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SPECIFICATIONS  
M-57-FJ-L

**036700**

TRAILER, 10,000 LB, 20' ENCLOSED

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October 11, 2023, GAW

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SPECIFICATIONS  
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I. GENERAL TRAILER SPECIFICATIONS:

A. INTENT STATEMENT:

The purpose of these specifications is to describe a 10,000 LB GVWR, 20-foot enclosed trailer, with 6,400 minimum payload capacity rated at 65 MPH.

Pennsylvania Department of General Services, PCID No. 1075, "*General Requirements for Bidding PENNDOT Vehicles/Equipment*", most current version effective at the time and date of bid opening, is included as a part of this specification. PCID No. 1075 may be reviewed and downloaded from the Department of General Services website, <http://www.dgs.state.pa.us>.

Delivery as required per Department of General Service PCID NO. 1075 Section "G". All units must be delivered within 200 days after receipt of the purchase order by the successful bidder.

Trailers must be delivered at ground level (stacking is unacceptable).  
Trailers shall be delivered with current PA State Inspection Sticker.  
Pre-delivery trailer plug and circuit compatibility testing with Department owned trucks shall be performed. (Ref: EQN-80B for guidance).  
Warranty per PCID 1075, Section E 1, Construction Equipment – (2 years).

B. TRAILER COMPONENTS:

FLOOR: Single 3/4-inch marine grade plywood flooring.

WALL / INTERIOR: Minimum thickness 1/4-inch plywood.

ENCLOSED TRAILER BOX: Minimum 96 inches wide x 90 inches minimum height x approximately 20-foot-long (useable interior), maximum platform height 19 inches.

ROOF Shall be one-piece aluminum. All roof screws shall be caulked.

HITCH: Heavy-duty bumper pull type, 3-inch Lunette eye installed, and 2 5/16-inch ball hitch loose inside trailer, minimum 5 vertical positions of adjustment (20 inch – 28 inch). Delivered hitch height shall be set at 28 inches from ground to center of eye with trailer level.

DOORS OPTIONS:

Rear barn type doors. Opening shall be a minimum of 85 inches wide x 80 inches high, with lockable cam lock closures. Curbside door shall be 48 inches wide with a lockable cam lock and grab handle on side of trailer to provide "Three Points of Contact". Handles shall be covered with non-slip paint; non-slip tape is unacceptable.

Full width rear ramp style door with lockable cam lock closures. Door shall have an assisted lift for opening and closing. Curbside door shall be 48 inches wide with a lockable cam lock and grab handle on side of trailer to provide "Three Points of Contact". Handles shall be covered with non-slip paint; non-slip tape is unacceptable.

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I. GENERAL TRAILER SPECIFICATIONS: (Continued)

B. TRAILER COMPONENTS: (Continued)

SAFETY CHAINS: Two (2), minimum non-rusting, coil-proof, high tensile. Each chain shall have a minimum breaking strength rated equal or above the GVWR. Each chain shall extend 3 feet beyond the Pintle eye. Forged steel hooks with safety hasp to fit a minimum 5/8-inch up to and including a 3/4-inch D-ring (from tow vehicle) at the end of chain and the other end of the chain shall be permanently mounted to trailer.

LIGHTS: All lights shall be 12-volt LED, rubber mounted, with sealed wiring harness. Power cord shall be hard wired into a weatherproof box. Power cord shall extend 3 feet in length beyond Pintle. Ref: EQN-80B for guidance. All harness pass-through locations shall be protected by a grommet. All wiring shall be protected within a frame-rail, metal enclosure or conduit. Wiring shall not be exposed within a wheel-well.

There shall be a Truck-Lite Model# 36140C LED license plate light with light bracket PN# 36710 installed and properly mounted to accept a full-size license plate.

There shall be a minimum of two (2) L.E.D. 12-volt lights mounted in the ceiling. All lights shall be operated by one (1) switch.

There shall be no connections outside of a sealed box, unless connections are soldered and properly sealed with heat shrink. **3M type (Scotch Lock) crimp connectors are unacceptable and will not be accepted.** All exposed (within electrical box) electrical connection shall be coated with dielectric grease.

PAINT/PREPERATION: Prior to painting, all metal surfaces shall be cleaned utilizing a phosphate wash procedure, sandblasted or shot beaded to insure proper paint adherence and rust prevention, with all edges and holes de-burred, and all weld splatter removed. Unit shall receive a minimum of (2) coats of paint, (1) shall be a zinc-based epoxy primer, and (1) coat of finish paint.

Trailer shall be painted with Manufactures standard "Safety" yellow paint, reference Penn Dot yellow DuPont F9885, PPG 85246, Sherwin Williams 73266, NAPA 73266 and Sikkens 4017 for shade only.

Landing gear and undercarriage shall be OEM standard black or "Safety" yellow. Wheels can be white, silver or argent. Toolbox if equipped, shall be painted black unless aluminum. Conspicuity per EQN-127A.

