shall utilize a *Cleveland* style, spring loaded door check. **Door holders** shall be bolted to the upper compartment header support and door frame. They shall hold the door "open" approximately 90 degrees from the apparatus body.

Compartment door inner panels shall be covered with .125" polished aluminum diamond plate. Each diamond plate panel shall be attached to the internal door frame using stainless steel screws. These panels shall provide additional durability for the inner compartment door as well as providing a long lasting, maintenance free finish.

Location: Compartments #1 and #2

One (1) D0-71-040L **DROP-DOWN COMPARTMENT DOOR(S) - LOCKING**

Drop-down compartment door(s) shall be horizontally hinged configuration. Two (2) bright finish chains shall be provided and securely fastened to the door frame and the compartment frame. This will prevent door from opening greater than 90 degrees from body frame. Door chains shall be covered with a flexible plastic cover to prevent scratching of inner door panel.

Compartment door latches shall be *Eberhard #206* double catch latch assemblies. Latches shall be adjustable, and removable without compartment door disassembly.

Compartment door handles shall be flush *6" D-ring* of stainless steel construction. The handle shall have a shaft which directly turns the lock in either direction without the use of cables or rods. All exterior storage compartments shall be "lockable" with the same key. The grasp portion of the handle shall be bent outward for easy grasp while wearing gloves.

Each vertically hinged compartment door shall utilize a *Cleveland* style, spring loaded door check. **Door holders** shall be bolted to the upper compartment header support and door frame. They shall hold the door "open" approximately 90 degrees from the apparatus body.

Compartment door inner panels shall be covered with .125" polished aluminum diamond plate. Each diamond plate panel shall be attached to the internal door frame using stainless steel screws. These panels shall provide additional durability for the inner compartment door as well as providing a long lasting, maintenance free finish.

Location: Compartment #3

Three (3) D0-97-1000 **COMPARTMENT MODIFICATION - REAR SUSPENSION**

The lower corner of each exterior compartment adjacent to the rear wheelwell area shall be modified for proper clearance of the chassis rear suspension.

Location: Compartments #1, #2 and #3

Three (3) **4" DIAMETER COMPARTMENT VENT(S)**

D1-54-0000

There shall be 4" diameter die stamped, *stainless steel* louvered vents provided for exterior compartments. The vents shall be located to provide additional ventilation and to eliminate the entry of water, mud, and other road debris from the outside of the vehicle.

Location: (1) each compartment

Three (3) **PATCH BLOCK COMPARTMENT W/ CAST DOOR #EB0010**
D1-61-2000

A cast aluminum compartment with a latched weatherproof door shall be installed with enough depth allowing room to store a telephone patch block. The door includes a weatherproof access opening to allow wires/cables to be connected and door be closed.

Location:
(1) on each side of the truck - to be open access to the interior
(1) on the curbside to have a patch block

One (1) **STEEL SUPPORT - GENERATOR**
D2-20-0502

A steel support system shall be provided for the on-board generator. The supports shall be under the generator compartment, and shall transfer the weight back to the chassis frame rails.

One (1) **EXTERIOR MODULAR BODY PAINTED POLYURETHANE**
F0-05-2L00

The final finish of the apparatus body shall be to fire apparatus standards, using aircraft finish polyurethane paint and products.

The aluminum surfaces which are to be painted, shall be sanded with a "DA" to remove the gloss. At that point, the aluminum shall receive a chemical etch for *good* adhesion before primer coats are applied.

The apparatus body shall be primed and prepared in accordance with the paint manufacturer specifications. The process shall be applied to all aluminum surfaces except aluminum diamond plate, polished rails, and trim mouldings.

To assure a *good* paint match, a large (approximately 5-1/2" by 8-1/2") paint card shall be sprayed with the paint mixture selected. It shall be sent to the purchaser for approval **prior** to the apparatus being painted.

Color: Black
Code: To match the chassis as painted by the chassis builder

One (1)
F1-05-0500

CAB WHEELS LEFT OEM FINISH

The chassis/cab wheels shall be left their original OEM finish.

One (1)
F3-02-2L00

VEHICLE UNDERCOATING

The **entire** underside of the vehicle, including all the under structure aluminum, chassis frame, and underside of the cab, shall be sprayed with *Ziebart* (or equal) black automotive undercoating. This process will aid in preventing chassis rust and will provide sound and vapor barrier for aluminum structures.

Three (3)
F9-20-0010

INTERIOR CAB/CREW DOOR REFLECTIVE MATERIAL

Scotchlite reflective material shall be applied to the interior of the cab or crew entry doors. The reflective material shall be applied to a minimum of 96 square inches of the cab or crew entry doors.

One (1)
G0-WI-1800

INTERIOR PACKAGE; 18 FT WALK-IN

One (1)
G1-00-0000

MODULAR BODY POLYSTYRENE INSULATION

The modular body shall be insulated with 1" and 2" polystyrene sheeting. 2" polystyrene sheeting shall be sandwiched between the outer skin and the inner walls. 1" polystyrene shall insulate around the top and backside of all the compartments. Insulation material shall be *fire retardant,* and shall not absorb moisture. The 2" thick insulation shall be firmly held in place and shall not shift or deteriorate once installed.

One (1)
G1-10-0000

MODULAR BODY INSULATED ALUMINUM SUB-FLOOR

An insulated aluminum floor shall be installed in the module, over the extruded aluminum floor framing. The floor shall consist of an .063" aluminum base vapor barrier, 2" of polystyrene insulation and a 1/8" (.125") thick aluminum sub-floor. No wood shall be used in the sub-floor assembly.

The floor design shall provide a quiet interior, and allows for a "lip free" door threshold. The entire sub-floor shall be welded then sealed continuous to eliminate the entrance of dust, moisture and noxious fumes into the apparatus body.

One (1) **LONSEAL VINYL FINISH FLOOR - COIN DESIGN**
G1-12-0105

The interior floor of the module body shall be covered with a seamless *Lonseal* "coin" design vinyl. Floor covering shall be permanently applied after proper preparation of the sub-floor. A diamond plate kickplate shall extend a minimum of 4" up the aisle walls, providing a durable scuff protection base board for the perimeter of the interior crew area. The threshold at the entry door(s) shall be flush with no lips or offsets.

One (1) **AISLE WALLS - A.B.S. FINISH**
G1-20-0100

The interior walls adjacent to the exterior compartments shall be framed with 1" square extruded aluminum tubing. The walls shall be insulated with 1" thick polystyrene sheet material sandwiched between the exterior compartment walls and the interior walls. Insulation material shall be *fire retardant*, and shall not absorb moisture.

The finished walls shall be 1/4" (.250") thick, Europly material covered with textured A.B.S. sheet material. The A.B.S. finish shall provide a non-glare, durable, wall finish down to the floor of the interior walkway. Satin finished trim moulding shall be installed at all edges and seams of the A.B.S. wall covering.

One (1) **INTERIOR DECK AREA - A.B.S. FINISH**
G1-21-0100

The interior deck area over the top of the exterior compartments shall be framed with 1" square extruded aluminum tubing. The deck area shall be insulated with 1" thick polystyrene sheet material sandwiched between the exterior compartment ceilings and the interior deck area. Insulation material shall be *fire retardant*, and shall not absorb moisture.

The finished deck area shall be 1/4" (.250") thick, Europly material laminated with textured A.B.S. sheet material. The A.B.S. finish shall provide a non-glare, durable, deck area.

One (1) G1-22-0100 **UPPER INTERIOR WALLS - A.B.S. FINISH**

The upper interior walls shall be 1/16" (.063") smooth, aluminum plate laminated with textured *A.B.S. sheet material.* The A.B.S. upper wall covering shall provide a non-glare, durable upper wall finish covering the vertical wall surfaces from the deck area to the interior ceiling.

One (1) G1-23-0100 **INTERIOR CEILING - A.B.S. FINISH**

The interior ceiling shall be covered with textured *A.B.S. sheet material.* The A.B.S. ceiling covering shall provide a non-glare, durable finish covering the entire ceiling area.

One (1) G1-23-02MB **MODULE BODY SUB-CEILING - 1/4"**

The interior framing of the module body roof shall be fitted with 1/4" Europly material to provide a firm flat surface for the finish material. The sub-ceiling shall be mechanically fastened in place with countersunk screws a minimum of 24" o.c.

One (1) H1-03-0205 **HEAVY DUTY INTERIOR CABINET SHELF TRACKS**

Shelving tracks shall consist of **heavy duty** channels fastened to the inside of the interior cabinet. The shelf tracks shall provide unlimited vertical adjustment settings for shelving. A minimum of four (4) channels shall be installed for each cabinet requiring shelf tracks.

Location: Interior closet

Three (3) H1-03-0305 **HEAVY DUTY INTERIOR COMPARTMENT SHELVES - ADJ.**

Shelving shall be constructed of 3/16" (.188") smooth aluminum plate. Each shelf shall have a front and rear edge broke at 90 degrees to form a 1-1/2" lip.

Each shelf shall include a minimum of four (4) mounting brackets designed for fastening the shelf to shelving tracks. Shelf design shall allow for the removal and remounting of

shelves with the 1-1/2" retainer lip down for a "lip-free" shelf edge, if desired.

Location: (3) in interior closet

Four (4) **OVERHEAD STORAGE CABINET - ALUMINUM**
H1-07-0000 20

Each cabinet shall be constructed out of 1/8" (.125") *smooth aluminum* plate. The compartment shall be constructed as an independent unit, with it's own top, sides, bottom and back. All seams in the compartment shall be welded continuous. Each cabinet interior shall be painted for a finished appearance. Location shall be as indicated on the drawings.

Location: (1) over each work station and (1) over the galley area

One (1) **STORAGE CLOSET - ALUMINUM**
H1-22-0000 20

Each closet shall be constructed out of 1/8" (.125") *smooth aluminum* plate. The closet shall be constructed as an independent unit, with it's own top, sides, bot-tom and back. All seams in the closet shall be welded continuous. Each closet interior shall be painted for a finished appearance. Location shall be as indicated on the drawings.

Location: Curbside interior

One (1) **GALLEY CABINET ASSEMBLY - ALUMINUM**
H1-26-0000 20

Each galley cabinet assembly shall be constructed out of 1/8" (.125") *smooth aluminum plate.* All seams in the galley cabinet assembly shall be welded continuous. Each galley cabinet assembly interior shall be painted for a finished appearance. Galley cabinet assembly shall be designed to house galley components. A double door cabinet shall be installed to provide easy access to service these components.

