

DETAILED SPECIFICATION

A line set ticket, build sheet, or equivalent shall be provided in the truck cab.

Lights, Turn Signals and Reflectors

Vehicles shall be equipped with the manufacturer's standard equipment and as required by section 376 of the New York State Vehicle and Traffic Law and any applicable FMVSS (Federal Motor Vehicle Safety Standards).

Brackets

All welds to brackets shall be high quality Mig or Tig process and show no visible signs of porosity.

All OEM and fabricated brackets and braces shall be finish ground smooth (with all sharp edges and corners removed) prepped, primed and painted on all sides to match their surroundings.

Paint

All surfaces, including bumpers, wheels and spares which are normally painted shall be factory painted with the Thruway fleet color, Axalta 224AW (lead free) or equal.

All components of a paint system shall be from the same manufacturer.

The bidder is required to submit a representative sample of colors (yellow) available for selection if the referenced color is not offered.

Equipment supplies by other than the truck manufacturer shall have any rust spots and welding slag removed, be properly sanded, cleaned, prepped and primed per the paint manufacturer's recommendations. This applies if the equipment is to be finish painted yellow to match the truck cab, or black.

Any post factory yellow paint shall be an exact match of the paint used on the truck.

The black paint shall be of the same quality as the yellow paint, and lead free.

Paint will be tested for the presence of lead at the time of inspection of the truck. All paint, primer, basecoats, clear coats or any other coating within the paint system shall be lead free.

NOTE: If lead is detected the truck may be rejected by the Authority.

DETAILED SPECIFICATION

25,000 G.V.W.R., LOW PROFILE CAB/CHASSIS with 11' ENCLOSED SERVICE BODY

- G.V.W. Rating: 25,000 lbs
- Cab-to-Axle Dimension: 84" Approximately
- Frame after Axle (A/F): For use with 11' Service Body

Engine

- Liquid cooled, in-line 6 cylinder, heavy-duty diesel type
- Cummins L9 300 hp @ 2200 RPM
- Fuel filter
- Dry type air cleaner with contamination level indicator
- Minimum horsepower rating of 300
- Engine hour meter
- Tachometer
- OEM automatic low oil pressure/high engine temperature low coolant level shut-down with override. Documentation shall be provided (in the truck cab) to show that the engine protection parameters are programmed.
- Magnetic drain plug in oil pan

Exhaust

- Horizontal exhaust

Radiator/Cooling

- Manufacturer's radiator for this application.
- Manufacturer's heavy duty EPDM coolant hoses.
- Heat shrink type coolant hose clamps are prohibited.
- If silicone hoses are provided constant tension clamps are required.
- Water filter conditioner required (if conventional coolant is provided)
- Each truck shall be equipped with a thermostatically controlled engine block heater with a covered plug in type terminal box mounted in an appropriate location. Exact location to be resolved at pre-production meeting. Wiring shall have no splices. Zero start Part #3600068 or equal. Thermostat shall come on at 40°F and go off at 55°F.
- Each truck delivered shall be protected to at least minus 35° Fahrenheit with antifreeze. Drain cocks shall be furnished in lieu of drain plugs on water drain outlet/s on radiator. The contractor is responsible for checking and clearly marking each truck's protection level prior to delivery.

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Transmission

- Five speed automatic, Allison model MD 3500RDS or equal
- Illuminated transmission temperature gauge
- Overheat warning light
- Backup alarm with a 107 db rating.

Front Axle

- "I" beam type with a rated capacity of 8,000 lbs.
- Front shock absorbers

Rear Axle

- 17,000 lbs., minimum capacity with heavy duty springs with auxiliary unit (Gear ratio will be resolved with the contractor at the pre-production consultation).

Brakes

- Full air system
- Water-cooled engine lubricated air compressor with capacity as recommended by manufacturer.
- Compressor air intake shall be through engine air cleaner.
- Air dryer with spin on/off filter-assembly shall be installed in brake system. (Bendix AD-IP or approved equal).
- The reservoirs shall have a Schraeder type air charging valve located in the cab, in a convenient, out-of-the-way location.
- Brake shoe assemblies shall be the single anchor pin "S" type with quick change capabilities.
- Haldex automatic slack adjusters are required.
- Removable dust shields on all wheels.
- Brake linings shall be of the non-asbestos type.
- Rear brake chambers to be combination service/spring parking, epoxy coated sealed type with air exchange tube and stainless steel clevis pins, MGM model TRTS or equal.
- All brake chambers to have any open top or side service chamber vent holes plugged with plug/grommet MGM part#8019021 or equal.
- All slack adjuster pins must be stainless steel.
- Brake component ratings must equal or exceed axle ratings.

