MONTANA
Department of Transportation

T-BRG-015 04/23

Montana Department of Transportation
Bridge Bureau
Approved Construction Equipment List

Make:	*Roadtec*
Model:	*SB 2500e/ex with Empty Surge Bin*
Equipment Type:	*Material Transfer Vehicle*
Contractor Modifications:	

Interstate Approved Codes

Approval Type	*Crossing Only*
Speed	*No Restriction*
Weight	*,240 lb or less*
Traffic	*Approved with regular traffic*
Location Restrictions	*No Restriction*

Non-Interstate Approved Codes

Approval Type	*NI*
Speed	*NI*
Weight	*NI*
Traffic	*NIE*
Location Restrictions	*NI*

Comments:

Equipment configuration, weight, and specification on following page. Approval does not apply to load portion of rig. Other construction equipment is not allowed to operate on or project from the same time this equipment is on the rig.

SPECIFICATIONS

ENGINE
- SB-2500e:Tier 4F; Cummins® QSL9 300 hp (224 kW) @ 2,000 rpm
- SB-2500ex: Tier 3; Cummins® QSL9 300 hp (224 kW) @ 2,000 rpm*

** ex machines for lesser regulated countries*

WEIGHT
- 77,240 lbs (35,035 kg)

CONSTRUCTION
- Heavy-duty conveyor flights and chain. Replaceable wear plate in all high wear areas. Stability without unnecessary weight.

COOLING SYSTEM
- Quiet operation, dual, variable speed hydraulically driven fans

ELECTRICAL SYSTEM
- Two 4D batteries & 95 amp alternator
- 24v system with master disconnect switches.
- Electric-over-hydraulic solenoids with manual override.

PROPEL SYSTEM
- Hydrostatic drive
- Continuously variable speed control with two speed ranges.
- Front-wheel steer

SPEED
- Working: 0-3.0 mph (0-4.8 kph)
- Travel: 0-9 mph (0-14.5 kph)

BRAKE SYSTEM
- Hydrodynamic disc caliper brakes, and parking brake

TIRES
- 21" (533 mm) wide x 25" (635 mm) interior diameter high-flotation tires.

OPERATOR STATIONS
- Two operator stations (left & right side) with deluxe adjustable seats.
- Operator stations can slide 16" (400 mm) out past edge of machine for visibility.
- Center control console pivots to right or left

GROUND CONTROLS
- (2) front dump hopper control boxes

FUME EXTRACTION SYSTEM
- Clearview FXS® system with dual fans to draw fumes away from operator area.

TRUCK DUMP HOPPER
- Front hopper has swivel support casters. Vibrating floor plate. 9'2" (2,794 mm) wide truck opening (adjustable width option available).
- Hydraulic, adjustable push rollers.
- Hydraulic front hopper baffle adjustable for optimal material flow.

DUMP HOPPER TRANSVERSE AUGER
- 29" (737 mm) o.d. cast, ni-hard, segmented auger.

DUMP HOPPER UNLOADING CONVEYOR (C1)
- Drag conveyor with 1,000 tph (907 mtph) capacity.
- Dual roller bushing offset link chain
- Conveyor floors lined with replaceable chrome-carbide clad wear plates.

SURGE BIN
- 25 tons (22.7 mt) storage capacity.

