



Ocean County Board of Commissioners

OFFICE OF THE
OCEAN COUNTY COMMISSIONERS

Director John P. Kelly
Deputy Director Frank Sadeghi
Commissioner Robert S. Arace
Commissioner Jennifer Bacchione
Commissioner Virginia E. Haines

101 Hooper Avenue
Toms River, New Jersey
08754-2191
(732)929-2005
(732)505-1918

Board Meeting Agenda

Date: November 5, 2025 - 4:00 PM
Location: Administration Building
Room 119
101 Hooper Avenue
Toms River, NJ 08754

Agenda: Awarding a Contract for the furnishing and delivery of MOTOR VEHICLES: DUMP, TANDEM AND TRI-AXLE TRUCKS to Robert H. Hoover & Sons, Inc., the lowest qualified bidder. (B2025-150)

Official Resolution#	2025001537
Meeting Date	11/05/2025
Introduced Date	11/05/2025
Adopted Date	11/05/2025
Agenda Item	j-2
CAF #	
Purchase Req. #	B2025-150
Result	Adopted

COUNTY COMMISSIONER	PRES.	ABS.	MOVE	SEC	AYE	NAY	ABST.
Kelly		✓					
Sadeghi	✓				✓		
Arace	✓			✓	✓		
Bacchione	✓				✓		
Haines	✓		✓		✓		

I HEREBY CERTIFY THAT THIS DOCUMENT IS A TRUE, COMPLETE AND ACCURATE COPY OF THIS RESOLUTION, ADOPTED BY OCEAN COUNTY BOARD OF COMMISSIONERS, NJ AT THE MEETING REFERENCED THEREON

Michelle I. Gunther

Clerk Of The Board

RESOLUTION

November 5, 2025

WHEREAS, on September 16, 2025, pursuant to legal advertisements therefor, sealed bids were received for the MOTOR VEHICLES: DUMP, TANDEM AND TRI-AXLE TRUCKS for the County of Ocean; and

WHEREAS, at the advertised time, responses were received from the following bidders:

Name and Address of Bidder
Robert H. Hoover & Sons, Inc.
149 Gold Mine Road
Flanders, NJ 07836
(973) 347-4210

Name and Address of Bidder
Gabielli Kenworth of NJ LLC
2306 US 130 N
Dayton, NJ 08810
(201) 641-4440

; and

WHEREAS, after the receipt and examination of same, the County Purchasing Agent has now recommended to this Board that the lowest qualified bid, according to specifications, namely, ROBERT H. HOOVER & SONS, INC., be accepted.

NOW, THEREFORE, BE IT RESOLVED by the BOARD OF COMMISSIONERS of the COUNTY OF OCEAN, STATE OF NEW JERSEY, as follows:

1. The Director and Clerk of this Board are hereby authorized and directed to enter into a contract accepting the bid for the Motor Vehicles: Dump, Tandem and Tri-Axle Trucks, for the County of Ocean; contract period shall be for one (1) year from date of award through November 4, 2026, or until delivery is complete unless otherwise stated. The County reserves the right to extend the term of the contract, pursuant to N.J.S.A. 40A:11-15. The County reserves the right to extend the contract for one (1) additional year by mutual agreement between the County and the Contractor with no increase in base price.

A. ROBERT H. HOOVER & SONS, INC for thirty-two (32) items, to wit:

ITEM NOS. 1, 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 2, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2I, 2J, 3, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3I, 3J and 3K.

For a Total Lump Sum Award (Item Nos. 1 – 1H) of \$2,861,145.00.

For a Total Lump Sum Award (Item Nos. 2 – 2J) of \$3,776,905.00.

For a Total Lump Sum Award (Item Nos. 3 – 3K) of \$5,052,245.00.

Estimated Maximum Dollar Amount: \$11,690,295.00.

This vendor has extended this contract to County Cooperative Contract System Participants, Identifier No. CK-02-OC.

2. Funds for the materials or services described herein shall be made available through operating and expense (O&E) accounts, trust accounts, grant accounts, or capital accounts maintained by, but not limited to, the following departments: Vehicle Services, Engineering, Parks Department, Solid Waste Management, Roads, Bridges and the Planning Board.

3. Payments for the materials and services to be acquired by these contracts shall be made upon the approval of vouchers submitted by the successful bidders in accordance with the requirements of the Board of Commissioners and subject to the Board of Commissioners customary procedures. Delivery shall be made upon receipt of a Purchase Order issued by the Ocean County Department of Purchase, upon which delivery locations and needed quantities shall be indicated.

4. The contract number must be placed on all papers, documents, invoices and vouchers pertaining to said contract, the number being B2025-150.

BE IT FURTHER RESOLVED that certified copies of this Resolution shall be made available to the County Auditor, Purchasing Department, Finance Department, Vehicle Services, Engineering, Parks Department, Solid Waste Management, Roads, Bridges, The Planning Board and Robert H. Hoover & Sons, Inc., the successful bidder.

[ROBERT H HOOVER & SONS INC.] RESPONSE DOCUMENT REPORT

Bid No. TBD

MOTOR VEHICLES: DUMP, TANDEM AND TRI-AXLE TRUCKS

COI_-_W19626_-_COUNTY_OF_OCEAN_-_2024_-_6-11-2025_-_549261991.pdf

Hoover_-_Copy_of_COI_to_County_of_Ocean.pdf

12. Acknowledgement of Submission of Forms from Current Bid Package*

Bidders shall complete all documents and acknowledge all terms included with the bid package. All documents should be from this bid package as forms change frequently and the most updated forms are provided in this specification. The forms must not be dated or executed prior to the date of advertising. Failure to follow these instructions is cause for rejection.

Confirmed

13. Submission of Bid Package*

By submitting a response to this solicitation, the Vendor understands and acknowledges that all required documents to this solicitation must be submitted and that failure to do so may be cause for rejection.

Bidder also understands that only one (1) bid submission shall be considered. Please DO NOT Submit a manual bid response. Submitting a manual response in addition to the electronic response is cause for rejection of your bid.

Confirmed

PRICE TABLES

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
1	Current Model Year, Or Newer, 6 Yard Dump Truck With Plow And Spreader, As Specified, Or Equal	10	EA	\$258,121.00	\$2,581,210.00		Freightliner Current Model Year	365 Days	Per Spec	

Introduced on: November 5, 2025

Adopted by [ROBERT H HOOVER & SONS INC.] RESPONSE DOCUMENT REPORT

Official Resolution#: 2025001537

BID - MOTOR VEHICLES: DUMP, TANDEM AND TRI-AXLE TRUCKS

[ROBERT H HOOVER & SONS INC.] RESPONSE DOCUMENT REPORT

Bid No. TBD

MOTOR VEHICLES: DUMP, TANDEM AND TRI-AXLE TRUCKS

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
OPTIONS										
✓ 1A	52" Tall Moldboard in Lieu of 42" Standard	10	EA	\$2,973.00	\$29,730.00					
✓ 1B	Freedom 2.2 Spreader Control	10	EA	\$2,236.00	\$22,360.00					
✓ 1C	Larger Dump Body	10	EA	\$1,268.00	\$12,680.00					
✓ 1D	Paint for Dump Body	10	EA	\$3,434.00	\$34,340.00					
✓ 1E	Diagnostic Tools / Test Equipment, As Specified	3	SET	\$22,775.00	\$68,325.00					
✓ 1F	Two-Way Radio Power and Wiring Requirements for New Vehicle, As Specified	10	EA	\$750.00	\$7,500.00					
✓ 1G	Installation of County Supplied Two Way Radio and Accessories, As Specified	10	EA	\$1,500.00	\$15,000.00					

Introduced on: November 5, 2025

Adopted by: ROBERT H HOOVER & SONS INC.] RESPONSE DOCUMENT REPORT

Official Resolution#: 2025001537
 BID - MOTOR VEHICLES: DUMP, TANDEM AND TRI-AXLE TRUCKS

[ROBERT H HOOVER & SONS INC.] RESPONSE DOCUMENT REPORT

Bid No. TBD

MOTOR VEHICLES: DUMP, TANDEM AND TRI-AXLE TRUCKS

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
✓ 1H	Technical Support, As Specified	180	HOURL	\$500.00	\$90,000.00					
TOTAL					\$2,861,145.00					

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
✓ 2	Current Model Year Or Newer, Freightliner 114SD Chassis Tandem Truck, As Specified Or Equal	10	EA	\$304,406.00	\$3,044,060.00		Freightliner Current Model Year	365 Days	Per Spec	
OPTIONS										
✓ 2A	V-Box Spreader Specifications	10	EA	\$32,089.00	\$320,890.00					
✓ 2B	8' Under Tailgate Spreader Specifications	10	EA	\$3,971.00	\$39,710.00					
✓ 2C	Heated Body Specifications	10	EA	\$3,360.00	\$33,600.00					
✓ 2D	Chassis Upgrade to 74,000 GVWR	10	EA	\$9,876.00	\$98,760.00					

Introduced on: November 5, 2025

Adopted by ROBERT H HOOVER & SONS INC.] RESPONSE DOCUMENT REPORT

Official Resolution#: 2025001537

BID - MOTOR VEHICLES: DUMP, TANDEM AND TRI-AXLE TRUCKS

[ROBERT H HOOVER & SONS INC.] RESPONSE DOCUMENT REPORT

Bid No. TBD

MOTOR VEHICLES: DUMP, TANDEM AND TRI-AXLE TRUCKS

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
✓ 2E	Paint for Dump Body	10	EA	\$4,480.00	\$44,800.00					
✓ 2F	Paint Colors Not on Standard Color Chart	10	EA	\$1,426.00	\$14,260.00					
✓ 2G	Diagnostic Tools / Test Equipment, As Specified	3	SET	\$22,775.00	\$68,325.00					
✓ 2H	Two-Way Radio Power and Wiring Requirements for New Vehicle, As Specified	10	EA	\$750.00	\$7,500.00					
✓ 2I	Installation of County Supplied Two Way Radio and Accessories, As Specified	10	EA	\$1,500.00	\$15,000.00					
✓ 2J	Technical Support, As Specified	180	HOUR	\$500.00	\$90,000.00					
TOTAL					\$3,776,905.00					