Location: Streetside interior

Two (2) **FILE DRAWER(S) - ALUMINUM**
H1-32-0500 10

Each drawer shall be constructed out of 1/8" (.125") *smooth aluminum plate.* The seams in the drawer shall be welded continous. Each drawer interior shall be painted for a finished appearance. The drawer design shall have a front, back, sides and bottom, forming a solid box assembly. Sliding tracks shall be bolted, one (1) each side, to file drawer allowing it to extend out, providing improved access.

Location: Between the two streetside work stations

One (1)
H2-06-051M

OPEN FINISH - NO DOOR FOR CABINETS/CLOSETS - MED

Cabinet shall be finished with trim and left "open" (without a door).

Location: The overhead cabinet above the galley area

One (1)
H2-07-051M

ROLL-UP LOCKING DOOR(S) FOR CABINETS/CLOSETS - MED

Cabinet shall include a *roll-up* door installed in tracks along the vertical sides of the cabinet. Each *roll-up* door shall have a "locking" latch which will keep the door in position.

Door Finish: Anodized

Three (3)
H2-08-051M

HINGED DRY/ERASE LOCKING DOOR FOR CABINETS/CLOSETS - MED

Cabinet shall include a solid door which is either vertically or horizontally hinged. The door shall have a positive latch with striker assembly. The door front shall be laminated with dry/erase material.

Location: The ceiling mounted cabinet above each work station

Two (2)
H3-00-4S0C

SQUAD BENCH WITH FIXED LIDS - CORDURA

There shall be a squad bench installed along the wall of the interior squad compartment. The squad bench base shall be constructed of extruded aluminum tubing forming a structural framework, covered with 1/8" (.125") aluminum diamond plate.

The squad bench shall include seat cushions constructed of 2" thick *high density* foam rubber covered with *Gray #704639 Cordura.* Seat cushions shall be sewn with beaded edges and corners and fastened to 1/2" (.500") plywood panels.

Seat cushion assemblies shall be fastened to 3/16" (.188") aluminum squad bench lids.

Seating Capacity:

Two (2)
H3-01-0S0C

SQUAD BENCH BACKREST CUSHIONS - CORDURA

Cushioned backrests shall be fastened to the wall just above the squad bench base assembly. Backrests shall be constructed of 1" thick *high density* foam rubber covered with *Gray #704639 Cordura.* They shall be provided along the entire length of the squad bench.

Backrests shall be sewn with beaded edges and corners and fastened to 1/2" (.500") plywood panels. Cushioned backrests shall be mounted to the aisle wall using removable mounting brackets.

Two (2)
H5-01-R000

MODULE ENTRY DOOR GRAB RAIL(S)

Each grab rail shall be installed on the interior door panel of the module entry door(s). Each grab rail shall be 1-1/4" diameter with ribbed surface. Railing shall be securely fastened to the entry door frame using chrome plated stanchions. These grab rails shall provide a hand hold for personnel entering or exiting the squad compartment through the module entry door(s).

Two (2)
H5-03-060C

PADDED HEAD PROTECTOR(S) - CORDURA

A padded head protector cushion shall be installed above each module entry door on the interior of the apparatus body.

The padded cushion shall be constructed of 1" thick *high density* foam rubber covered with *Gray #704639 Cordura.* The padded cushion shall be securely fas-tened in place.

Three (3)
H6-05-0000 20

WORK STATION(S)

Work station shall be made out of wood, covered with ABS laminate. It shall be finished in *smooth* color coordinated

formica for use as a writing surface, and be ample enough to fit office equipment (i.e. Computer, fax, printer).

Three (3) H6-10-0200 **TASK SWIVEL CHAIR(S)**

There shall be five arm spider base, task swivel chair(s) with five (5) dual caster wheels provided. Each chair shall have pneumatic height adjustment. A bungee harness shall be provided to secure each chair while the vehicle is in transit.

One (1) H6-15-0200 20 **REMOVABLE TABLE**

A "removable" work table shall be provided and installed in the module interior area. The table shall be finished in *smooth* color coordinated formica for use as a writing surface. The table shall include removable posts which shall fit into cups that are recessed into the floor of the module interior area.

Two (2) H7-02-040L **BULKHEAD DIVIDER WITH SLIDING DOOR - LOCKING**

A bulkhead shall be fabricated and installed to partition the module interior areas. It shall be constructed using 1" aluminum tubes and insulated with a 1" polystyrene insulation "sandwiched" between inner and outer wall material. Finished material shall be ABS laminate bonded to 1/16" (.063") *smooth* aluminum. A solid "locking", sliding door shall be installed in the bulkhead opening allowing area to be isolated.

Door type: Pocket

One (1) H8-05-0220 **PANASONIC #NN-N657S 1.2 CU.FT. MICROWAVE - STAINLESS STEEL**

A *Panasonic Model #NN-SN657S* 120-volt microwave shall be supplied and installed, as directed by the purchaser. The microwave shall be securely fastened where it will not move or shift out of place while the vehicle is in transit. Location to be determined at the pre-construction conference.

Location: The open faced cabinet above the galley area.

One (1) H8-05-1002 **SANYO #SR-4912M 4.9 CU. FT. 120V REFRIGERATOR**

A 120-volt refrigerator shall be supplied and installed. The refrigerator shall be securely fastened where it will not move or shift out of place while the vehicle is in motion. A Velcro strap *(or similar device)* shall be installed on the door so as not to open while the vehicle is under way.

Location: The floor of the galley area

Two (2)
H8-10-7322

SAMSUNG 22" LCD HDTV

A 120-volt *Samsung* 22" LCD panel with TV tuner shall be supplied and installed, as directed by the purchaser. The LCD panel shall be securely fastened where it will not move or shift out of place while the vehicle is in transit. Location shall be determined at the pre-construction conference.

Location: (1) on the streetside and curbside interior

One (1)
I0-05-2L00

12 VOLT ELECTRICAL SYSTEM

All wiring shall be installed in a **quality** workmanship-like manner. All wiring shall be properly sized depending on the load. However, no wiring shall be smaller than #14 stranded automotive wire. The load shall not exceed 80% of the rated capacity. Where wiring passes through metal, a grommet shall be used. All wiring shall be color coded.

In addition, all wiring shall be permanently and continuously imprinted as to the circuit function at regular intervals - no greater than every 8". The wiring shall be stranded copper and conform to SAE-J555 requirements. It shall have SXL type cross linked polyethylene insulation conforming to SAE-J1128 requirements.

Circuit breakers shall be of the reset type and assigned specifically for each circuit. Circuit connections shall be made of terminal blocks, utilizing binding post screws for positive mechanical connections. All wiring connections shall be made using a mechanical crimp-on braced barrel connector. All wiring shall be installed in a protective loom or raceway.

One (1)
I0-06-2400

CUSTOM CAB CONSOLE

There shall be a *"custom"* cab electrical console with a notebook storage module constructed in the cab. This module

shall be constructed of *smooth aluminum* and shall be covered with grey vinyl. Drawing of the electrical console shall be submitted for approval prior to construction. Switch layout to be as per customer submission.

Two (2)
I0-06-3000

SWITCH CONSOLE - MODULE

A *second* console shall be installed in the module body. It shall have a hinged door with access to all 12 volt relays, circuit breakers and connections. The rocker switches shall control the rear appliances; such as, interior lighting and environmental.

One (1)
I0-10-0500

SWITCH LABEL PACKAGE

All switches and control devices supplied by the manufacturer shall include permanently engraved labels. Rocker switches shall be identified with backlit white translucent labels with black lettering.

One (1)
I0-10-1200

I.C.C. MARKER LIGHT/REFLECTOR PACKAGE - LED

The completed apparatus shall be equipped with appropriate marker lights and reflectors to meet current FMVSS *(Federal Motor Vehicle Safety Standards).* The module shall have four (4) amber LED marker lights at the front portion, and seven (7) LED marker lights at the rear portion of the body. All marker lights shall have a polished stainless guard to protect the lens from damage. In addition, the body shall have appropriate reflective markers as required by FMVSS.

The marker lights shall be automatically activated whenever the headlight switch is turned on in either the "parking light" or the "head light" mode.

Ten (10)
I0-12-0500

WELDON #8045 DOME LIGHT(S)

The interior squad compartment shall have dome light(s) installed in the module ceiling. Each dome light shall be *Weldon Model #8045* controlled by a rocker switch on the interior squad compartment control panel. A selected number of lights shall automatically be activated whenever a module entry door is opened.

Lens Color: To be determined

Six (6) I0-12-0950 **WHELEN #20COCDCR LED 4" RECESSED EXTERIOR COMPT. LIGHT(S)**

Whelen Model #20COCDCR LED 4" recessed compartment lights shall be installed for exterior compartment lighting. Compartment lights shall be mounted in compartment door inner panels and/or compartment walls and/or compartment ceilings and shall be positioned to illuminate the compartment.

Exterior compartment lights shall be activated by a switch mounted within the door jamb of the compartment opening. When a compartment door is opened, each light for that compartment shall turn on automatically. When the compartment door is closed, each light for that compartment shall turn off. This feature provides compartment lighting only when needed, and does not unnecessarily load the electrical system.

A compartment light "kill" switch shall be installed in the driver's console. It shall override the automatic compartment light switches for day time operation, or when compartment lighting is not desired.

Five (5) I0-12-3200 **"DOOR OPEN" WARNING CIRCUIT(S) W/FLASHING LIGHT**

Whenever an exterior compartment is open, a flashing compartment "door open" warning light shall be activated on the driver's console. The flashing compartment "door open" light shall have a 2" minimum diameter lens, red in color. This light shall operate whenever the ignition is "on", and shall be placed in clear view of the driver.

Two (2) I0-12-4000 **CAB DOORS CONNECTED TO DOOR OPEN WARNING CIRCUIT**

The cab doors shall be connected to the compartment door open warning circuit to indicate a cab door is "open".

One (1) I0-13-0520 **WHELEN #20COCDCR LED 4" GROUND ILLUMINATION LIGHT(S)**

Whelen Model #20COCDCR LED weatherproof, 12 volt light(s) shall be installed under the apparatus body to illuminate an area beneath the vehicle during night time operation. Light(s) shall be controlled by an "on/off" rocker switch located in the driver's console.

One (1) I0-14-1002 **PAIR LED SIDE FACING TURN SIGNALS**

There shall be "bullet style" LED lights located at each side of the modular body. These lights shall be located near the rear of the vehicle, approximately three (3) feet off the ground. They shall flash together with the turn signal to warn adjacent motorists.

One (1) I0-15-1400 **PAIR WHELEN #600 BACK-UP LIGHTS**

Rear back-up lights shall be *Whelen Model #600 Series.* They shall have clear lenses.

Each light shall measure 4" high by 6" wide. Lights shall be automatically activated whenever the vehicle is in the reverse gear.

