



MARION 19 FT RESCUE SQUAD

DEMO 2000 SPECIFICATIONS

PRESENTED TO

TILTON NORTHFIELD FD

TILTON, NH

2-12-01

2000 MARION DEMO RESCUE SQUAD

BODY===== BODY ===== BODY

19' RESCUE SQUAD, COMMERCIAL CHASSIS

APPROVAL DRAWINGS

Two (2) sets of engineering blueprints, CAD drawn to scale specifically for this apparatus, shall be provided. The Fire Department shall review and approve these drawings prior to actual construction of the apparatus.

Both left and right side views, a rear view and a top view shall be provided. The blueprints shall also show the overall dimensions of the apparatus, proposed compartment sizes and features, and the location of all emergency warning and work lights that are to be provided by the body builder.

PERFORMANCE REQUIREMENTS

The apparatus, when fully equipped and loaded, shall be capable of the following performance on dry, level, paved roads in good condition:

From a standing start the vehicle shall attain a true speed of 35 mph within 25 seconds.

From a steady speed of 15 mph the vehicle shall accelerate to a true speed of 35 mph within 30 seconds. This shall be accomplished without moving the gear selector.

The vehicle shall attain a minimum top speed of not less than 50 mph.

The apparatus shall be able to maintain a speed of at least 20 mph on any grade up to and including six percent.

MODIFICATIONS TO CHASSIS

The following modifications shall be performed on the chassis upon arrival at the body builder's facility:

REEL, INTERIOR COMPARTMENT

The specified reels will be located in the interior of the body and will be enclosed in a .13 aluminum diamondplate cabinet. Cabinet will have a diamondplate door which is screwed onto to face of the cabinet and will allow easy access to reel in case service is needed.

A Hannay 4-way roller guide will be installed in ceiling of compartment. This will guide the cord into the exterior compartment for use on the outside of truck.

Both the cord reel and air reel will be installed in the interior.

Two (2) chain boxes shall be provided one (1) each side on the outside of the frame rails. The chain boxes shall be approx. 10" wide x 18" long x 11" deep.

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BUMPER GUIDES WITH AMBER LIGHTS

Two (2) polished stainless steel bumper guides with amber lights on top that come on with the parking lights shall be installed on the front bumper.

WINCH

A Ramsey RE-12000 12 volt electric winch shall be provided and installed in the front bumper extension. It shall have a line pull rating of 12,000 lbs. The winch shall have a remote 25' control switch which shall have forward, reverse and off positions. The drive unit shall utilize a self-locking worm gear and have a clutch control lever located at the drum for free spooling.

The following items shall also be provided with the winch:

One (1) 4-way cable guide
100 ft. of 3/8" galv. aircraft cable with clevis hook.
A hinged aluminum treadplate winch cover.

The chassis shall be modified to include a front bumper platform extension. The existing chassis frame rails shall be extended by welding a `C` channel of .25" thick steel on to the end of the chassis frame rails. The frame rail extensions shall have crossmember bracing of .125" X 1.5" X 1.5" structural steel channel.

The platform extension shall be 20" wide and the top and sides shall be trimmed with .125" bright aluminum treadplate. Four (4) braces of .188" thick formed steel channels shall support the top aluminum treadplate decking.

One (1) 12,000 lbs. front winch shall be provided in the front bumper extension centered between the frame rails.

CAB STEP BATTERY COMPARTMENT

The chassis cab entrance step opposite the fuel tank shall be removed and replaced with a step of .125" bright aluminum treadplate. This step shall also include a vertical riser to cover the void between the step and the bottom of the cab door jamb. The vertical riser shall be cut out to follow the contour of the cab fender. The step will be designed so the first step is no further than 24" from the ground. An additional stepping surface will be incorporated into step so that there is less than 18" from the first step to the cab.

A battery compartment shall be furnished with a 200 lb. capacity Grant 3320-14 roll-out tray for easy access. The battery compartment shall be located in the vertical panel between the cab entrance step and the cab door jamb. The battery tray will have a 1" bent up lip to contain acid in the event of a minor spill and the floor shall be covered with a rubber mat. A removable pin shall hold the tray in the closed position. The front of the compartment floor shall have a .5" lip to further contain any minor acid spills.

A hinged bright aluminum treadplate door with a chrome lift and turn latch shall be provided to gain access to the batteries.

FUEL TANK COVER

The chassis furnished step tank shall be covered with .125" bright aluminum treadplate. A step pocket shall be furnished in the cover to match the fuel tank step pocket. The step areas will have an open type surface to facilitate draining of

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accidentally spilled fuel. A name tag shall be provided warning what type of fuel is to be used.

GRIP STRUT INSERT, CAB STEPS

A grip strut insert will be installed in the cab steps so as to provide a safe footing while entering and exiting the cab. Grip strut will be provided in all the areas where a persons foot can come into contact while entering and exiting the cab.

Grip strut shall be installed in both cab steps.

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FUEL TANK LABEL

A zinc die cast metal label shall be provided adjacent to the fuel tank fill opening. It shall state what type of fuel is to be used.

CHASSIS COMBINATION AIR INLET/OUTLET

There shall be an air inlet/outlet fitting plumbed to the chassis air system. The air line shall have a low air pressure protection valve installed. The female air inlet/outlet fitting shall be a 3/8" quick disconnect Parker type located near the driver's cab step. A male mating fitting, shipped loose, shall be furnished for fire department air hose connection.

The fitting will be recessed so it does not extend past the outside of the step area.

One (1) chassis air inlet/outlet combination shall be provided and installed to the rear of the driver's door in the step area.

DUAL GROVER AIR HORNS

Two (2) Grover #1510 Emergency Stuttertone 24-1/2" air horns shall be installed on the apparatus, connected to the chassis air system. A floor button with appropriate label shall be installed on each side of the cab floor to activate the horns. The air line shall be furnished with a low air pressure safety valve.

The air horns shall be installed in the front bumper extension, one (1) each side.

Two (2) Grover air horns shall be provided and installed on the inside of the frame rails, one (1) each side of the winch.

SEATING RESTRICTIONS

A seat with approved type seat belts shall be furnished for each person. There shall be a warning label in the cab, warning as to the number of personnel that may ride the vehicle in a safe manner.

"DANGER - THE MAXIMUM NUMBER OF PERSONNEL TO BE CARRIED ON THIS VEHICLE IS 8. PERSONNEL MUST BE SEATED AND SEAT BELTS MUST BE FASTENED WHILE VEHICLE IS IN MOTION, OTHERWISE DEATH OR SERIOUS INJURY MAY RESULT."

The seating restriction label shall be for eight (8).

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CHASSIS EXHAUST

The chassis exhaust shall be extended just past the body side. A stainless steel exhaust deflector shall be located just above the exhaust pipe and below the body to prevent discoloration of the body side panels.

CHROME EXHAUST EXTENSION

A chrome 45 degree exhaust extension shall be installed on the end of the exhaust pipe.

REAR TOW EYES

Two (2) heavy duty eyes, .75" x 4" with a 2.375" elongated hole, shall be furnished at the rear of the body above the step and shall be bolted directly to the truck frame rails. There shall be stainless steel trim panels installed around the tow eyes. Tow eyes to be painted black.

The rear tow eyes shall be painted black.

REAR SPRING SHACKLE ACCESS

The rear axle spring shackles shall have the grease fittings replaced with 90 degree fittings for ease of service once the body is in place.

FLUID ID PLATE

A permanent plate shall be affixed in the driver's compartment specifying the quantity and type of the following fluids used in the vehicle:

- Engine oil
- Engine coolant
- Transmission fluid
- * Pump transmission lubrication fluid
- * Pump primer fluid
- Drive axle lubrication fluid
- * Air-conditioning refrigerant
- * Air-conditioning lubrication oil
- Power steering fluid
- * Cab tilt mechanism fluid
- * Transfer case fluid
- * Equipment rack fluid
- * Air compressor system lubricant
- * Generator system lubricant

* = When applicable.

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OVERALL HEIGHT NAMEPLATE

A permanent plate specifying the overall height of the vehicle in feet and inches shall be affixed in the cab and shall be located to be clearly visible to the driver when seated.

CHAIN ON IGNITION KEY

If the ignition switch is equipped with a key, the key shall be chained to the cab dash so as not to be removable from the interior of the cab.

REAR MUDFLAPS

A black hard rubber mudflap with the manufacturer's logo on it shall be installed behind the rear wheels, one (1) each side.

FRONT MUDFLAPS

A black rubber mudflap shall be installed behind the front wheels, one (1) each side.

WHEEL COVERS, FOUR (4) BRIGHT S.S. FOR MEDIUM DUTY CHASSIS

"Real Wheel" bright stainless steel wheel covers shall be installed on the front chassis wheels. Rear stainless steel wheel liners and high hat hub and nut covers shall be furnished for the rear outer wheels.

"Real Wheel" bright stainless steel wheel covers shall be installed on the front chassis wheels. Rear stainless steel wheel liners and high hat hub and nut covers shall be furnished for the rear outer wheels.

BODY SPECIFICATIONS

BODY CONSTRUCTION

All body framing, doors, skin, etc. shall be of all aluminum construction to enhance vehicle performance, reduce overall maintenance and maximize available payload by minimizing the body weight. For maximum strength, the body framing shall be all extruded construction.

CROSSMEMBERS

3" x 2" x .25" wall thickness, 6061-T6 aluminum extruded rectangular tubing on 16" centers.

To eliminate corrosion, all crossmembers and structural tubing will have the ends capped and solidly welded shut on all sides to eliminate the possibility of dirt, water, and salt from entering (NO EXCEPTIONS).

UPRIGHTS

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Door openings and between exterior side compartments will have 3" X 2" X .25" wall thickness, 6061-T6 aluminum extruded rectangular tubing. Intermediate uprights of 2" x 1" x .125" wall thickness, 6063-T52 aluminum extruded rectangular tubing on 16" centers.

ROOF RAFTERS

Roof rafters to be 2" x 1" x .125" wall thickness, 6063-T52 aluminum extruded rectangular tubing on 16" centers.

ROOF COVE AND CORNER POSTS

For body strength, the corner posts and roof cove perimeter shall have a 1.5" radius of 6061-T6 extruded .125" aluminum. All corners shall have a 1.5" radius cast aluminum ball cap at the top corners of the body.

SKIN

Smooth .125" aluminum, bonded to uprights. Body sides to be one piece with no visible splice seams or rivets, for superior appearance and graphics.

Entire front body panel between the corner posts to be .125" bright aluminum treadplate. The treadplate front wall will prevent paint chips from stones or other debris which may be kicked up from the road.

ROOF

Roof material to be .125" bright aluminum treadplate, seams and perimeter to be 100% welded. To insure a water tight non leaking roof, skip welding or caulking will not be acceptable.

INSULATION

The body sides above the exterior compartments and roof shall be insulated with 2" sheet styrofoam insulation to reduce thermal loss.

RUBRAILS, REMOVABLE STAINLESS STEEL

Removable rubrails shall have a .25" drain gap from the body sides. Rubrail shall be a formed "C" section of 16 gauge mirror finish stainless steel and be located on both sides of body. These shall be fastened on for ease of service and replacement in case of damage.

STONE SHIELDS - FRONT

Full height stone shields shall be located on the front body corner posts. Shields are to be .125" bright aluminum treadplate construction and wrap around the corner posts. Shields shall be fastened to the body with aircraft style bucking rivets to eliminate any cracks for dirt and moisture to collect. Pop rivet type fasteners shall not be acceptable.

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STONE SHIELDS - REAR

Full height stone shields shall be located on the rear body corner posts. Shields are to be .125" bright aluminum treadplate construction and wrap around the corner posts. Shields shall be fastened to the body with aircraft style bucking rivets to eliminate any cracks for dirt and moisture to collect. Pop rivet type fasteners shall not be acceptable.

BRANCH SHIELDS - ROOF

Full length branch shields shall be located on the body roof radius perimeter. Shields are to be .125" bright aluminum treadplate construction and wrap around the roof radius. Shields shall be fastened to the body with aircraft style bucking rivets to eliminate any cracks for dirt and moisture to collect. Pop rivet type fasteners shall not be acceptable.

The body corner caps will also be aluminum treadplate and will be formed to fit around the corner radius. NO EXCEPTIONS.

FENDERS

Fenders are to be sized to allow ample clearance for tire chains. The fender liners shall extend full depth to the rear springs and be welded to the rear body panels. The fender liners are to be sealed with continuous welds to the outside and inside body panels to provide maximum strength, elimination of any pockets for the accumulation of dirt and road salt, and to provide ease of cleaning.

FENDERETTES

The fenderettes shall be polished stainless steel held in place to the wheel housing with stainless steel cap screws and well-nuts for easy replacement. The fenderettes and the fasteners shall be isolated from the wheel housing to prevent electrolysis. A trim molding shall be provided between the fenderettes and wheel housing. The fenderettes shall be mounted to the body thereby affording superior protection from debris hitting the sides of the body.

FENDER PANELS

The body panels above the wheelhousing shall be .10" bright aluminum treadplate overlay fastened with stainless steel torx head screws for ease of replacement in case of an accident.

SPRING SHACKLE CLEARANCE

Since exterior side compartments are full depth, provisions in the compartments, fore and aft of the rear wheels shall be made for special enclosures around the chassis springs and spring hangers. These enclosures shall be large enough for accessibility into grease fittings and spring pins.

BEAVERTAILS - NON SLOPING

There shall be beavertails extending from the top of the body to the top of the rear beavertail compartment. Construction to be of .125" aluminum. The 1.75" corner posts will be an integral part of the beavertails. Beavertails that have an 'added-on' appearance shall not be permitted.

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The two inner vertical beavertail walls that face the rear entrance door shall be .125" bright aluminum treadplate.

BODY MOUNTS

There shall be 75,000-90,000 PSI yield high strength .625" bolts to attach the body brackets to the chassis frame, mounted so as to prevent any movement of the body.

Full length hardwood sills shall be located between the chassis frame rails and the body.