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL

[ROBERT H HOOVER & SONS INC.] RESPONSE DOCUMENT REPORT

Bid No. TBD

MOTOR VEHICLES: DUMP, TANDEM AND TRI-AXLE TRUCKS

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
✓ 3	Current Model Year Western Star 49X SF Specialized Dump Truck With Plow And Spreader, As Specified Or Equal	10	EA	\$391,706.00	\$3,917,060.00		Western Star Current Model Year	365 Days	Per Spec	
OPTIONS										
✓ 3A	52" Tall Moldboard in Lieu of the 42" Standard	10	EA	\$2,973.00	\$29,730.00					
✓ 3B	Heavy Duty Heated Crossmemberless Stainless Steel Dump Body Under Options	10	EA	\$3,360.00	\$33,600.00					
✓ 3C	Freedom 2.2 Spreader Control In Lieu Of Manual Specifications	10	EA	\$2,236.00	\$22,360.00					
✓ 3D	Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications) In Lieu Of Manual Controls	10	EA	\$61,878.00	\$618,780.00					
✓ 3E	Paint for Dump Body	10	EA	\$4,480.00	\$44,800.00					

Introduced on: November 5, 2025

Adopted by ROBERT H HOOVER & SONS INC.] RESPONSE DOCUMENT REPORT

Official Resolution#: 2025001537

BID - MOTOR VEHICLES: DUMP, TANDEM AND TRI-AXLE TRUCKS

[ROBERT H HOOVER & SONS INC.] RESPONSE DOCUMENT REPORT

Bid No. TBD

MOTOR VEHICLES: DUMP, TANDEM AND TRI-AXLE TRUCKS

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year/Mfr./Make/Model:	Delivery, A.R.O.:	Warranty Details:	Comments:
✓ 3F	Spreader Leg Stands	10	EA	\$5,479.00	\$54,790.00					
✓ 3G	One-Way Plow with QCP	10	EA	\$15,030.00	\$150,300.00					
✓ 3H	Diagnostic Tools / Test Equipment, As Specified	3	SET	\$22,775.00	\$68,325.00					
✓ 3I	Two-Way Radio Power and Wiring Requirements for New Vehicle, As Specified	10	EA	\$750.00	\$7,500.00					
✓ 3J	Installation of County Supplied Two Way Radio and Accessories, As Specified	10	EA	\$1,500.00	\$15,000.00					
✓ 3K	Technical Support, As Specified	180	HOUR	\$500.00	\$90,000.00					
TOTAL					\$5,052,245.00					

Introduced on: November 5, 2025

Adopted by: ROBERT H HOOVER & SONS INC.] RESPONSE DOCUMENT REPORT

Official Resolution#: 2025001537
 BID MOTOR VEHICLES: DUMP, TANDEM AND TRI-AXLE TRUCKS

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL

COMPLIANCE
YES **NO**

CAB AND CHASSIS SPECIFICATIONS

General

Chassis designed for heavy-duty general use of a dump, snow plow and spreader truck with appurtenances

Set back axle truck package with a minimum bumper-to-back-of cab measurement of 114". Axle setback to provide the best turning radius possible.

Intended Service: Dump Truck

Cab to Body Clearance: 3 inches

Front Axle Capacity: 16,000 lbs.

Rear Axle Capacity: 25,000 lbs.

Expected GVW Capacity: 40,020 lbs.

Engine

Cummins L9, minimum 300 HP @ 2,200 RPM and 860 lb.-ft. torque @ 1,200 RPM. Shall be in-line 6 cylinder of wet sleeve design, and 50 State certification and electronics for simple service and diagnosis when needed. Minimum displacement shall be 8.9 liters. Engine must comply with latest federal mandate for diesel emissions. Should an alternate power plant be offered, the bidder shall provide all necessary technical data to show proof of equality.

Stainless steel oil pan and hardware

Engine Equipment

Engine must have latest diesel emission certification and OBD

Regen inhibit speed threshold-5 MPH

Enable regeneration in PTO mode

No PTO mode cancel vehicle speed

Oil check and fill: engine mounted

Alternator on 160 amp DR-28 825 brushless Quadra-mount with remote battery volt sense

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>CAB AND CHASSIS SPECIFICATIONS (CONT'D)</u>		
<u>Engine Equipment (Cont'd)</u>		
Batteries: Two (2) 12-volt GNB Maintenance Free 2000 CCA	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery Box: Plastic, frame-mounted, left side under cab	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Positive and negative posts for jumpstart located on frame next to starter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Positive load disconnect switch mounted outboard of driver seat. Must be protected from bottom of cab.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Compressor: 18.7 CFM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Discharge line: Teflon	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Engine Protection: electronic engine-integral warning system with shut down function	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Engine brake: Cummins exhaust brake	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Exhaust: Single right-hand under step mounted horizontal after-treatment system with diamond plate cover and cab access steps	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fan Drive: Air on/off drive automatic fan control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Oil filter: full-flow	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fuel filter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13 gallon diesel exhaust fluid tank shall be full of fluid at delivery	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Non-polished aluminum diamond plate diesel exhaust fluid tank cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radiator	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy-duty coolant: -34 degrees Fahrenheit extended life with coolant filter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Constant-torque clamps: constant torque for coolant hoses 1-3" diameter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Engine Heater: 115V	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>CAB AND CHASSIS SPECIFICATIONS (CONT'D)</u>		
<u>Engine Equipment</u>		
Chrome heater receptacle: mounted under driver's door	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Flywheel housing: Aluminum	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Air intake warmer	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Starter: Delco 12V 39 MT HD with OCP and magnetic switch	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Transmission and Equipment</u>		
Transmission: Allison World RDS 3500 six-speed electronic automatic with PTO provision, six (6) forward gears and one (1) reverse gear. Six-speed transmission programming (223) Programmed to unlimited output speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vehicle interface wiring, Magnetic engine drain, transmission and rear axle fill and drain plugs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vehicle interface wiring with body builder connector mounted back of cab	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electronic transmission customer access connector	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Underslung or overslung frame cross-member at transmission mount	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Trans oil check and fill with electronic oil level check	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Transmission cooler: heavy-duty water-to oil in radiator end tank	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PTO mounting LH side of transmission	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Front Axle and Equipment</u>		
Detroit DA-FS-16.0-572KPI/3.74 drop, minimum capacity @ ground of 16,000 lbs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Set Back Front Axle Design	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front brakes: Meritor cam 16.5 x 6" Q+ cast spider cam with dust shields	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front brake lining wear sensors	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Front brake drums: Conmet outboard-mounted cast-iron

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

CAB AND CHASSIS SPECIFICATIONS (CONT'D)

Front Axle and Equipment

Front oil seals

Synthetic 75W-90 front axle lube

Front hubcap: Vented oil-type with window center and side plugs

Front slack adjusters: Meritor or Haldex

Power steering pump: TRW TAS-85

Power steering reservoir: 4-quart

Suspension bushings: graphite bronze with seals

Front suspension: flat-leaf springs rated @ 16,000 lbs. minimum

Front shock absorbers

Rear Axle and Equipment

Meritor RS-25-160 series; 25,000 lbs

Rear axle ratio: 5.63

Rear axle carrier housing: heavy-duty iron

Main driveline: MXL176T Meritor extended lube with half-round yokes

Driver controlled traction differential with driver controlled differential lock rear valve with dash-mounted switch and blinking indicator lamp, differential unlock with ignition off, active @ 5 MPH

Lubrication: Synthetic 75W-90 rear axle lube

Rear Brakes: Meritor cam 16.5 x 7" P cast spider heavy duty double anchor fabricated shoes

Introduced on: November 5, 2025
Adopted on: November 5, 2025
Official Resolution#: 2025001537

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Rear axle brake linings: non-asbestos with dust shields

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

CAB AND CHASSIS SPECIFICATIONS (CONT'D)

Rear Axle and Equipment (Cont'd)

Rear brake drums: outboard-mounted cast iron

Brake cams and chambers on forward side of drive axle

Rear axle oil seals

Parking brake chambers: Bendix Eversure Longstroke spring parking brake chambers

Rear axle Automatic slack adjusters: Haldex

Rear Suspension: 26,000 lbs. Flat leaf with helper and radius rod

Fore and aft control rods

Axle clamp: Standard U-bolt pad

Brake System Equipment

Brake Package: Full air

Anti-lock brake system: Wabco four-channel, 4-sensor/4 modulator, with-out traction control enhancement

Chassis air lines: reinforced nylon, fabric braid and wire braid depending on location

Brake relay valve with 5-8 PSI crack pressure

Air dryer: Bendix AD9SI heated air dryer mounted inboard on LH rail

Air reservoirs: Aluminum

Air tank drain valves: Pull cables on all air tanks

Clear frame rails BOC to front of rear suspension both rails outboard

Quick disconnect fitting w/50' of 200 PSI hose for tire inflation

Trailer airbrake package with airlines to back of truck

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

CAB AND CHASSIS SPECIFICATIONS (CONT'D)

Frame and Wheelbase

Wheelbase: 150"

Cab-to-Axle: 84"

Frame: 2,592,000 RBM, 7/16" x 3 9/16" x 11 1/8" heat treated steel, 120,000 KSI yield strength single channel, double frame is not acceptable due to rust perforation of inner frame splayed frame shape at front with 24" front frame extension

End of frame: Square-cut

Rear Suspension Cross Member: Standard heavy-duty C-channel

Chassis Equipment

Front bumper: 14" steel 3/8" or Custom for snow plow mounting

Front tow hooks: Two (2) frame mounted

Fender and front of hood mounted front mud flaps

Front license plate bracket included

Chassis Fasteners: Grade 8 threaded Hex

Fuel Tanks and Equipment

Left hand fuel tank: 60-gallon, must be constructed of aluminum to preclude exterior corrosion and interior fuel contamination