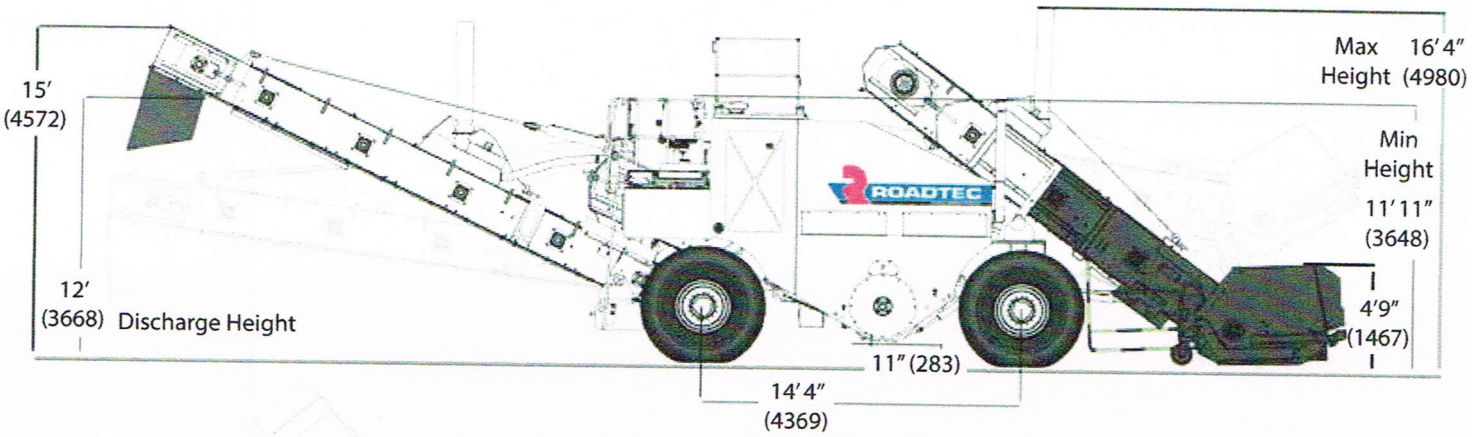
REMIXING AUGER IN SURGE BIN
- 29" (737 mm) o.d. cast, ni-hard, variable pitch augers

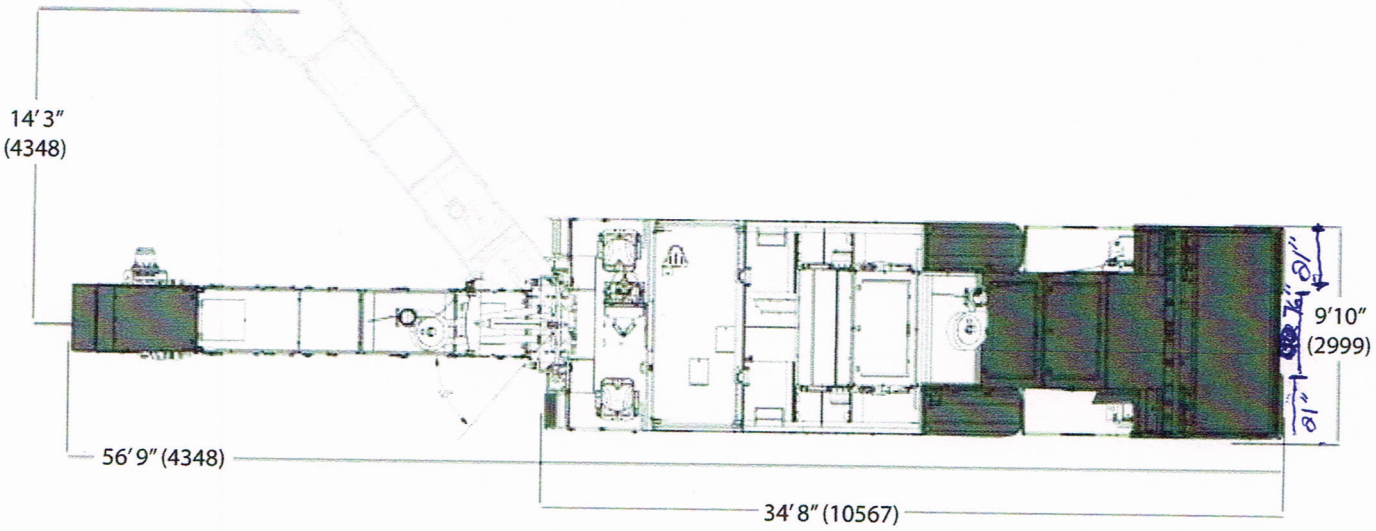
SURGE BIN UNLOADING CONVEYOR (C2)
- Drag conveyor with 600 tph (544 mtph) capacity.
- Dual roller bushing offset link chain
- Conveyor floors lined with replaceable chrome-carbide clad wear plates.

PAVER LOADING CONVEYOR (C3)
- Drag conveyor with 600 tph (544 mtph) capacity.
- Dual roller bushing offset link chain
- Conveyor floors made of chromium carbide clad plate.
- Insulated conveyor floor.
- Controls interlock with surge bin unloading conveyor.
- Conveyor can be positioned up to 50° to either side of center.
- Conveyor guard rails.

SERVICE CAPACITIES

- Fuel Tank ..... 150 gal (568 l)
- Hydraulic Fluid Tank..... 96 gal (363 l)





Dimensions in brackets are mm.

Specifications are subject to change without notice.