RUNNING GEAR, TIRE SIZE, HUBS:

As required to meet GVWR – 10,000 LB capability.

WHEELS: One-piece rims. (Mobile home type wheels are unacceptable). There shall be one spare wheel and tire assembly, mounted on a lockable bracket assembly (not to interfere with useable deck space and jack handle). Wheels shall be properly sized within all requirements and ranges to meet the specification.

SUSPENSION: Adequate suspension for "low loading". Dual dropped axles are acceptable.

AXLES: Tandem axles shall be rated as (2) 6,000 LB. (minimum). All axles, if applicable, shall be equipped with EZ lube system.

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I. GENERAL TRAILER SPECIFICATIONS: (Continued)

B. TRAILER COMPONENTS: (Continued)

**BRAKES:** Hydraulic surge brake system properly rated for GVWR. Trailers are to be equipped with surge brakes and rely on a mechanical braking system. The use of electrical connections such as solenoids or dump valves and manual lockout devices will not be accepted for trailer backing. The axle brake shoes **MUST** be "FREE BACKING" type.

**OVERALL WIDTH:** 102-inch maximum.

**LANDING GEAR:** Properly rated and capable of swinging back or up for travel. The landing gear shall be centerline mounted. Jack handle shall not interfere with any part of trailer or spare tire.

**ACCESSORIES:** A minimum of (6) six recessed D-ring tie downs shall be mounted in the floor. Evenly spaced front to back. Location to be determined at pre-build meeting.

Unit shall be equipped with a stone guard, which shall be mounted to the front of the trailer.

**OTHER FEATURES:** Hi-strength low alloy steel mainframe.

A decal stating, "(MLWR) Trailers actual load carrying capacity is \_\_\_\_\_" shall be posted on the trailer in minimum 1-inch lettering.

There shall be a permanent decal, 2-inch-high red letters on white background affixed to the outside front above the hitch of the trailer stating the overall maximum travel height of the completed and unloaded unit. (Example) HT-\_\_' \_\_" Ref. EQN-552

There shall be a permanent decal, "Three Point Contact" located at each entry point of the truck cab and at the fifth wheel ladder area per EQN – 552-1. Exact location to be determined at pre-build meeting.

All pivot points shall be of the "heavy duty" design and shall incorporate easily accessible zerk fittings. Zerk fitting location/s shall be stenciled on the trailer.

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II. DRAWINGS:

EQN-80B	dated	Rev.	08-02-18	1 sheet	WIRING DIAGRAM
EQN-127A	dated	Rev.	01-02-09	1 sheet	CONSPICUITY TAPE STRIPING REQUIREMENTS
EQN-552	dated	Rev.	7-25-18	1 sheet	MAX. TRAVEL HEIGHT
EQN-552-1	dated	Rev.	07-24-18	1 sheet	THREE POINTS OF CONTACT

The above referenced drawings shall become part of these specifications. These drawings reflect the intent of the Department. Any discrepancies shall be resolved at the Pre-build meeting between the vendor and the Fleet Management Division.

**DRAWINGS APPEAR AT THE END OF THE SPECIFICATIONS.**

III. MANUALS

The successful vendor shall furnish all applicable manuals per unit:

- 1 Operator's
- 1 Parts
- 1 Service
- 0 Engine
- 1 Transmission (Automatic or Manual)
- 1 Body and Sub-frame (Parts and Service)
- 1 Complete set of manuals for any additional items/equipment added to a piece of equipment.

The manuals listed shall be official O.E.M. publications supplemented with technical manuals for all components as published by sub-vendors/manufacturers. Parts Manual presented must be a relative to "all" items utilized to build these units, with appropriate part numbers.

Delivery of these manuals shall be completed with the delivery of each unit(s). Manuals shall be supplied on thumb drives (in PDF format) along with paper manuals.

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IV. TRAINING

Mechanic:

The successful vendor shall provide services of qualified factory trained technicians for not more than   0   training sessions of not more than   0   hours at   0   PennDOT locations to train personnel for in-depth preventive maintenance, overhaul and review of the proper usage of parts and service manuals, as well as component/system adjustments that need to be monitored at specified service intervals.

Operator:

The successful vendor shall provide services of qualified factory trained technicians for not more than   0   training sessions of not more than   0   hours at   0   PennDOT locations to train personnel in the proper operation, safety and servicing of the equipment.

The successful vendor shall submit a training plan to the Fleet Management Division for approval within 45 days after receipt of the Purchase Order. The training plan shall consist of course outline and class schedule.

All training must be completed within 60 days after the dates established in the approved training plan unless an extension is mutually agreed to in writing by the Chief of the Fleet Management Division.

All training shall be coordinated with the District Equipment Managers, with the exception of Asphalt related training, which must be coordinated with the Statewide Training Coordinator (717) 787-4836, Fax (717) 783-4438.

V. WARRANTY: Per PCID No. 1075