2 Ea. New latest model 50-Ton Low Boy Trailer w/ hydraulic Tail section and 20,000 lb. hydraulic winch; meeting the following specifications, in accordance with manufacturer's standard published specifications:

Trailer designed to haul tracked and rubber tired highway maintenance equipment at highway speed to 70 MPH.

Rated Capacity: 50 Tons net payload distributed, 35 tons concentrated in any 10' section (minimum).

Net Loading Deck, upper and lower, approx. 47' to include at least 9' aft of tail ramp hinge.

Swing Clearance Under Gooseneck: 86" (min).

Overall Width: 10' without extension wings (± 1").

Overall Length: Approx. 51'.

Wheel covers. 1/4" minimum with stiffner bars.

2" Apitong flooring, (nominal). Secured with 5/16 diameter torx head screws or equal bolts, not less than two fasteners per board crossbearer and at end of each board. Any splices must be staggered.

1/4" (min.) deck plate for toolbox lids, winch access plates, and plates over tires. (50,000 PSI). Deck plates must support proportional share of deck concentrated load plus resist grouser bar imprint.

Tires: Twelve (12) radial tires to meet GVWR w/disc wheels and one (1) spare rim (min 22,500# per axle).

TRAILER:

Trailer and tail frame to be 2 or 4 beam construction. I-Beams to be 100,000 PSI yield steel, web 80,000 PSI yield with no splicing of web material.

Full width gooseneck for multi-loading with Apitong flooring, Centerline of king pin 18" from front of trailer. (± 2") King pin 2".

Fifth wheel plate 51" (±2") from ground with a revolver greaseless upper coupler system.

Frame to be of sufficient strength to support 50-tons.

10" I Beam Cross Members to support rated per sq. ft. loading but in no case more than on 12" enters (65,000 PSI yield). 8", 100,000 PSI I Beam Crossmember may also be furnished.

Loaded deck height shall be maximum of 36 ½" with ground clearance 20".

Hydraulic recessed ramp to provide access from lower part of deck to deck over gooseneck. Ramp to be approximately 9' wide and approximately 6' long. Ramp to be lifted with two or more hydraulic cylinders that will support rated capacity requirements. Ramp to be flush with deck in lowered position and provided with mechanical locks (with at least 4" of contact surface each) for locking in the raised transport position.

Permanent wheel covers over tires, flush with deck. Heavy duty to withstand bulldozers and machinery when loading.

"D" rings mounted on each side of trailer three (3) on each side of gooseneck, and 36" centers on load deck and tail section.

Landing Gear: 2-speed crank type. (Sand Shoes). Curb side controls.

Two (2) Tool boxes in front part of gooseneck. (Flush Top) Boxes to be approximately 12" x 36" x 7" deep. Provide locks for each tool box.

Full width tail section to be 12' - 10" long with 46" fold-under section. Tail shall raise up approximately 58" and lower to ground level. Tail to be equipped with w/heavy duty I-Beam reinforced full width piano type hinge. Tail section to be lifted by two (2) 5" minimum cylinders (2500-3000 PSI), 20,000 lb. lift capacity @ 4' from hinge. Tail shall have two (2) hydraulic tail lock supports mounted parallel to the cylinders to hold tail in transport position and must be capable of supporting rated load. Flip section must be hydraulic powered with rubber shock dampers. Flip tail shall be covered with ¼" flat material having minimum strength of 80,000 PSI. Traction bars on fliptail shall be 30" long 5/8 x 5/8 with spacing not greater than 12". Hinge pins to be 1½ diameter cold rolled steel minimum. Approach ramp to be covered with 2" apitong flooring. Nested tail to have water drains to prevent holding water when folded. Tail section (not flip portion) to be equipped with permanently attached support pad each side to provide ground contact when tail ramp is deployed.

Controls to be mounted in a recessed position at **curbside and streetside** of upper deck of trailer and labeled with metal plates.

Axles to have 22,500 lbs. rated capacity each or greater.

Spindles to be alloy heat-treated inserted into axle tube and be equipped with Stemco oilers.

Brakes to be air actuated with brake size to be 12 1/4" x 7 1/2" x 3/4" "S" Cam, w/automatic slack adjusters. Supported and grommeted air lines.

Triaxle Suspension: Air ride with manual dump valve.

A 20,000 lb. (vertical lift) low mount hydraulic winch at front of trailer with 90' of 5/8" Bright wire (6 x 19 class, 20.6 ton breaking strength) cable with tail chain and hook and with 4-way roller. Winch must have remote control (50' of cable with tail raise and lower controls in addition to winch controls). Access must be provided to winch for maintenance. Winch must have automatic brake and free spooling capability.

A hub - meter.

Spring brake lock on center and rear axle.

A lockable spare tire rack for trailer and tractor spare (11R 22.5H) at the front top side of top deck positioned to minimize loss of top deck loading area, vertical tire mount must allow access to tool boxes. Also, provide a small powered post mounted crane for on/off loading spares (1400 lb. boom capacity) mounted to access either spare tire and provide 2' boom over hang at curbside.

Vendor to equip state truck tractor with wet kit to power trailer winch. One tractor is to be equipped with an auto shift transmission, Fuller, 10 speed RT018910B-A53 and two tractors are to be equipped with standard transmission, Fuller 10 speed FR012810C. It is the trailer vendor's responsibility to equip the tractor with a wet kit capability to power the trailer winch using current components or new ones if so required. Tractor equipping is to be done at an Alabama dealer location. The truck tractor is currently available for equipping with the wet kit.

Lights must conform with ICC regulations and Alabama standard specifications; 7-way socket at front of trailer. Mid turn signal light with directional arrow on each side. Lights shall be shockproof, rubber mounted, sealed system. All wiring to be run in rubber or plastic conduit into sealed junction boxes with rubber grommets in cross members to protect wiring. No crimp connections. Minimum 14 GA wiring.

Gladhands, hydraulic and electrical connectors will be located in a recessed position.

Vendor to provide two (2) paver helper ramps, 9 degree slope, aluminum construction 7' long, 20" wide to support rated load (primarily used for pavers). Vendors must also provide support blocks to be used with these ramps. The blocks will be used to support tail section (not flip portion) when ramps are used.

If vendors bid a mfr/model other than minimum specifications, a list of exceptions should be listed on a separate vendor letterhead paper and attached to bid.

Finish: Trailer to be cleaned and painted with at least one coat high-density primer prior to finish painting. To be painted two coats of standard white IMRON or equal 4 Season's two part polyurethane.

Warranty: One (1) year on total trailer, parts and labor at Alabama repair location: Five (5) years on main frame.

All fees for Title must be paid by vendor. Address Title to:

Alabama Department of Transportation
Equipment Bureau
1409 Coliseum Blvd.
Montgomery, AL 36110

Title application will be furnished when trailer is delivered.

Vendor to provide an in-state pre-paint inspection of low boy trailers.

Vendor to furnish two (2) sets of parts books, service manuals, technical manuals and operators' manuals with unit.

Delivery date may be a factor in making award.

The successful bidder shall provide a drawing and stress analysis not less than twenty-one (21) days after receipt of the P.O.

NOTE: Vendor to post a $25,000 Performance Bond.