Fuel tank: 25" diameter

Fuel tank and band finish: Polished stainless steel bands with plain aluminum tank

Fuel tank orientation: Forward mounted under cab

Introduced on: November 5, 2025
Fuel tank cap: Standard locking
Official Resolution#: 2025001537

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- Fuel/water separator: With heated bowl and primer pump
- Fuel hoses: Nylon high temperature reinforced

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

CAB AND CHASSIS SPECIFICATIONS (CONT'D)

Front Tires, Hubs and Wheels

- Front Tires: Michelin XZU-S 315/80R x 22.5 20 Ply
- Front Hubs: Conmet pre-set bearing iron (aluminum hubs are not acceptable)
- Front Wheels: Accuride model 29039 5-hand 5.25 inset 10-bolt hub-pilot 22.5" x 9.00" steel disc
- Front wheel nuts: Hub-pilot with flat flange

Rear Tires, Hubs and Wheels

- Rear Tires: Michelin XDS-2 11R22.5 16-ply
- Rear hubs: Conmet pre-set bearing iron (aluminum hubs are not acceptable)
- Rear wheels: Accuride model 28828 2-hand hole 10-bolt hub-pilot 22.5" x 8.25" steel disc wheel
- Rear wheel nuts: hub pilot with flat flange
- Wheel check high visibility green loose wheel nut indicator on all wheels

Spare Tires to be Included

- One (1) spare front tire mounted to wheel to match specified front wheels and tires
- One (1) spare rear tire mounted to wheel to match specified rear wheels and tires

Cab Exterior

Cab: 114" BBC conventional aluminum and/or steel cab, one-piece heated windshield, adjustable doors with concealed hinges, fiberglass hood and split fenders with splash shields that lift away from the engine compartment when the hood is tilted. Entry and egress shall be made via a 3-point system consisting of self-cleaning non-slip steps and a minimum of two (2) grab handles on each side for the operator and passengers to utilize, one on the inside of the door, and one on the cab exterior to the rear of the door. The steps shall be a minimum of 12" wide and the grab handles must be large enough to be safely grasped by one wearing heavy-duty work gloves.

Adopted on: November 5, 2025
Official Resolution # 202509537

Cab mounts: Air

Bug Screen: Non-removable mounted behind grille

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

CAB AND CHASSIS SPECIFICATIONS (CONT'D)

Cab Exterior (Cont'd)

Grab handles: Exterior LH/RH

Grille: Stationary Grille

Hood: Fiberglass

Air Horn under deck

Electronic horns: Dual

Key and Lockset: All trucks and all locks keyed the same with six (6) keys per unit

Headlights: Single halogen composite with bright bezels, headlights on with wipers

Marker lights: aerodynamic LED

Stop/Tail/Turn lamps at end of frame LED integral

Primary mirrors: Dual west coast bright finish with heater LH & RH remote

Mirror Mounting: Mirrors mounted on doors

Auxiliary mirrors: 8" convex bright finish mounted under primary mirrors both sides

Rear window: Tinted safety glass

Door windows: Tinted with lowered bottom beltline for increased sideward visibility and operating wing windows LH & RH

Door window regulators: Electric

Windshield: 1 piece tinted and heated

Introduced on: November 5, 2025
Adopted on: November 5, 2025
Windshield washer reservoir with fluid level indicator

Cab Interior

Interior Level: Gray vinyl interior

Interior convenience package roof mounted console with additional center compartment

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

CAB AND CHASSIS SPECIFICATIONS (CONT'D)

Cab Interior (Cont'd)

LH upper door trim: Molded door panel

RH upper door trim: Molded door panel

Dash mounted 12 volt power supply

Cup Holder

Air Conditioning

Main heater/vent control: Main HVAC with recirculation switch

HVAC ducting for fresh air intake with snow shield

Heater plumbing: Standard without ball shut off valves

A/C compressor: heavy-duty

A/C condenser: Radiator mounted

A/C plumbing; binary control with R134A refrigerant

Cab Insulation Package

12V negative ground electrical system

Interior lights: Dome door activated LH & RH

Cab door locks: Electric

Introduced on: November 5, 2025
 Driver seat: Elite high-back air suspension with 2 chamber air lumbar/heat, integrated
 Official Resolution#: 2025001537
 Custom extension forward and rear cushion tilt, adjustable shock absorber with dual

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

driver seat arm rest

Passenger seat: Elite high-back air suspension with 2 chamber air lumbar/heat, integrated cushion extension forward and rear cushion tilt, adjustable shock absorber with dual arm rest

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

CAB AND CHASSIS SPECIFICATIONS (CONT'D)

Cab Interior (Cont'd)

Driver seat cover: Vinyl

Seat belts: 3-point adjustable D-ring retractor for outboard seating positions

Steering column: Tilt

Interior sun visors: Standard driver and passenger

First Aid kit

5 lb. Fire extinguisher

Triangular Reflector kit

Instrument Panel and Controls

Gauge package: Electronic

Gauge finish: Black bezels

Low air pressure warning: Light and buzzer

Air system pressure gauge with primary and secondary gauges

Cruise control

Starter control: key-controlled

LCD odometer, trip odometer, hour meter and voltmeter

Diagnostic Interface connector: Located below dash

Introduced on: November 5, 2025
Accepted on: November 5, 2025
Official Resolution#: 2025001537

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- Coolant temperature gauge: Electric
- Transmission temperature gauge
- Hour meter: Integral with driver display

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

CAB AND CHASSIS SPECIFICATIONS (CONT'D)

Instrument Panel and Controls (Cont'd)

- Engine oil pressure gauge: Electric
- PTO switch with indicator lamp
- Radio: AM/FM WB with front auxiliary input
- Radio speakers: Two (2)
- Radio antenna
- Speedometer: Electronic, MPH scale
- Tachometer: Electronic, 3000 RPM
- Digital Voltage Display: Integral with driver display
- Windshield wiper control: Electric 2-speed with variable intermittent settings
- Snow plow light must be activated through OEM chassis wiring
- Four (4) on/off rocker switches in the dash with indicator lights
- Parking brake system: 2-valve system with warning indicator
- Turn signal switch: Self-cancelling with brake overriding stop lamps

Paint

- Paint type and color: Basecoat clear coat paint; color to be selected from standard color chart at time of order
- Paint design: Standard

Introduced on: November 5, 2025
 Accepted on: November 6, 2025
 Official Resolution#: 2025001537

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Bumper color: Black	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front and Rear wheel color: Powder-coated black	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

CAB AND CHASSIS SPECIFICATIONS (CONT'D)

Undercoating

Entire truck chassis, underside of cab and underside of added body, oil pan (dump, utility, platform) to be coated with Tectyl 2423 haps free black Which is a low VOC, high solids, emulsion corrosion preventive coating, or equal	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Accessories

One (1) complete set of filters for cab/chassis, drive train and upfit	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Five (5) gallons of recommended-use hydraulic fluid	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Manuals

The end unit shall be delivered with the following items:

One (1) fire extinguisher, interior mounted	<input checked="" type="checkbox"/>	<input type="checkbox"/>
One (1) complete set of all fluid filters, air filters and belts for engine, transmission, final drives, mounted equipment, optional equipment, and all accessories that have replaceable filters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Three (3) complete sets of mechanic’s parts “shop”, service and troubleshooting USB’s for chassis, engine, transmission, optional equipment, mounted equipment and accessories, including wiring diagrams. Parts manuals shall be in USB format (First ordered unit only) unless otherwise included in diagnostic software subscription	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Three (3) sets of Manufacturer’s Line Setting Sheets for chassis, mounted equipment, and optional equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>
One (1) “Build Book” per unit ordered. This Build Book shall include the brand, model, part number and serial number for the following items/systems: Hydraulic Control Valve; Hydraulic Control Cables; Hydraulic Reservoir; Plow; Spreader; Optional Freedom 2.2 Spreader Control (if ordered); PTO and Pump; Tarp System: Dump Body. A sample of this build book will be available to view during pre-build meeting.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

DUMP BODY SPECIFICATIONS – GALION HEAVY DUTY CROSS-MEMBER-LESS MODEL 433U STAINLESS DUMP BODY

Adopted on: November 5, 2025
Official Resolution#: 2025001537

General

The dump body required under these specifications shall be constructed of 304-2B stainless steel. Unit shall consist of a heavy duty body, hydraulic hoist, hydraulic pump, cab shield, safety accessories, and all other components necessary to make up a complete operating unit. The body and hydraulic hoist shall be manufactured by the same company. Hoist shall be Class 50 NTEA rated telescopic.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

DUMP BODY SPECIFICATIONS – GALION HEAVY DUTY CROSS-MEMBER-LESS MODEL 433U STAINLESS DUMP BODY

Minimum Body Dimensions

- Inside Length: 10'6"
- Inside Width: 84"
- Overall Width: 96"
- Side Height: 26"
- End Height: 36"
- Rear Post Height: 36"
- Capacity: 5.9/6.8 Cubic yards water level
- Cab Shield: 10 Gauge 304-2B, ½" x 90" Integral cab shield

Minimum Body Construction

- Sides: 7 gauge 304-2B stainless steel with formed sloping dirt shedding bottom rail
- Board Pockets: 10" x 7 GA 304-2B side board pockets for 4" wood
- Front/Tailgate: 7 GA 304-2B stainless steel
- Floor: Hardox 3/16" AR450 180,000 PSI steel with 2" side to floor radius
- Top Rail: 7 GA 304-2B stainless steel with formed in dirt shedding box top rail
- Side Braces: One (1) pressed outward "V" per side
- Oak Wood Side Boards: 2" x 4" side boards shall be placed on both sides of dump body
- Front Corner Post: 6" wide x 7 GA 304-2B
- 1 ¼" x 3/8" Tarp Rail: Full length stainless both sides (round bar not acceptable)
- Official Resolution#: 2025001537
Clip strip stainless steel rail – length of body at base