Frame

- Fabricated of a minimum of 70,000 psi steel, low profile type frame

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Steering

- Manufacturer's recommended power steering assembly

Wheels

- Hub piloted Disc type, 19.5 x 6.75 single piece with manufacturer's recommended nylon spacers between the wheels and the hubs.

Tires

- Steel belted, radial, tubeless type, size 245/70R19.5, load range G, single front and dual rear.
- Front tires shall be Goodyear Unisteel G291 or equal, balanced to within ½ ounce.
- Rear tires shall be Goodyear G124 or equal.

Cab

- Conventional closed type
- Tinted glass
- Three passenger, bench style seating
- A three point occupant restraint system with retractors shall be furnished.
- Dual arm rests adequate for use as grab handle
- Dome light
- Manufacturer's highest output heater with dual defrosters
- Electric intermittent windshield wipers
- Dual windshield washers with break resistant type reservoir mounted under hood or other approved location.
- Two power adjustable heated mirrors.
- Cab grab handles (both sides of cab) are required.
- Adjustable steering column W/18" steering wheel
- Electronic hand control throttle
- Direct reading type gauges
- Cab door locks and ignition lock shall be keyed alike.
- The engine hood must be the tilting type and have screen and grille to protect the radiator.
- All hood openings shall have a prop or other that will support the hood in an open position.
- Dual electric horns
- Air horns not required

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Electrical/Wiring

Each truck shall be equipped with the necessary wiring to accommodate combination stop/turn lighting at the rear of the truck frame (for use by the body installer).

Manufacturer's standard transport lights shall be installed securely on the frame at the rear of the truck.

All wiring splices shall be done utilizing "UZ Engineered Products" or "Belden Solder Seal" low temp self soldering/adhesive lined shrink tube butt connectors or approved equal. Crimp style connectors are not permitted.

All exposed wiring shall be enclosed in plastic flexible conduit of the appropriate size and securely fastened to the vehicle along its routed path.

Auxiliary Switches and Wiring

If factory provided switches are not available then;

Each truck shall be furnished with two OEM auxiliary rocker switches properly wired and fused (10 amp per switch) to a power source. These switches will power auxiliary lights mounted on the body (to be installed by others). These switches shall provide power with the key in accessory and run position. The first switch shall be labeled "Rotation", the second "Flashing". If OEM switches are not available self-contained switch panel shall be wired to an auxiliary relay of sufficient capacity to handle the rated AMP load of the panel. (Mounting location shall be approved by the Authority prior to installation).

From each switch a 12 gauge wire shall run to the left side of the firewall inside the cab for connection by the up-fitter. Wires shall be tagged and operational at the pre-delivery inspection. The vendor shall provide a simple diagram of the switch wiring (power source, fuse location and wire colors).

Battery

- 12 volt, CCA rating of not less than 1875 at 0° Fahrenheit
- Maintenance free type
- Battery cable connections shall be properly coated (on all sides) with dielectric grease.

Electrical Generating System

- Heavy-duty 150 amp, alternator with regulator and ammeter or voltmeter.

The installation shall include splash pans, if necessary, to protect the system components from road splash.

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Fuel Tank and Steps

Shall be safety type step tank, approximately 50-gallon capacity. If the first step is 24" or more above the ground, an additional step is to be added. This step shall be approximately 18" above the ground and formed from grip strut. The step shall not protrude beyond the widest part of the truck. If an additional step is required it shall provide 4½" of clearance between the top of the step and the next for foot (or boot) clearance.

11' Steel Service Body

The body shall be for use with dual rear wheels. The body is to have an overall length of 132 ± inches with three compartments on each side. All compartments are to be 18 ± inches deep.

The compartment arrangement shall be: full height vertical compartment in front on each side, each to have two adjustable shelves, low vertical compartment in rear on each side; long horizontal compartment on each side with chain supports, right side horizontal compartment to have a material tray with adjustable partitions, left side horizontal compartment to have two shelves. The complete body, doors and superstructure shall be of hot dipped galvanized steel having an all welded weather tight construction. The floor is to be constructed of 12-gauge, nonskid, steel checker plate; floor cross channels of 11 gauge cold rolled steel; compartment tops, end panels and sides of 16-gauge and compartment doors of 20-gauge steel.