One (1) I0-16-1400 **PAIR WHELEN #600 LED STOP/TAIL LIGHTS**

Rear stop/tail lights shall be *Whelen Model #600 Series.* Each light shall measure 4" high by 6" wide. Lights shall be wired through the chassis system for di-rect operation.

One (1) I0-18-1400 **PAIR WHELEN #600 LED AMBER DIRECTIONAL LIGHTS**

Rear directional lights shall be *Whelen Model #600 Series.* They shall have amber lenses. Directional lights shall have an imprinted arrow design on the amber lens to denote direction.

Each light shall measure 4" high by 6" wide. Lights shall be wired through the chassis system for direct operation.

One (1) I1-03-1000 **PAIR OF WHELEN CAST 4 POLISHED LIGHT HOUSINGS**

Whelen Cast 4 polished aluminum light housings designed to accommodate four (4) Whelen 64 lights shall be installed on the rear of the apparatus body.

One (1) I2-00-0000 **BACK-UP ALARM**

There shall be a **heavy duty** back-up alarm installed on the rear of the apparatus body undercarriage. Unit shall be weatherproof and shall be wired to the reverse circuit of the chassis for automatic operation.

One (1) **12 VOLT LOW VOLTAGE ALARM & LIGHT (NFPA)**

I2-00-1500

An audible and visual warning shall be provided to alert personnel of an impending electrical system failure caused by the excessive discharge of the 12 volt battery bank.

The audible alarm shall sound if the voltage at the battery or master disconnect switch drops below 11.5 volts.

Location: To be determined

One (1) I2-20-0500 **PAIR OF CAB AREA LED GROUND LIGHTS/DOOR ACTIVATED (NFPA)**

Two (2) weatherproof ground illumination lights shall be installed, one (1) each side under the cab step areas. The lights shall be automatically activated whenever the cab exit doors are opened.

The lights shall illuminate the ground to allow personnel to see the stepping surface below the cab when climbing onto or descending from the apparatus.

Whelen #20C0CDCR 4" LED light

Two (2) I2-20-1515 **WHELEN #20COCDCR 4" RECESSED STEPWELL LIGHT**

One (1) I2-40-2000 **GREEN BATTERY INDICATOR LIGHT**

A *green* lens battery indicator light shall be located on the driver's console to indicate that the battery power is "on".

Three (3) I2-60-0500 **THINLITE #OEM-616 FLUORESCENT CABINET LIGHT WITH SWITCH**

A dual bulb 20" fluorescent light with on/off switch and acrylic diffuser shall be mounted under the interior cabinet(s), as designated by the purchaser.

One (1) I3-00-0500 **ELECTRONIC INTERCOM SYSTEM**

There shall be a *high quality* mobile deluxe intercom system provided between the cab and the interior squad compartment. The system shall include standby and talk modes, with a monitor mode in the cab. It shall be shielded from engine noise or other interference.

One (1) **LICENSE PLATE HOUSING**
I4-00-0500

A cast license plate housing shall be installed on the rear of the apparatus body. The cast housing shall be polished aluminum and shall include two (2) chrome plated half moon license plate lights. Lights shall be activated by the chassis parking light switch.

Three (3) **COAXIAL WIRING FOR ANTENNA WITH MOUNTING BASE**
I5-00-0400

The manufacturer shall pre-wire the vehicle for future hookup to a radio. The wiring includes an antenna mounting base, and shall be terminated at the radio mounting location. Exact termination points shall be provided to the manufacturer prior to construction start.

Location: To be determined

One (1) **WIRING ACCESS COVE PACKAGE**
I5-00-3000

There shall be wiring access coves installed around the complete module ceiling for access to the wires that run down the side walls or behind cabinets. These coves shall be constructed of *A.B.S. material.* They shall be securely fastened in place with philips head screws and a bottom track moulding.

Three (3) **WIRING FOR FUTURE RADIO(S)**
I5-00-5600

A designated 12 volt circuit shall be provided for future hook-up to customer installed radio(s). Exact location of circuit to be determined prior to apparatus construction.

Includes 12V circuit 20 amp breaker, #12 battery switched red wire and a battery direct ground lug

Three (3) **PHONE OUTLET(S) W/WALL MOUNTS**
I5-02-0001

An RJ-14 outlet with studs for wall mounting of phones shall be provided in a location designated by the purchaser. A CAT3 wire shall be run from the patch in block location or the phone system switching module (if theres one available) and terminate at the outlet plate location. Each cable shall be routed through

Carflex ENT conduit from the main cove raceway to the wall outlet.

Three (3)
I5-06-0000

TV ANTENNA COAXIAL CABLE & OUTLET(S)

A TV antenna outlet shall be provided in a location designated by the purchaser. An RG6 coaxial cable shall be run from the antenna location and terminate at the outlet plate location. Each cable shall be routed through Carflex ENT conduit from the main cove raceway to the wall outlet.

One (1)
I9-10-0100

PHONE PATCH BLOCK

A phone patch in block shall be located in a location where it can be accessed from the outside of the vehicle. The patch in block shall be connected to the all the phone outlets or the phone system switching module (if theres one available).

Number of incoming lines: To be determined

One (1)
J1-80-0000

SCHOTTKY DIODE ISOLATOR

There shall be a diode isolator device furnished which incorporates (low voltage drop) *"Schottky"* diodes. The isolator shall allow both battery banks to be charged from the chassis alternator and shall not allow a low or faulty battery to drain down the second battery bank.

The diodes shall be mounted on a suitable heatsink, capable of continuously carrying the charging current to the vehicle batteries. They shall have an inverse voltage rating of at least 45 volts. The heatsink shall be located in a protected area and not exposed to the elements.

Two (2)
J2-00-0000

ANALOG VOLTMETER(S)

The vehicle shall be equipped with a "color coded" voltmeter to monitor system voltage. The voltmeter connection shall be direct to eliminate erroneous readings from connection voltage drops. This voltmeter shall be installed as specified below. It shall be back lighted with it's brightness controlled by the headlight rheostat.

Location: To be determined

One (1) **COLE HERSEE #284 MASTER MODULE DISCONNECT SWITCH**
J2-10-0000

There shall be a **heavy duty** master switch located near the battery kill switch. It shall be legibly marked and rated to carry at least 125 percent of the circuits maximum current. The master module disconnect switch shall be supplied with a paddle type knob for quick and easy operation. It shall isolate the chassis electrical system from the body builders circuit in order to help identify a potential problem or faulty circuit.

One (1) **DUAL BATTERY SELECTOR SWITCH**
J2-10-30CV

A dual battery selector switch shall be furnished to allow the driver to select either *"battery system 1"*, *"battery system 2"*, or both when operating this vehicle.

One (1) **ELECTRONIC THROTTLE DEVICE**
J2-20-0200

The vehicle shall be equipped with an *electronic* automatic throttle device with red rocker switch and neon indicator. It shall automatically deactivate when the brake is applied or when the transmission is taken out of park or neutral position.

The throttle shall be preset so that when activated, it will operate the engine at appropriate R.P.M. to sustain the vehicle's charging system under full electrical load.

One (1) **FLEX SHAFT CONSOLE LIGHT(S)**
J2-40-0000

A flexible shaft console light with individual on/off switch shall be installed on or near the driver's console. Each light shall be equal in quality to *"Little Light"*.

One (1) **KUSSMAUL #091-89-12 12V AUTO DUAL BANK CHARGER - REMOTE IND.**
J2-90-1212

The vehicle shall be equipped with a *Kussmaul Electronics Auto Charge 4000* dual high output battery system automatic battery charger and power supply. It shall be mounted on the apparatus and wired to the chassis battery system.

The charger is fully automatic, includes a remote electronic voltage sensor, and shall not overcharge the vehicles batteries.

The charger shall convert the 120 volt shoreline power to 12 volts, 40 amps output to charge and maintain the batteries. A bar graph charge level indicator shall display the battery condition.

Indicator mounted by shoreline inlet

One (1)
J2-90-5000

ADDITIONAL BATTERY SYSTEM - (2) DEKA AGM 31 SERIES 12V

A separate battery system shall be installed to support the added 12V electrical loads on this apparatus. This system shall be independent of the chassis battery system, however, shall receive a charge from the chassis alternator through an isolator or similar device that will only allow the current to flow one-way.

Deep cycle batteries shall be utilized and wired to provide the best possible performance and reserve capacity.

Location: Compartment #3

One (1)
J2-90-5055

12 VDC BATTERY/CHARGING SYSTEM - DUAL

The vehicle shall be equipped with an adequate battery/charging system. This system shall include no less than four (4) commercial truck batteries split into two (2) banks and a **heavy duty** alternator which has the capacity of maintaining the electrical system at all times. In addition, this system shall include a dual battery selector switch to choose which bank of batteries will be used.

A Schottky isolator shall be part of the system to allow both banks of batteries to be charged regardless of which bank is being used. Voltmeters and ammeters shall be provided to monitor each battery bank independently. Individual **green** indicator lights shall be installed in a easily visible location from the driver seat to identify which system is in operation.

A heavy duty paddle handle switch shall be provided to disconnect any wiring added by the body builder. A low volt alarm and light shall also be supplied to alert the driver of a possible problem.

Two (2)
J2-92-0200

BATTERY BOX(ES)

A polyethylene battery box shall be provided and installed in an existing compartment to house the additional battery system. A captive lid hold-down shall be provided with the battery box. It shall be easily removable for routine maintenance.

Location: To be determined

Three (3)
J2-SP-0100

RELOCATE CHASSIS BATTERIES

The chassis batteries will be relocated from the frame rails to an exterior compartment.

Location: Compartment #3

One (1)
J3-12-0200

CAB DOME LIGHT(S) - RED

The chassis cab shall have 5" diameter dome light(s) installed on the headliner, inside the cab. Each dome light shall have integral on/off switch and a *red* lens.

One (1)
J3-40-0000

ANALOG AMMETER GAUGE(S)

The vehicle shall be equipped with a color coded "shunt" type ammeter to monitor system amperage. This gauge shall be installed as specified below. It shall be back lighted and connected to the headlight dimmer switch to control brightness.

Location: Custom cab console

One (1)
J3-70-1000

CLASS 1 TOTAL SYSTEM MANAGER

A *Class 1* "total system manager" shall be installed on the apparatus for performing electrical load management. The "total system manager" shall have sixteen (16) programmable outputs to supply warning and load switching requirements.

Twelve (12) outputs shall be independently programmable to activate during response mode, on-scene mode, or both. These outputs can be programmed to activate with the ignition switch or master warning switch. They shall be able to sequence loads "ON" or "OFF" at exact intervals and shed pre-selected loads, as required, with priority.

