

HYDRAULIC FOLDING HITCH LOWBOY TRAILER: TRIPLE AXLE LOWBOY TRAILER

- **Capacity:** 100,000 lbs. at 55 MPH (100,000 lbs. concentrated in a 16-foot area).
- **Construction:** To be a four-beam trailer with four (4) linkages, one on each main beam. All frame components to be a minimum of 80,000 or 100,000 psi yield strength material. All steel used in fabrication shall be 80,000 or 100,000 psi with a tensile strength of 100,000 or 120,000 psi. I-beam main frame construction, main beams to be 16" deep. Web material will be minimum ¼" 80,000 psi yield. Overall length of 57'. Double drop deck design maximum 30" loaded deck height. Shall have deck length of 32'. Deck shall be full width (108") with minimum 2" Apitong wood, raised 3/8". Rear deck over running gear and rear slope to be full width and covered in steel diamond plate or approved equal material to reduce slipping and improve traction, material needs to be ¼ punched. Removable ramps from rear slope to lower deck shall be a minimum of 48" long and improve traction and be strong enough to support weight of load.
- **Gooseneck:** To be hydraulic folding design. Shall have hydraulic self-lifting and leveling landing gear. Must have the ability to lift fully loaded trailer. Hydraulic folding neck shall utilize (2) 4.5"x30" hydraulic lift cylinders. Length of gooseneck will be 10' with swing clearance of 96". Loaded 5th wheel height will be 50". King pin setting will be 16". Tapered front to extend to approximately 26" ahead of king pin 10" added to front of neck.
- **Hydraulics:** Shall be operated by minimum of manual throttle and choke with electric start self-contained mounted in the bed. Selector valve for PTO connection required. External hydraulic connectors shall be installed on the driver's side, passenger's side, & rear of trailer.
- **Axles & Suspension:** Shall be equipped with (3) IMT or equal 25,000 lb. axles capacity tandem style with dual wheels. Shall have 50" axle spacing. Rear axle shall be of fold-up design by air or hydraulic. Stemco or equal type oil seals with see-through inspection caps. Axle shall be equipped with mud flaps on last axle with no advertising. Steel load bearing wheel covers across flat surface of running gear. Shall be equipped with hub piloted steel wheels and shall be offset that can either be inner or outer wheel of a dual wheel setup. Wheels shall have a minimum of two (2) hand holes and fixed load bearing wheel covers. Wheels to be primed and either painted

or powder coated white. Tires shall be (12) 235/75-17.5R radial with load rating of 5,675lbs each and 18 ply rating. Spare tire and rim shall be provided.

- **Brakes:** Shall be equipped with a minimum 16/5"x7" air brake with automatic slack adjusters. Air brake chambers will be required on each axle and each brake. Brakes will have S-cam brake shoe activators. Trailer will also be equipped with a break away safety system. Air brake system and hoses shall meet current FMVSS requirements. Trailer shall be equipped with Antilock Brake System (ABS).
- **Tiedowns:** 14 D-rings = 8 per side/ plus 4 (2 each side) on bolster ends and 2 on rear bumper behind center beams. Stake pockets 2" on-center with a rub rail where possible. 2.5" clearance above rub rail.
- **Lighting & Wiring:** All circuits shall be wired through automatic circuit breaker. All wiring shall be enclosed in plastic conduit and mounted in rubber grommets. All connections shall be soldered and covered with heat shrink. Shall have a 7-pole trailer plug provided Berg NO.23783 or equal, mounted on the front of the trailer. Shall have a compartment on gooseneck deck capable of housing the brake air lines. Glad hands and 7-way electrical plug so damage will not occur during the loading and unloading of equipment. Trailer shall be equipped with stop, tail, clearance, and directional lights. Reflectors and conspicuity tape as required will be furnished. All wiring and lighting shall be ICC approved for highway trailers. All lights to be LED. Amber strobe lights in rear cross member with battery and trickle charger.
- **Paint:** trailer shall be sandblasted and prepped top and bottom sides before painting to remove any existing welding slag and any rust and impurities. Shall be painted with epoxy primer and two-part polyurethane paint. Paint color shall be School Bus Yellow.
- **Drawings:** Blueprints of trailer and winch wiring diagram shall be provided with bid or quote. Paper and electronic copy of operator's manual and parts book shall be provided with bid or quote.
- **Winch:** Shall have a 20,000lb capacity winch mounted in rear slope operated from self-contained hydraulic system with appropriately rated hook and 100ft cable.

- **Oversize load sign:** Oversize load sign under rear bumper to roll up and store in plastic tube under rear bumper when not in use.
- **Fifth wheel:** Plastic place on the 5th wheel compatible with the floating king pin.
- **Warranty:** Trailer to include 5-year prorated warranty on main beams of trailer.
- **Delivery Requirements:** Delivery date of 120 calendar days from the date of Purchase Order. Penalty of \$50.00 per unit shall be assessed for each calendar day that delivery exceeds 120 days plus 5 working days for DOT inspection of units. Penalty shall be assessed until units are accepted; incomplete units will not be accepted. Taking exception to the delivery time may constitute grounds for rejection of bid. Delivery to the designated location shall be included in bid. All items not specified shall conform to manufacturer's specifications.