Introduced on: November 5, 2025
Adopted on: November 5, 2025

- Rear Corner Post: 15” wide full depth x 7 GA 304-2B
- 15” Full Depth Rear Bolster: 7 GA 304-2B stainless steel
- Tailgate: 7 GA 304-2B stainless steel. Full perimeter box bracing, two intermediate vertical braces and one intermediate horizontal brace.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT’D)

COMPLIANCE
YES **NO**

DUMP BODY SPECIFICATIONS – GALION HEAVY DUTY CROSS-MEMBER-LESS MODEL 433U STAINLESS DUMP BODY (CONT’D)

Minimum Body Construction (Cont’d)

- Six (6) panel double-acting tailgate with two sets of stainless steel banjo plates and long chains to allow tailgate to lie down horizontal with floor (Banjo eyes punched in rear post not acceptable). Steel D-ring inside top center of tailgate for removing tailgate.
- Heavy duty stainless steel “tarp friendly” top hardware with grease fittings and chains on top pins to prevent loss of them if removed. 1” overshot lower hardware.
- Tailgate release handle left front corner with chain & ring to lock handle closed. 5/8” release rod down left side alongside of long sills with enough gussets to prevent sagging.
- 3/8” spreader chains to be bright zinc plated steel covered with Naltex protection covering.
- Crossmembers: None
- Longsills: 10” @ 25.5# I-beam long sills
- Lighting: STD FMVSS 108 LED lights/reflectors. Must have one (1) oval LED Stop/Tail/Turn in each rear corner post. Three (3) 1” clearance lights mounted in pull plate in back of truck
- Body Up Indicator Light: As required by OSHA
- Underbody: Black
- Welding: Continuous exterior welding required (skip welding or caulking not acceptable). All welds must be cleaned at factory to remove all burn marks.

Minimum Hoist Requirements

- Hoist shall be Class 50
- Trunnion mounted to the body with the largest diameter of the cylinder at the bottom for increased stability
- The front head sheet of the body shall be of one piece and be of a height sufficient for hoist and have a dog house 10” deep by 20” wide

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

DUMP BODY SPECIFICATIONS – GALION HEAVY DUTY CROSS-MEMBER-LESS MODEL 433U STAINLESS DUMP BODY (CONT'D)

Minimum Hoist Requirements (Cont'd)

- All tubing sections of the cylinder shall be salt bath nitrided for superior corrosion resistance, increased hardness and durability
- U-cup type seals shall be positioned in the gland nuts of each section with a wiper installed above each seal to keep contaminants out
- When the tubes retract, they shall be surrounded by oil below the U-cup seals
- An outer cover shall enclose the cylinder while not in use
- Through means of the oscillating collar attached to the bottom of the outer cover, the body can be offset to one side 5 to 7 degrees without side loading the cylinder
- Cylinder first moving stage, 4 ½” O.D.
- Three (3) stages with 100” stroke
- Operating pressure, 2,000 PSI
- One (1) body prop

Miscellaneous

- Tailgate spreader chain kit
- One (1) oval Stop/Tail/Turn light cutouts in rear corner post

Introduced on: November 5, 2025
Adopted on: November 5, 2025

Official Resolution # 20250015371
Wiring for standard dump body lights enclosed in a sealed waterproof wiring harness.

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- Split loom not acceptable ☒
- Body and hoist shall come complete with manufacturer’s safety decals and operating instructions ☒
- Body and hoist warranted to be free from defects in material and workmanship under normal use and service for a period of five (5) years ☒
- One (1) stainless steel grab handle, driver side front ☒

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

DUMP BODY SPECIFICATIONS – GALION HEAVY DUTY CROSS-MEMBER-LESS MODEL 433U STAINLESS DUMP BODY (CONT'D)

Miscellaneous (Cont'd)

- Stainless steel side ladder; slide out; 2 step. Location to be determined by County. ☒
- 3M reflective tape on both sides of body and on 6-panel tailgate ☒
- Safety lock pins at lower tailgate hardware ☒

Accessories

- Back-up Alarm: Electric with minimum decibel level 97 DBA, 12-volt ☒
- Safety Lighting: Six (6) LED amber strobe lights. Two (2) recessed into rear post, two (2) sides of cab shield and two (2) front of cab shield ☒
- All body lights shall be LED ☒
- Spreader light at rear mounted to body, not spreader ☒
- 30-ton pintle hook ¾” pull plate with 5/8” D-rings ☒
- 7-way round trailer Pollak type plug with a removable end ☒
- One (1) set of Meyer Saber plow lights mounted on hood of chassis with stainless steel mounts. Location to be determined by County. ☒
- Two (2) forward facing strobe lights mounted on snow plow lights bracket to be powered by its own switch ☒

Introduced on: November 5, 2025
Adopted on: November 5, 2025

Official Resolution #: 2025011537
Electric brake controller to control 7-way flat trailer Pollak type plug with a removable

end

Glad hand at rear of pintle hook. Location to be determined by County.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

PIONEER MODEL EDD 1500D 8/15' TARP SPECIFICATIONS

Side Mount- Steel Framework

Roller Assembly – Telescopic – 3-piece

Left Roller Tube: 2.140 O.D. x 2.000 I.D. 6105-T6 aluminum extrusion with bushing and stainless steel roll pin to accept motor shaft

Right Roller Tube: 2.140 O.D. x 2.000 I.D. 6105-T6 aluminum extrusion with bushing. 1" O.D. 6061-T6 aluminum shaft and stainless steel roll pin

Center Section: 1.960" O.D. x 1.820 I.D. 6105-T6 aluminum extrusion

Bearing Plates: ¼" H.R.S.

Bearings: Flange Mounted Sealed Ball Bearings

Roll Mounting Angles: 1 ½" x 2" x ¼" Steel Angle

Direct Drive Gear Motor: Mounted directly to left side roller

Worm & Wheel Configuration: Permanently lubricated sealed gearbox. 90 to 1 Ratio

Output shaft shall be supported by ball bearings on both ends. Output shaft shall be directly coupled to left side roller. Electric motor is .85 horsepower. Aluminum gearbox housing. Plastic protective cover. ¾" O.D. output shaft. Motor is thermally protected by automatic resetting circuit breaker.

Introduced on: November 5, 2025
Adopted on: November 5, 2025

Pivot Arm Framework
Pivot Arm: 1.405" I.D. 6105-T6 Aluminum Extrusion with .250 W X .94 L reinforcing fin on one side and .75 W x .50 L reinforcing

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- block on other side. Overall height to be 3.185"
- Rear Section: 1 3/4" O.D. x 170 wall 6061-T6 Aluminum Extrusion
- Bows: 1 3/8" O.D. x .125 wall 6105-T4 Aluminum Extrusion
- Arm Mounting Brackets: Steel Weldment
- Base Plate: 1/4" H.R.S.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

PIONEER MODEL EDD 1500D 8/15' TARP SPECIFICATIONS (CONT'D)

Pivot Arm Framework (Cont'd)

- Mounting Hub: 4" O.D. steel tube
- Spring: Reverse wound torsion spring – 1/2" diameter wire
- Wire per ASTM A229 Class I

Fabric

- 100% Polyester, 1000 Denier, Black HD mesh, 13 oz. per square yard

Construction

- Seamless front to rear, rectangular in shape, 85" wide, grommets on front & sides, pocket at rear

Wiring and Electrical

- All wire shall be 8 gauge stranded cable, all connectors shall be ring type. High amperage self-centering rotary switch (Momentary On/Off – Momentary On). Thermal reset circuit breaker (Auto Reset).

CENTRAL HYDRAULIC MANUAL SYSTEM – STAINLESS ENCLOSURE

PTO

CHELSEA RESE MTCA 3301000175 MTCA3301

- The PTO shall be of a hot shift design driven off the Allison automatic transmission. The PTO shall have a direct mount rotatable pump flange. There shall be a console mounted rocker switch to engage and disengage the PTO.

Pump

PARKER P20A3469TA151725

- Adopted on: November 5, 2025
The pump shall be a 20250137 on, positive displacement, gear type pump. The pump shall feature pressure balanced, bronze wear plates and Teflon bushings. Pump shaft shall

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS
be a 7/8’ 13 spline shaft to couple with PTO. Pump size shall be 3.44 cubic inches of displacement.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

CENTRAL HYDRAULIC MANUAL SYSTEM – STAINLESS ENCLOSURE (Cont'd)

Control Valve

The control valve shall be a cast iron, sectional type spool valve. Valve shall have a priority inlet with adjustable flow control and adjustable main relief. The hoist section shall incorporate an auxiliary relief for the dump hoist down function. The Priority flow from inlet shall run to a combined flow section upstream of spreader section to ensure seamless operation of spreader during winter operations. The valve shall have a nominal flow rating of 20 GPM with flows to 30 GPM available with a pressure drop not to exceed 140 PSI.

Valve shall be a Parker-Gresen model V-20. Use of external flow dividers is unacceptable.

Valve shall be arranged as follows: 1 – Priority flow inlet; 2 – DA Hoist with 500 down side relief; 3 – DA Plow Raise; 4 – DA Plow Angle; 5 – Combined flow section; 6 – Spreader with detent and reverse

Spreader Control

The spreader control shall be a dual knob valve with on/off handle. The spreader valve shall have individual flow adjustment knobs for the spinner and auger. Spreader valve shall include a relief cartridge to protect the motors in the event of a material jam. Valve shall feature spinner priority to reduce material pile up from the auger at low flow conditions. ½” JIC Bulkhead fittings shall be drilled through frame rail to accommodate a short jumper hose with quick disconnects mounted to body.