COMPARTMENT VENTS

Stamped ventilating louvers shall be provided in each compartment and so located that water cannot normally enter the compartment through the louvers. Louvers shall be punched integrally into the back wall of the compartment and be open to the top. Each compartment shall have a minimum of six (6) louvers 4" long for good air circulation to dry out compartment interiors and equipment. **Added on louvers are not acceptable.**

EXTERIOR COMPARTMENTS

All general framing to be aluminum. Compartments shall be an integral part of the body construction and shall also be suspended by the floor crossmembers. The floor crossmembers shall also be attached to the main body uprights located between the compartment openings.

COMPARTMENT FLOORS

Compartment floors will be 100% welded to the threshold extrusion. Floor material to be .125" smooth aluminum and to be of integral support to the front, rear and side compartment walls.

The center portion of the floor will be reinforced with an extruded aluminum channel to prevent buckling and oil-canning. To eliminate corrosion the channels will be inverted to eliminate the possibility of dirt, water, and salt from entering **(NO EXCEPTIONS)**.

DOOR THRESHOLD

The door threshold shall be constructed from a sealed box type 6061-T6 aluminum extrusion. The extrusion shall be tied into the extruded uprights and shall provide a flush "sweep-out" style floor with no lip. The extrusion shall run under the compartment floor to prevent damage when heavy equipment is dropped on the front lip of the floor. The lower door jamb area shall have small extruded ribs which shall eliminate the need for paint in this vulnerable area. A formed up compartment floor providing the sweep out lip area shall not be acceptable.

MATEFLEX GRATING

Black Mateflex grating shall be installed where specified. Where appropriate the grating shall have a beveled edge facing the front of the compartment to prevent snagging while loading equipment.

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The grating shall be installed on all compartment floors, with the exception of compartments C and F.

BLACK Mateflex grating shall be provided and installed on all compartment floors with the exception of compartments "C" and "F".

COMPARTMENT WALLS

The compartment sidewalls and rear wall to be .125" smooth aluminum. All compartment seams will be 100% sealed so to provide a water tight compartment.

DOORS

All equipment compartment doors shall be full box pan construction. The doors shall be flush mounted so that the door outer surface is in line with the side body panels. Overlap or bevel style doors shall not be acceptable.

Doors shall consist of a .125" aluminum outer panel with the perimeter formed into a 'U' channel to provide a rigid channel section that is 1.75" thick. A full size inner door pan shall be removable and held in place by stainless steel torx head screws to provide access to all door hardware. To eliminate maintenance and provide better reflectivity from compartment lights and car headlights, the door pans shall be fabricated of .10" bright aluminum treadplate. Door latching hardware to be concealed within the door for superior appearance, and protection from shifting equipment. Door pans must be fully removable, no exceptions.

A full length, vertical, extruded aluminum hat section shall be provided between the inner and outer door panels. This will provide reinforcement for the door and the latching mechanism, and to provide a mounting header for possible future equipment mounting on the door itself.

Door handle, latches and striker plates shall be secured with threaded fasteners. Pop rivet type fasteners shall not be acceptable. To avoid electrolysis, the door handle fasteners shall be isolated from the aluminum door using non ferrous nut sert type fasteners and a gasket shall be installed between the handle and the door. No exceptions will be accepted on the isolating of the door hardware and fasteners.

Doors shall be mounted on full length 14 gauge stainless steel hinges with .25" stainless pins. Hinges shall be "Electro Polished" to provide a chrome plated appearance. All door hinges shall be bolted with stainless steel torx head fasteners and will have nylon isolators separating the fasteners from the door and hinges. The hinge, where it contacts the door and door post shall be isolated by a mylar tape to eliminate electrolysis. Each door shall have two (2) .25" drain holes in the bottom edge.

Weatherstripping shall be provided around the complete door frame perimeter. It is to be automotive type tubular hollow core weather stripping and shall crimp onto the door jamb lip thereby eliminating the need for "glued on" weatherstripping. The area behind the strikers will be flared out around door latches to allow the gasket to seal around the entire door (**NO EXCEPTIONS**).

The weatherstripping for the bottom of the door will be crimped on the compartment door inner pan, not on the door jamb. This will allow true sweep out cleaning of the compartment floor.

Door latch handles to be the Circle 'D' bent D-ring type. These are to be spring loaded which will open by turning clockwise or counter clockwise. Latches to be Eberhard #206-U slam type.

Where double opening doors are provided, an Eberhard 206-U slam type latch shall also be used on the first door shut for

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positive door retention. An "L" shaped chrome release handle shall be provided on the inside of the first door shut.

A black marker "dot" of Scotchlite shall be positioned on the edge of the door to mark the location of the door release.

If these double doors exceed 38" in height, two (2) latches shall be provided on the first door shut, one at the top and one at the bottom. The linkages between the locks and the handle will be through an adjustable metal rod. Cable type linkages will not be acceptable due to the stretching and slippage that is associated with cables.

KEY LOCKING DOORS

The exterior compartment doors will be key locking. The compartment doors will be keyed the same with a minimum of 4 keys furnished.

DOOR HOLDERS

All vertically hinged doors to be equipped with spring loaded Hansen door opening mechanisms which provide spring assist when opening and closing. Spring tension shall then also hold the doors in the 'open' position. Holders shall be stainless steel construction that have nylon bearings for smooth, non-binding operation. Only one hand shall be required for operation.

Doors shall be equipped with rubber bumpers and/or stops as required to prevent doors from hitting each other.

REAR STEP

The rear step shall be .188" bright aluminum treadplate with an open mesh insert of aluminum "Grip Strut", for positive footing. A 9.5" x 45" intermediate step of aluminum "Grip Strut" shall be located half way between the door entrance and the main step.

There shall be a warning label mounted above the rear step.

"DANGER - DO NOT RIDE ON REAR STEP WHILE VEHICLE IS IN MOTION. DEATH OR SERIOUS INJURY MAY RESULT."

STEP, PULL-OUT/DROP-DOWN

One (1) pull-out/drop-down step(s) shall be provided for access to the body. The step shall flip down and pull out for use and fold in under the truck when not in use. The side brackets that make up the slide mechanism will be fabricated out of stainless steel. The step shall be approximately 36" wide and shall have a grip strut surface.

The step shall be located at the rear of the body.

One (1) pull-out/drop-down step shall be located at the rear of the body for access into the rear entrance door.

ACCESS RAILS

Access rails shall be 1.25" diameter extruded aluminum tubing, with rubber grip inserts, in chrome plated stanchions.

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Access rails are to be designed to prevent them from spinning in the socket.

There shall be two (2) 36" long access rails mounted on the rear of the body.

Two (2) 36" long access rails shall be located at the rear of the body, one (1) each side of the rear entrance door.

ENTRANCE DOOR

At the rear of the body shall be a single flush fitting door providing access to the body interior. The door shall be 35" wide x 72" high.

The door shall be a full box pan construction fabricated from .125" aluminum outer panel with the perimeter formed into a 'U' channel to provide a rigid channel section. The window area shall be framed with 2" x 1" x .125" extruded aluminum rectangular tubing. The interior of the door shall be covered with .10" bright aluminum treadplate to serve as a kick shield from the bottom of the door to just below the window. The upper section of the door shall be covered with buffed aluminum.

For ease of maintenance, the vertical panel between the step and rear entrance door shall be .125" bright aluminum treadplate.

Door to be flush fitting and close against automotive type tubular hollow core weatherstripping. Hinge to be continuous stainless steel, 14 ga. with a .25" stainless steel pin. Hinge shall be "Electro Polished" to provide a chrome plated appearance.

Door to be equipped with two (2) socket and plunger hold backs and one (1) interior grab handle. The grab handle shall be 1.25" diameter extruded aluminum tubing, with rubber grip inserts, in chrome plated stanchions and shall be mounted diagonally on the inside of the door to also serve as an assist rail when entering the squad interior.

One aluminum framed, tinted, sliding window 18" high x 18" wide shall be mounted in the upper part of door.

A full width, 2" foam padded, vinyl covered head bumper cushion shall be located just above door jamb to protect firefighters' heads from injury when exiting the body.

The entrance door is to be closed via a two-point slam action Tri-Mark 50-200 series slimline rotary latch that meets FMVSS 206 standards. The outside handle will be a Tri-Mark 30-800 series large zinc die cast paddle and tray handle. The handle will have a polished chrome finish and will be approximately 55" above ground level, so it can be easily reached without standing on the rear step.

The inside latch will be Tri-Mark 30-800 series large zinc die cast paddle and tray handle located in the center of the door. The handle will be flush mounted so it cannot be accidentally opened.

The entrance door shall be at the rear of the body.

KEY LOCKING ENTRANCE DOORS

The entrance door(s) will be key locking with a minimum of 2 keys furnished. The entrance door(s) will also be lockable from the interior.

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WINDOW FOR LOWER ENTRANCE DOOR, NON-SLIDING

Where specified there shall be an additional aluminum framed, tinted, 18" high x 18" wide window installed in the lower part of the entrance door.

DRIP MOLDINGS

Bright anodized extruded aluminum drip moldings shall be located above the side compartment doors. Drip moldings will be bonded to body sides.

PAINT

The complete apparatus body shall be painted. All exposed metal surfaces which are not chrome plated or polished shall be thoroughly cleaned and prepared.

To prevent corrosion and to insure bonding of primer, the body shall be washed by a chemical etch system. All irregularities in primed surfaces shall be sanded down before application of the finished coats. All removable items such as compartment doors shall be removed and painted separately.

Dupont polyurethane enamel "Imron" paint is to be used on the body. Consistent with this requirement and to insure optimum adhesion of final paint and long service of paint, all related materials shall be those specified by the paint manufacturer for use with their finish. These related products shall include, but not be limited to the following: Corlar primer, catalysts, thinners, hardeners and reducers.

The body shall be painted the same color as the chassis.

One (1) pint of touch-up paint for each color used on the exterior of the apparatus shall be furnished.

PAINT UPPER BODY 2ND COLOR, ABOVE DOORS

The body shall be painted from the top of the body to a line starting at top of the compartment doors.

Paint color: White. Paint number: To match International chassis cab.

Paint shall be WHITE to match the International chassis cab.

CHASSIS CAB PAINT

The apparatus cab, exterior and wheel exteriors shall be painted. The cab shall be completely sanded and primed. All exposed metal surfaces, not chrome plated or polished shall be thoroughly cleaned and prepared.

THE LOWER PORTION OF THE CHASSIS CAB ONLY SHALL BE REPAINTED. THE TOP PORTION OF THE CAB SHALL BE LEFT WHITE AS PROVIDED BY INTERNATIONAL.

Lower paint color: Candy Apple Red. Paint number: 97902UM.

THE LOWER PORTION OF THE CHASSIS CAB ONLY SHALL BE REPAINTED. THE TOP PORTION OF THE CAB

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SHALL BE LEFT WHITE AS PROVIDED BY INTERNATIONAL.

Lower paint color: CANDY APPLE RED #97902UM.

COMPARTMENT FINISH

To reduce marring and scuffing, the insides of the exterior compartments along with any shelves, etc. that might be furnished shall be painted with a durable spatter type coating.

UNDERCOATING

The body undercarriage shall be undercoated with Ziebart #ZPG-1015 to provide a corrosion resistant surface and dampen road noise. This shall include the underside of the compartments, rear step, and wheel well liners. The undercarriage of the chassis shall be as is provided by the chassis manufacturer unless specified otherwise.

SCOTCHLITE LETTERING

Fifty Two (52) Scotchlite letters will be furnished on the vehicle. Lettering layout shall be as follows:

MARION (Red outlined in Black)
RESCUE & FIRE APPARATUS (Red only)

Fifty Two (52) 4" - 6" Scotchlite letters shall be provided as follows:

MARION (Red outlined in Black)
RESCUE & FIRE APPARATUS (Red Only)

REFLECTIVE STRIPING

An 8" horizontal Scotchlite reflective cab and body stripe shall be provided.

Stripe shall break at all unpainted surfaces. Where necessary, the striping material shall be applied to a smooth aluminum plate mechanically fastened to the apparatus.

The stripe shall be white, and shall extend across each side of the cab and body, and across the rear face of the body.

An 8" Scotchlite WHITE reflective stripe shall be provided and installed. The stripe shall extend across each side of the cab and body, and across the rear face of the body.

GENERAL BODY DIMENSIONS

Inside Length = 199.88"

Aisle Width = 40"

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Overall Width = 98" + rubrails

Body Length = 224"

EXTERIOR COMPARTMENT SIZES

Road Side, front to rear. (Nominal door opening sizes)

A. 48" wide x 60" high x 27" deep. Double doors.

B. 50" wide x 60" high x 27" deep. Double doors.

C. 57" wide x 30" high x 27" deep. Double doors.

D. 52.25" wide x 60" high x 27" deep. Double doors.

NOTE: The upper rear part of this compartment shall be full height for storage of long handle items.

Curb Side, Front to rear. (Nominal door opening sizes)

E. 48" wide x 60" high x 27" deep. Double doors.

F. 50" wide x 60" high x 27" deep. Double doors.

G. 57" wide x 30" high x 27" deep. Double doors.

H. 52.25" wide x 60" high x 27" deep. Double doors.

NOTE: The upper rear part of this compartment shall be full height for storage of long handle items.

INTERIOR HEADROOM

The interior headroom shall be 76".

BOTTLE RACK FOR SCBA BOTTLES

An SCBA bottle rack shall be mounted in the compartment specified and designed to hold twenty one (21) bottles. For superior strength over PVC, the rack shall be constructed using an aluminum egg shape design with a 1" downward slope to prevent the bottles from sliding out. An aluminum cradle overlaid with a rubber mat on the bottom and back wall shall be provided for each of the bottles.

The rack shall be located in compartment C.

A twenty one (21) bottle SCBA storage rack shall be provided and installed in compartment "C".

VERTICAL DIVIDER, REMOVABLE (30" MAX DEPTH)

Three (3) removable vertical dividers shall be fabricated from .13 smooth aluminum. The divider should have a 1" lip on

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the front edge for added strength.

The dividers shall be located as follows:

One (1) full height in compartment B positioned at the rear edge of the recess area for the road side interior bench seat. The lower portion of the divider, below the recessed area, shall be full depth of the compartment.

