MONTANA Department of Transportation

MDT-BRG-015 04/23

Montana Department of Transportation
Bridge Bureau
Approved Construction Equipment List

mdtacel@mt.gov

Make:	Roadtec
Model:	SB-2500B
Equipment Type:	Material Transfer Truck
Contractor Modifications:	none

Interstate Approval Conditions

Approval Type	crossing only
Speed:	no restriction
Weight:	83,460 lb or less
Traffic:	approved with regular traffic
Location Restrictions:	no restriction

Non-Interstate Approval Conditions

Approval Type	denied
Speed:	denied
Weight:	denied
Traffic:	denied
Location Restrictions:	denied

Comments:

Equipment configuration, weights, and specifications on following pages. Approval does not apply to posted bridges. Other construction equipment is not allowed to operate on or cross bridge at the same time this equipment is on the bridge. Equipment must be empty while crossing.

ROADTEC®



The SB-2500B Shuttle Buggy® material transfer vehicle can store and transfer hot-mixed asphalt material from a truck to a paver for continuous paving. A patented antisegregation auger remixes materials just before they are delivered to the asphalt paver. The 25-ton (22.7 MT) surge capacity of the SB-2500B allows trucks to unload material immediately and return to the asphalt plant. Options include the windrow pickup head and the road widener attachment.

SB-2500B SPECIFICATIONS

ENGINE:
John Deere™ 6081 AF, 6-cylinder diesel engine, 275 HP (206 kw) @ 1,900 rpm. Engine instrumentation includes tach/hour meter, oil pressure, voltage and emergency shutdown system. Easy access to oil cooler/radiator.

OPERATOR'S STATION:
Operator positions on both sides. Control panel pivots for use from either station allowing for same-lane or adjacent-lane operation from either side. One-piece hydraulically-raisable platform allows easy access to engine, pumps and motors. Inside turning radius 26'6" (8.1 m).

GROUND DRIVE:
All hydrostatic for continuously variable speed control with two speed ranges. Electric-over-hydraulic shift between working and transport ranges. Maximum speed (working range) 3.0 mph (4.8 kph). Maximum speed (travel range) 9 mph (14.5 kph).

TIRES:
Large, high-flotation - 21:00 x 25" (53.3 m x 635 mm).

ELECTRICAL SYSTEM:
Standard system includes heavy-duty alternator, battery, and circuit breaker protection of all systems.

FUME EXTRACTION SYSTEM:
Two blowers. Fold-down 10" (254 mm) exhaust pipes.

SLAT CONVEYORS

TRUCK UNLOADING (C-1):
High-capacity truck unloading system with low deck height, 9'2" (2.8 m) side truck opening and 29" (737 mm) o.d. x 7" (178 mm) deep Ni-Hard segmented converging auger for quick material flow. Conveyor has weld-on flights 5/8" (16 mm) thick, 7" (178 mm) wide x 58" (1,473 mm) long. Ni-Hard liner plates are removable. Power dump front hopper has a vibrator on the bottom that helps keep material moving. Fixed push roller is standard. Conveyor capacity is rated at 1,000 TPH (907 MTPH).

SURGE BIN (C-2):
Unloads the surge bin with a multi-pitch 29" (737 mm) o.d. x 7" (178 mm) deep Ni-Hard segmented anti-segregation auger in the hopper. Conveyor system has weld-on flights 5/8" (16 mm) thick, 7" (178 mm) wide x dual 16" (406 mm) long. Liner plates are Ni-Hard and removable. Conveyor capacity is 600 TPH (544 MTPH).

PAVER LOADING (C-3):
Conveyor swings 55 degrees to either side of center. Maximum conveyor discharge height is 12' 2' (3.7 m) from ground level. Conveyor flights welded to the chain are 5/8" (16 mm) thick, 3" (76.2 mm) wide and 30" (762 mm) long. Conveyor has bolted 1/2" (12.7 mm) T-1 replaceable floor plates and doors. C-2 and C-3 conveyors have on/off controls that are interlocked. Conveyor capacity is 600 TPH (544 MTPH).

HOPPER INSERT:
A mass-flow paver hopper insert is used to increase the hopper capacity of a conventional paver when used with the SB-2500B.