Output #13 shall be designated to activate a fast idle system whenever the voltage drops below 12.8 volts DC and shall remain "ON" until 13.0 volts DC is achieved. Output #14 shall monitor and provide a low voltage warning for an isolated battery. Output #15 is a user configurable output, and shall be programmable for activating between 10.5 volts and 15 volts. Output #16 shall provide a low voltage alarm that activates at the NFPA required 11.8 volts.

The "total system manager" shall have a digital display to indicate system voltage in normal operation mode. It shall also indicate the output configuration during programming mode.

The system shall include provisions for:

1. Main Battery Monitoring: Monitors main battery bank, independently monitors a second isolated battery, and indicates low voltage.

2. Over-Voltage Indicator: Visual warning *(and output signal)* when a constant high system voltage is dedicated.

3. Automatic or Manual Reset Mode: Toggling the master switch can override the system manager to return all loads to service immediately.

The "total system manager" shall be reverse polarity, short circuit protected, and be enclosed in a metal enclosure to enhance EMI/RFI protection.

The system shall be used for; load manager, sequencer, low voltage alarm, high idle for voltage regulation, and clear light cut-out.

Includes a mating pigtail connector

One (1)
J4-00-0000

ENGINE COMPARTMENT LIGHT(S)

A light shall be installed in the engine compartment to provide additional lighting. Each engine compartment light shall be controlled by a rocker type switch located on the driver's console.

One (1)
K2-02-001M

120/240 MAIN POWER SYSTEM W/ DISTRIBUTION PANEL - BASS

There shall be an AC main power system specifically designed for use in this vehicle. This system shall include a source selector which will allow power to this vehicle to be supplied either by the onboard generator system or by an outside land based power supply.

The circuit breakers shall be magnetic circuit breakers as used in the boat industry *(not as used in building construction)*. Each circuit breaker shall have an LED indicator light showing function. Individual circuit breaker labels shall be backlit. A digital multimeter (displays amperage, voltage, power and frequency) shall be incorporated within the circuit breaker panel.

Panel Location: Next to the side entrance door

One (1) **LANDLINE/GENERATOR TRANSFER RELAY - 30 AMP**
K2-09-0500

A relay system shall be installed in the 120/240 volt circuit breaker panel to allow specified 120 volt circuits to be operated by either landline or generator power. The relay shall automatically switch the loads when landline inlet is powered.

One (1) **50-FT MARINCO 50 AMP LANDLINE CORD**
K2-09-1000

The manufacturer shall provide and install a 50-amp landline cord as specified. The landline cord shall be of marine grade, weatherproof and shall have Marinco connectors on both ends for landline hook-up .

One (1) **120/240 VAC HIGH VOLTAGE POWER INPUT SELECTOR**
K2-30-0005

This vehicle is being supplied by more than one (1) power source. Each power source must be properly protected by an automatic circuit breaker. Due to the special application, a standard 2-pole circuit breaker is **NOT** acceptable. A 4-pole (2 hot/2neutral) circuit breaker must be utilized for each power source. In addition, a lockout method must be incorporated so that only one power source can be turned on at anyone time.

One (1) **120/240 VAC HIGH VOLTAGE MULTI-METER**
K2-55-0005

There shall be a digital meter provided to monitor the generator performance. The digital meter shall measure the a) line voltage, b) hertz meter, c) amperes of each positive output leg.

One (1)
K6-05-7500

7500W ONAN QUIET ENCLOSED DIESEL GENERATOR - WATER COOLED

GENERATOR:

Manufacturer: Onan
Model: 7.5 HDKAT/41934

PERFORMANCE:

Rating: 7,500 watts
Voltage: 120/240
Phase: Single
Cycles: 60 Hertz
Weight: 420 pounds (wet)
R.P.M.: 1800 RPM
Fuel: Diesel
Starting: Electric 12 volt

MOUNTING:

The generator shall be mounted on shock and anti-vibration rubber mountings. Under the generator shall be steel channel and angle framework to which the generator is secured. The generator shall be equipped with removable lifting bracket for crane attachment.

OIL DRAIN PIPING:

The oil drain from the generator shall be piped to the underside of the generator compartment with rigid pipe and plug fittings. The drain shall be located where easily accessible for generator servicing.

EXHAUST SYSTEM:

The generator shall be equipped with a "residential state" muffler. The generator compartment shall be equipped with a flexible heavy steel pipe, terminating at the side of the apparatus. The exhaust pipe shall be securely supported. It shall be shielded or insulated to prevent heating of apparatus body, electrical components, or equipment mounting. The tail pipe for the generator shall extend to the side of the apparatus body.

ELECTRICAL STARTING:

Electrical starting for the generator shall be powered by the chassis battery system. This starter line shall operate through the chassis master switch. This starter line shall be of sufficient size for the generator, adequately protected and supported inside the chassis frame area.

FUEL SYSTEM:

The fuel system for the generator shall be from the chassis main fuel tank. The generator fuel line shall be properly protected and secured in the frame area with rubber grommets in points of wear. A flexible neoprene fuel line with shut-off valve shall be installed between the generator and the fuel line as it enters the compartment.

COOLING FOR "WATER COOLED" UNIT:

Since the generator is water cooled, ventilation of the generator compartment shall be to the exterior of the vehicle. The installation shall permit operation of the unit, both while the apparatus is in motion and while stationary.

VENTING:

The incoming air flow shall be through the compartment floor. This venting shall provide adequate air flow for operation of the generator in a stationary condition, with compartment doors closed *(under normal operating conditions)*.

Two (2)
L1-00-0501

120 VOLT A/C- ROOF MOUNT WITH WALL MOUNTED THERMOSTAT

There shall be a *Coleman*, 120 volt air conditioner installed on the roof of the module body. It shall be powered by the on-board generator. The air conditioner shall have adjustable vents and shall be rated at 11,000 BTU cooling and 5,000 BTU heat. The unit shall have a built-in discharge drip pan, and the condensation water shall be piped to a central point under the body.

The unit shall be controlled by a wall mounted thermostat.

Three (3)
L1-02-0500

120 VOLT FLOOR HEATER(S) - GENERATOR POWERED

A 120 volt heater shall be installed just above floor level in the apparatus body. It shall be wired to a separate circuit breaker within the 120/240 circuit breaker panel. An on/off switch and temperature control shall also be provided on the heater itself.

The heater shall be powered by the on-board generator so that it does not rely on the hot water from the vehicle's engine.

One (1) L1-10-0500 **120V TO 12V CONVERTER(S) - (80 AMP)**

There shall be a step-down converter installed to convert 120 volt current to 80 amps of 12 volt current to supplement the 12 volt power. The converter shall be energized whenever the 120 volt source is supplied and the circuit breaker specifically for the converter is in the "on" position.

Two (2) L1-15-2000 **TWISTLOCK NEMA #L5-20R 120V/20 AMP EXTERIOR RECEPTACLE(S)**

Each weatherproof exterior receptacle shall be installed on the outside of the apparatus. Each receptacle shall have a "spring loaded" gasketed cover and shall be rated for 120 volts at 20 amps. Each receptacle shall be labeled as to its voltage.

Ten (10) L1-16-1500 **HOUSEHOLD 15 AMP INTERIOR RECEPTACLE(S)**

Each interior receptacle shall be installed on the inside of the module body. Each receptacle shall be rated for 120 volts at 15 amps.

One (1) L1-25-2010 **KUSSMAUL #091-55-20-120 20A SUPER L/L INLET W/AUTO-EJECT**

There shall be a *Kussmaul Model #091-55-20-120* "Super auto-eject" 120 volt, 20 amp landline inlet provided. It shall be wired to the vehicles 120 volt system for hookup from an external power source. The inlet is completely sealed and has an internal switch that closes and opens the 120V A.C. Circuit after the mating connector is inserted and before the connector is removed, which prevents arcing. The landline inlet shall automatically discharge the power cord plug when the chassis ignition switch is turned on.

One (1) L1-25-5002 **120V/240V 50A TWISTLOCK LANDLINE INLET CONN. TO MAIN PANEL**

There shall be a 120V/240V, 50 amp twistlock landline inlet provided. It shall be wired to the vehicles 120 volt system for hookup from an external power source. All interior 120V accessories to be powered by the landline will be wired through the main panel.

Two (2) **FRC FOCUS 750W TRIPOD/TELESCOPIC QUARTZ LIGHT(S)**

Each *Fire Research Model #FC600-S75 (S752) w/LT603* quartz light shall have a 750 watt Focus lamp head and portable tripod base, which shall be mounted externally on the apparatus body. Each portable tripod quartz light assembly shall include "quick-release" mounting brackets and a coiled pigtail type power cord with a male plug.

An exterior receptacle shall be installed on the apparatus body adjacent to each tripod mounting location. Each light shall have its own circuit wired through the 120/240 volt circuit breaker panel.

Voltage: 120
Nema #: L5-15

One (1) **STAR BRAND UNISTAR MODEL #LCS 850 ELECTRONIC SIREN**
R0-03-0500

There shall be a 200 watt electronic siren provided and installed in the cab in a predetermined location. It shall be wired to a 30 amp circuit breaker and shall be powered when the chassis ignition is in the "on" position. The siren shall be a full feature with hyper yelp and built-in microphone for PA system.

One (1) **PAIR FOREWARN SPEAKERS - THROUGH BUMPER**
R4-14-1000

There shall be two (2) *Forewarn* speakers with cast housings mounted through the front bumper. Speakers shall be wired to the electronic siren.

Four (4) **WHELEN #90E000ZR HALOGEN 8-32 DEGREE OPTI-SCENELIGHT(S) - SIDE**
SD-03-0054

The side scene lights shall be *Whelen Model #90E000ZR* Opti-SceneLight clear lens halogen with optical tilt lens. The polycarbonate lens shall project light down 32-degrees to illuminate an area surrounding the apparatus body. Each scene light shall measure 7-1/8" high by 9-1/8" wide. Side scene lights shall be activated by a switch on the driver's console.

Two (2) **WHELEN #90E000ZR HALOGEN 8-32 DEGREE OPTI-SCENELIGHT(S) - REAR**
SD-06-0054

The rear scene lights shall be *Whelen Model #90E000ZR* Opti-SceneLight clear lens halogen with optical tilt lens. The polycarbonate lens shall project light down 32-degrees to illuminate an area surrounding the rear of the apparatus body.

Each scene light shall measure 7-1/8" high by 9-1/8" wide. Rear scene lights shall be activated by a switch on the driver's console.

Four (4)
SD-90-0020

CHROME PLATE FLANGE KIT (900 SERIES)

Each scene light shall be provided with a chrome plated flange.

Two (2)
SD-90-0020

CHROME PLATE FLANGE KIT (900 SERIES)

Each scene light shall be provided with a chrome plated flange.