One (1) full height in compartment D to separate the full height beavertail area from the remainder of the compartment.

One (1) full height in compartment H to separate the full height beavertail area from the remainder of the compartment.

Three (3) removable dividers shall be provided and installed as follows:

One (1) full-height in compartment "B" positioned at the rear edge of the recess area for the road side interior bench seat. The lower portion of the divider, below the recessed area, shall be full-depth of the compartment.

One (1) full-height in compartment "D" to separate the full-height beavertail area from the remainder of the compartment.

One (1) full-height in compartment "H" to separate the full-height beavertail area from the remainder of the compartment.

REMOVABLE DRAWER(S)

Two (2) pull out, removable drawers shall be provided and fabricated from polpropylene. A hand hold cutout shall be provided in the front and back wall of the drawer so that it can be easily carried when removed.

The drawers shall be located at the floor level in the rear portion of compartment B. The drawers shall measure approximately 12" wide x 10" high x 24" deep.

Two (2) removable drawers shall be located at the floor level in the rear portion of compartment "B". The drawers shall measure approx. 12" wide x 10" high x 24" deep.

FIXED SHELVES (28" MAX DEPTH)

Three (3) fixed shelf(s) shall be provided and fabricated from .188" 5052-H32 aluminum. The shelf is to have a 1.5" lip on the front edge to retain equipment.

The shelves shall be located as follows:

One (1) at split depth of compartment A.

One (1) at split depth of compartment E.

One (1) in the upper forward portion of compartment B (ahead of the vertical divider) at split depth level.

Three (3) fixed shelves shall be provided and installed as follows:

One (1) in compartment "A" at the split depth.

One (1) in compartment "B" in the upper forward portion at split depth (ahead of the vertical divider).

One (1) in compartment "E" at the split depth.

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ADJUSTABLE SHELVES (28" MAX DEPTH)

Six (6) adjustable shelve(s) shall be provided and fabricated from .188" high strength 5052-H32 aluminum. The shelves are to have a double channel break both front and rear to form a reinforced channel. The rear channel is to be bent in the opposite direction of the front so that the shelf is reversible to provide either a lip to retain equipment or a smooth sweep-out front.

For ease of adjustment and as additional shelving reinforcement, the shelves shall not be bolted directly to the standards but shall be supported by angle shelf holders that in turn are fastened to the standards.

The shelves shall be located as follows:

- One (1) in compartment B, forward portion ahead of divider.
- Two (2) in compartment D, forward portion ahead of divider.
- One (1) in compartment E.
- One (1) in compartment F.
- One (1) in compartment H, forward portion ahead of divider .

Six (6) adjustable shelves shall be provided and installed as follows:

- One (1) in compartment "B", forward portion ahead of the divider.
- Two (2) in compartment "D" , forward portion ahead of the divider.
- One (1) in compartment "E".
- One (1) in compartment "F".
- One (1) in compartment "H", forward portion ahead of the divider.

SHELVING STANDARDS FOR ADJUSTABLE SHELVES

Six (6) compartments shall be equipped with heavy duty adjustable shelving standards, one per wall on all depths 20" or less and two per wall on depths greater than 20". These standards are to be the infinitely adjustable type of 6061-T6 extruded aluminum.

Standards shall be located in compartments B, D, E, F, G and H.

Adjustable shelf standards shall be located in compartments "B", "D", "E", "F", "G" and "H".

REMOVABLE SHELF

There shall be one (1) removable shelf in the rear portion of compartment B above the poly drawers. This shelf will serve as the base for the aluminum toolboard.

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One (1) removable shelf shall be located in compartment "B" above the poly drawers. This shelf will serve as a base for the aluminum toolboard.

ROLL-OUT TRAY, 600 LB CAPACITY, 22" EXTENSION

One (1) roll out tray(s) shall be provided in the compartments specified. Trays shall be fabricated of .188" smooth 5052 aluminum and have a 2" high lip on all four sides. The tray shall be mounted on Slidemaster 600 lb. capacity, model MP slides that extend 22". Track will allow the tray to lock in the open and closed position.

The tray shall be located on the floor of compartment F.

One (1) 600 lbs. capacity roll-out tray shall be on the floor of compartment "F".

ROLL-OUT/DROP-DOWN TRAY, 250 LB CAPACITY, 20" EXTENSION

One (1) roll-out/drop down adjustable tray shall be provided in the compartments specified. Tray shall be fabricated of .188" smooth 5052 aluminum and have a 2" high lip on all four sides. The tray shall be mounted on Slidemaster #SMT-R, 250 lb. capacity, side mount slides. Tray will have a 20" extension and will tilt down approximately 30 degrees. A chrome plated handle will be installed on the center face of the tray and a latch shall be provided to hold the tray in the closed position.

The tray shall be adjustable in height and shall be located in compartment G.

One (1) 250 lbs. capacity roll-out/drop-down tray shall be located in compartment "G" on adjustable standards.

ALUMINUM TOOL BOARDS - 200 LB CAP. ROLL OUT, 20" EXT.

One (1) tool board shall be furnished. The board shall be fabricated of .13" smooth aluminum with a 1" bend on all four sides. A hand pull cut out trimmed with black molding will be provided on the front face of board. Each board shall be mounted on a "Grant" 200 lb. capacity, model 3320-20 ball bearing slides that extend 20". A latch shall be provided to hold the board in the closed position.

Board will be left a natural oscillated finish with a peg board design. The entire board will include 1/4" holes on 1" centers so as to provide easy mounting of tools on either side of the board.

The board shall be centered in the rear portion of compartment B. The toolboard assembly will extend from the removable shelf to the ceiling.

One (1) tool board shall be centered in the rear portion of compartment "B". The toolboard assembly will extend from the removable shelf to the ceiling.

BODY INTERIOR FEATURES

CONSTRUCTION

Basic body interior unless otherwise specified shall be of all aluminum construction. Painted and formica over pressed

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wood surfaces are not acceptable as they are easily scratched and chipped by personnel moving about with equipment and donned air packs. Cabinet and counter lips when furnished shall be trimmed with black edge molding to eliminate any sharp edges.

FLOOR

The interior walkway floor shall be .125" aluminum treadplate over .75" marine grade plywood for rigidity. Floor will be bent up approximately 4" on each side to eliminate corner seams and allow easy cleaning and flushing of the walkway. Any floor seams shall be 100% welded to provide a water tightness. The sidewall shall overlap the bent up floor sides to provide a water-shed design. A subpan of .09" thick aluminum shall be located under the plywood to serve as a moisture barrier.

The center aisle side walls to be bright aluminum treadplate to the height of exterior compartments and will overlap the floor lips to provide a water shed design.

CEILING

The ceiling shall be lined with a single piece of seamless white fiberglass USDA approved Kemlite that has a pebble finish for ease of cleaning, maximum light reflection, and lighter weight. The single piece design eliminates seams and plastic trim moldings that can trap dirt, bacteria, and eventually break.

WALLS

The walls shall be lined with a single piece of seamless white fiberglass USDA approved Kemlite that has a pebble finish for ease of cleaning, maximum light reflection, and lighter weight. The single piece design eliminates seams and plastic trim moldings that can trap dirt, bacteria, and eventually break.

WINDOWS

Two (2) double sloping, tinted, sliding windows will be located in the body interior, one each side. Windows to be 20" high x 46" long, and have extruded aluminum radius style frames. Window interior opening to be trimmed with an aluminum garnish molding. Windows to be equipped with sliding removable screens.

The windows shall be located in the forward portion of the body, behind the bench seats.

Two (2) windows shall be located in the forward portion of the body, one (1) each side behind the bench seats.

INTERIOR COMPARTMENT FEATURES

CABINET WITH SLIDING LUCITE DOORS (42" MAX WIDTH)

Five (5) .125" bright aluminum treadplate cabinet(s) will be provided. Doors to be double slide by type made of .188" thick clear "lucite" plastic with a full height extruded handle which also acts as a stiffener. Doors to be mounted in felt lined rattle proof aluminum extrusions. The top of the cabinet (if not full height) will have a 1.5" lip to retain equipment.

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Cabinets shall be provided as follows:

Two (2) shall be furnished on the curb side interior, starting from the rear of the body. Each cabinet shall measure 36" wide x 27" deep x full height.

Three (3) shall be furnished on the road side interior, starting from the rear of the body. Each cabinet shall measure 42" wide x 27" deep x approximately 24" high. There is to be 12" of clear area between the top horizontal surface of the cabinet and the ceiling.

Five (5) FULL-HEIGHT interior cabinets shall be provided as follows:

Two (2) shall be furnished on the curb side interior, starting from the rear of the body. Each cabinet shall measure 36" wide x 27" deep x full height.

Three (3) shall be furnished on the road side interior, starting from the rear of the body. Each cabinet shall measure 42" wide x 27" deep x approximately 24" high. There is to be 12" of clear area between the top horizontal surface of the cabinet and the ceiling.

ADJUSTABLE SHELVES, INTERIOR CABINETS

Three (3) adjustable shelves will be fabricated from .188" high strength 5052-H32 aluminum. The shelves are to have a bend both front and rear with one bend in the opposite direction so that the shelf is reversible to provide either a lip to retain equipment or a smooth sweep-out front.

For ease of adjustment and as additional shelving reinforcement, the shelves shall not be bolted directly to the standards but shall be supported by a angled gusset that in turn is fastened to the standards.

Heavy duty adjustable shelving standards will be furnished, one each side of cabinet. These standards are to be the infinitely adjustable type of 6061-T6 extruded aluminum.

Each cabinet that does not have a reel located in it shall be equipped with one (1) adjustable shelf.

Three (3) adjustable shelves shall be provided with one (1) shelf in each cabinet that does not have a reel.

MAP STORAGE CABINET WITH HINGED COUNTER TOP

There shall be a map storage cabinet 38" wide x 27" deep. Desk shall be 6" high at rear and slant downward to form a slanted work area. Desk top shall be of white formica with a 1" lip at front and shall hinge up to gain access to storage underneath.

The map/command desk shall be located on the curb side interior in the area between the bench seat and the rear body switch control panel.

One (1) map storage cabinet 38" wide x 27" deep.

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ACCESS RAIL, INTERIOR, CEILING MOUNTED

There shall be two (2) interior access rails mounted from the ceiling. Access rail shall be 1.25" diameter extruded aluminum tubing, with rubber grip inserts, in chrome plated end stanchions.

There shall be one (1) handrail mounted over each squad bench.

Two (2) handrails shall be provided, one (1) mounted over each squad bench.

WALKTHROUGH, BETWEEN CAB & BODY

A walkthru shall be installed between the back of the cab and the front of the body. There shall be a weatherproof "accordion" style billows installed to allow for flex between the cab and body. A step threshold plate of bright aluminum shall be provided at the floor of the walkthrough to protect the billows. Headbumpers to be included for both sides of the walkthrough. Walkthrough to be approximately 27" wide.

SQUAD BENCH, RECESSED

There shall be two (2) squad benches for seating three (3) personnel each. Bench to be equipped with a seat belt and retractor for each person. The seat to be 3" foam over .75" plywood and covered with heavy duty black vinyl. Back rest to be 1" thick foam over .75" plywood and covered with heavy duty black vinyl. To minimize aisle interference, the squad bench seats shall be recessed into a section of the exterior cabinets.

There shall be a warning label mounted in the interior of the unit:

"DANGER - PERSONNEL MUST BE SEATED AND SEATBELTS MUST BE FASTENED WHILE VEHICLE IS IN MOTION OR DEATH OR SERIOUS INJURY MAY RESULT."

Each bench seat shall be 72" long and shall be furnished at the front of the body, one each side directly across from one another. The benches will be recessed 15" into the front exterior compartments A, B, E, and F.

Two (2) squad benches each 72" long (for seating 3 people each) shall be furnished at the front of the body, one (1) each side directly across from one another. The benches will be recessed 15" into the front exterior compartments "A", "B", "E", and "F".

SCBA BRACKETS FOR SQUAD BENCH, RECESSED WITH HEADREST

The squad benches will be provided with six (6) brackets (three for each bench) to hold SCBA bottles. The SCBA bracket will include safety straps to secure bottles in place. The backrest will be built out flush on each side as well as on top of the SCBA bracket to provide comfortable seating. The seat back will be manufactured by Bostrom, Res-Q-Back 350 and will include the auto pivot & return headrest.

Six (6) SCBA brackets shall be provided and installed, three (3) for each interior squad bench.

HEATER, 40,000 BTU HOT WATER

There shall be a hot water automotive type, 40,000 BTU capacity. Heater to have twin fans with a Off-Hi-Low switch

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located at the rear control console. The water circulating system shall be routed in heavy duty Good Year "Hi-Miler" 5/8" heater hose, valved for summer or emergency shut-off.

AIR CONDITIONER

There shall be a air conditioner installed in the front of the body. A removable cover of bright aluminum treadplate shall be provided to conceal the A/C blower and hoses. Controls will be located on the air conditioning unit. This unit shall be a Red Dot #R9750-1 and capable of 17,000 BTU of cooling.

WIRING DIAGRAMS

Two (2) complete copies of the body electrical wiring diagrams shall be supplied with the unit.

Separate diagrams for the 12 volt DC and 120 volt AC (if applicable) electrical systems shall be provided. Diagrams shall be custom drawn for this specific apparatus. Generic wiring diagrams are not acceptable.

12 VOLT WIRING - MULTIPLEXING

All of the emergency electrical equipment shall be served by circuits separate and distinct from the vehicle circuits. Body wiring shall be thermo plastic harness type, GXL (125 degree Centigrade) color and number or function coded. The wiring shall be grease, oil and moisture resistant, routed in convoluted looms and in protected locations. Wires and looms shall be neatly and securely fastened, and all apertures properly grommited for passing wiring.

Solderless insulated crimp connectors shall be provided. Wire nut, insulation displacement, and insulation piercing connections shall not be used. All electrical connections that are exposed to the elements shall be of the heat shrink sealant type (**NO EXCEPTIONS**).

