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### Hydraulic Guard Rail Post Driver/Puller - Truck Mounted - 33,000 lb. GVWR

Hydraulic guard rail post driver/puller, truck mounted, new and of current model, equipped as advertised by the manufacturer, to meet or exceed the following **MINIMUM** specifications:

Proposed Driver/Puller: Make: \_\_\_\_\_ Model: \_\_\_\_\_

Proposed Truck: Make:	Model:
Proposed Flat-Bed Body: Make:	Model:
	ame or equal within this specification is to be considered a reference quality, performance, and characteristics desired. It is not intended to
that must be met for a bidder to qualify for a meet or exceed the requirement. A "NO" res considered. The bidder must supply printe	Ilowing statements. Specifications listed are minimum requirements in award. A "YES" response means the bidder guarantees that they ponse means the bidder cannot meet the requirement and will not be ed literature that shows compliance with each requirement of the solution for the comply, the Truck(s) will be rejected.
Descriptive literature shall be furnished to	substantiate the details specified throughout this bid.
	<u>SPECIFICATIONS</u>
post driver/puller mounted on a 33,000 lb. G	to describe a hydraulically operated, gravity drop hammer, guard raisyWR cab and chassis. The system will have turntable, frame in/ou post puller, reversible foot assembly, bolt-on post and guide foo
Comply Yes/No:	
Hydraulic Guardrail Post Driver/Puller:	
	am longitudinally, 4-inch channel cross-members, 5-inch channel side The bed shall have two (2) toolboxes mounted ahead of the rear axles
Comply Yes/No:	
to run on inside flanges. The sub frame will runners. The sub frame is to rotate on six rolle	le flange beam by 88-inches in diameter, rolled to allow roller bearings be constructed of heavy steel with 5-inches by 5 ½-inch angle side er bearings, three (3) in front and three (3) at the rear. The side frame or similar wear plate for driver frame to slide on. The turntable will be see of rotation.
Turntable diameter (inches):	Turntable rotation (degrees):
Comply Yes/No:	
Frame Assembly: Drive frame will be constru	ucted of 4-inch by 6-inch-wide flange steel beam. Rail assembly will be

**Frame Assembly:** Drive frame will be constructed of 4-inch by 6-inch-wide flange steel beam. Rail assembly will be 4-inch I-beam with heavy-duty journal bearing loops. Inside of the rail beam will be used to guide drop hammer and anvil. Rail boom will be 5-inch standard pipe. The overall height of the rail and boom assembly will be a maximum of 15 feet 8 inches.

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Rail and boom assembly overall he	eight (feet):
Comply Yes/No:	
Frame Travel: The frame travel will be 3	86-inches in and out, which will be 30-inches to 66-inches from the truck body.
Frame travel (inches):	
Comply Yes/No:	
	a 4.5L Tier 4 Final emissions rated industrial engine rated for 74 hp minimum. ump from the chassis fuel tank. Engine to have a 12-volt electrical system
Make:	Model:
Displacement (liters):	Power (horsepower):
Comply Yes/No:	
	nensions: 12-inches (length) by 12-inches (wide) by 30-inches (height). ammer to be provided with safety pin for stowage and transporting.
Hammer weight (pounds):	Hammer length (inches):
Hammer width (inches):	Hammer height (inches):
Comply Yes/No:	
Boom Length: 15 feet minimum	
Boom Length (feet):	
Comply Yes/No:	
1500 psi. The hydraulic valves will be spring centered, and neutral. The hydra	em will be comprised of a gear pump providing 28-gpm @ 2500 rpm and manually operated and mounted in one (1) valve bank. All valves will be ulic system will have a 208.2 I (55 gal) hydraulic tank with full flow 25-micron rnal 100-mesh suction strainer, dual tank filler/breather caps. Tank to have
Hydraulic tank size (gallon):	
Comply Yes/No:	
Elevating Cylinder: Single cylinder, do	uble acting with 4-inch bore and 2-inch chrome rod
Bore (inches):	Chrome rod (inches):
Comply Yes/No:	
	uble acting with 4-inch bore and 2-inch chrome rod. Cylinder to be mounted to 15 degrees over rear of vertical. Leveling (side movement) will be 45 egrees of each side of vertical.
Bore (inches):	Chrome rod (inches):