Six (6)
T2-10-600C

WHELEN #600 SUPER LED WARNING LIGHTS W/FLANGE

Warning lights shall be *Whelen Model #600* SUPER L.E.D. with flanges. Each light shall measure approximately 4" high by 6" wide. Warning lights shall be controlled by a rocker switch located on the driver's console.

Lens Color: To be determined

Six (6)
T2-10-900C

WHELEN #900 SUPER LED WARNING LIGHTS W/FLANGE

Warning lights shall be *Whelen Model #900 SUPER L.E.D.* with flanges. Each light shall measure approximately 7" high by 9" wide. Warning lights shall be activated by a switch on the driver's console.

Lens Color: To be determined

Two (2)
T2-10-9020

WHELEN #LINZ6 SUPER LED WARNING LIGHT(S) W/FLANGE

Whelen Model #LINZ6 Series Linear Super-LED lighthead(s) shall be provided and installed on the vehicle, as directed by the purchaser.

Model is a subcompact, full-featured LED lighthead with wide-angle light spread which can be mounted virtually anywhere. Fully encapsulated electronics provide full moisture and vibration protection.

Location: (1) each front fender of the chassis

One (1)
U1-00-F000

FULL SIZE FRONT LIGHT BAR

The vehicle shall be equipped with a full size front light bar. It shall be mounted above the cab roof on light bar mounting brackets. The light bar shall be switched from the driver's console through a 50 amp continuous duty solenoid using #12 AWG wiring.

Make/Model: Star Laser LED light bar Model #7600
Configuration: To be determined

One (1) U2-00-CABR **PERMANENT LIGHT BAR MOUNTING KIT - CAB ROOF**

The light bar manufacturer's permanent mounting kit shall be utilized to install front light bar to cab roof. Backing plates shall be added, as necessary, for a **good** rigid installation and to prevent "oil canning" of the cab roof.

Two (2) V1-SP-0100 **STAR BRAND SROBE BEACON**

A Star brand strobe beacon will be supplied and installed.

Lens color: Amber
Location: (1) each side of the top rear of the unit.

One (1) W0-10-0500 **CHASSIS OWNER'S MANUAL(S)**

The apparatus shall be delivered with a chassis owner's manual as supplied by the chassis manufacturer.

One (1) W0-10-1000 **BODY MANUFACTURER'S MANUAL(S)**

For maintenance purposes, the apparatus shall include a body manufacturer's owners manual. It shall be permanently labeled with the body builders name on the outside cover for easy identification. The manual shall include the manufacturer's toll free number and contact persons for parts, service and warranty repairs.

The manual shall include the following paperwork as a minimum:

1) Specification breakdown for chassis and modular body; 5" x 8" paint chips of each color used *(including code numbers and paint manufacturer)*

2) Warranties on modular body, conversion, paint, and warranty procedure claim forms

3) Chassis information as provided on chassis *(lineset ticket, pre-delivery receipts)*

4) Individual component manuals/warranties

5) Quality control, electrical reports, weight slip

6) Wiring diagrams, circuit breaker panel layouts

7) "As built" detailed CAD drawings

8) Acceptance forms, copy of invoice, modular body MSO, 30-day temporary tag

One (1) **WIRING MANUAL(S)**
W0-10-2000

There shall be a *complete* set of wiring diagrams provided with the apparatus. It shall include color codes and functions of all electrical components installed by the body builder.

One (1) **NFPA LABEL PACKAGE**
W1-00-NFPA

The manufacturer shall furnish all safety, operational and data labels as required in NFPA 1901.

One (1) **SEATING CAPACITY TAG**
W1-05-0500

A permanent plate in the driver's compartment shall be installed, specifying the seating capacity.

One (1) **DO NOT WEAR HELMET WHILE SEATED LABEL**
W1-05-0600

A permanent plate in the cab shall be installed that is visible to each seating position stating: "DO NOT WEAR HELMET WHILE SEATED"

One (1) **NO SMOKING/FASTEN SEAT BELT LABEL**
W1-05-1000

There shall be a *"NO SMOKING/FASTEN SEAT BELT"* label located in the cab. It shall be located in a plain view location within the cab area.

One (1) **FLUID CAPACITY AND TYPE PLATE**
W1-05-1500

A permanent plate mounted in the driver's compartment shall be supplied. It shall specify the quantity and type of the following fluids used in the vehicle.

- *Engine oil*
- *Engine coolant*
- *Chassis transmission fluid*
- *Drive axle lubrication fluid*

One (1) **OVERALL HEIGHT/LENGTH/GVWR PLATE**
W1-05-2000

A permanent plate specifying the overall height, length & GVWR of the vehicle shall be affixed in the cab and shall be located to be clearly visible to the driver when seated. The plate shall read:

When manufactured, this vehicle was:

XX ft. XX in. High
XX ft. XX in. Long
XXXX lb. GVWR

Changes in height since the apparatus was manufactured shall be noted on this plate by the department

One (1) **REAR STEP LABEL**
W1-05-2200

A warning label shall be affixed to the rear of the apparatus body in a conspicuous location.

"DO NOT RIDE OR STAND ON REAR BUMPER/STEP WHILE VEHICLE IS IN MOTION. DEATH OR SERIOUS INJURY MAY RESULT"

One (1) **WINEGARD "ROADSTAR" RV TV ANTENNA**
W6-05-0500

A *Winegard "Roadstar"* RV style television antenna shall be provided and mounted on the forward portion of the body roof. The antenna is omni-directional, so it continuously receives VHF/UHF/FM signals from all directions.

The wiring shall run to the color video monitor/receiver.

One (1) **CHASSIS RELATED EXPENSES**
Z2-00-0002

The manufacturer shall be responsible for chassis related expenses. This shall include handling, housing and inspection to insure that the chassis arrived as ordered. In addition, the manufacturer shall maintain garage keepers insurance for the full amount of the chassis value.

A final inspection with a written report shall be provided upon completion of the unit. It shall include a road test, any required adjustments to belts, headlight alignment, checking of all fluid levels and proper inflation of tires. Any required repairs shall be performed prior to delivery.

One (1)
Z3-00-0002

FACTORY LIAISON/PROJECT COORDINATOR

The successful bidder shall appoint a "project coordinator" to be the factory liaison during the course of the entire contract from the initial bid stages, through construction and final delivery. This person shall have reviewed this bid package in detail, prior to bid opening and shall be totally familiar with the specifications.

The coordinator shall be the purchasers prime contact during the course of the contract. It is important to this agency that the coordinator be well experienced in the sales and construction of rescue vehicles.

The coordinator shall be a full time employee of the manufacturer and shall maintain normal business hours *(40 hours, 5 days a week)* at the manufacturer's facility. Coordinator shall monitor construction of the vehicle on a daily basis. He/She will notify the purchaser of any potential problems and will report progress on a regular basis.

Project Coordinator: *(Name/Position)*

_____

Number of Years Experience with Rescue Vehicles:

_____

Number of Years Employed By Manufacturer:

_____

The manufacturer shall be responsible for chassis related expenses. This shall include handling, housing and inspection to insure that the chassis arrived as ordered. In addition, the manufacturer shall maintain garage keepers insurance for the full amount of the chassis value.

A final inspection with a written report shall be provided upon completion of the unit. It shall include a road test, any required adjustments to belts, headlight alignment, checking of all fluid levels and proper inflation of tires. Any required repairs shall be performed prior to delivery.

One (1)
Z3-00-0002

FACTORY LIAISON/PROJECT COORDINATOR

The successful bidder shall appoint a "project coordinator" to be the factory liaison during the course of the entire contract from the initial bid stages, through construction and final delivery. This person shall have reviewed this bid package in detail, prior to bid opening and shall be totally familiar with the specifications.

The coordinator shall be the purchasers prime contact during the course of the contract. It is important to this agency that the coordinator be well experienced in the sales and construction of rescue vehicles.

The coordinator shall be a full time employee of the manufacturer and shall maintain normal business hours *(40 hours, 5 days a week)* at the manufacturer's facility. Coordinator shall monitor construction of the vehicle on a daily basis. He/She will notify the purchaser of any potential problems and will report progress on a regular basis.

Project Coordinator: *(Name/Position)*

_____

Number of Years Experience with Rescue Vehicles:

_____

Number of Years Employed By Manufacturer:

_____

Total Successful Projects *(Vehicles)* **Handled with Current Manufacturer:**

_____

Hours/Days a Week Coordinator is Available at Factory:

_____

Manufacturer will notify this agency in writing of any personnel change that will effect the status of Project Coordinator, as it is not desirable for this agency to be shuffled from one person to another. Any replacement for coordinator shall have equal or more experience as original person.

One (1) Z6-02-1000 **FACTORY INSPECTION TRIPS**

The purchaser shall inspect the apparatus at the manufacturer's factory to insure compliance to the specifications. It is the manufacturer's responsibility to cover all associated costs for the inspections, including; overnight lodging, meals and local transportation.

Location: (1) trip for two people

One (1) Z6-05-0000 **ENGINEERING/PRE-CONSTRUCTION REVIEW**

An engineering/pre-construction review shall be held to discuss all facets of the specifications and drawings. Engineering shall provide updated production drawings to the purchaser. Manufacturer shall not commence construction of the apparatus without written approval of the production drawings from the purchaser.

One (1) Z6-05-0002 **PRE-CONSTRUCTION CONFERENCE AT PURCHASER'S LOCATION**

A representative of the manufacturer shall meet at the purchasers location to personally discuss all facets of the specifications and drawings. Manufacturer shall not commence construction of the apparatus without written approval of the production drawings from the purchaser.

Manufacturer shall be responsible for any associated cost for this meeting.

One (1) **IN-HOUSE PRE-DELIVERY/DETAILING/INSPECTION**

The completed apparatus shall be *thoroughly* cleaned and polished prior to delivery and acceptance. In addition, the apparatus shall be delivered with **not less** than a quarter (1/4) tank of fuel, unless otherwise specified.

One (1) **DELIVERY TO END USER**
Z6-11-1000

The completed apparatus shall be delivered to the purchaser with full instructions provided to purchaser personnel on operation, care, and maintenance of apparatus at the purchasers location. The apparatus shall be delivered with **not less** than a quarter (1/4) tank of fuel, unless otherwise specified.

Manufacturer shall notify this agency of the exact completion date at least ten (10) working days prior to completion. The apparatus shall be thoroughly inspected for compliance to this specification prior to acceptance and payment.

If the apparatus is not ready, or major deficiencies are found, it will be the manufacturer's responsibility to cover all expenses associated in making the vehicle acceptable.

II. Manufacturer Qualifications Requirement: All bidders shall submit as part of their proposal a certified statement by the manufacturer, signed by a corporate officer, stating compliance with the below listed minimum requirements. **NO EXCEPTIONS!** Copies of supporting documentation shall be available for viewing.

a. Number of years in business of manufacturing portable video surveillance systems, specifically designed for law enforcement or military use. **EXPERIENCE** *(Years)*: _____.

b. Number of portable video surveillance systems, specifically designed for law enforcement or military use, produced by manufacture _____.