The body electrical shall incorporate a system for controlling the electrical devices of the vehicle. This system shall utilize a Controller Area Network (CAN) protocol providing multiplexing control signals for "real time" operation. It shall consist of several modules strategically located throughout the vehicle and interconnected via "twisted pair" control wiring. Each module shall be readily available for inspection or service. The multiplexed system shall consist of a universal System Manager Control Module that has a 4-line 19-character display for diagnostic purposes, Vocational Module, input/output switch modules and Power Distribution Modules (**NO EXCEPTION**).

A main controller junction area with a removable aluminum treadplate cover shall be located inside the front lower left compartment. The Universal System Manager Control Module shall be located in this area for ease of diagnostics, service, and troubleshooting. **NOTE: A temporary plexiglass cover shall be installed for the show season.**

A wiring trough shall be built into the upper body roof rail and above the exterior compartment doors. Easily removable panels shall be furnished to gain access to these wiring troughs.

MASTER DISCONNECT SWITCH

As per NFPA 1901, a master disconnect switch shall be provided between the starter solenoid(s) and the remainder of the apparatus electrical loads. The batteries shall be connected direct to the starter solenoid(s) and the alternator shall be wired direct to the batteries through the ammeter shunt(s) so as not to be wired through the master disconnect switch. A 200 amp power relay solenoid shall provide power for all of the body wiring. This circuit shall be controlled by a rocker

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switch mounted in the cab control console. The switch shall include a green indicator light.

BATTERY CONDITIONER

The vehicle shall be equipped with a Kussmaul Auto Charge 12, model #091-12-12 single battery conditioner. Output of the battery charger shall be 12 amps at intermediate charge. The battery conditioner shall be wired to the 120 volt shoreline inlet receptacle.

The battery conditioner shall be located on the fixed shelf in compartment A.

The battery conditioner shall be located on the fixed shelf in compartment "A".

AUTOMATIC SHORELINE DISCONNECT WITH SNAP COVER

A 120 volt Shoreline inlet shall be provided in the location specified. To eliminate broken cables which result when drivers forget to remove the shoreline, the inlet connector shall automatically eject the shoreline plug-in when the chassis engine is started. The automatic disconnect shall be a Kussmaul model #091-55-20-120 complete with a rear protective cover for the eject device and a weatherproof snap cover for the receptacle.

One (1) automatic shoreline inlet shall be provided and installed to the rear of the driver's door in the step area.

CAB CONSOLE PANEL

The console panel shall be centered on the cab dash, convenient for use by the driver or officer. Console shall have a removable cover for easy inspection and servicing.

Switches shall be the rocker type with built-in indicator light. Labeling for switch identification shall be engraved plastic labels. Labels shall be back lighted for night operation.

Switch layout shall be as follows:

1. Battery
2. Master Lights
3. Left Scene
4. Right Scene
5. Rear Scene
6. Spare
7. Spare
8. Low Voltage (light only)

The cab console switch layout shall be as follows:

1. Battery
2. Master Lights
3. Left Scene
4. Right Scene
5. Rear Scene
6. Spare

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7. Spare
8. Low Voltage (light only)

MASTER WARNING LIGHT SWITCH

A master warning light switch shall be provided on the cab switch console. The switch shall permit preselection of the emergency warning lights so that all warning lights can be turned on simultaneously through the sequencer/load manager.

There shall also be an interlock provided with the parking brake to change the visual warning to indicate "BLOCKING RIGHT OF WAY" mode.

SPARE ROCKER SWITCH

Two (2) additional rocker switches shall be provided in the control panel for future use.

Two (2) additional rocker switches shall be provided in the control panel for future use.

LAMP SEQUENCER/LOAD MANAGER

A Class 1 lamp Sequencer/Load Manager shall be furnished and installed to sequentially switch "on" or "off" up to twelve (12) 12 volt loads at 1/2 second intervals.

In case of a low voltage situation, the system will shed the selected load until the proper voltage is maintained. After the voltage is stabilized the lights will then again switch on sequentially.

LOW VOLTAGE ALARM

An audible alarm and visual warning light will be installed in the cab to alert of a low voltage situation. The alarm and light will be activated when the voltage at the batteries or at the master load disconnect switch drops below 11.8 volts for more than 120 seconds.

REAR BODY CONSOLE PANEL

There shall be a console panel at the curb side counter area. This console shall have rocker type switches that are back lighted and labeled as to their function.

The console shall be located in the area between the lucite cabinets and the map desk on the interior wall.

Switch layout shall be as follows:

1. Dome Lights
2. Red Lights
3. Heater (Low-Off-High)
4. Spare

The rear body console shall be located on the curb side. The switch layout shall be as follows:

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1. Dome Lights
2. Red Lights
3. Heater (Low-Off-High)
4. Spare

RUNNING LIGHTS

Body shall be equipped with all lighting and reflectors as required by Federal Motor Vehicle Safety Standards.

Clearance lights around the roof perimeter shall have chrome guards for added protection.

A chrome license plate light shall be provided.

STOP, TAIL, AND TURN LIGHTS

One (1) rectangular Weldon #2-2000-1100 amber arrow light each side of body for turn signals.

One (1) rectangular Weldon #1-2010-1120 red light each side of body for stop and tail.

BACKUP LIGHTS

One (1) Weldon #3-2010-1100 white light each side of body for the backup light, wired to the reverse circuit of the truck transmission.

COMPARTMENT LIGHTS

Each compartment shall have two (2) 4" Arrow #130 round dome lights with a Lexan lens and stainless steel trim bezel. Lights to be mounted to the inside face of the compartment doors, one high and one low, and be automatically activated when the door is opened. Double door compartments will have one (1) the first door open and one light low on the second door. The pencil switch for this circuit shall be recessed inside the door to protect it from damage and include a weatherproof rubber boot over the exposed plunger. The lights shall be recessed into the door pan so as to be protected from damage. Wiring to be routed in black split loom for protection. Dome light to be positioned so as to light up the entire compartment as well as the area around the outside of the compartment.

Lights mounted on ceiling or shelves are not acceptable due to potential damage to lights from equipment stored in compartments, and for safety because the light may be blocked by equipment or other shelves in compartment.

Each compartment shall have two (2) lights, one (1) high and one (1) low.

DOOR AJAR INDICATOR LIGHT

There shall be a flashing red "do not move apparatus when light is on" indicator light in the cab to indicate that a cab door, entrance door, or compartment door is not in the closed position. Light will only illuminate when the parking brake is not fully engaged.

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LIGHT IN ENGINE COMPARTMENT

One (1) surface mounted 5" diameter dome light shall be provided in the engine compartment. Light is to be switched at the light itself. The light shall be spaced so as to provide the best possible lighting within the compartment.

INTERIOR DOME LIGHTS

There shall be a total of six (6) 12 volt 7" clear dome lights flush mounted in ceiling. On-off switch shall be located at the rear control console.

Four (4) dome lights will have clear lenses and the 2nd and 5th lights shall have red lenses. There shall be individual switches for each color light.

The red dome Lights are to be activated when the rear entrance door is opened.

Six (6) 12 volt 7" clear dome lights flush mounted in ceiling. On-off switch shall be located at the rear control console.

Four (4) dome lights will have clear lenses and the 2nd and 5th lights shall have red lenses. There shall be individual switches for each color light.

The red dome Lights are to be activated when the rear entrance door is opened.

STEP LIGHTS

There shall be two (2) recessed lights at the rear entrance door. Lights shall be automatically activated by the entrance door.

OPTI-SCENE LIGHT SERIES 97

Six (6) scene lights shall be provided in the locations specified. Lights will be Whelen model 9EOCAOZU, 8-32 degree without flange, and switched in the cab.

The scene lights shall be located two (2) on the upper road side, two (2) on the upper curb side, and two (2) on the upper rear of the body. The scene lights are to be located directly below the Power Arc warning lights.

Six (6) Whelen #9EOCAOZU scene lights shall be located as follows:

Four (4) on the upper body, two (2) on the road side and two (2) on the curb side.

Two (2) on the upper rear of the body.

NOTE: The scene lights are to be located directly below the Power Arc warning lights.

GROUND/STEP LIGHTS

Trucklite model #40024 ground lights will be installed under each stepping surface. Lights will be mounted under the rear

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step, and each entrance door. The lights under the entrance doors shall be activated when the doors are opened and the remaining lights shall be switched together at the cab control console.

CONDUIT LINE

There shall be four (4) 7/16" inside diameter flexible conduit lines.

The lines shall be located as follows:

- One (1) from map desk to cab.
- One (1) from map desk to compartment A junction box.
- Two (2) from roof to map desk area.

Four (4) conduit lines shall be located as follows:

- One (1) from map desk to cab.
- One (1) from map desk to compartment "A" junction box.
- Two (2) from roof to map desk area.

12 VOLT WIRING FOR HANDLIGHTS

Wiring shall be provided behind each squad bench for future handlight installation.

Wiring shall be provided behind each squad bench for future handlight installation.

BACK UP ALARM

An electronic back up alarm shall be hooked up to the vehicle back up circuit. The alarm shall have a 97 DB rating.

SIREN

A Code 3 V-Con model #3692 full feature siren shall be provided and installed. Siren to be mounted under or on the cab dash where space permits. Siren to be provided with a hard wire microphone for use with the siren PA feature.

SIREN SPEAKER

A Code 3 model PS-100 undercover 100 watt speaker shall be installed and wired to the siren.

WARNING LIGHT PACKAGE, POWER ARC

The vehicle shall be equipped with a Fire Products Company "Power Arc" warning light system. Lights are to be mounted as follows:

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Front upper face of body

Two (2) #PA180S Red lights
Two (2) #PA180 Clear lights
Two (2) #PA105H Blue lights

The lights are to be evenly spaced across the front face of the body (there will not be a light bar). The color of the lenses from curb side to road side shall be Red-Clear-Blue-Blue-Clear-Red.

Front of cab

Two (2) #PA210 Red lights with 3/4" hood adaptors (#FP-1061) mounted on the cab grille, one each side in upper corners.

Upper body sides

Four (4) #PA180S Red lights, two (2) each side in front and rear corners.

Lower body sides

Four (4) #PP4 Red LED lights, two (2) each side on bumper extension and in forward portion of rear wheel well.

Rear of body

Two (2) #PA180S Red lights in upper corners, one (1) each side.
Two (2) #PA210 Red lights in lower level above directionals, one (1) each side.

The vehicle shall be equipped with a Fire Products Company "Power Arc" warning light system. Lights are to be mounted as follows:

Front upper face of body

Two (2) #PA180S Red lights
Two (2) #PA180 Clear lights
Two (2) #PA105H Blue lights

The lights are to be evenly spaced across the front face of the body (there will not be a light bar). The color of the lenses from curb side to road side shall be Red-Clear-Blue-Blue-Clear-Red.

Front of cab

Two (2) #PA210 Red lights with 3/4" hood adaptors (#FP-1061) mounted on the cab grille, one each side in upper corners.

Upper body sides

Four (4) #PA180S Red lights, two (2) each side in front and rear corners.

Lower body sides

Four (4) #PP4 Red LED lights, two (2) each side on bumper extension and in forward portion of rear wheel well.

Rear of body

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Two (2) #PA180S Red lights in upper corners, one (1) each side.

Two (2) #PA210 Red lights in lower level above directionals, one (1) each side.

120 VOLT WIRING & BREAKER PANEL

All 120 volt wiring shall be run in protective looms. The loom shall have a minimum temperature rating of 148 degree Centigrade (No exceptions). All junction boxes, etc. shall have removable inspection covers. Body wiring shall be thermo plastic harness type, GXL 125 degree Centigrade color and number or function coded.

All electrical equipment shall be circuit breaker controlled from a breaker control panel in compartment A.

A power source specification label shall be permanently attached near the breaker box. The label shall provide the operator with the following information:

- Rated voltage and type
- Phase
- Rated frequency
- Rated Amperage
- Continuous rated watts
- Power source engine speed

GROUNDING CABLE & CLAMP

There shall be a grounding cable and grounding stake located in the same compartment as the circuit breaker panel. The grounding cable shall be a 24' long #4 insulated welding type cable for easy handling and flexibility in cold weather. The cable shall have an AC current grounding capacity of 100 amps.

Four (4) clips shall be furnished on the generator compartment door so that the cable can be wrapped around the clips for easy storage. The end of the cable shall be furnished with a heavy alligator type clamp for quick connection to a ground source or the grounding stake.

The grounding stake shall be copper plated steel and be approximately 48" long. Storage tube shall be provided for the grounding stake inside the compartment.

All electrical equipment shall be circuit breaker controlled from a breaker control panel in compartment "A".

TRANSFER SWITCH, 120V, SHORELINE & GENERATOR

One (1) transfer switch shall be furnished and wired between the generator and the shoreline. The transfer switch will be wired to the electrical items specified. This will provide power to the selected 120 volt items from either the generator or the shoreline. Precautions will be installed so as to prevent back feed into shoreline in case the generator is turned on.

The transfer switch will provide power to the fluorescent lights and the interior receptacles.

One (1) transfer switch will provide power to the fluorescent lights and the interior receptacles.

GENERATOR - ONAN 25 KW PTO DRIVEN

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The vehicle shall be equipped with an Onan model #25YD-CR/621 generator. The capacity to be 25 KW, 120/240 volts, single phase at 1800 RPM.

The generator is driven by the chassis engine VIA a "HOT SHIFT" power take off unit from the chassis transmission. Power take-off engagement control to be located in cab, and identified by name plate. A 3 second delay feature shall be built into the system to allow smooth shifting of the PTO before engine acceleration. There shall be a warning light in the cab to indicate when the PTO is engaged. An additional green light will be installed in the cab and marked "Generator PTO operational".

The drive shaft between the generator and the power take-off shall be a tubular type, minimum outside diameter of 2" with a minimum wall thickness of .083. It shall have Spicer #1280 U-joints and be dynamically balanced to insure vibration free performance. NOTE; Solid bar stock type drive shafting is unacceptable. The drive shaft shall have a slip yoke with a minimum of 1.5" travel so that it can be easily removed. Tube shall be D.O.M. (Drawn over Mandrel) made for drive shafts.

They shall be electrically MIG welded by a certified welder on a specially designed drive shaft fabrication machine. After welding, the drive shaft shall be checked for straightness and dynamically balanced by computerized machinery. All drive shafts shall be balanced. (No exceptions.)