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Leveling total movement (degrees	s): Movemen	t each side of vertical (degrees):
Comply Yes/No:	_	
<b>Positioning Cylinders:</b> Two (2) heav to have 30 degrees of total movement		2 inch bore and 1 3/8 inch chrome rod. Cylinders
Bore (inches):	Chrome roo	d (inches):
Total movement (degrees):	Movemer	t each side (degrees):
Comply Yes/No:	_	
Hammer Cylinder: Single cylinder, seals with chrome rod.	single acting, and 3.5-inch bore	e, 3-inch rod, 36-inch stroke, and non-adjusting
Bore (inches):	Chrome rod (inches):	stroke (inches):
Comply Yes/No:	_	
Foot Extension\Post Puller Cylinder inch stroke. Pulling capacity to be a m		cting with 3-inch bore, 1.5-inch chrome rod, 36-
Bore (inches):	Chrome roo	d (inches):
Stroke (inches):	Pulling capa	city (pounds):
Comply Yes/No:	_	
		i-inch bore and 2-inch chrome rod with 44-inches ntrol valve. Cylinder to have a minimum pulling
Bore (inches):	Chrome roo	d (inches):
Travel (inches):	Pulling capa	city (pounds) :
Comply Yes/No:	<u> </u>	
		the guard rail post. The foot assembly must be sting guard rail. The foot will have an extension
Comply Yes/No:	_	
The unit will have a cable sling for at	taching the anvil to the hamme	I anvil block with bolt-on doweled post adapters. er and a 2-inch hardwood striker block. Two (2) I-beam steel post adapters will be supplied.
Comply Yes/No:	_	
<b>Post Puller Plates:</b> Two (2) 6-inch by post puller plates, all with chains will		lates and two (2) 6-inch by 4-inch I-beam steel
Comply Vos/No:		

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**Counterweights:** A minimum of 2,500 pounds of steel plate counterweights will be supplied with the unit. The maximum overhang when unit is rotated to the side will be 13-inches.

Counterweights (pounds):	Overhang (inches):	
Comply Yes/No:		
mounted allowing for in/out slide and rotational mov work area regardless of machine positioning. The	the controls at the left side of the rail assembly and shall be rail- ement with the machine allowing for a clear, consistent view of the seat will be heavy-duty with padded seat, backrest, and safety place for any moving parts facing the operator station.	
Comply Yes/No:		
Truck Drive Remote Control: The operator will be operator station. This will override the in-cab contro	able to move the truck forward, reverse, and reposition it from the ls.	
Comply Yes/No:		
diameter range of a minimum of 6-inches to a maxim down pressure capability producing 5,000-pound	If-contained and mount onto the post driver gantry, having a hole num of 20-inches and a maximum depth of 60-inches with hydraulic feet of torque. The drill shall be installed and supplied with all ols needed for operation including a 3-inch round Kelly bar/lower all accept 2-inch hex hub auger shaft(s).	
One (1) 12-inch diameter bullet tooth auger with 2-i	nch hex hub will be provided by bidder	
Hole diameter range minimum (inches):	Hole diameter range maximum (inches):	
Hole depth maximum (inches):	Torque (pounds feet):	
Truck Chassis and Accessories:		
<b>GVWR:</b> 33,000 pounds		
GVWR (pounds):		
Comply Yes/No:		
CA Dimension: 102 inches		
CA dimension (inches):		
Comply Yes/No:		
Wheelbase: 152 inches		
Wheelbase (inches):		
Comply Yes/No:		
Engine: 9-liter minimum, 370-horsepower minimum eeting all current federal and EPA requirements	ım, water-cooled, diesel, minimum torque of 1,000 pound-feet,	
Make:	Model:	
Displacement (liters):	Power (horsepower):	