All doors are to be of double panel construction incorporating drain through design and shall be equipped with recessed, slam action, locking handles with keyed-alike cylinder locks but with a different series of locks for each truck. Hinges shall be full length, fast-pin type, swinging on bronze castings.

All shelf and bin edges are to be safety rolled.

The body shall include a manufacturer's standard tail gate.

Mud flaps suspended from 11 gauge minimum fabricated brackets attached to crossmembers and located behind rear wheels.

The body shall be mounted on the frame (in accordance with the manufacturer's installation instructions).

The required body to be a model T132 or equal as manufactured by Monroe Custom Utility Bodies, Inc. (MCB) 317-894-8684.

Striping

The rear shall be striped to top of utility body side compartments with alternate 6" diagonal stripes of white and black applied from right to left downward at an angle of 45 degrees. The black stripes shall be formed from 3M 79982 black reflective tape.

Service Body Lighting - for base only, when no enclosure is required.

All body and truck rear lighting shall originate from the waterproof junction box.
Wiring from this box shall not be spliced

Flush mounted into the rear panels of the service body shall be combination stop, tail and turn signal lights, Truck-Lite Model No. 40002R or compatible equivalent and two flush mounted backup lights, Truck-Lite Model No. 40004 or compatible equivalent. Amber flashers shall be mounted in the upper rear corners, above the combination lights, Truck-Lite 40002Y or compatible equivalent. These amber flashers shall be wired with 12 gauge wire to the terminal of the junction box controlled by the up-fitter "FLASHING" switch. Note: If an upper enclosure is added the amber flashing lights will be installed in the upper enclosure rather than the service body.

An amber rotating lamp (Code 3 model PDB-NY T-WAY) shall be bolted to a centrally located tubular mounting bracket and extended upward to a height that allows it to be visible from all sides. The bracket shall attach to the leading portion of the body and wired with 12 gauge wire to the cab up-fitter switch labeled "Rotating". Note: When an upper enclosure is added this light will be mounted to the top of the enclosure rather than the tubular bracket.

An approved lighted license plate bracket shall be furnished, attached to the body.

Rear Bumper

The rear of the body is to include a heavy duty step bumper, this bumper shall be designed to accommodate the hitch described below.

Hitch

Rear is to be equipped with a 16,000 pounds maximum GTW, 3000 pounds maximum Vertical load combination ball/pintle hook. Buyers BH82000 or equal as manufactured by Buyers Products Company, Mentor, Ohio 440-974-8888. The height of the hitch is to be 18" from the ground to the load bearing surface of the pintle hitch. Safety chain D-rings of adequate strength are to be attached, one on each side of hitch. A receiver hitch meeting the above weight ratings and height specification is acceptable in place of the bumper mounted hitch.

Trailer Plug Wiring

Standard 7 pin DOT ICC plastic female trailer plug connection with split pin and rubber boot shall be supplied, (Truck-Lite 50869 or equal). The plug shall be mounted in a convenient, protected location that will not hamper the trailer or damage the wiring when making sharp turns. The plug shall be wired for combination stop/turn. Trailer plug wire connections at the back of the receptacle are to be protected with dielectric grease at assembly.

Service Body Enclosure (Top)

The following features/characteristics are required:

The enclosure shall be specifically fabricated for installation onto the Service Body specified. It shall provide a weatherproof enclosure. The enclosure is to have a high steel roof and windowless rear doors and front bulkhead. The height of the upper-structure shall be a minimum of 72" inside.

When an enclosure is installed, the service body rear striping shall continue across the lower portion of the rear doors.

Additional Service Body Lighting - when an enclosure is required.

A flat surface mounted light, Dietz 12-38001 or equal, shall be installed in the center of the inside of the canopy top and controlled by a switch located inside the body at the right rear corner.

Amber flashers shall be mounted in the rear panels of the upper body enclosure, above the combination lights centered vertically between the top of the body compartment and the top of the enclosure and centered horizontally between the edge of the enclosure and the edge of the rear door, Truck-Lite 40002Y or compatible equivalent. These amber lights shall be wired with 12 gauge wire to the terminal of the chassis junction box controlled by the up-fitter "FLASHING" switch.

For this application a roof mounted rotating light (Code 3 model PDB-NY T-WAY) shall be bolted and properly sealed to the leading portion of the upper body enclosure. The lamp shall be wired with 12 gauge wire routed through the body to the up-fitter switch labeled "Rotating".