Wiring from the generator to the circuit breaker panel shall be routed in liquid tite conduit.

The generator will be wired with interlocks that will only allow the generator to operate when the transmission is in the neutral shift position and the parking brake is on. Chassis is to remain "parked" while the generator is engaged as this system is not designed to provide 120 volt power while under way.

GENERATOR CONTROL PANEL

There shall be a Fire Research FROG-D waterproof digital instrument cluster display to show the vital statistics of the generator. The FROG-D will display Frequency, Current Draw per line, Voltage and total accumulated High Temperature & Run Time Hours.

A green light with the appropriate label will be installed near the display to indicate that the PTO is engaged. The display shall be located near the 120/240 current breaker panel.

GENERATOR LOAD TEST

The generator shall be load tested at the body builders facility. The generator shall be tested at various loads, from no load to full load to ensure reliable power delivery at various loads. The department shall be given a certificate proving completion of this test. The test shall last for two (2) hours and shall be completed after the generator has been installed on the apparatus.

OUTLET, INTERIOR

Four (4) 120 volt AC duplex outlets shall be furnished and located as directed by the purchaser. The outlets shall be flush mounted inside a cast aluminum outlet box. The receptacle shall be labeled with a permanent nameplate listing the voltage, type of current, phase and amp rating. Wiring to the outlets shall be routed in liquid-tite type conduit.

The outlets will be furnished two (2) on the curb side and two (2) on the road side interior.

Four (4) outlets will be furnished two (2) on the curb side and two (2) on the road side interior.

2000 MARION DEMO RESCUE SQUAD

120 VOLT OUTLETS

Two (2) 120 volt AC outlets shall be furnished, located as directed by the purchaser. The outlets shall be mounted inside a cast aluminum outlet box, flush mounted to the body side. The receptacle shall be labeled with a permanent nameplate listing the voltage, type of current, phase and amp rating. A weatherproof snap cover shall be provided. Wiring to the outlets shall be routed in liquid-tite type conduit.

Two (2) NEMA L5-20 outlets will be provided, one in each rear wheel well area.

Two (2) 120 volt outlets NEMA #L5-20 will be provided, one (1) in each rear wheel well area.

240 VOLT OUTLETS

One (1) 240 volt AC outlet shall be furnished, located as directed by the purchaser. The outlet shall be mounted inside a cast aluminum outlet box, flush mounted to the body side. The receptacle shall be labeled with a permanent nameplate listing the voltage, type of current, phase and amp rating. A weatherproof snap cover shall be provided. Wiring to the outlet shall be routed in liquid-tite type conduit.

The outlet shall be provided on the lower wall of compartment F. Outlet to be NEMA L6-30.

One (1) 240 volt outlet NEMA #L6-30 shall be provided on the lower wall of compartment "F".

LIGHT, 120 VT FLUORESCENT, RECESSED

There shall be three (3) Crescent model #SM-220 fluorescent light(s) with two (2) 20 watt bulbs recessed flush in the ceiling. Lights shall be 24" long and covered by a clear plastic panel.

The lights shall be mounted over the interior walkway, evenly spaced.

Three (3) fluorescent lights shall be mounted over the interior walkway, evenly spaced.

LIGHT FLUORESCENT, NON RECESSED

There shall be one (1) Crescent model #NLT-228 fluorescent light with two (2) 20 watt bulbs surface mounted on ceiling. Lights to be 24" long and controlled by a switch located next to rear entrance door.

The light shall be furnished above the map desk on the curb side interior.

One (1) fluorescent light shall be furnished above the map desk on the curb side interior.

TELESCOPING QUARTZ LIGHTS

There shall be two (2) Extenda-Lite #E-1500/240V-SM-PS-WO bottom raise telescoping 1500 watt quartz lights installed. Lights to be switched from the circuit breaker panel. The bottom of the light pole will fit into a retaining bracket to prevent the pole from bending in the event it is used as an access rail.

2000 MARION DEMO RESCUE SQUAD

The lights shall be furnished on the front face of the body, one (1) each side.

Two (2) 1500 watt telescoping lights shall be furnished on the front face of the body, one (1) each side.

TELESCOPING TRIPOD QUARTZ LIGHT

When specified there shall be two (2) Extenda-Lite #E-500-POD telescoping tripod, 500 watt quartz light(s) installed. Lights to be switched from the circuit breaker panel. The light pole will fit into quick release brackets, #POD-Brackets so it can be easily removed from the vehicle and used for portable applications.

The light shall be furnished with a plug to match the outlet on the body. A 120 volt AC outlets shall be furnished and mounted inside a cast aluminum outlet box, flush mounted to the body side. The receptacles shall be labeled with a permanent nameplate listing the voltage, type of current, phase and amp rating. A weatherproof snap cover shall be provided. Wiring to the outlet(s) shall be routed in liquid-tite type conduit.

The lights shall be provided at the rear, located one (1) each side on the inner beavertail walls.

Two (2) 500 watt tripod quartz lights shall be provided at the rear, located one (1) each side on the inner beavertail walls.

ELECTRIC CORD REEL

There shall be one (1) Hannay #ECR 1616-17-18 cord reel(s) mounted in the compartment(s) specified. The color of the reel shall be red.

The reels shall be equipped with a 12 volt DC electric rewind motor. A guarded push button switch, no higher than 72" from the ground, shall be located next to the reel to activate the rewind motor. A label will be provided next to the rewind switch that states the reel type.

To aid in pulling off and rewinding the cord, there shall be a Hannay model EH 715 roller guide mounted on the inside of the compartment door closest to the reel. The guide shall have bottom and side rollers but be open on the top so the cord can be lifted out from the roller guide unit. The roller guide will be mounted on a bracket that allows the guide to be folded out of the way with one hand when not in use.

A label shall be provided in a readily visible location near reel. The label shall indicate:

- Current rating
- Current type
- Phase
- Voltage
- Total cable length

The cord reel shall be located above the ceiling of compartment H in the body interior, as far forward as possible without extending into compartment G.

The reel will be supplied with four conductors for future 240 volt service.

One (1) electric cord reel shall be located above the ceiling of compartment "H" in the body interior, as far forward as possible without extending into compartment "G".

2000 MARION DEMO RESCUE SQUAD

The reel will be supplied with four (4) conductors for future 240 volt service.

10/3 BLACK SO CORD

Two Hundred (200) feet of 10/3 black SO cord will be provided on the reel.

200 feet of 10/3 black SO cord will be provided on the reel.

ELECTRICAL DISTRIBUTION BOX

There shall be a total of one (1) Circle D model PF-51G four (4) outlet connection box(es) provided with one attached to the end of the electric cord reel(s) specified. Box to include a signal light and four (4) outlets with weather-proof snap covers. A mounting bracket shall be furnished on the inside of the compartment door where the cord reel is mounted to hold the connector box.

PROVISIONS FOR HYDRAULIC REEL

Ceiling mounts and 12 volt wiring will be provided in compartment "F" for the future installation of a hydraulic reel.

Ceiling mounts and 12 volt wiring will be provided in compartment "F" for the future installation of a hydraulic reel.

AIR HOSE REEL

There shall be one (1) Hannay E-1514-17-18 air reel mounted in the compartment(s) specified. The color of the reel shall be silver.

The reel shall be equipped with a 12 volt DC electric rewind motor. A guarded push button switch, no higher than 72" from the ground, shall be located next to the reel to activate the rewind motor. A label will be provided next to the rewind switch that states the reel type. For safety this circuit shall be wired through the battery switch so the reel cannot be rewound when the battery switch is turned off.

To aid in pulling off and rewinding cord there shall be a Hannay model EH 715 roller guide mounted on the inside of the compartment door closest to the reel. The guide shall have a bottom and side rollers but be open on the top so the cord can be lifted out from the roller guide unit. The roller guide will be mounted on a bracket that allows the guide to be folded out of the way with one hand when not in use.

A label shall be provided in a readily visible location near reel. The label shall read "Utility Air and indicate:

- Operating pressure
- Total hose length
- Hose size (ID)

The reel shall be located above the ceiling of compartment D in the body interior.

One (1) air hose reel shall be located above the ceiling of compartment "D" in the body interior.

AIR SUPPLY, LOW PRESSURE, 150 PSI

2000 MARION DEMO RESCUE SQUAD

An air pressure gauge, and shut-off valve will be installed near reel. This low pressure system will be piped from the chassis air system and will include a check valve to prevent air loss to chassis brake system.

AIR HOSE

130 feet of 3/8" air hose will be provided for the reel.

130 feet of 3/8" air hose will be provided for the reel.

REEL, INTERIOR COMPARTMENT

The specified reels will be located in the interior of the body and will be enclosed in a .13 aluminum diamondplate cabinet. Cabinet will have a diamondplate door which is screwed onto to face of the cabinet and will allow easy access to reel in case service is needed.

A Hannay 4-way roller guide will be installed in ceiling of compartment. This will guide the cord into the exterior compartment for use on the outside of truck.

Both the cord reel and air reel will be installed in the interior.

Both the cord reel and air reel will be installed in the interior.

MISCELLANEOUS EQUIPMENT

The following equipment items listed shall be furnished by the body builder with the apparatus. All equipment shall be shipped loose unless otherwise specified.

NFPA REQUIRED ITEMS

It shall be the purchaser's responsibility to provide all equipment items required by NFPA 1901 that are not otherwise addressed in these specifications. These items shall be installed on the apparatus prior to it being put into active service.

MARION 19 FT RESCUE SQUAD

CHASSIS SPECIFICATIONS

DEMO 2000

VEHICLE SPECIFICATIONS
4900 4X2

CODE	DESCRIPTION	WEIGHT
SA49540	BASE CHASSIS, Model 4900 4X2 with 206" Wheelbase, 138.0" Cab to Axle and 75" Axle to frame	8,360
01540	FRAME REINFORCEMENT, SPECIAL Full "C" Channel; Heat Treated Alloy Steel (110,000 PSI Yield) 10.72" x 3.31" x0.25" x 312.6" OAL, Used with Integral Front Frame Extension	118
01570	TOW HOOK, FRONT (2) Frame Mounted.	8
01680	FRAME EXTENSION, FRONT Integral; Heat Treated Alloy Steel (110,000 PSI Yield) 20" in Front of Grille with 313.30" Maximum Rail Length	105
01ABP	FRAME RAILS Heat Treated Alloy Steel (110,000 PSI Yield); 10.125" x 3.062" x 0.312"; 178" thru 206" WB with 75" Maximum AF	301
01GAW	FRAME REINFORCEMENT Full Outer "C" Channel, Heat Treated Alloy Steel (110,000 PSI Yield); 10.720" x3.310" x 0.250"; Extends to Rear of Frame; 178" thru 206" WB	681
01LLA	BUMPER, FRONT Steel, Swept Back	75
02ADD	AXLE, FRONT, I-BEAM TYPE {International I-120SG} 12,000-lb Capacity	209
03ACG	SUSPENSION, FRONT, SPRING Multileaf, Shackle Type; 12,000-lb Capacity; With Shock Absorbers INCLUDES: : SPRING PINS 1.25" Diameter Smooth Pin with Annural Lube Groove	104
04091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications INCLUDES: : BRAKE CHAMBERS, SPRING (2) Rear Parking : DUST SHIELDS, FRONT BRAKE : DUST SHIELDS, REAR BRAKE : AIR COMPRESSOR AIR SUPPLY LINE Through Air Cleaner : BRAKE LINES Color Coded Nylon : SLACK ADJUSTERS, FRONT Automatic : SLACK ADJUSTERS, REAR Automatic : DRAIN VALVE Twist-Type : INVERSION VALVE and Double Check Valve	100
04185	BRAKES, FRONT, AIR CAM S-Cam; 16.5" x 5.0"; Includes 20 Sq. In. Brake Chambers	121
04273	BRAKES, REAR, AIR CAM S-Cam; 16.5" x 7.0"; Includes 30 Sq. In. MGM Spring Actuated Parking Brake Chambers	200
04AZA	AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel)	30
04EAH	AIR DRYER {Bendix AD-9} With Heater, Standard Location	41
04SBC	AIR COMPRESSOR {Bendix Tu-Flo 550} 13.2 CFM	46
05710	STEERING COLUMN Tilting and Telescoping	10

VEHICLE SPECIFICATIONS
4900-4X2

CODE	DESCRIPTION	WEIGHT
05CAL	STEERING WHEEL 2-Spoke, Black; 18" Diam.	0
05PSA	STEERING GEAR {Sheppard M-100} Power	25
07AAY	EXHAUST SYSTEM Single, Horizontal Muffler and Short Tail Pipe, Aluminized Steel; Frame Mounted Right Side	0
08000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment INCLUDES: : TURN SIGNAL SWITCH Self-Cancelling with Integral Hazard Switch : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Switch : FUSES, ELECTRICAL SAE Blade-Type : HEADLIGHTS (2) Sealed Beam, 5" X 7" Rectangular : HORN, ELECTRIC Single : JUMP START STUD : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light : STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector : STARTER SWITCH Electric Key Operated : TURN SIGNALS, FRONT Flush Mounted Include Reflectors and Auxiliary Side Turn Signals; : WIRING, CHASSIS Color Coded and Continuously Numbered : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted	0
08518	CIGAR LIGHTER	1
08630	IGNITION SWITCH Keyless	0
08GDA	ALTERNATOR {Leece-Neville 4864JB} 12 Volt 270 Amp. Capacity With Self Diagnostic Regulator System; Includes 1-Gauge Charging Circuit	0
08MED	BATTERY SYSTEM {Fleetrite} Maintenance-Free (2) 12-Volt 110CCA Total INCLUDES: : BATTERY BOX Steel; Mounted Left Side, Under Cab	0
08RDC	RADIO {Panasonic CRW200B} AM/FM Stereo, With Weather Band; 4 Channel At 15 Watts Each, With Electronic Tuning and Clock, Includes Multiple Dual-Cone Speakers INCLUDES: : SPEAKERS IN CAB (2) Dual-Cone	6
08WAU	WINDSHIELD WIPER SWITCH Intermittent; for Electric Wipers	0
08WDH	INDICATOR, LOW OIL PRESSURE / HIGH COOLANT TEMPERATURE; Light and Audible Alarm; Electronic Controlled	0
08WMV	COURTESY LIGHT (2) Mounted on Door Hinge Pillars	0
08WMY	ENGINE COMPARTMENT LIGHT (2) With Integral Switches	0
08WNK	POWER DISTRIBUTION PANEL LIGHT	0
08XAA	TURN SIGNAL FLASHER {Dualtec} for Straight Truck Application	0