CAPACITIES:

Fuel tank	150 gal (568 l)
Hopper	25 tons (22.7 MT)
material	120 lbs/cu ft (1,922 kg/cu m)

WEIGHTS:

Shipping weight	79,300+ lbs (35,970 kg)

OPTIONS:
Spray down system
Hydraulic generator set
Windrow attachment
Road widener attachment

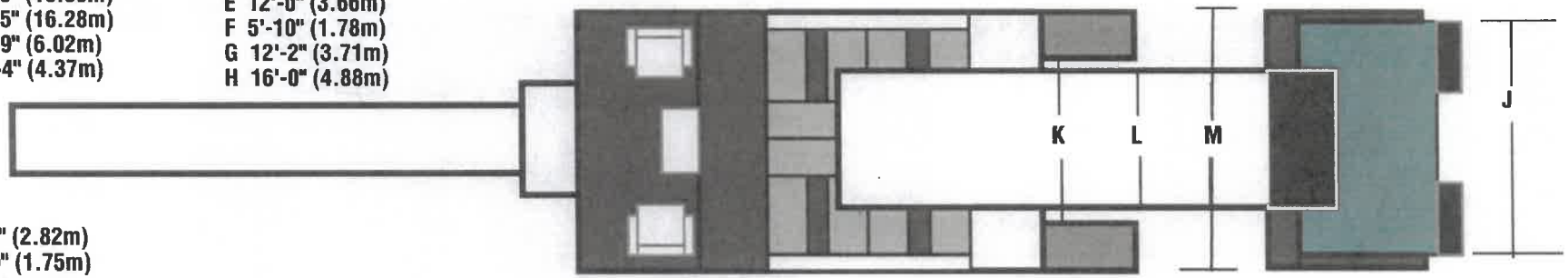
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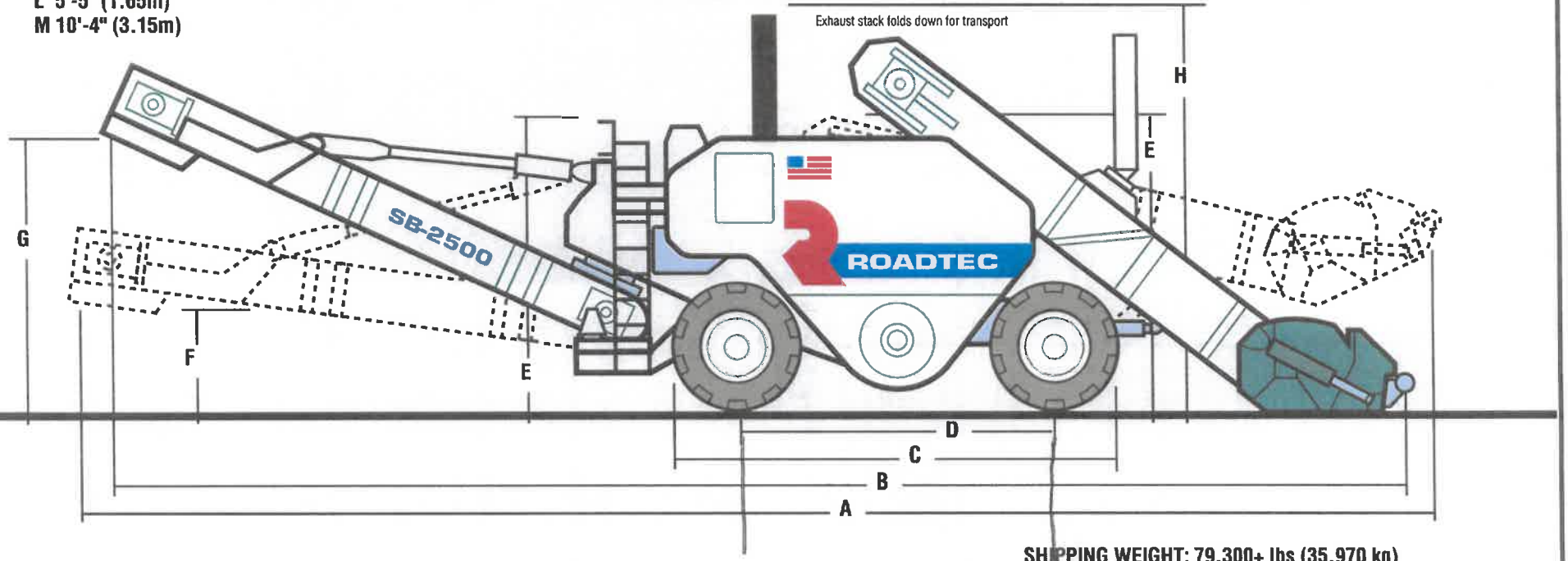
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A 55'-9" (16.99m)
B 53'-5" (16.28m)
C 19'-9" (6.02m)
D 14'-4" (4.37m)

E 12'-0" (3.66m)
F 5'-10" (1.78m)
G 12'-2" (3.71m)
H 16'-0" (4.88m)

J 9'-3" (2.82m)
K 5'-9" (1.75m)
L 5'-5" (1.65m)
M 10'-4" (3.15m)





SHIPPING WEIGHT: 79,300+ lbs (35,970 kg)

41,000

42,460

83,460