Cable Controls

The control valve shall be shifted via sealed cable assemblies. The cable assembly shall feature a polyethylene conduit with armor over braid and Teflon liner. Cable assembly shall be rated for a minimum of 100 lbs. pull and 80 lbs. push. Cables shall be attached to the hydraulic valve by a bonnet type connection with clevis pin and locking clips. Cable shall be attached to an in-cab handle. The handle shall be mounted in a location convenient to the operator. The handle shall feature cast base construction with steel

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

internal parts and be rated for 80 lbs. of output force. A knob with identification label shall be attached to the end of the handle.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

CENTRAL HYDRAULIC MANUAL SYSTEM – STAINLESS ENCLOSURE (Cont'd)

Reservoir/Valve Enclosure

Reservoir must be constructed of 7 GA stainless steel. Reservoir/valve enclosure must be 30-gallon capacity with an integrated covered mounting area for the valve. All plumbing for the hydraulic valve inside the enclosure shall be SAE rated stainless steel tubing and terminate on the front of the reservoir with JIC bulkhead connectors. The breather cap shall be mounted to an inspection lid. Inspection lid shall also provide for an in-tank mounted return line filter. The filter assembly shall incorporate a 10 micron 50 GPM filter element with a 25 PSI bypass. The reservoir shall include a twist off filler/breather assembly with 40 micron vent filter and a fill screen. Reservoir shall be complete with a sight temperature gauge and a magnetic drain plug. Suction port shall allow for installation of a 2” NPT 50 GPM suction screen. Suction screen shall have a 3 to 5 PSI by-pass spring. A 2” full flow ball valve shall be installed in the suction line. Removing of a lid to access the filter and breather cap is not acceptable. The reservoir shall have a float switch to control PTO operation in the event of low oil.

SPX 050 AMERICAN ROADS TRITON SNOW PLOW
STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL PLOW
SPECIFICATIONS

Moldboard Specifications

Moldboard length of 11 feet

Moldboard height of 42 inches

Moldboard material shall be 10 gauge carbon steel smooth rolled profile providing ultra-smooth surface for snow deflection

Overhang from cutting edge shall have minimum 12” overhang with 10 degree attack angle.

Top of moldboard shall be reinforced by 2 1/2” x 2 1/2” x 3/8” angle iron.

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Bottom of moldboard shall be reinforced by 4 x 4 x 3/4" angle iron and drilled to accommodate AASHTO standards.

Ribs shall be reinforced with 2 x 2 x 3/8 angle as well as the upper and lower reinforcement angles. Ribs shall be 5" at the trip edge and 3" tall at the top edge by 1/2" wide. Ribs shall be spaced to match support arm locations as well as provide adequate support of the moldboard. A total of 12 ribs shall be used per moldboard assembly.

Three sets of double ribs and 6 single ribs.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL PLOW SPECIFICATIONS (CONT'D)

Moldboard Specifications (Cont'd)

Each rib shall have a 1/2" relief at the corners where they attach to the reinforcement angles. This allows water to drain off the back of the moldboard during storage.

At the bottom of each rib there shall be three 1 5/16" holes spaced at 1 7/8" center to center to allow for semi-circle height adjustment.

Two sets of double ribs shall have three 1 5/16" holes spaced at 2 1/4" center to center to allow for attack angle adjustment.

Weldments on the moldboard shall be continuous.

Outer rigs of moldboard shall be drilled for marker installation.

Two (2) curb guards mounted each side of moldboard.

Trip Mechanism Construction

Plow shall be full trip design consisting of two (2) coil springs.

Springs shall be 3/4" wire with a coil OD of 5 9/16", consisting of 16 full coils.

Bottom angle shall be reinforced by eleven (11) 1/2" thick gussets spaced evenly to avoid interference with cutting edge attachment hardware.

Cutting edge shall be 6" x 5/8" x 11' long and is drilled to AASHTO standards.

Cutting edge shall be secured using 5/8" grade 8 carriage bolts.

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Push Frame

- Push frame shall be designed to hydraulically reverse the moldboard in an arc at any angle from 35 degrees left to 35 degrees right from a centered position
- Push frame shall be constructed from a ½” plate
- Push frame shall be supported above and below the semi-circle with 2 x 4 x 3/16” tubing

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL PLOW SPECIFICATIONS (CONT'D)

Push Frame (Cont'd)

- Push frame shall be drilled to accept 1 ½” bolt at the semi-circle connection. At this connection, welded to the push frame is the female portion of the socket connection. This connection distributes the pushing load directly from the push frame to semi-circle and moldboard relieving stress on the bolted connection. The female socket connection is made from 1” plate steel and contoured to match the male portion on the semi-circle.
- Rear of push frame shall be drilled to accept a removable QCP adapter. Three sets of 1 3/16” holes shall be drilled on 2” centers to allow for installation on a variety of trucks and hitches
- Two holes shall be located on the top and bottom push frame plates drilled to accept 1 ½” bolts for hydraulic cylinder attachment.
- All welds must be continuously welded, no exceptions.

Semi-Circle Construction

- Semi-circle shall be constructed from 5 x 5 x 3/16” tubing. The main tube or “push beam 5 x 5 x 5 1/16” is 120” long spanning the entire width of the moldboard. This tube shall be constructed from one continuous piece.
 - There shall be two stops placed appropriately to prevent the plow from turning past 35° left or right.
 - Crank style jackleg (part #0091215) to be mounted on backside of semi-circle
- Introduced on: November 5, 2025
Adopted on: November 5, 2025
Official Resolution#: 2025001537
- Hydraulic cylinder mounting points shall be ½” plates welded to the top and bottom of

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

the semi-circle. Plates shall be drilled to accept 1 ½” bolts for hydraulic cylinder attachment. These plates also serve as locators for support arm shackles and gussets to provide additional support from the “push beam” to the rest of the semi-circle.

In the center of the semi-circle, a hole shall be drilled to accept the 1 ½” Grade 8 bolt that acts as the pivot point for the push frame. Also, at this point above and below the semi-circle shall be the male portion of the socket that relieves stress from the bolted connection. This shall be made from 1” plate steel and contoured to match the female portion on the push frame.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES NO

STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL PLOW SPECIFICATIONS (CONT'D)

Semi-Circle Construction (Cont'd)

Tabs shall be welded on the push frame to accept ½” screw type chain shackles. These tabs shall be made from ½” plate steel 5 ¼” long and 2 ½” wide. They shall be welded to the back side of the 5” tubular push beam to increase the weld surface area. They shall be welded at 55 degrees from the bottom of the semi-circle to match the chain angle going to the lift arm on the hitch.

There shall be seven sets of 3/4” thick moldboard mounting ears installed along the push beam for attachment of the moldboard. Moldboard shall pivot at these points on 1 ¼” diameter rivet pins with a washer and cotter pin on the opposite side of the rivet head.

Four sets of the moldboard mounting ears (two outer sets on either side of the push beam) shall have an inside spacing of ¾” to accept a single ½” moldboard rib. Three sets of the moldboard mounting ears (the center sets) shall have an outside spacing of 2 ¾” to fit inside double moldboard ribs.

Moldboard attachment ears shall be gusseted with 4” triangular steel gussets. The push frame shall connect to upper portion of the moldboard using two support arms. The center of the support arm shall be made from 2 x 2 x ¼” square box tube. Actual mounting points are 1” schedule 40 pipe fully welded through the box tubing. The box tubing shall be drilled through to accept the pipe, the actual connection point is a 7/8” bolt.

Adjustable Cast Mushroom Shoes

Plow to be fitted with adjustable cast steel mushroom shoes mounted left and right on rear of semi-circle

Introduced on: November 5, 2025
Adopted on: November 5, 2025

Official steel plate to be covered onto the semi-circle rear with five (5) adjusting holes for

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- overall height
- Adjusting handle crank to be stowable against the show housing and allow up and down movement of the shoe via threaded screw
- A 1 ¼” screw with adjusting nut are housed in a 3” square shoe housing with a welded on 5-hole mounting plate

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL PLOW SPECIFICATIONS (CONT'D)

Adjustable Cast Mushroom Shoes (Cont'd)

Cast steel mushroom plow shoe has 6” bolt centers, ¾” square holes and is 10.625” in diameter and 2.34 inches thick.

Grade 8 hardware shall be used throughout

Hydraulics

Plow angle shall be controlled by two double acting hydraulic cylinders

Each cylinder shall have a 4” bore with an 8” rod diameter with a maximum operating pressure of 3000 PSI

Retracted cylinder length shall be 21” with both the rod and cylinder ends accepting 1 ½” bolts/pins for connecting to the semi-circle and push frame.

Plow shall be equipped with one crossover relief valve. Valve shall use ½” ports and be set to a relief pressure of 1000 PSI.

QCP

Push frame shall be equipped with a removable QCP adapter for quick hitch applications

The side of the removable QCP shall be drilled to allow for three different mounting heights

Base of the QCP shall be made from MC4 x 13.8# channel

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

QCP side plate shall be ½” formed plate

QCP loop diameter shall be 2”

Paint

Paint shall be of high quality, free of runs, overspray, and defects

Standard paint type shall be epoxy

Standard paint color shall be safety orange

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPH A-152 ARM

BUMPER-TO-FRAME PLOW HITCH SPECIFICATIONS

Hitch Frame

Frame shall be heavy duty, low profile, front frame mounted style, designed for use with trucks equipped with a tilt hood and stationary grille - snow plow hitch must clear hood when open

The frame shall be capable of self-storing the hydraulic cylinder when not in operation thus allowing the lift arm to fold down parallel to the rest of the frame.

Vertical supports of the hitch shall be constructed from 4 x 4 x 3/8” square tubing.

Cylinder support bracket on the hitch shall be constructed from 3 ½” x 3 ½” x ½” angle fully welded to both vertical supports. The two cylinder mounting tabs shall be ½” steel placed in the center of support bracket and spaced at 2 1/8” apart. Each tab shall be drilled to accept a 1” pin.

The upper horizontal support of the hitch shall be constructed of two pieces. The first is a formed 3/8” plate that wraps the top and upper back portion of the vertical supports. This plate also acts as a stop when the lift cylinder is stored as well as one of two points the lift arms connection tabs are welded. The second horizontal support is a ½” contoured plate that allows the lift cylinder to be stored and provides a second mounting point for the lift arm connection tabs.

There shall be two pairs of lift arm support shackles. Each pair shall be made from ½” x 9 ¾” plate and drilled to accept 1 ¼” pins.