VEHICLE SPECIFICATIONS
4900 4X2

CODE	DESCRIPTION	WEIGHT
08XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III With Trip Indicators, Replaces All Fuses Except For 5-Amp Fuses	0
09107	FRONT END Tilting, Fiberglass INCLUDES: : MUD FLAPS, INTERMEDIATE MOUNT (2)	0
09572	GRILLE Stationary: Less T444E Engine With PTO	3
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100 INCLUDES: : PAINT SCHEMATIC ID LETTERS "AG"	0
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone	0
11001	CLUTCH Omit Item (Clutch & Control)	0
12851	PTO EFFECTS, ENGINE FRONT Less PTO Unit, Includes Adapter Plate on Engine; Less T444E Engine; Front Mounted	10
12885	GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} Mounted in Instrument Panel	1
12NMU	ENGINE, DIESEL {International DT530E 50 State 300 HP @ 2000 RPM, 860 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, Includes #2 Bell Housing INCLUDES: : STARTING MOTOR 37MT : STARTING MOTOR 41MT : AIR CLEANER with Vacuator : ENGINE SHUTDOWN Electric, Key Operated : ENGINE OIL DRAIN PLUG Magnetic : OIL FILTER, ENGINE Spin-On Type : WATER FILTER Engine Mounted : FUEL FILTER Engine Mounted	150
12TKM	FAN DRIVE {Kysor Series 8000} With Front Tether Air Inlet and With Nylon Fan; Use With International DT 466 & 530 Engines	-6
12UGM	GOVERNOR Electronic Road Speed Type; With 62 MPH Default; Not With Bus	0
12UUM	RADIATOR Welded, Down Flow, Series System, 768 SqIn Area With High Performance Core and 692 SqIn Charge Air Cooler INCLUDES: : ANTI-FREEZE -20F (-29C) : DEAERATION SYSTEM with Remote-Mounted Translucent Overflow Bottle : RADIATOR HOSES Premium, Rubber	0
12VVN	CRUISE CONTROL Electronic	0
12VWV	THROTTLE, HAND CONTROL Electronic; Omit Item	0
13ABB	TRANSMISSION, AUTOMATIC {Allison MD-3060P} Close Ratio, 5-Speed; With PTO Gear and Less Retarder	154

VEHICLE SPECIFICATIONS
4900 4X2

CODE	DESCRIPTION	WEIGHT
13WTE	ALLISON WT SPARE INPUT/OUTPUT for Fire Truck/Emergency Vehicles	0
14036	AXLE, REAR, SINGLE {Spicer J210-S} Single Reduction 21,000-lb Capacity, With 190 Wheel Ends Gear Ratio: 5.11 INCLUDES: : REAR AXLE DRAIN PLUG (1) Magnetic	59
14SAN	SUSPENSION, RR, SPRING, SINGLE Vari-Rate; 23,500-lb Capacity,	35
14SZB	SPRINGS, REAR AUXILIARY Multileaf; 4,500-lb Capacity	80
15SAC	FUEL TANK Top Draw; Rectangular, Steel, 50 U.S. Gal., 189 L Capacity With Center Step; 15.0" Tank Depth, Mounted Right Side, Under Cab	0
16030	CAB Conventional, Steel, 80" Wide INCLUDES: : ARM REST (2) Molded Plastic, Charcoal; One Each Door : FLOOR COVERING Rubber, Black : INTERIOR SHEET METAL Painted, Color Based on the Window Ledge Color of the Exterior : CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets and Retainer Nets and CB Radio Pocket with Cover; Pearl Gray with Black Pockets : COAT HANGER Located in Cab : ASH TRAY Instrument Panel Mounted : CLEARANCE/MARKER LIGHTS (5) Flush Mounted	0
16660	GLASS, ALL WINDOWS Tinted	0
16CCB	COLOR, INTERIOR Pearl Gray	0
16GAX	MIRRORS (2) {Re-Trac 1157} Rectangular, West Coast Type, Retractable, Stainless Steel, 16" x 7" Size, 102" Spacing, less Heating Element	0
16HAA	GAUGE CLUSTER English with English Electronic Speedometer and with Tachometer for Air Brake Chassis INCLUDES: : GAUGE, ENGINE OIL PRESSURE Electronic : GAUGE, WATER TEMPERATURE Electronic : VOLTMETER	0
16HJC	GAUGE PACKAGE Includes Hourmeter and Oil Temperature Gauge (Automatic Transmission)	2
16KGC	SEAT, DRIVER {National Cush-N-Aire Model 295} Air Suspension, Intermediate Back, Vinyl With Printed Vinyl Insert, Isolated, With 2-Position Front Cushion Adj., Minus 2-Degree to Plus 15-Degree Seat Back Adjustment; Mechanical Lumbar Support and Storage Pocket On Seat Back INCLUDES: : SEAT BELT 3-Point, Lap and Shoulder Belt Type	9
16RMC	SEAT, PASSENGER {National Static 292} Non-Suspension,	28

VEHICLE SPECIFICATIONS
4900 4X2

CODE	DESCRIPTION	WEIGHT
	Intermediate Back, Vinyl With Printed Vinyl Inserts, With 11-Degree Fixed Back INCLUDES: : SEAT BELT 3-Point, Lap and Shoulder Belt Type	
16WDU	STORAGE POCKET, DOOR Molded Plastic; Half-Width, Mounted on Passenger Door	0
16WKB	AIR CONDITIONER {International Blend-Air} With Integral Heater & Defroster INCLUDES: : HEATER HOSES Premium : REFRIGERANT Hydrofluorocarbon HFC-134A	60
16WRB	CAB INTERIOR TRIM Deluxe INCLUDES: : "A" PILLAR COVER Molded Plastic, Pearl Gray : HEADLINER Printed Vinyl : INSTRUMENT PANEL TRIM Molded Plastic, Pearl Gray Upper, Black Lower with Cup Holder Molded into the Upper Area of the Instrument Panel Cover : DOME LIGHT, CAB Rectangular Center Mounted with Integral Swiveling Map Light, Door Activated; : SUN VISOR (2) Padded Vinyl with Toll Ticket Strap : CAB INTERIOR TRIM PANELS Vinyl, Half-Height : DOOR TRIM PANELS Vinyl with Printed Vinyl Insert	0
16WSE	LOW WASHER FLUID INDICATOR	0
16ZAA	ACCESS, CAB Driver & Passenger Sides INCLUDES: : GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side : STEP (4) Two on Each Side	0
27DMA	WHEELS, FRONT DISC; 22.5" Painted Steel, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With Steel Hubs. INCLUDES: : WHEEL SEALS, FRONT Grease Lubricated, Includes Wheel Bearings : PAINT IDENTITY, FRONT WHEELS White	0
28DMA	WHEELS, REAR DUAL DISC; 22.5" Painted Steel, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With Steel Hubs INCLUDES: : WHEEL SEALS, REAR Oil Lubricated, Includes Wheel Bearings : PAINT IDENTITY, REAR WHEELS White	0
7302690179	TIRE, FRONT (2) 11R22.5 UNISTEEL G159 (GOODYEAR) 501 rev/mile, load range G, 14 ply	30
7352130192	TIRE, REAR (4) 11R22.5 UNISTEEL G124 (GOODYEAR) 499 rev/mile, load range H, 16 ply	104
808TLZ	BATTERY DISCONNECT SWITCH {Cole-Hersee 2484-18} Positive Type,	0

VEHICLE SPECIFICATIONS
4900 4X2

CODE	DESCRIPTION	WEIGHT
	Mounted on Cab Floor.	
816TBJ	GRAB HANDLE (2) Towel Bar Type Anti-Slip Rubber Inserts; for Cab Entry (Lt & Rt)	0
	CAB SCHEMATIC 100AG Location 1: 9219 WHITE	
	FURNISH (1)SET OF PARTS & SERVICE MANUALS	0
	FURNISH & INSTALL CHROME FRONT BUMPER	0
	FURNISH & INSTALL PAINTED WHITE EXTERIOR SUN VISOR	0

The weight calculations included in this proposal are an estimate of future vehicle weight. The actual weight as manufactured may be different from the estimated weight. Navistar International Transportation Corp. shall not be liable for any consequences resulting from any difference between the estimated weight of a vehicle and the actual weight.

QUOTATION

Marion Body Works, Inc.

2000 MARION DEMO RESCUE SQUAD
 JOB #60234
 RS-19' RESCUE SQUAD
 DRAWING #98019930

Ship To:

Exp. Date: 09/12/99
 Quote No: RN-01-116

BODY: 20-RS18-CO 18' Rescue Squad, Commercial Chassis

02/12/01

Page 1

DESCRIPTION	QTY	ID
BODY===== BODY ===== BODY	1	MBW
RS-19' Walk-In Rescue Squad, Commercial Chassis	1	MBW
Approval Drawings (STD-R)	1	MBW
Performance Requirements	1	MBW
Chassis Modifications	1	MBW
Chain Box W/ Door In Bumper Extension	2	MBW
Two (2) chain boxes shall be provided one (1) each side on the outside of the frame rails. The chain boxes shall be approx. 10" wide x 18" long x 11" deep.		
Bumper Guides, W/Amber Lights	1	MBW
Winch, Ramsey Re-12000 Lb Frt Bumper	1	MBW
One (1) 12,000 lbs. front winch shall be provided in the front bumper extension centered between the frame rails.		
Cab Step W/ Roll Out Bat. Tray (Int&GMC)	1	MBW
Fuel Tank Cover For Chassis Step Tank	1	MBW
Grip Strut Insert, Cab Steps	2	MBW
Grip strut shall be installed in both cab steps.		
Fuel Tank Label, Commercial Chassis (STD)	1	MBW
Air Inlet/Outlet Combination	1	MBW
One (1) chassis air inlet/outlet combination shall be provided and installed to the rear of the driver's door in the step area.		
Horns, Dual Grover #1510 W/Floor Buttons	1	MBW
Two (2) Grover air horns shall be provided and installed on the inside of the frame rails, one (1) each side of the winch.		
Seating Restriction Label (STD)	1	MBW
The seating restriction label shall be for eight (8).		
Chassis Exhaust, Rescues (STD)	1	MBW
Chrome Exhaust Extension, 45 Degree	1	MBW
Rear Tow Eyes, Rescue (STD)	1	MBW
The rear tow eyes shall be painted black.		
Rear Spring Shackle Access	1	MBW
Fluid ID Plate	1	MBW

DESCRIPTION	QTY	ID
Overall Height Nameplate	1	MBW
Chain On Ignition Key (STD)	1	MBW
Mudflaps, Rear	1	MBW
Mudflaps, Front	1	MBW
Wheel Covers(4), Stainless Steel	1	MBW
"Real Wheel" bright stainless steel wheel covers shall be installed on the front chassis wheels. Rear stainless steel wheel liners and high hat hub and nut covers shall be furnished for the rear outer wheels.		
Body Specification	1	MBW
Body Construction (STD-R)	1	MBW
Crossmembers (STD-R)	1	MBW
Uprights (STD-RS)	1	MBW
Roof Rafters (STD-R)	1	MBW
Roof and Corner Posts (STD-R)	1	MBW
Skin (STD-R)	1	MBW
Roof (STD-R)	1	MBW
Insulation (STD-R)	1	MBW
Rubrails, Stainless Steel - Rescues	1	MBW
Stone Shields, Full Ht Front Of R/Rs	1	MBW
Stone Shields, Full Ht Rear Of R/Rs	1	MBW
Roof Perimeter Branch Guards & Corners For R/RS	1	MBW
Fenders (STD)	1	MBW
Fenderettes (STD)	1	MBW
Fender Panels (STD)	1	MBW
Spring Schackle Clearance (STD)	1	MBW
Beavertails, Squared Off (STD-RS)	1	MBW
Body Mounts (STD)	1	MBW
Compartment Vents (STD)	1	MBW
Exterior Compartment (STD)	1	MBW
Compartment Floors (STD)	1	MBW
Grating, Mateflex	60	MBW
BLACK Mateflex grating shall be provided and installed on all compartment floors with the exception of compartments "C" and "F".		
Compartment Walls (STD)	1	MBW
Doors (STD-R)	1	MBW
Key Locking Compartments, Swing Doors	8	MBW
Door Holders (STD)	1	MBW
Rear Step (STD-RS)	1	MBW
Step, Pull-Out/ Drop-Down	1	MBW
One (1) pull-out/drop-down step shall be located at the rear of the body for access into the rear entrance door.		
Access Rails 36" (STD-P & RS)	1	MBW
Two (2) 36" long access rails shall be located at the rear of the body, one (1) each side of the rear entrance door.		
Entrance Door (STD RS)	1	MBW
The entrance door shall be at the rear of the body.		
Key Locking Entrance Doors	1	MBW
Window, 18 X 18 Fixed, Lower Ent. Door	1	MBW
Drip Molding (STD-R)	1	MBW
Paint Body (STD)	1	MBW
Paint Upper Body 2nd Color, Above Doors	1	MBW
Paint shall be WHITE to match the International chassis cab.		