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Torque (pound feet):	
Comply Yes/No:	_
Engine Protection: The Truck shall coolant temperature.	have automatic shutdown system to include oil pressure, oil temperature, and
Comply Yes/No:	_
Transmission: Heavy-duty, fully auto set-up for dual operator stations.	matic, 6-speed with overdrive designed for on-road/off-road operations, shall be
Make:	Model:
Type:	Speeds:
Comply Yes/No:	_
	nannel/4 sensor/4 modulator configuration for front and rear axle compatibility federal safety standards for size, weight and application of the truck.
Manufacturer:	Type (air/hydraulic/etc.):
Style (disc/drum/etc.):	ABS configuration (4S/4M, etc.):
Comply Yes/No:	<u> </u>
Axle Rating and Suspension:	
Front: 12,000-pound rated, multi-l	eaf springs with shock absorbers, setback configuration, disc brake compatible
Manufacturer (axle):	
Axle type:	Weight rating (pounds):
Manufacturer (suspension): _	
Suspension type:	Weight rating (pounds):
	eaf springs, single-speed, with full locking wheel differential (anti-spin device),
Manufacturer (axle):	
Axle type:	Weight rating (pounds):
Manufacturer (suspension): _	
Suspension type:	Weight rating (pounds):
Comply Yes/No:	
Cooling System: Vocational/severe-	-duty, high-capacity radiator, silicone hoses.
Comply Yes/No:	

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Electrical:	
Alternator: 12-volt, 160-amp alternat	or
Manufacturer:	Rating (amps):
Battery: Two (2) 12-volt maintenance	e free batteries, 1100 CCA.
Manufacturer:	Power (CCA per battery/total CCA):
Comply Yes/No:	
Frame: All grade 8 bolts and hardware (palloy steel.	preferred) or Huckbolts for assembly. Minimum 80,000 PSI high strength, low
Comply Yes/No:	
Fuel System: 100-gallon (minimum) tan	k capacity (any configuration) with dual-stage fuel filters.
Number of tanks:	Capacity per tank (gallons):
Comply Yes/No:	
<b>DEF Tank:</b> 7-gallon frame-mounted, mir	nimum.
Capacity per tank (gallons):	
Comply Yes/No:	
Steering: Power-integral	
Comply Yes/No:	
Driveline: Heavy-duty u-joint	
Comply Yes/No:	
vehicle, is audible above normal outdoor	alarm system which is activated upon engagement of the reverse gear of the sounds, and meets FMVSS requirements. The back-up warning alarm shall vehicle, be protected from water and road spray, and meet a minimum 82 dB ambient noise levels.
Comply Yes/No:	
<b>Back-up Camera:</b> Complete, fully funct area directly behind the vehicle to allow	tional, and operational back-up camera system providing a clear view of the safe reverse travel of vehicle.
Comply Yes/No:	
	pe, steel or aluminum construction with fiberglass front hood and fender bly, equipped with door pads and back of cab pads for sound deadening and

All standard equipment including, but not limited to:

• Five (5) cab-mounted marker lights,

insulation.

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- Stainless steel cab-mounted exterior sun visor
- Exterior assist handles both sides (if exhaust is in the way, then an interior assist handle will be acceptable for the side affected)
- Power RH and LH west coast mirrors with convex auxiliary mirrors (LH & RH)
- Deluxe high-back air suspended driver and passenger seats with armrests
- Two (2) cup holders
- High-visibility orange safety belts
- Factory air conditioning and heater with defroster
- Warning lights and buzzers for air pressure, oil pressure and water temperature
- Direct reading gauges for oil pressure, water temperature, and air pressure
- Tachometer
- Power windows and door locks
- 12-volt accessory dash-mounted power outlet
- AM/FM Bluetooth stereo radio with hands-free option
- Dual air horns
- Tinted glass all around
- Multi-speed electric windshield wipers and washers with intermittent mode
- Tilt steering column
- Front tow hooks
- Heavy-duty front bumper
- Any other body builder wiring not included that would be needed to set up and run a flatbed mounted aerial lift truck with toolboxes and lighting with enough to terminate at end of frame, to be hung on rear of cab.
- Holder for operator's manuals

Comply Yes/No:	
Paint: Manufacturer's standard white	
Comply Yes/No:	

#### **ADDITIONAL REQUIREMENTS**

**Service:** The truck shall be delivered fully assembled and ready to operate. Factory-trained dealer representative is to inspect the truck upon delivery and provide receiving MDOT equipment manager with information on operational, service, and maintenance requirements.

Bidder shall maintain a representative inventory of replacement parts and service facilities as well as all necessary diagnostic tools/equipment/software and software licenses needed for diagnosis, repair, service, and maintenance.