Introduced on: November 5, 2025

Added to the November 2025 supports shall be two C 8 x 18.75 channels with ½” thick end plates. The end plates shall be drilled to accept six 5/8” grade 8 bolts for attaching

Official Resolution#: 2025001537

the hitch between the frame rails.

Support of the lower portion of the hitch shall be provided by left and right hitch side plates constructed of 5/8” plate and securely bolted to the truck frame where appropriate.

Pin Lock QCP

Plow attachment shall be made by a pin lock QCP assembly

Top and bottom of the assembly shall be made from 1/2” contoured plate. Both plates shall be drilled to accept the 2” lock pin.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPH A-152 ARM

BUMPER-TO-FRAME PLOW HITCH SPECIFICATIONS (Cont'd)

Pin Lock QCP (Cont'd)

Welded to the bottom plate shall be a 5/8” chamfered plate that both provides support to the lock pin and helps to guide the QCP loop into the hitch

Welded to the top of the top plate shall be a formed 3/8” plate drilled for the 2” lock pin that both provides support and protects the pin in the event a plow is set too high while hitching

In front of the QCP assembly shall be two 1/2” thick form bumpers. These bumpers are the resting/pushing point for the plow. They shall be curved to allow the plow to raise and lower smoothly.

Lock pin shall be 2”, tapered at one end for ease in guiding into position, and has tabs welded to the other for the lift bar attachment.

Heavy Duty Lift Arm Assembly

Heavy duty lift arm shall be an extendable style with seven different extended positions.

Frame of the lift arm shall be constructed from 1/2” x 4” steel plate that is formed to contour the outer tube of the extendable arm. This frame is also the connection point to the hitch and hydraulic cylinder.

The external tube shall be constructed of 4” heavy wall square tubing. On each end of the tube are 1” wide bushings ground to fit the inner tube. This ensures a tight long lasting fit

Introduced on: November 5, 2025
Adopted on the November 5, 2025
Official Resolution#: 2025001537
Top plate shall be 3/16” and is used to prevent “racking” of the frame.

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

The inner tube shall be constructed of 3” heavy wall square tubing. Tubing is drilled to allow for the seven different extended positions.

Lift arm assembly shall be welded to the square tubing. Tubing shall be drilled to allow for the seven different extended positions.

Welded to the front of the inner tube shall be a formed ½” plate with notches to accept standard ½” link chain. When required this plate can be changed to match different level lift systems.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

STAINLESS STEEL 8’ UNDER TAILGATE SPREADER SPECIFICATIONS

MEYER BL-960

Specifications

Body Width: 96”

Hopper Height: 19”

Hopper Width: 96”

Hopper Depth: 18”

Spread Width: 4’-40’

Empty Weight: 450 lbs.

Spinner Diameter: 18”

Material Movement: Auger

Mounting Method: Under Tailgate

Hopper Material: Stainless Steel

Spreader Material: Salt or Salt/Sand Mix

Introduced on: November 5, 2025
Adopted on: November 5, 2025

Official Resolution #: 2025011537

This under tailgate shall be of the bottom opening design.

The spreader shall fasten to the corner posts of the dump body using spreader manufacturers' brackets and quick disconnect pins for quick mounting and removal without the use of special tools.

This mounting shall allow the dumping of materials without interference from the spreader.

This unit shall spread free flowing granular materials, abrasives and chemicals.

This unit shall be factory adapted to accept automatic control systems (only with a sensed motor).

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

STAINLESS STEEL 8' UNDER TAILGATE SPREADER SPECIFICATIONS (Cont'd)

General (Cont'd)

All stainless steel used in the production of this unit shall be corrosion resistant, non-magnetic stainless steel.

The manufacturing and production of this unit shall be of the best commercial practices, and only materials of the finest quality shall be used.

Trough

Rigid 10 GA stainless steel one piece end plates shall be continuously welded to a 10 gauge stainless steel auger trough & 3" x 1 1/2" formed channel stainless steel rear member.

The unit shall have a 10 gauge stainless steel three point hinged bottom door that when released, exposes the entire length of the auger for easy cleanout.

This hinged bottom shall be held in place by two replaceable heavy duty cam locks with a lift handle for convenient one man operation.

The anti-flow cover over the discharge opening shall be manufactured of 10 gauge stainless steel and removable without the use of tools.

The 10 GA stainless steel trough cover/backplate shall be one piece hinged integral part of the unit that may be raised when spreading and lowered for dumping operations.

This cover shall be capable of being locked in either the raised or lowered position by two replaceable cam operated latches.

Drive

A direct drive coupled hydraulic motor shall be provided for driving the auger.

This hydraulic motor shaft shall mount directly to the auger pipe by a non-corrosive sleeve and a 1/2" grade 8 bolt.

The hydraulic motor shall mount directly to the end plate

There shall be two separate hydraulic "orbital type" motors capable of delivering high torque at low speeds to power both the auger and the spinner.

The auger feed rate and spinner speed are both variable.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

STAINLESS STEEL 8' UNDER TAILGATE SPREADER SPECIFICATIONS (Cont'd)

Feed Mechanism

The 6" diameter (nominal) heavy duty auger shall consist of flights with outer edge at not less than .150 thickness, which is welded to a 2 7/8" diameter ERW pipe size tube.

This auger shall have continuous and reverse flighting to the discharge port for more uniform dump body unloading and shall be supported by 1 1/4" idler end shaft.

The auger idler shaft shall be supported in sealed self-aligning precision single row radial ball bearing with grease fitting.

The discharge port shall be located on the left side of the trough, approximately 21" in from the edge of the bottom door.

The spreader shall be equipped with a safety interlock device to positively prevent power from reaching the auger motor when the top cover and bottom door are opened beyond the normal operation position.

Spinner

The spinner shall consist of a disc and six (6) fins molded into a single polyurethane unit, resulting in a flat trajectory and uniform spread pattern from 4 to 40 feet in width.

The spinner assembly shall be adjustable side to side, allowing for variable spread patterns left, right, and center of vehicle.

This shall be accomplished by sliding the hinged frame sideways on the shaft so that the official resolution the 2025001521 hits the spinner disc is varied.

Produced by November 5, 2025
Adopted on: November 5, 2025
Official Resolution the 2025001521

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- The entire spinner assembly shall be easily removed by pulling two pins, and uncoupling two hydraulic quick disconnect hoses
- The spinner disc shall be mounted directly onto the hydraulic motor shaft by means of a cast iron spinner hub.
- The spinner shall be linked to the truck frame with a universally mounted parallel arm to keep the spinner horizontal to the road surface at all dump body angles.
- A spinner shield shall be provided to prevent material from striking the truck.
- The spinner shall be adjustable in height in four positions.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

STAINLESS STEEL 8' UNDER TAILGATE SPREADER SPECIFICATIONS (Cont'd)

Spinner (Cont'd)

- The entire spinner assembly shall be made of stainless steel except for the motor and the spinner disc.

Mounting

- This spreader shall fasten to the side of the dump box using quick disconnect pins for quick mounting and removal without the use of special tools.

Painting

- All stainless steel shall be chemically cleaned, but remain un-painted. Carbon steel components shall be chemically cleaned and coated with a lead free rust inhibitive primer and painted with lead free black.

WARRANTY DETAILS

- Cab and Chassis: Extended Warranty: 5 year/150,000 mile engine warranty with unlimited hours to include turbo, injectors and ATS; 5 year transmission warranty with unlimited mileage; 5 year towing for warrantable repairs warranty
- Stainless Steel Dump Body: 5 year warranty on hoist and body structure
- Tarp: 1 year warranty on motor and moving parts
- Central Hydraulic Manual System: 1 year warranty parts and labor
- Complete Plow System: 3 year warranty

Introduced on: November 5, 2025
Adopted on: November 5, 2025
Council Resolution #: 202500157

Under Tailgate Spreader: 1 year warranty

Warranty shall start on date of acceptance of vehicle by the County.

Vendor shall submit all warranty details with bid submission.

OPTIONS

1A. 52” Tall Moldboard in Lieu of 42” Standard

1B. Freedom 2.2 Spreader Control

Controller shall have 3 Pulse Width Modulation (PWM) output channels for liquid and granular spreader controller.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (Cont'd)

1B. Freedom 2.2 Spreader Control (Cont'd)

The controller shall be a microprocessor type capable of PWM control of three hydraulic valves.

Controller must be automotive grade for durability. Any gaming type controllers are unacceptable.

The controller must offer ground speed control from vehicle signal. No GPS antenna can be used for ground speed signal input.

The controller must have three channels to operate an auger/conveyor and liquid system.

PWM signal must be adjustable for a wide range of implement functionality.

The controller shall be capable of ground speed oriented spreading, ground speed triggered, and manual mode.

The system shall offer a manual mode lock out option.

The spreader controller shall operate in open or closed loop configuration.

Controller shall offer remote pause, unload mode, liquid float input, test speed, and on-screen error with alarms and message reporting.

Introduced on: November 5, 2025
Adopted on: November 5, 2025
Since Rescinded: 2/20/2015 with message and alarm.

- System must have 2 auxiliary output channels available.
- System shall offer spinner configurable MPH shut off, storm totals on screen or with USB.
- Operator screen shall offer knobs or touch screen to control granular and liquid outputs.
- There shall be nine (9) independently programmable feeder output channels for accurate lbs. per mile output.
- The system shall also offer 9 programmable speeds for the spinner.
- System shall maintain up to 4 different granular material types.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

1B. Freedom 2.2 Spreader Control (Cont'd)

- There shall be an integrated blast mode with instant off to stop output if necessary.
- Blast must be programmable for flow rate and material distance.
- Unit shall provide an unload mode at speeds of up to 5 MPH.
- A standby (pass) mode shall be provided to allow for momentary interrupt of the spreader without changing the feeder/spinner/liquid output.
- All programming and calibration shall be accomplished using the touch screen of the controller. Detachable key board is not acceptable.

Modular Granular and Liquid Valve

- The modular manifold must be constructed of 6061 anodized aluminum.
- Modular manifold must have an adjustable pressure of up to 3500 PSI with multiple flow, pressure, performance, and function configurations.
- Each function shall be equipped with screw adjustable manual overrides protected by jacketed debris covers.
- The modular manifold shall operate in either open center (fixed displacement) or closed center (variable displacement) hydraulic circuits.