DESCRIPTION	QTY	ID
<p>Paint Medium Duty Size Cab THE LOWER PORTION OF THE CHASSIS CAB ONLY SHALL BE REPAINTED. THE TOP PORTION OF THE CAB SHALL BE LEFT WHITE AS PROVIDED BY INTERNATIONAL.</p> <p>Lower paint color: CANDY APPLE RED #97902UM.</p>	1	MBW
<p>Compartment Finish (STD)</p> <p>Undercoating (STD-R)</p> <p>1 Scotchlite Character, 4"-6" High</p> <p>Fifty Two (52) 4" - 6" Scotchlite letters shall be provided as follows:</p>	1	MBW
	1	MBW
	52	MBW
<p>MARION (Red outlined in Black)</p> <p>RESCUE & FIRE APPARATUS (Red Only)</p> <p>Striping 8" Reflective Scotchlite</p> <p>An 8" Scotchlite WHITE reflective stripe shall be provided and installed. The stripe shall extend across each side of the cab and body, and across the rear face of the body.</p>	50	MBW
<p>RS-19' Compartment Sizes (STD)</p> <p>Headroom Increase, 76"</p> <p>Storage Rack For SCBA Bottle(S)</p> <p>A twenty one (21) bottle SCBA storage rack shall be provided and installed in compartment "C".</p>	1	MBW
	1	MBW
	21	MBW
<p>Vertical Divider, (30" Depth Max)</p> <p>Three (3) removable dividers shall be provided and installed as follows:</p>	3	MBW
<p>One (1) full-height in compartment "B" positioned at the rear edge of the recess area for the road side interior bench seat. The lower portion of the divider, below the recessed area, shall be full-depth of the compartment.</p>		
<p>One (1) full-height in compartment "D" to separate the full-height beavertail area from the remainder of the compartment.</p>		
<p>One (1) full-height in compartment "H" to separate the full-height beavertail area from the remainder of the compartment.</p>		
<p>Drawer Removable, Polypropylene</p> <p>Two (2) removable drawers shall be located at the floor level in the rear portion of compartment "B". The drawers shall measure approx. 12" wide x 10" high x 24" deep.</p>	2	MBW
<p>Shelf .19" Aluminum Fixed, 28" Max</p> <p>Three (3) fixed shelves shall be provided and installed as follows:</p>	3	MBW
<p>One (1) in compartment "A" at the split depth.</p>		
<p>One (1) in compartment "B" in the upper forward portion at split depth (ahead of the vertical divider).</p>		
<p>One (1) in compartment "E" at the split depth.</p>		
<p>Shelf .19" Aluminum Adjustable, 28" Max</p> <p>Six (6) adjustable shelves shall be provided and installed as follows:</p>	6	MBW
<p>One (1) in compartment "B", forward portion ahead of the divider.</p>		
<p>Two (2) in compartment "D", forward portion ahead of the divider.</p>		

DESCRIPTION	QTY	ID
One (1) in compartment "E".		
One (1) in compartment "F".		
One (1) in compartment "H", forward portion ahead of the divider.		
Shelving Adjustable Standards Adjustable shelf standards shall be located in compartments "B", "D", "E", "F", "G" and "H".	6	MBW
REMOVABLE SHELF One (1) removable shelf shall be located in compartment "B" above the poly drawers. This shelf will serve as a base for the aluminum toolboard.	1	MBW
Tray 600 Lb Cap 22" Ext., Bottom Mount One (1) 600 lbs. capacity roll-out tray shall be on the floor of compartment "F".	1	MBW
Tray 250#, Roll-Out/Drop Down, 20" Ext. One (1) 250 lbs. capacity roll-out/drop-down tray shall be located in compartment "G" on adjustable standards.	1	MBW
Tool Boards W/ Holes, Roll Out, Aluminum, 20" Ext One (1) tool board shall be centered in the rear portion of compartment "B". The toolboard assembly will extend from the removable shelf to the ceiling.	1	MBW
Body Interior Features (STD-RS)	1	MBW
Construction (STD-RS)	1	MBW
Floor (STD RS)	1	MBW
Ceiling (STD-RS)	1	MBW
Walls (STD-RS)	1	MBW
Windows, Pair, 20" X 46" Sliding Sloping Two (2) windows shall be located in the forward portion of the body, one (1) each side behind the bench seats.	1	MBW
Interior Compartment Features (STD-RS)	1	MBW
Cabinet, Lucite Doors (42" Max Width)	5	MBW
Five (5) FULL-HEIGHT interior cabinets shall be provided as follows:		
Two (2) shall be furnished on the curb side interior, starting from the rear of the body. Each cabinet shall measure 36" wide x 27" deep x full height.		
Three (3) shall be furnished on the road side interior, starting from the rear of the body. Each cabinet shall measure 42" wide x 27" deep x approximately 24" high. There is to be 12" of clear area between the top horizontal surface of the cabinet and the ceiling.		
Full Height Interior Cabinets	2	MBW
Shelf, Adjustable, Interior Cabinet	3	MBW
Three (3) adjustable shelves shall be provided with one (1) shelf in each cabinet that does not have a reel.		
Map Desk W/ Hinged Top	1	MBW
One (1) map storage cabinet 38" wide x 27" deep.		
Access Rail, Interior, Ceiling Mounted	2	MBW
Two (2) handrails shall be provided, one (1) mounted over each squad bench.		
Walkthrough, Between Cab & Body	1	MBW

DESCRIPTION	QTY	ID
Bench, Recessed, (\$/ Person) Two (2) squad benches each 72" long (for seating 3 people each) shall be furnished at the front of the body, one (1) each side directly across from one another. The benches will be recessed 15" into the front exterior compartments "A", "B", "E", and "F".	6	MBW
Scba Brackets W/ Head Rest, Bostrom Six (6) SCBA brackets shall be provided and installed, three (3) for each interior squad bench.	6	MBW
Heater, 40,000 Btu Hot Water	1	MBW
Air Conditioner, Automotive Unit	1	MBW
Wiring Diagram (STD)	1	MBW
12 Volt Wiring (STD-RS)	1	MBW
Master Disconnect Switch (STD)	1	MBW
Battery Conditioner, Kussmaul 12 The battery conditioner shall be located on the fixed shelf in compartment "A".	1	MBW
Shoreline Inlet, Auto Eject One (1) automatic shoreline inlet shall be provided and installed to the rear of the driver's door in the step area.	1	MBW
Cab Console Panel (STD) The cab console switch layout shall be as follows: 1. Battery 2. Master Lights 3. Left Scene 4. Right Scene 5. Rear Scene 6. Spare 7. Spare 8. Low Voltage (light only)	1	MBW
Switch Master Warning Light (STD)	1	MBW
Switch Rocker, Spare Two (2) additional rocker switches shall be provided in the control panel for future use.	2	MBW
Lamp Sequencer/Load Manager (STD)	1	MBW
Low Voltage Alarm (STD)	1	MBW
Rear Body Console Panel (STD) The rear body console shall be located on the curb side. The switch layout shall be as follows: 1. Dome Lights 2. Red Lights 3. Heater (Low-Off-High) 4. Spare	1	MBW
Running Lights (STD-RS)	1	MBW
Turn Signal - Amber W/ Arrow - Weldon	1	MBW
Backup Light - Weldon (STD)	1	MBW
2nd Light On Compartment Door (RS12 - RS19) Each compartment shall have two (2) lights, one (1) high and one (1) low.	1	MBW
Door Ajar Indicator Light (STD-RS)	1	MBW
Engine Compartment Light (STD)	1	MBW
Dome Lights (STD-RS14' - RS20') Six (6) 12 volt 7" clear dome lights flush mounted in ceiling. On-off switch shall be located at the rear control	1	MBW

DESCRIPTION	QTY	ID
console.		
Four (4) dome lights will have clear lenses and the 2nd and 5th lights shall have red lenses. There shall be individual switches for each color light.		
The red dome Lights are to be activated when the rear entrance door is opened.		
Step Lights (STD-RS) Scene Light, 97 (9E) Series, 8-32 Degree	1	MBW
Six (6) Whelen #9EOCAOZU scene lights shall be located as follows:	6	MBW
Four (4) on the upper body, two (2) on the road side and two (2) on the curb side.		
Two (2) on the upper rear of the body.		
NOTE: The scene lights are to be located directly below the Power Arc warning lights.		
Ground/Step Lights (STD-R)	1	MBW
Conduit Line	4	MBW
Four (4) conduit lines shall be located as follows:		
One (1) from map desk to cab.		
One (1) from map desk to compartment "A" junction box.		
Two (2) from roof to map desk area.		
12 VOLT WIRING FOR HANDLIGHTS	1	MBW
Wiring shall be provided behind each squad bench for future handlight installation.		
Back up Alarm (STD)	1	MBW
Siren, Code 3, 3692 W/ Hi-Lo & Air Horn	1	MBW
Speaker, Code 3, PS-100, Undercover	1	MBW
WARNING LIGHT PACKAGE, POWER ARC	1	MBW
The vehicle shall be equipped with a Fire Products Company "Power Arc" warning light system. Lights are to be mounted as follows:		
Front upper face of body		
Two (2) #PA180S Red lights		
Two (2) #PA180 Clear lights		
Two (2) #PA105H Blue lights		
The lights are to be evenly spaced across the front face of the body (there will not be a light bar). The color of the lenses from curb side to road side shall be Red-Clear-Blue-Blue-Clear-Red.		
Front of cab		
Two (2) #PA210 Red lights with 3/4" hood adaptors (#FP-1061) mounted on the cab grille, one each side in upper corners.		
Upper body sides		
Four (4) #PA180S Red lights, two (2) each side in front and rear corners.		
Lower body sides		

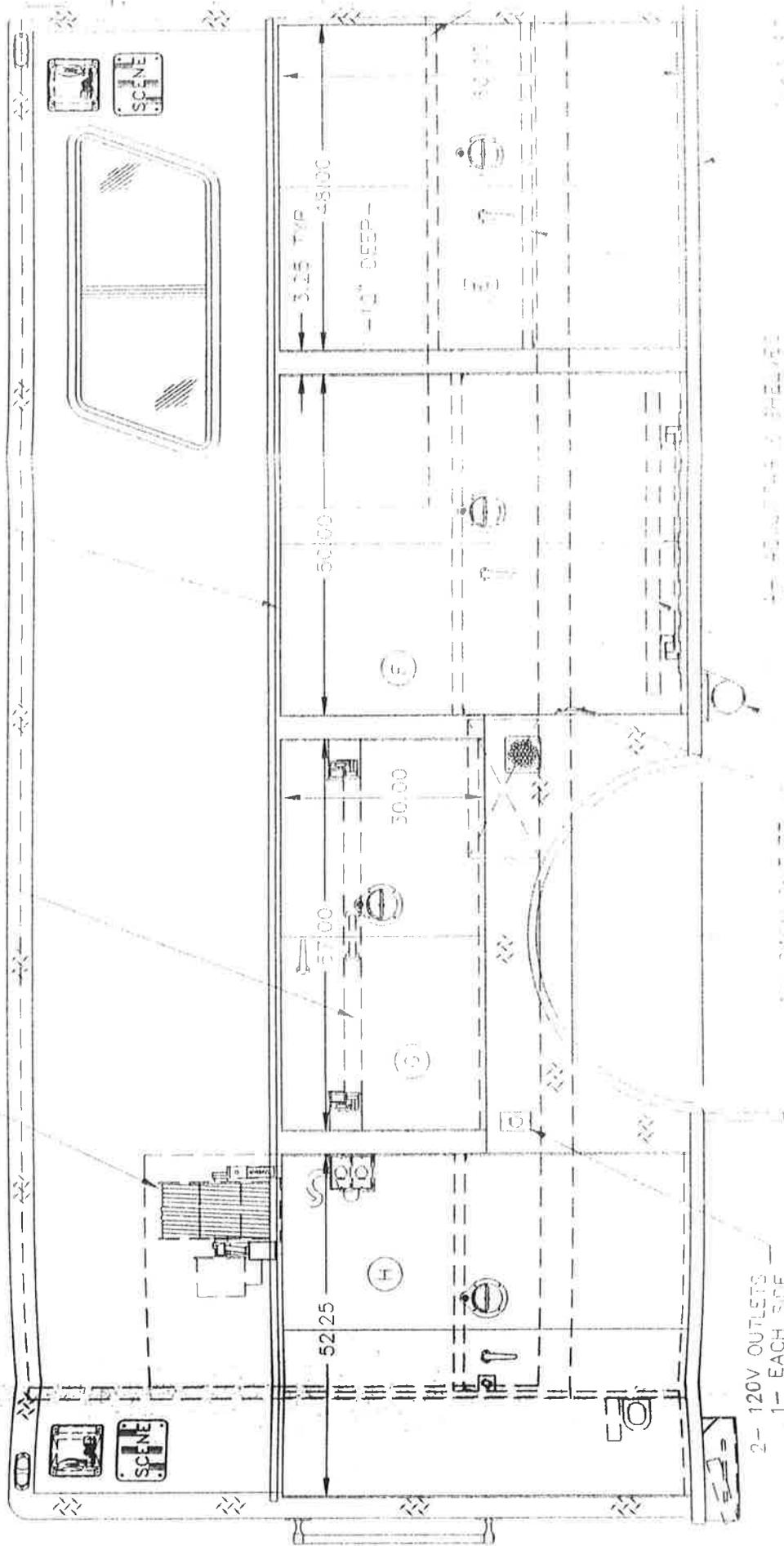
DESCRIPTION	QTY	ID
Four (4) #PP4 Red LED lights, two (2) each side on bumper extension and in forward portion of rear wheel well.		
Rear of body		
Two (2) #PA180S Red lights in upper corners, one (1) each side.		
Two (2) #PA210 Red lights in lower level above directionals, one (1) each side.		
Breaker Box & Grounding Cable	1	MBW
All electrical equipment shall be circuit breaker controlled from a breaker control panel in compartment "A".		
Switch, Transfer 120 volt Ship-Shore 30 Amp	1	MBW
One (1) transfer switch will provide power to the fluorescent lights and the interior receptacles.		
Generator, Onan 25 KW PTO Driven	1	MBW
Outlet, 120 Volt Duplex Inside RS	4	MBW
Four (4) outlets will be furnished two (2) on the curb side and two (2) on the road side interior.		
Outlet, 120 Volt, Snap Cover	2	MBW
Two (2) 120 volt outlets NEMA #L5-20 will be provided, one (1) in each rear wheel well area.		
Outlet, 240 Volt, Snap Cover	1	MBW
One (1) 240 volt outlet NEMA #L6-30 shall be provided on the lower wall of compartment "F".		
Fluorescent Light, Recessed Into Ceiling	3	MBW
Three (3) fluorescent lights shall be mounted over the interior walkway, evenly spaced.		
Fluorescent Light, Non-Recess Surface Mounted	1	MBW
One (1) fluorescent light shall be furnished above the map desk on the curb side interior.		
Extenda-Lite 1500 Watt, Bottom Raise	2	MBW
Two (2) 1500 watt telescoping lights shall be furnished on the front face of the body, one (1) each side.		
Extenda-Lite, 500 Watt, Tripod	2	MBW
Two (2) 500 watt tripod quartz lights shall be provided at the rear, located one (1) each side on the inner beavertail walls.		
Reel, Hannay ECR 1616-17-18	1	MBW
One (1) electric cord reel shall be located above the ceiling of compartment "H" in the body interior, as far forward as possible without extending into compartment "G".		
The reel will be supplied with four (4) conductors for future 240 volt service.		
Cord, SO, 10/3 Black, Installed On Reel	200	MBW
200 feet of 10/3 black SO cord will be provided on the reel.		
Electric Distribution Box PF-51G	1	MBW
PROVISIONS FOR HYDRAULIC REEL	1	MBW
Ceiling mounts and 12 volt wiring will be provided in compartment "F" for the future installation of a hydraulic reel.		
Air Hose Reel For Accessories	1	MBW
One (1) air hose reel shall be located above the ceiling of compartment "D" in the body interior.		
Air Pressure Regulator, Chassis Air	1	MBW

DESCRIPTION	QTY	ID
Air Hose, 3/8" 130 feet of 3/8" air hose will be provided for the reel.	130	MBW
Relocate Reel To Inside Of Rescue Squad Both the cord reel and air reel will be installed in the interior.	2	MBW
Miscellaneous Equipment (STD)	1	MBW
NFPA Requirement (STD)	1	MBW

1 - 150# POLYURETHANE IN
2 - 10" EXT.