Acknowledge	Yes/No:	

**Warranty:** Clearly stated terms and conditions of all manufacturer warranties shall be included with the bid package. All materials, specialty equipment, or accessories that prove defective in normal operation within the warranty period shall be replaced or repaired by the manufacturer free of all cost to MDOT, including all material, labor, and transportation costs. Warranty replacement and/or repairs shall be furnished promptly by the successful bidder within a time not to exceed thirty (30) calendar days. **The bidder shall provide written assurance with the bid package regarding warranty repairs.** 

The delivering dealer will have sole warranty responsibility (all components) for the first ninety (90) calendar days after acceptance of equipment.

The manufacturer shall provide, with the bid package, a list of warranty service locations within the State of Mississippi for all components of the truck (body, chassis, electrical, etc.) which may need warranty repair beyond the first ninety (90) calendar days.

### MISSISSIPPI DEPARTMENT OF TRANSPORTATION AMD SPECIFICATION NUMBER 849-GRPD/TM-(1032-341) DATE: 03-23 (205-983) PAGE 8 OF 9 Acknowledge Yes/No: \_\_\_\_\_ Workmanship: Workmanship throughout shall conform to the highest standard of commercially accepted practice for the class of work and shall result in a neat and finished appearance. The design which the manufacturer proposes must be of substantial and durable construction in all respects. All parts shall be new. Used, reconditioned, or obsolete parts will not be accepted. Acknowledge Yes/No: \_\_\_\_\_ Parts Availability: Dealer name and contact information located closest to the point of delivery: Dealer Name: Telephone: Street Address: City, State, ZIP: Acknowledge Yes/No: \_\_\_\_\_ Tests and Testing: The complete truck and all working and moving parts and operating devices shall be thoroughly tested and put in operating condition by the manufacturer. Prior to acceptance by MDOT, the manufacturer shall service and adjust the unit for operation. Acknowledge Yes/No: Literature: Technical manuals: Operator's manual, service/maintenance manual, and parts book are to be made available in both hard copy and electronic (PDF file format on USB flash drive) versions. One set of technical manuals shall be provided with each Lift upon delivery. Additional manuals may be ordered later. Technical service bulletins: Successful bidder shall provide TSBs (technical service bulletins) for all Lift(s) delivered to MDOT as they are published, regardless of the date of delivery. TSBs may be furnished in paper or electronic format and shall be updated regularly. The following additional information shall be provided by the vendor at time of delivery (electronically if possible): Manufacturer's recommended service/preventive maintenance intervals Recommended fluids, lubricants, and their SAE equivalents Two (2) copies of descriptive literature shall be furnished to substantiate the details specified in the bid. Acknowledge Yes/No:

**Certification:** The manufacturer(s) shall furnish certification that the Truck meets or surpasses current U.S. Department of Labor Occupational Safety and Health Administration (OSHA) Regulations, U.S. Department of Transportation Federal Motor Vehicle Safety Standards (FMVSS), and any other applicable Federal regulations.

Acknowledge Yes/No: \_\_\_\_\_

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The Mississippi Department of Transportation is exempt, by way of contractual purchases, from Regulation Eleven and the protections provided by the Mississippi Motor Vehicle Commission. A written notice, established by public hearing on April 21, 2010, at 10:00 a.m., is on file with the Mississippi Motor Vehicle Commission, 1755 Lelia Drive, Suite 200, Jackson, MS 39216.

	As a second stage or "specialty vehicle" manufacturer, you are not required to h Mississippi Manufacturer or Dealers' License and if you choose, may sell the finished of vehicle directly to the Mississippi Department of Transportation.	
Acknowledge Yes/N	No:	
Vehicle Title or Cert	ificate of Origin:	
Assignment:	State of Mississippi/DFA – 941	
Mailing address:	Mississippi Department of Transportation, 9301 P.O. Box 1850 Jackson, MS 39215	
Acknowledge Yes/N	No:	
	ward, <b>if</b> MDOT issues a <b>Notice to Proceed</b> instead of a <b>Purchase Order</b> , the truck is being ne State's Master Lease Purchase Program and the specified financial institution must be listed	
Acknowledge Yes/N	No:	