III. Warranty: Complete manufacturer's warranty must be included with each kit and clearly annotated with each bid submission.

IV. Pricing: Acceptable bids must indicate Itemized pricing for all items listed with the bid in order to allow us to purchase a greater or reduced quantity of items (components).

V. Contact: Should you have any questions or concerns please feel free to contact me at jcurley@monroecounty.gov or pfantanza@monroecounty.gov

COMPLIANCE WITH FEDERAL SINGLE AUDIT ACT

In the event the Contractor is a recipient through this contract, directly or indirectly, of any funds of or from the United States Government, Contractor agrees to comply fully with the terms and requirements of Federal Single Audit Act [Title 31 United States Code, Chapter 75], as amended from time to time. The Contractor shall comply with all requirements stated in Federal Office of Management and Budget Circulars A- 102, A-110 and A-133, and such other circulars, interpretations, opinions, rules or regulations that may be issued in connection with the Federal Single Audit Act.

If on a cumulative basis the Contractor expends Three Hundred Thousand and no/100 Dollars ($300,000.00) or more in federal funds in any fiscal year, it shall cause to have a single audit conducted, the Data Collection Form (defined in Federal Office of Management and Budget Circular A-133) shall be submitted to the County; however, if there are findings or questioned costs related to the program that is federally funded by the County, the Contractor shall submit the complete reporting package (defined in Federal Office of Management and Budget Circular A-133) to the County.

If on a cumulative basis the Contractor expends less than Three Hundred Thousand and no/100 Dollars ($300,000.00) in federal funds in any fiscal year, it shall retain all documents relating to the federal programs for three (3) years after the close of the Contractor's fiscal year in which any payment was received from such federal programs.

All required documents must be submitted within nine (9) months of the close of the Contractor's fiscal year end to:

Monroe County Internal Audit Unit
304 County Office Building
39 West Main Street
Rochester, New York 14614

The Contractor shall, upon request of the County, provide the County such documentation, records, information and data and response to such inquiries as the County may deem necessary or appropriate and shall fully cooperate with internal and/or independent auditors designated by the County and permit such auditors to have access to, examine and copy all records, documents, reports and financial statements as the County deems necessary to assure or monitor payments to the Contractor under this contract.

The County's right of inspection and audit pursuant to this contract shall survive the payment of monies due to Contractor and shall remain in full force and effect for a period of three (3) years after the close of the Contractor's fiscal year in which any funds or payment was received from the County under this contract.

NOTICE OF JOB VACANCIES

a) The contractor recognizes the continuing commitment on the part of Monroe County to assist those receiving temporary assistance to become employed in jobs for which they are qualified and the County's need to know when jobs become available in the community.

b) The contractor agrees to notify the County when the contractor has or is about to have a job opening for a full time position within Monroe County or any contiguous county. Such notice shall be given as soon as practicable after the contractor has knowledge that a job opening will occur. The notice shall contain information that will facilitate the identification and referral of appropriate candidates in a form and as required by the Employment Coordinator. This would include at least a description of conditions for employment, including the job title and information concerning wages, hours per work week, location and qualifications (education and experience).

c) Notice shall be given in writing to:

Employment Coordinator
Monroe County Department of Human and Health Services
Rm 535
691 St. Paul St.
Rochester, NY 14605
Telephone: (585) 753-6322
Fax: (585) 753-6308

d) The contractor recognizes that this is an opportunity to make a good faith effort to work with Monroe County for the benefit of the community. Nothing contained in this provision, however, shall be interpreted as an obligation on the part of the contractor to employ any individual who may be referred by or through the County for job openings as a result of the above notice. Any decisions made by the contractor to hire any individual referred by or through the County shall be voluntary and based solely upon the contractor's job requirements and the individual's qualifications for the job, as determined by the contractor.

e) If the contractor is a local municipality within Monroe County, said municipality shall be subject to the above subparagraphs, except that said municipalities shall not be required to give notice where the position is subject to a published civil service list.

Retain For Your Records
DO NOT RETURN WITH YOUR BID

General Specifications County Of Monroe

DEPARTMENT OF FINANCE
Division of Purchasing and Central Services

Dawn C. Staub
Purchasing Manager

Monroe County Office Building
39 West Main Street, Room 200
Rochester, New York 14614
(585) 753-1100

FOREWORD

This booklet contains the General Specifications of the County of Monroe Division of Purchasing and Central Services and supersedes any previous issue. The terms and conditions set forth apply to all contracts awarded by the County of Monroe Division of Purchasing and Central Services.

DEFINITIONS

POLITICAL SUBDIVISIONS: All County departments, institutions, agencies, political subdivisions (town, city, village public school districts) and others authorized by law to make purchases through the County Purchasing Division.

BID: An offer to furnish a described commodity at a stated price in accordance with the proposal and specification.

BIDDER: Any person, firm or corporation submitting a proposal to the County.

COMMODITIES: Materials, supplies, equipment and non-professional services.

CONTRACTOR: Any bidder to whom a contract award is made by the Purchasing Manager or Legislature.

CONTROLLER: Controller of the County of Monroe.

COUNTY: County of Monroe.

GROUP: A classification of commodities.

LATE BID: A bid received in the office of the Purchasing Division, whether in person or by mail, after the time and date established in the bid specifications for the bid opening.

PURCHASING MANAGER: Manager of the Purchasing Division for the County of Monroe.

NOTICE OF CONTRACT AWARD: The notification to all participants that a contract has been made between the County and the successful bidder.

PROPOSAL: The form which, when issued by the Purchasing Division, constitutes an invitation to bid on the commodity described therein and which, when completed by the bidder, constitutes his/her bid to the County to furnish such commodity.

PURCHASE ORDER: The official form to be used by Monroe County when placing an order for material, equipment or supplies with a contractor or vendor.

SPECIFICATION: Description of a commodity and the conditions for its purchase.

PROPOSALS AND BIDS

1. The date and time of bid opening will be given on the proposal.

2. All bids are to be submitted on forms provided by the Purchasing Division.

3. All bids must be submitted in a sealed envelope clearly marked with bid number, title, opening date and time. Bids must not be attached to or enclosed in packages containing bid samples.

4. All information required by the proposal and specifications must be supplied by the bidder.

5. Each bid offered shall be construed in accordance with the specifications and proposal. The bidder must explain all deviations, exceptions and qualifications in detail in the bid.

6. Prices and information required by the proposal, except the signature of bidder, shall be typewritten or printed in ink for legibility. Bids written in pencil may be rejected. The Purchasing Manager may interpret or reject illegible or vague bids and the decision shall be final. All signatures must be in ink. Facsimile, printed or typewritten signatures are not acceptable and the bid may be rejected.

7. No alteration, erasure or addition of the specifications or the proposal shall be made.

8. In all specifications or proposals, the words "or equal" are understood to appear after each commodity giving manufacturer's name or catalog reference or on any patented commodity. If bidding on commodities other than those specified, bidder must in every instance give the trade designation of the commodity, manufacturer's name and detailed specification of commodity he/she proposes to furnish. Otherwise, bid will be construed as submitted on the identical commodity described in the specifications.

9. Used, damaged or obsolete items are not acceptable unless specifically requested and if offered or delivered, shall be rejected and the contract may be cancelled.

10. When bids are requested on a number of commodities as a group, a bidder desiring to bid "no charge" on a commodity in the grouping must so indicate. Otherwise, such bid will be considered as incomplete and may be rejected. Any bidder failing to bid on minimum number of items specified in the bid package may have his/her bid declared incomplete or unresponsive and the Purchasing Manager has the discretion to reject the bid.

11. The bidder must insert the price per unit specified and the price extension for each item in the bid if required. In the event of a discrepancy between the unit price and the extension, the unit price will govern. Prices must be extended in decimals, not fractions.

12. Prices must be net, including transportation and delivery charges fully prepaid by contractor to the destination(s) indicated in the proposal, subject only to the cash discount. If the award is to be on any other basis, transportation charges must be prepaid by the contractor and added to the invoice as a separate item.

13. Bidders are cautioned to verify their bids before submission, as bids and amendments to bids or requests for withdrawal of bids received by the Purchasing Manager after the time specified for the bid opening may not be considered.

14. All bids will be opened and tabulated publicly at the time and place set forth in the proposal.

15. A late bid will be rejected and cannot be considered in awarding a contract.

SAMPLES

16. The Purchasing Manager reserves the right to request a representative sample of the commodity at any time. The sample shall be furnished within the timeframe specified in the bid package.

17. If in the judgment of the Purchasing Manager, the sample is not in accordance with the requirements stated in the specifications and the proposal, the County may reject the bid; or if an award has been made, cancel the contract at the expense of the contractor.

18. When samples are required, failure to submit them in accordance with instructions may be sufficient cause for rejecting a bid or canceling an award.

19. When an accepted sample exceeds the minimum specifications, all commodities delivered will be of same quality and identity as the sample.

20. Samples must be submitted free of charge and be accompanied by the bidder's name and address, a statement indicating how and where the sample is to be returned to the bidder and descriptive literature regarding the commodity. Samples will be returned at the bidder's expense and risk.

21. All samples are subject to tests in the manner and place designated by the Purchasing Manager. Samples consumed or made useless by testing cannot be returned to the bidder and the County will not be responsible for any costs as a result of such testing.

22. Where the sample has not been impaired by testing and the bidder has failed to indicate the place and mode of return of the sample, it becomes the property of the County at the conclusion of the contract period.

23. Samples may be held by the County during the entire term of the contract for comparison with deliveries.

24. A Proposal may indicate that the commodity to be purchased must be equal to a sample on display in a designated place. Failure on the part of the bidder to examine such sample shall NOT entitle him to any relief from the conditions imposed in the proposal, specification and related documents. If feasible, standard samples will be submitted to the bidder for his/her examination prior to the bid opening date.

25. Cash discounts will no be considered as a basis for award in any contract.

AWARDS

26. The Purchasing Manager reserves the right before making an award, to investigate whether or not the items, qualifications or facilities offered by the bidder meet the requirements set forth in the proposal and specifications and is ample and sufficient to insure the proper performance of the contract, in the event of award. The bidder must be prepared, if requested by the Purchasing Manager, to present evidence of experience, ability and financial standing, as well as a statement as to plant, machinery and capacity of the manufacturer for the production and distribution of the commodity on which he/she is bidding. If in the opinion of the Purchasing Manager, it is found that the conditions of the proposal and specifications are not complied with or that items proposed to be furnished do not meet the requirements or specifications called for or that the qualifications, financial standing, facilities or capacities are not satisfactory, the Purchasing Manager may reject such a bid. The Purchasing Manager, in no way, is required or obligated to conduct such investigation prior to awarding the contract. It is further understood that if such investigations are made, it in no way relieves the contractor from fulfilling all requirements and conditions of the contract.