1 - ELECTRIC
CORD REEL

PROVISIONS FOR FLUORENE
IN A HYDRAULIC REEL



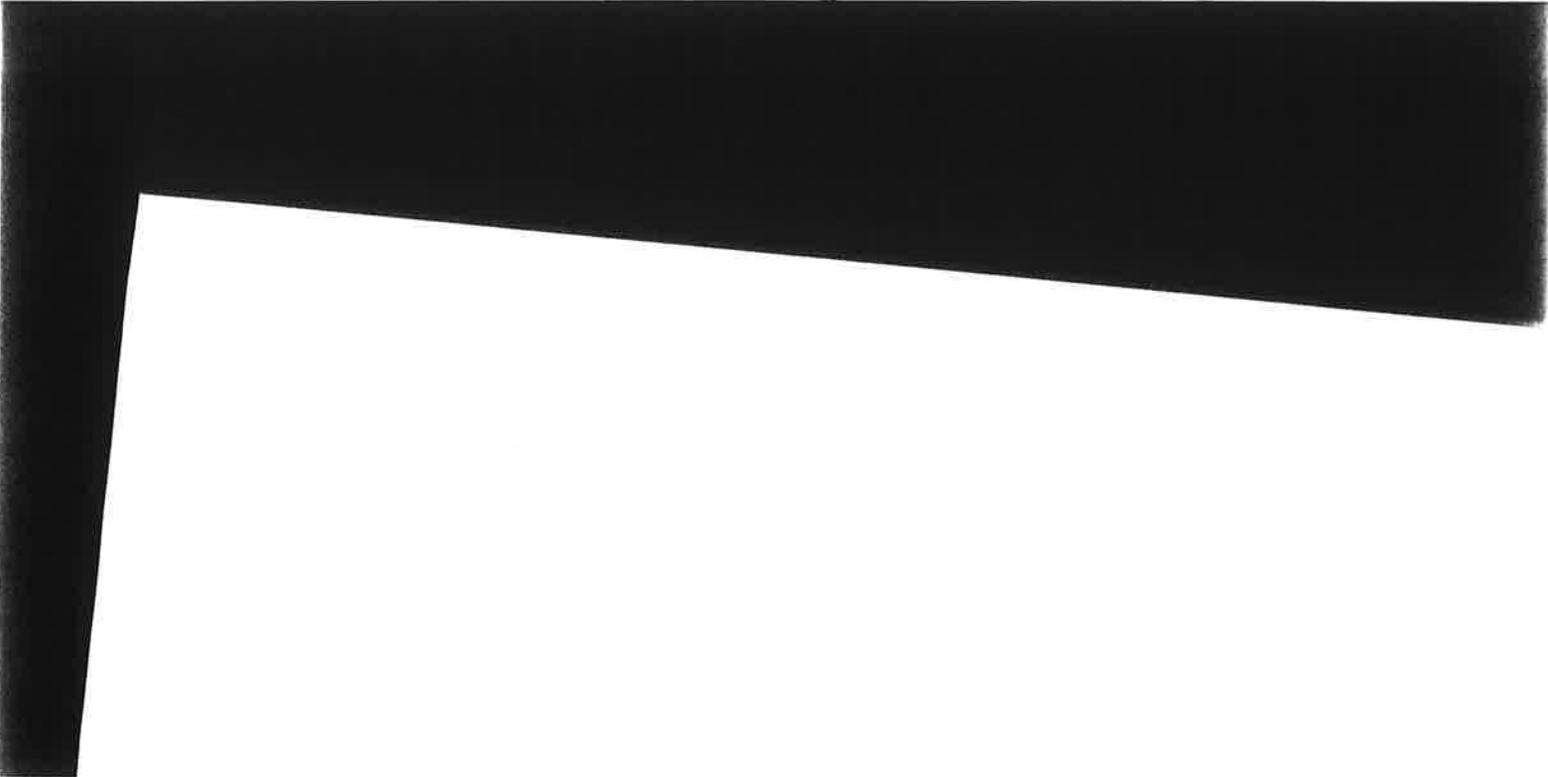
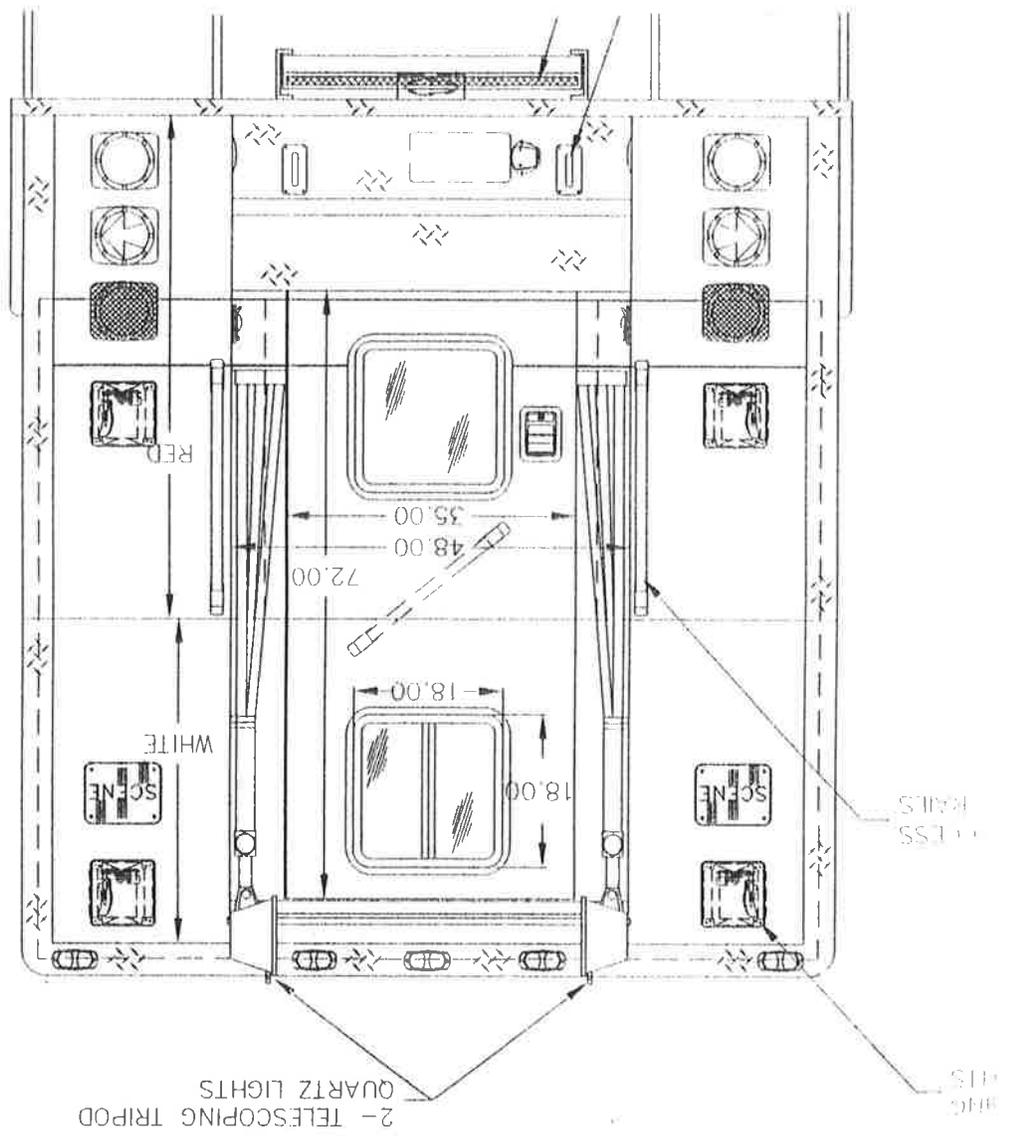
2 - 120V OUTLETS
1 - EACH SIDE

1 - 240V OUTLET

1 - 300# POLYURETHANE
2 - 10" EXT.

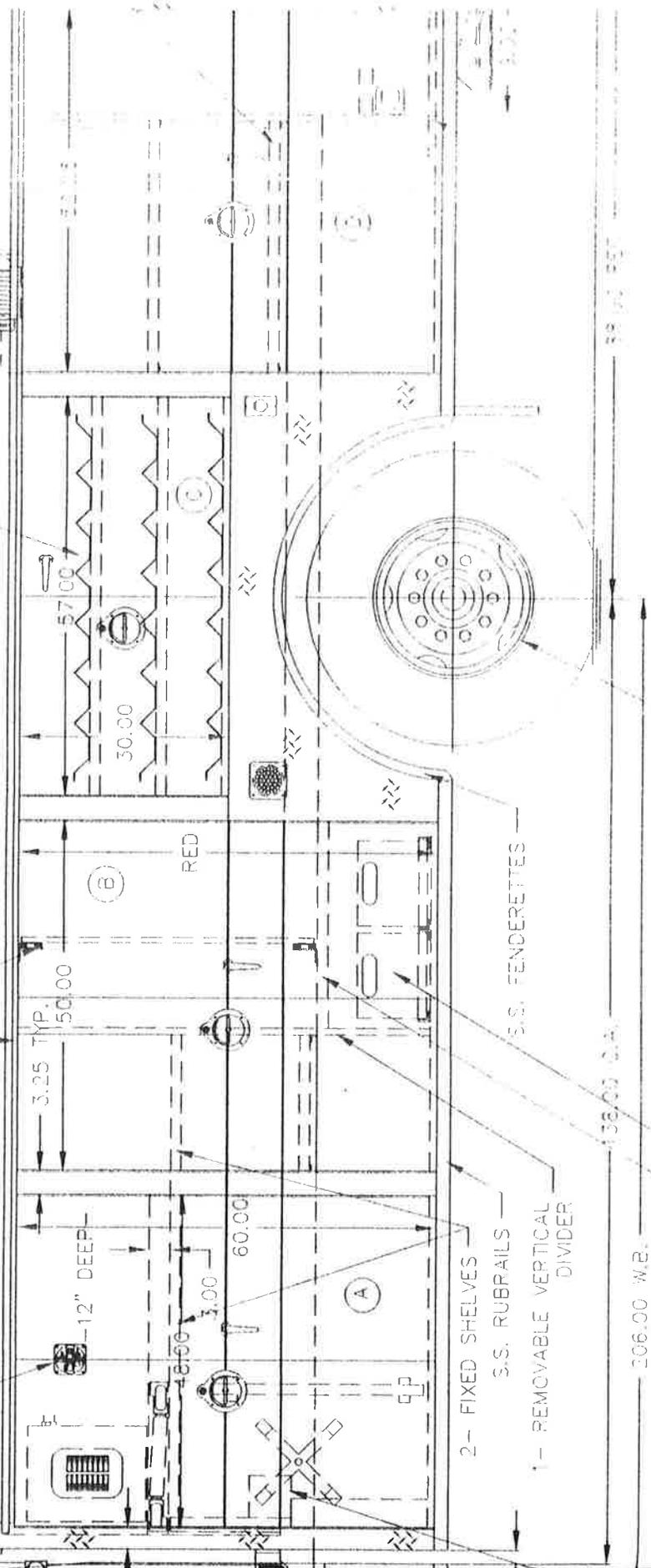
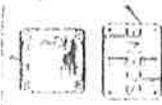
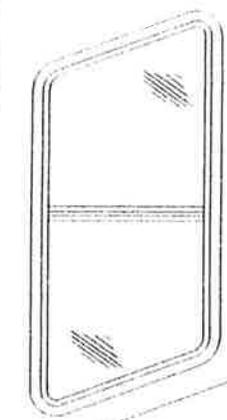
ALUMINUM TOOL
BOX 20" EXT.

1 - 120V POLYURETHANE
2 - 10" EXT.



MARION RESCUE & FIRE APPARATUS

WHITE



- 2- REMOVABLE SHELVES
- 1- REMOVABLE VERTICAL DIVIDER
- 2- FIXED SHELVES
- S.S. RUBRAILS
- S.S. FENDERETTES
- 4- BRIGHT STAINLESS STEEL WHEEL COVERS
- 2- REMOVABLE WHEEL COVERS EACH SIDE
- 1- REMOVABLE SHELF
- 2- REMOVABLE DRAWERS

206.00 W.B.

354.25 O.A.L.

158.00 O.A.