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

The auger/conveyor must be rated at 15 GPM and feature a cartridge valve design for precision spreading.

The spinner valve must provide 10 GPM and also feature a cartridge design valve with manual override.

Pre-wet or anti-ice implements shall be available as a 10 GPM hydraulic circuits if necessary.

Additional cartridge valve required for liquid system.

These functions shall be proportional controlled, pulse width modulated, pressure and flow compensated, with heavy duty 12 VDC coils.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

1B. Freedom 2.2 Spreader Control (Cont'd)

Modular Granular and Liquid Valve (Cont'd)

Spreader control “outside the cab” harnessing shall meet IP 68 standards.

Connections must be NEMA x6 standards for dust protection.

Outside the cab connections shall be rated as NEMA “x8” – protected against the effects of a permanent submersion in water as well as able to show no corrosion after 500 hours in a 35C salt spray.

The entire hydraulic system shall be completely serviceable without removing from the enclosure or disassembling sections.

The electronics and hydraulics shall be manufactured by the same company

The hydraulic system shall be pressure and flow tested before the installation process.

The modular spreader valve manifold shall be mounted in a weather resistant enclosure.

Enclosure shall be vented to reduce moisture.

Five (5) year warranty on spreader valve, Two (2) year warranty on controller.

Introduced on: November 5, 2025
Adopted on: November 5, 2025
Official Report # 20250153

1C. Larger Dump Body
Official Report # 20250153
have same specifications as indicated in base vehicle, but with

30” sides to maintain a water capacity of 6.8 cubic yards.

1D. Paint for Dump Body

Paint specified dump body in a single stage paint a single color (i.e. School Bus Yellow or other paint color from color chart).

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

1E. Diagnostic Tools / Test Equipment

Cummins Quickserv Unlimited Service plan, with renewals, shall be provided at no cost to the county for a period of five (5) years from the acceptance of the equipment.

1. Successful bidder may be required to supply between one (1) to three (3) complete sets of test/diagnostic/ programming equipment (i.e. laptop, software, cabling, and adapters) and special tools required to perform the full range of diagnostic and maintenance actions necessary to maintain vehicle operability. This equipment will cover the vehicle chassis, engine, transmission, brakes, hydraulics, and all additional equipment (if applicable).
2. All laptop computers will be of the newest available technology and have sufficient storage and memory to operate all required software.
3. Provide a list of all test/diagnostic/programming equipment and special tools being supplied at the time of bid.
4. All software installations and activations will be completed by the successful bidder at no cost to the County.
5. All software updates and renewal will be provided at no cost to the County for a period of five (5) years from the acceptance of the equipment.
6. All technical issues relating to test/diagnostic/programming equipment and special tools shall be resolved by the successful bidder at no cost to the County for a period of five (5) years from the acceptance of the equipment.
7. Training shall be provided on all items in this section at a County location.

1F. Two-Way Radio Power and Wiring Requirements for New Vehicles

For the purpose of installing two-way radios into new County vehicles and equipment,

the following power and wiring components shall be included:

Introduced on: November 5, 2025
 Approved by: November 11, 2025
 Official Resolution#: 2025001537

- 1. #12 AWG RED wire connected to 12VDC Battery Source rated at 20 Amps.
- 2. #12 AWG BLACK wire connected to chassis ground.
- 3. #16 AWG YELLOW wire connected to 12VDC Ignition Sense rated at 5 Amps.

These wires shall be encased in plastic wire loom and routed from their source into the cab of the vehicle and secured in the vicinity of the operator. The wiring harness shall be clearly labeled "TWO-WAY RADIO". The wires shall be unterminated. The 12VDC sources shall be protected from making contact with grounded metal surfaces.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

1G. Installation of County Supplied Two Way Radio and Accessories

Install is to include but not limited to antenna cable, mounts, speakers, brackets, etc. For the purpose of installing two-way radios into new County vehicles and equipment, the following power and wiring components shall be included:

- 1. #12 AWG RED wire connected to 12VDC Battery Source rated at 20 Amps.
- 2. #12 AWG BLACK wire connected to chassis ground.
- 3. #16 AWG YELLOW wire connected to 12VDC Ignition Sense rated at 5 Amps.

These wires shall be encased in plastic wire loom and routed from their source into the cab of the vehicle. The wiring harness shall be clearly labeled "TWO-WAY RADIO". The 12VDC sources shall be protected from making contact with grounded metal surfaces.

1H. Technical Support

Technical Support is to be provided by factory authorized technical representatives and is to be the original equipment Manufacturers' industry standard technical presentation in a classroom setting.

The support provided shall be at the journeyman/equipment technician level and should address limited theory, fault diagnosis and repair pertaining specifically to the equipment supplied under this specification.

Introduced on: November 5, 2025
Adopted on: November 5, 2025

Technical support may be requested in the following areas:

Official Resolution # 2025091537

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- 1. Engine (cooling, fuel, ignition, lubrication systems) – 1 day at each location.
- 2. Transmission – 1 day at each location
- 3. Electrical – 1 day at each location
- 4. Brakes – 1 day at each location
- 5. Hydraulic system (dump body, spreader, snow plow) – 1 day at each location
- 6. Upfitter (dump body, sweeper, etc.) – 1 day at each location

A technical representative(s) shall be made available for a total of 180 training/support hours (anticipated to be scheduled in six (6) hour blocks). Shorter training days will be allowed only with consent of Vehicle Services. The total training hours will be required to be provided and no additional compensation will be considered. The actual time to be spent on each area will be by mutual agreement of the Vehicle Services Department and the successful bidder.

ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

1H. Technical Support (Cont'd)

For the purposes of determining materials and other training costs, class size is anticipated to be comprised of six (6) to ten (10) Vehicle Services Department personnel. Actual class size will be determined by the Vehicle Services Department at the time the classes are scheduled.

Before the training is scheduled, Vehicle Services and the contractor will agree on the scope of the training, and the type and quantity of manuals, etc. that are necessary for proper coverage.

Technical Support for Vehicle Services may be provided at the following fleet maintenance facility location as scheduled by a Vehicle Services Department representative:

- a. Toms River, 152 Chestnut Street, Toms River, N.J. 08753 (Two (2) sessions will be provided at this location. One beginning at 7 am and another beginning at 1:30 pm)
- b. Manahawkin, 379 Haywood Road, Bldg. 109, Manahawkin, N.J. 08050

Technical Support for other Departments will be held at a location within Ocean County. The requesting Department will notify the successful bidder of the location.

Training at the successful bidder's site, rather than the designated locations, will be by mutual consent only.

Introduced on November 5, 2025
Adopted on: November 5, 2025
Official Resolution#: 2025001537

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Technical support will be requested and scheduled on an as needed basis up to but not exceeding the 180 hours total during a period not to exceed twelve (12) months from the date of placing the last unit in service.

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>GENERAL</u>		
66,000 GVWR	<input checked="" type="checkbox"/>	<input type="checkbox"/>
114SD conventional chassis; setback axle truck	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Trailer towing provision at end of frame for truck	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LH primary steering location	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Truck/trailer configuration	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Expected front axle(s) load: 20,000 lbs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Expected gross vehicle weight capacity: 66,000 lbs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Expected gross combination weight: 66,000 lbs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adjustable tilt and telescoping steering column 4-spoke 18 inch (450 mm) steering wheel	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>ENGINE</u>		
Cummins X12 455V HP @ 1900 rpm, 1550 lb-ft@ 1000 rpm, 2000 Gov rpm, VOE, or equal	<input checked="" type="checkbox"/>	<input type="checkbox"/>
75 mph road speed limit with cruise control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Regeneration inhibit speed threshold - 5 mph	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>ENGINE EQUIPMENT</u>		
2010 EPA/Carb/GHG21 configuration	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Clean Idle certified (includes 6x4 inch label on lower forward corner of driver door)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adopted on: November 5, 2025	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Official Resolution #: 202501537	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Standard oil pan with engine mounted oil check and fill	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Side of hood air intake with Donaldson, or equal, high capacity air cleaner with safety element, firewall mounted	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Delco Remy 12V 160 amp 36-SI brush-less quadramount pad alternator with remote battery volt sense	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(3) dtna genuine, flooded starting, min 3000CCA, threaded stud batteries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery box frame mounted standard battery jumpers	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Single battery box frame mounted lh side back of cab	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wire ground return for battery cables with additional frame ground return	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Non-polished battery box cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cab auxiliary power cable	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

ENGINE EQUIPMENT (CONT'D)

Positive load disconnect with cab mounted control switch	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mounted outboard driver seat	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Positive and negative posts for jumpstart located on frame next to starter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cummins naturally aspirated 25.9 cfm air compressor with internal safety valve	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electronic engine integral shutdown protection system	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cummins intebroke brake with high/med/low brake	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RH outboard under step mounted horizontal aftertreatment system assembly with	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RHB-pillar mounted vertical tailpipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Engine aftertreatment device, automatic over the road regeneration and dash mounted regeneration request switch	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11' 6" standard curve bright upper stack	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RH curved vertical tailpipe B-pillar mounted routed from step	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13 gallon diesel exhaust fluid tank	<input checked="" type="checkbox"/>	<input type="checkbox"/>
100% diesel exhaust fluid fill	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Standard diesel exhaust fluid pump mounting and tank cap	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Non-polished aluminum diamond plate diesel exhaust fluid tank cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LH medium duty standard diesel exhaust fluid tank location	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel aftertreatment device/muffler/tailpipe shield	<input checked="" type="checkbox"/>	<input type="checkbox"/>
on/off fan drive	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Introduced on: November 5, 2025
 Adopted on: November 5, 2025
 Effective date: 11/05/2025