27. Contracts shall be awarded to the lowest responsive and responsible bidder. Responsibility is determined by taking into consideration the reliability of the bidder, the qualities of the articles proposed to be supplied and their conformity with the specifications, the purposes for which required and the terms of delivery and any historical performance record of the bidder that may be maintained by the County.

28. A bidder may be disqualified from receiving awards if such bidder or anyone in his/her employ, has previously failed to perform satisfactorily in connection with public bidding or contracts.

29. The Purchasing Manager reserves the right to evaluate and/or reject all bids in whole or in part and to waive technicalities, irregularities and omissions, if in her judgment; the best interests of the County will be served.

30. The Purchasing Manager reserves the right to make awards within forty-five (45) days after the date of the bid opening, during which period bids shall not be withdrawn.

31. If two or more bidders submit identical bids as to price, the decision of the Purchasing Manager to award a contract to one or more of such identical bidders shall be final.

CONTRACTS

32. All contracts awarded by the Purchasing Manager shall be executory only to the extent that funds are available to each Agency or Department for the purchase of the commodity.

33. All bids shall be received with the understanding that the acceptance thereof, in writing, by the Purchasing Manager or governing body, shall constitute a contract between the bidder and the County. The mailing of either a notice of contract award identified by number or of a purchase order to the address on the bid shall be sufficient notice of such acceptance.

34. Unless otherwise specified, the quantities listed in the proposal are subject to change to conform to Agency or Department requirements.

35. The County reserves the right to order up to 10% more or 10% less than the quantities called for in the contract. This paragraph shall not apply to estimated quantity contracts. Over runs and under runs shall not exceed 10%.

36. Unless terminated or cancelled by the Purchasing Manager pursuant to the authority vested in her, contracts will remain in force for the period specified.

37. All purchase orders must be in writing and must bear the appropriate contract number and the approval of the Purchasing Manager.

38. No commodities are to be shipped or delivered until after receipt of an official purchase order from the County, unless otherwise authorized in writing by the Purchasing Manager.

39. The contractor shall not assign, transfer, convey, sublet or otherwise dispose of the contract or his/her right, title or interest therein or his/her power to execute such contract to any other person, company or corporation without the prior consent, in writing, of the Purchasing Manager. (Approval by the Purchasing Manager is not required for the assignment of monies due for contract deliveries. Such assignments should be filed directly with the Purchasing Manager.)

40. No alteration or variation of the terms of the contract shall be valid or binding upon the County unless requested in writing and approved in writing by the Purchasing Manager.

41. Contractor shall employ no one in relation to the work contemplated by the contract who shall be permitted or required to work more than eight (8) hours in any one calendar day or more than five (5) days in any one week except in cases of extraordinary emergency caused by war, acts of public enemies, strikes, fire, flood or danger to life or property and the wages to be paid to employees for a legal day's work shall not be less than the prevailing New York State wage rates for a day's work in the same trade or occupation in the locality where the contract work is executed.

42. Pursuant to the provision of Section 220-A of the New York State Labor Law, as amended, the Contractor (and his/her Sub-Contractors) will be obligated to pay all workers in the covered classes the applicable prevailing wage rates and supplements. The minimum hourly wage rate to be paid the various classes of labor performing work under this contract shall be in accordance with schedules which have been established or may hereafter be established or increased, by the New York State Department of Labor during the contract term.

DELIVERY

43. Delivery must be made as ordered and in accordance with the terms of the contract. Unless otherwise specified, delivery shall be made within thirty (30) days of receipt of purchase orders by the contractor. The decision of the Purchasing Manager as to reasonable compliance with delivery terms shall be final. Burden of proof of delay in receipt of purchase order shall rest with contractor.

44. Any extension of time of delivery must be requested in writing by the contractor and approved in writing by the Purchasing Manager.

45. The Departments will not schedule any deliveries for Saturdays, Sundays or legal holidays, except commodities required for daily consumption or where the delivery is an emergency, a replacement or is overdue, in which events the convenience of the County will govern.

46. Commodities shall be securely and properly packed for shipment, storage and stocking in new shipping containers and according to accepted commercial practice, without extra charge for packing cases, baling or sacks. The container shall remain the property of the County unless otherwise specifically agreed to in the contract.

47. Point of Destination: All deliveries shall be unloaded at the storeroom door of the ordering Agency or department unless otherwise stated in the proposal or specification.

48. Commodities purchased at a price, f.o.b. shipping point plus transportation charge, are understood to be purchased on an f.o.b. point of destination basis. Title shall not pass until commodities have been received and accepted by the Agency or Department.

49. When commodities are rejected with notice of such rejection having been provided to the bidder, they must be removed by the contractor from the premises of the Department or Agency within five (5) days from notification. Rejected items left longer than five (5) days will be regarded as abandoned and the County shall have the right to dispose of them as its own property.

DEPOSITS

50. Unless otherwise expressly indicated, specification deposits are returned only to those prospective contractors who actually submit proposals to the County of Monroe and have returned their specifications unmarked and in good condition within 30 days of the bid award.

51. Unless otherwise expressly indicated, bid deposits are considered an earnest of good faith and are retained by the County only until a contract has been awarded; at which time they are returned to all bidders who submitted proposals. Failure, on the part of a contractor, to execute a contract, may result in forfeiture of his/her bid deposit.

PAYMENTS

52. Payments will be made by the Controller after presentation of a completed voucher to the ordering Department or Agency.

53. In any case where a question of non-performance of a contract arises, payment may be withheld in whole or in part at the discretion of the Purchasing Manager. Should the amount withheld be finally paid, a cash discount originally offered may be taken by the County as if no delay in payment had occurred.

54. Any claim against a contractor may be deducted by the County from any money due him in the same or other transactions. If no deduction is made in such fashion the contractor shall pay the County the amount of such claim on demand. Submission of a voucher and payment thereof by the County shall not preclude the Purchasing Manager from demanding a price adjustment in any case where the commodity delivered is later found to deviate from the specification and proposal. Any delivery made which does not meet the requirements of the specifications and proposal may be rejected or accepted on an adjusted price basis as determined by the Purchasing Manager.

55. Tax Provisions: Purchases made by the County of Monroe are not subject to State or Local sales taxes or Federal Excise taxes. To satisfy the requirements of the New York State Sales Tax, either the purchase order issued by an agency or institution of New York State for supplies or equipment or the voucher forwarded to authorize payment for such supplies and equipment will be sufficient evidence that the sale by a contractor or vendor was made to the County of Monroe, an exempt organization under section 1116 (a) (I) of the Tax Law. Exemption certificates for Federal Excise taxes will be furnished upon request by the Purchasing Division. No person, firm or corporation is, however, exempt from paying the New York State Truck Mileage and Unemployment Insurance or the Federal Social Security Taxes. This exemption does not apply to materials not incorporated into the work of a Public Works Contract.

GUARANTEES BY CONTRACTOR

56. Contractor hereby guarantees:

    (a) To save the County, its agents and employees, harmless from any liability imposed upon the County arising from the negligence, either active or passive, of the contractor, as well as for the use of any copyrighted or uncopyrighted composition, secret process, patented or unpatented invention, article or appliance furnished or used in the performance of the contract of which the contractor is not the patentee, assignee or licensee.

    (b) To pay for all permits, New York licenses and fees and gives all notices and complies with all laws, ordinances, rules and regulations.

    (c) That the equipment offered is standard new equipment, latest model of regular stock product with all parts regularly used with the type of equipment offered; also, that no attachment or part has been substituted or applied contrary to manufacturer's recommendations and standard practice. Every unit delivered must be guaranteed against faulty material and workmanship for a period of one year unless otherwise specified.

57. Waiver of Immunity Clause:

103-a. Ground for cancellation of contract by municipal corporations and fire districts.

A clause shall be inserted in all specifications or contracts made or awarded by a municipal corporation or any public department, agency or official thereof on or after the first day of July, nineteen hundred fifty-nine or by a fire district or any agency or official thereof on or after the first day of September, nineteen hundred sixty, for work or services performed or to be performed or goods sold or to be sold, to provide that upon the refusal of a person, when called before a grand jury, head of a state department, temporary state commission or other state agency, the organized crime task force in the department of law, head of a city department or other city agency, which is empowered to compel the attendance of witnesses and examine them under oath, to testify in an investigation concerning any transaction or contract had with the state, any political subdivision thereof, a public authority or with any public department, agency or official of the state or of any political subdivision thereof or of a public authority, to sign a waiver of immunity against subsequent criminal prosecution or to answer any relevant question concerning such transaction or contract.

(a) such person and any firm, partnership or corporation of which he is a member, partner, Purchasing Manager or officer shall be disqualified from thereafter selling to or submitting bids to or receiving awards from or entering into any contracts with municipal corporation or fire district or any public department, agency or official thereof, for goods, work or services, for a period of five years after such refusal and to provide also that

(b) any and all contracts made with any municipal corporation or any public department, agency or official thereof on or after the first day of July, nineteen hundred fifty-nine or with any fire district or any agency or official thereof on or after the first day of September, nineteen hundred sixty, by such person and by any firm, partnership or corporation of which he is a member, partner, Purchasing Manager or officer may be cancelled or terminated by the municipal corporation or fire district without incurring any penalty or damages on account of such cancellation or termination but any monies owing by the municipal corporation or fire district for goods delivered or work done prior to the cancellation or termination shall be paid.

The provisions of this section as in force and effect prior to the first day of September, nineteen hundred sixty, shall apply to specifications or contracts made or awarded by a municipal corporation on or after the first day of July, nineteen hundred fifty-nine but prior to the first day of September, nineteen hundred sixty.

103-b. Disqualification to contract with municipal corporations and fire districts.

Any person who, when called before a grand jury, head of a state department, temporary state commission or other state agency, the organized crime task force in the department of law, head of a city department or other city agency, which is empowered to compel the attendance of witnesses and examine them under oath, to testify in an investigation concerning any transaction or contract had with the state, any political subdivision thereof, a public authority or with a public department, agency or official of the state or of any political subdivision thereof or of a public authority, refuses to sign a waiver of immunity against subsequent criminal prosecution or to answer any relevant question concerning such transaction or contract and any firm, partnership or corporation of which he is a member, partner, Purchasing Manager or officer shall be disqualified from thereafter selling to or submitting bids to or receiving awards from or entering into any contracts with any municipal corporation or fire district or with any public department, agency or official thereof, for goods, work or services, for a period of five years after such refusal or until a disqualification shall be removed pursuant to the provisions of section one hundred three-c of this article.

It shall be the duty of the officer conducting the investigation before the grand jury, the head of a state department, the chairman of the temporary state commission or other state agency, the organized crime task force in the department of law, the head of a city department or other city agency before which the person so refusing is known to be a member, partner, officer or Purchasing Manager, to the commissioner of transportation of the state of New York and the appropriate departments, agencies and officials of the state, political subdivisions thereof or public authorities with whom the person so refusing and any firm, partnership or corporation of which he is a member, partner, Purchasing Manager or officer, is known to have a contract. However, when such refusal occurs before a body other than a grand jury, notice of refusal shall not be sent for a period of ten days after such refusal occurs. Prior to the expiration of this ten day period, any person, firm, partnership or corporation which has become liable to the cancellation or termination of a contract or disqualification to contract on account of such refusal may commence a special proceeding at a special term of the supreme court, held within the judicial district in which the refusal occurred, for an order determining whether the

questions in response to which the refusal occurred were relevant and material to the inquiry. Upon the commencement of such proceeding, the sending of such notice of refusal to answer shall be subject to order of the court in which the proceeding was brought in a manner and on such terms as the court may deem just. If a proceeding is not brought within ten days, notice of refusal shall thereupon be sent as provided herein.

103-d. Statement of non-collusion in bids and proposals to political subdivision of the state.

(FN1) Every bid or proposal hereafter made to a political subdivision of the state or any public department, agency or official thereof where competitive bidding is required by statute, rule, regulation or local law, for work or services performed or to be performed or goods sold or to be sold, shall contain the following statement subscribed by the bidder and affirmed by such bidder as true under the penalties of perjury: Non-collusive bidding certification.

(a) "By submission of this bid, each bidder and each person signing on behalf of any bidder certifies and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of knowledge and belief:

(1) The prices in this bid have been arrived at independently without collusion, consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;

(2) Unless otherwise required by law, the prices which have been quoted in his/her bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly to any other bidder or to any competitor and;

(3) No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

(b) A bid shall not be considered for award nor shall any award be made where (a) (1) (2) and (3) above have not been complied with; provided however, that if in any case the bidder cannot make the foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore. Where (a) (1) (2) and (3) above have not been complied with, the bid shall not be considered for award nor shall any award be made unless the head of the purchasing unit of the political subdivision, public department, agency or official thereof to which the bid is made or his/her designee, determines that such disclosure was not made for the purpose of restricting competition.

The fact that a bidder (a) has published price lists, rates or tariffs covering items being procured, (b) has informed prospective customers of proposed or pending publication of new or revised price lists for such items or;

(c) Has sold the same items to other customers at the same prices being bid, does not constitute, without more, a disclosure within the meaning of subparagraph one (a).

Any bid hereafter made to any political subdivision of the state or any public department, agency or official thereof by a corporate bidder for work or services performed or to be performed or goods sold or to be sold, where competitive bidding is required by statute, rule, regulation or local law and where such bid contains the certification referred to in subdivision one of this section, shall be deemed to have been authorized by the board of Purchasing Managers of the bidder and such authorization shall be deemed to include the signing and submission of the bid and the inclusion therein of the certificate as to non-collusion as the act and deed of the corporation.

58. Anti-discrimination Clause: During the performance of this contract, the contractor agrees as follows:

(a) The contractor will not discriminate against any employee because of race, creed, color, sex or national origin and will take affirmative action to insure that they are afforded equal employment opportunities without discrimination because of race, creed, color, sex or national origin. Such action shall be taken with reference but not be limited to: recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff or termination, rates of pay or other forms of compensation and selection for training or retraining, including apprenticeship and on-the job training.

(b) The contractor will send to each labor union or representative of workers with which he has or is bound by a collective bargaining or other agreement or understanding, a notice, to be provided by the New

York State Division for Human Rights, advising such labor union or representative of the contractor's agreement under clauses (a) through (g) hereinafter called "non-discrimination clauses"). If the contractor was directed to do so by the contracting agency as part of the bid or negotiation of this contract, the contractor shall request such labor union or representative to furnish him with a written statement that such labor union or representative will not discriminate because of race, creed, color, sex or national origin and that such labor union or representative either will affirmatively cooperate, within the limits of its legal and contractual authority, in the implementation of the policy and provisions of these non-discrimination clauses or that it consents and agrees that recruitment, employment and the terms and conditions of employment under this contract shall be in accordance with the purposes and provisions of these non-discrimination clauses. If such labor union or representative fails or refuses to comply with such a request that it furnish such a statement, the contractor shall promptly notify the New York State Division of Human Rights of such failure or refusal.

(c) The contractor will post and keep posted in conspicuous places, available to employees and applicants for employment, notices to be provided by the New York State Division of Human Rights setting forth the substance of the provisions of clauses (a) and (b) and such provisions of the State's laws against discrimination as the New York State Division of Human Rights shall determine.

(d) The contractor will state, in all solicitations or advertisements for employees placed by or on behalf of the contractor, that all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, sex or national origin.

(e) The contractor will comply with the provisions of the Human Rights Law of the State of New York as set forth in section 290-301 of the Executive Law of New York, will furnish all information and reports deemed necessary by the State Division for Human Rights under these non-discrimination clauses and such sections of the Executive Law and will permit access to his/her books, records and accounts by the State Division for Human Rights, the Attorney General and the Industrial Commissioner for purposes of investigation to ascertain compliance with these non-discrimination clauses and such sections of the Executive Law and applicable Federal Civil Rights Laws.

(f) This contract may be forthwith cancelled, terminated or suspended, in whole or in part by the contracting agency upon the basis of a finding made by the New York State Division for Human Rights that the contractor has not complied with these non-discrimination clauses and the contractor may be declared ineligible for future contracts made by or on behalf of the State or a public authority or agency of the State, until he/she satisfies the New York State Division for Human Rights that he/she has established and is carrying out a program in conformity with the provisions of these non-discrimination clauses. Such finding shall be made by the New York State Division for Human Rights after conciliation efforts by the Commission have failed to achieve compliance with these non-discrimination clauses and after a verified complaint has been filed with the Division, notice thereof has been given to the contractor and an opportunity has been afforded him/her to be heard publicly before three members of the Division. Such sanctions may be imposed and remedies invoked independently of or in addition to sanctions and remedies otherwise provided by law.

(g) The contractor will include the provisions of clauses (a) through (f) in every subcontract or purchase order in such a manner that such provisions will be binding upon each subcontractor or vendor as to operations to be performed within the State of New York. The contractor will take such action in enforcing such provisions of such subcontract or purchase order as the contracting agency may direct; including sanctions or remedies for non-compliance. If the contractor becomes involved in or is threatened with litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the contractor shall promptly so notify the Attorney General, requesting him to intervene and protect the interests of the State of New York.

59. Workmen's Compensation: Contractor will secure workman's compensation and keep insured during the life of the contract for the benefit of such employees as are required to be insured by the provisions of Chapter 41 of the laws of 1914, as amended, known as the Workmen's Compensation Law and also provisions of Article 9 of the Workmen's Compensation Law known as the Disability Benefits Law. The contract shall be void and of no effect unless the contractor complies with these provisions.

CANCELLATION OF CONTRACT

60. Upon failure of the contractor to deliver within the time specified or failure to make prompt replacement of rejected commodities when so requested, the Purchasing Manager may purchase from other sources to replace the commodity rejected or not delivered. On all such purchases, the contractor agrees to reimburse the County promptly for costs associated with purchasing from other sources. Should the cost be less than the contract price, the contractor shall have no claim to the difference. Such purchases may be deducted from contract quantity by the Purchasing Manager.

61. A contract may be cancelled at the contractor's expense upon nonperformance of contract.

DRAWINGS

62. Rough and/or shop drawings shall be furnished as deemed necessary and required by the specification. Such drawings shall be consistent with the contract documents and shall be considered as forming part of the specification and the contract to which they relate.

63. All lettering on the drawings shall be considered a part of the drawings.

64. Approval by the Purchasing Manager of shop drawings of details for any commodity will not relieve the contractor from responsibility for furnishing same of proper dimension, size, quantity and quality to efficiently perform the work and carry out the requirements and intent of the layout or descriptive drawings forming part of the proposal and specifications. Such approval shall not relieve the contractor from responsibility for errors of any sort in the shop drawings. If the shop drawings deviate or are intended to deviate from the layout or descriptive drawings on specifications, the contractor shall so advise the Purchasing Manager in writing at the time the shop drawings are submitted, stating the difference in value between the contract requirements and that denoted by said shop drawings.

65. Rough and/or shop drawings will be examined by the Purchasing Manager and if necessary, will be returned to the contractor for correction. After the corrections have been made, the contractor shall resubmit to the Purchasing Manager as many copies as required for final approval.

66. All drawings and copies thereof shall become the property of the County.

CONTRACTS INVOLVING INSTALLATION

67. Contractor shall clean up and remove all debris and rubbish resulting from his/her work from time to time as required or directed. Upon completion of the work the premises shall be left in a neat unobstructed condition, the buildings broom clean and everything in satisfactory repair and order.

68. Equipment, supplies and materials shall be stored at the site only upon the approval of the using Agency and at the contractor's risk. In general, such on-site storage should be avoided to prevent possible damage or loss of the material.

69. Work shall be performed so as to cause the least inconvenience to the County and with proper consideration for the rights of other contractors or workmen. The contractor shall keep in touch with the entire operation and install his/her equipment promptly.

70. Installation shall also include the furnishings of any rigging necessary to move equipment into the buildings; also the removal and resetting of any removable windows used for moving equipment into building.

71. Bidders shall acquaint themselves with conditions to be found at the site and shall assume all responsibility for placing and installing the equipment in the locations required.

72. All materials used in installation shall be of the highest quality and shall be free from all defects which would mar the appearance of the equipment or render it structurally unsound.

73. Contractor shall furnish adequate protection from damage for all work and shall repair damages of any kind for which he/she or his/her workmen are responsible.

SAVINGS CLAUSE

74. The contractor shall not be responsible for any losses resulting from his/her failure to perform properly, if such failure was due to causes beyond his/her control and without his/her fault or negligence, including but not restricted to acts of God, wars, acts of public enemies, strikes, fires and floods, provided that the contractor shall within ten (10) days from the beginning of any such delay, notify the Purchasing Manager, in writing, of the cause of such delay.

75. The terms, conditions and requirements set forth in these General Specifications shall be binding upon bidders and contractors submitting bids or furnishing materials in connection with proposals received or contracts awarded by the County pursuant to rules and regulations promulgated by the Purchasing Manager of the Monroe County Division of Purchasing and Central Services.