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Automatic fan control with dash switch and indicator light, non-engine mounted	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cummins spin on fuel filter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Combination full flow/bypass oil filter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1500 square inch aluminum radiator	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Antifreeze to -34°F, oat (nitrite and silicate free) extended life coolant gates blue stripe coolant hoses or equivalent	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Constant tension hose clamps for coolant hoses	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radiator drain valve	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lower radiator guard	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Phillips-temro 1500 watt/115 volt block heater	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

ENGINE EQUIPMENT (CONT'D)

Chrome engine heater receptacle mounted under LH door	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Delco 12V 39MT HD/OCP starter with thermal protection and integrated magnetic switch	<input checked="" type="checkbox"/>	<input type="checkbox"/>

TRANSMISSION AND EQUIPMENT

Allison 4500 RDS automatic transmission with PTO provision	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Allison vocational package 223 - Maximum output speed for PTO operation 4000 rpm - Allison 5th gen transmissions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vehicle interface wiring connector without blunt cuts, at back of cab electronic transmission customer access connector firewall mounted customer installed Chelsea 280 series PTO	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PTO mounting, LH side of main transmission	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Magnetic plugs, engine drain, transmission drain, axle fill and drain push button electronic shift control, dash mounted	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Transmission prognostics	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Water to oil transmission cooler, frame mounted transmission oil check and fill with electronic oil level check	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Synthetic transmission fluid (TES-295 compliant)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

FRONT AXLE AND EQUIPMENT

Detroit da-f-20.0-5 20,000 lb. FLL 71.0 kpl/3.74 drop single front axle	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Meritor 16 SX6 cast spider cam front brakes, double anchor, fabricated shoes	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Non-Asbestos friction lining	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Introduced on: November 3, 2025
 Adopted on: November 5, 2025
 Official Revision #: 0025001437

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Cast iron outboard front brake drums front brake dust shields	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front oil seals	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vented front hub caps with window, center and side plugs - oil standard spindle nuts for all axles	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Haldex automatic front slack adjusters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TRW-THP-60 power steering with RCH45 auxiliary gear power steering pump	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4 quart power steering reservoir oil/air power steering cooler	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Current available synthetic 75W-90 front axle lube	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>FRONT SUSPENSION</u>		
20,000 lb. flat leaf front suspension	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Graphite bronze bushings with seals	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front suspension front shock absorbers	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>REAR AXLE AND EQUIPMENT</u>		
RT-46-164P 46,000 lb. R-series tandem rear axle	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Iron rear axle carrier with standard axle housing RPL125SD Meritor main driveline	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RPL20 Meritor interaxle driveline	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Driver controlled traction differential - both tandem rear axles	<input checked="" type="checkbox"/>	<input type="checkbox"/>
One (1) interaxle lock valve, one (1) driver controlled differential lock forward rear and rear-rear axle valve	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Blinking lamp with each interaxle lock switch	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Interaxle unlock default with ignition off	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Blinking lamp with each mode switch, differential unlock with ignition off, active <5 mph	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Meritor 16.SX7 Q+ cast spider heavy duty cam rear brakes, double anchor, fabricated shoes	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Non-asbestos rear brake lining	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Brake cams and chambers on forward side of drive axle	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Conmet cast iron rear brake drums	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rear brake dust shields rear oil seals	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Brake drum reverse lock for equal	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2-drive axles spring parking chambers	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- Haldex automatic rear slack adjusters
- Synthetic 75w-90 rear axle lube
- Standard rear axle breathers

REAR SUSPENSION

- Tuftrac Gen2 46,000 lb. rear spring suspension
- 9.5 inch nominal ride height (460 mm global reference height) axle clamping group
- 55 inch axle spacing
- Fore/aft and transverse control rods rear shock absorbers -two axles

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

BRAKE SYSTEM

- Wabco 4s/4M ABS
- Reinforced nylon, fabric braid and wire braid chassis air lines
- Fiber braid parking brake hose
- Standard brake system valves
- Standard air system pressure protection system Standard US front brake valve
- Relay valve with 5-8 psi crack pressure, no rear proportioning valve
- Wabco system saver HP with integral air governor and heater
- Wabco oil coalescing filter for air dryer
- Air dryer mounted inboard on LH rail aluminum air brake reservoirs
- Pull cables on all air reservoir(s)
- Quick disconnect fitting with tire inflation kit

TRAILER CONNECTION

- Air connections to end of frame with glad hands for truck and no dust covers
- Primary connector/receptacle wired for separate stop/turn
- ABS center pin powered through ignition
- SAE J560 7-way primary trailer cable receptacle mounted end of frame

WHEELBASE AND FRAME

- 4450 mm (175 inch) wheelbase
- Introduced on: November 5, 2025
- Approved by: [Signature]
- Official Resolution#: 2025001537

120 ksi partial inner frame reinforcement at front suspension	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1600 mm (63 inch) rear frame overhang	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Frame overhang range: 61 inch to 70 inch	<input checked="" type="checkbox"/>	<input type="checkbox"/>
24 inch integral front frame extension	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Calculated back of cab to rear suspension c/l (ca): 109.65 in	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Calculated effective back of cab to rear suspension c/l (ca): 106.65 in calculated frame length - overall: 307.79 in	<input checked="" type="checkbox"/>	<input type="checkbox"/>
High Visibility green loose lug nut indicators	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE

YES **NO**

WHEELBASE AND FRAME (CONT'D)

Calculated frame space lh side: 30.64 in calculated frame space rh side: 16.03 in square end of frame	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front closing crossmember	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Standard weight engine crossmember	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Standard midship #1 crossmember(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Standard rearmost crossmember	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy duty suspension crossmember	<input checked="" type="checkbox"/>	<input type="checkbox"/>

CHASSIS EQUIPMENT

14 inch painted steel bumper front tow hooks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Frame mounted bumper mounting for single license plate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Grade 8 threaded hex headed frame fasteners	<input checked="" type="checkbox"/>	<input type="checkbox"/>

FUEL TANKS

60 gallon/227 liter aluminum fuel tank - LH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25 inch diameter fuel tank(s) with polished stainless steel bands	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fuel tank(s) forward polished step finish custom fuel tank cap	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alliance fuel filter/water separator Equiflo inboard fuel system	<input checked="" type="checkbox"/>	<input type="checkbox"/>
High temperature reinforced nylon fuel line	<input checked="" type="checkbox"/>	<input type="checkbox"/>

TIRES/HUBS/WHEELS – FRONT AND REAR

Michelin XZU-S2 315/80R22.5, 20-ply radial front tires	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Michelin XDS2 11R22.5, 16-ply radial rear tires	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Conner preset plus premium iron front hubs	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Conmet preset plus premium iron rear hubs wheels	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Accuride 29039 22.5X9.00 10-hub pilot 5.25 inset 5-hand steel disc - Front	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Accuride 28828 22.5X8.25 10-hub pilot 2-hand HD steel disc rear wheels	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front and rear wheel mounting nuts	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nylon wheel guards front and rear - all interfaces	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Black, high solids polyurethane chassis paint powder white (N0006EA) front and rear wheels/rims (PKWHT21, TKWHY21, W, TW) powder white (N0006EA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

TIRES/HUBS/WHEELS – FRONT AND REAR

One (1) spare rear wheel and tire setup	<input checked="" type="checkbox"/>	<input type="checkbox"/>
One (1) spare front wheel and tire setup	<input checked="" type="checkbox"/>	<input type="checkbox"/>

CAB EXTERIOR

114 inch BBC flat roof aluminum conventional cab air cab mounting	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nonremovable bugscreen mounted behind grille short fender with mudflap	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bolt-on molded flexible fender extensions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LH/RH exterior grab handles with single rubber insert	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bright finish radiator shell/hood bezel	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stationary black grille with bright accents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chrome hood mounted air intake grille fiberglass hood	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tunnel/firewall liner	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Air horn and electric horns	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rear license plate mount end of frame	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Halogen composite headlamps with bright bezels LED aerodynamic marker lights	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Headlights on with wipers	<input checked="" type="checkbox"/>	<input type="checkbox"/>
No daytime running lights	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Integral LED stop/tail/backup lights	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Standard front turn signal lamps	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dual west coast bright finish heated mirrors with LH/RH remote door mounted mirrors	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Introduced on: November 5, 2025
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 Official Resolution: 202507137

LH/RH 8 inch bright finish convex mirrors mounted under primary mirrors	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Standard side/rear reflectors	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RH aftertreatment system cab access with plain diamond plate cover composite exterior sun visor	<input checked="" type="checkbox"/>	<input type="checkbox"/>
63 x 14 inch tinted rear window	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tinted door glass –LH/RH with tinted operating wing windows	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LH/RH electric powered windows	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1-piece bonded heated wiper park solar green glass windshield	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

CAB EXTERIOR (Cont'd)

2 gallon windshield washer reservoir with fluid level indicator, frame mounted	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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CAB INTERIOR

Opal gray vinyl interior	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Molded plastic door panel without vinyl insert	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Black mats with single insulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forward roof mounted console	<input checked="" type="checkbox"/>	<input type="checkbox"/>
In-dash storage bin	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LH door map pocket	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LH/RH integral door panel armrests	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Driver and passenger interior sun visors	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) cup holders - LH/RH dash	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gray/charcoal flat dash	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5 lb. Fire extinguisher	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First aid kit	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heater, defroster and air conditioner	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Standard HVAC ducting with snow shield for fresh air intake	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Main HVAC controls with recirculation switch	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Standard heater plumbing with ball shutoff valves	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Variable heavy duty A/C refrigerant compressor binary control, R-134A	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Premium insulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Solid-state circuit protection and fuses with spare fuse kit 12V negative ground electrical system	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Door locks and ignition switch keyed the same	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Triangular reflectors without flares	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LH/RH electric door locks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
One (1) 12 volt power supply in dash	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Elite Isringhausen high back air suspension driver’s seat with 2 air lumbar, integrated cushion extension, tilt and adjustable shock, heat	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

CAB INTERIOR (Cont'd)

Premium Isringhausen high back air suspension passenger seat with 2 air lumbar, integrated cushion extension, tilt and adjustable shock	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Six (6) sets of keys	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SEATS

Dual driver and passenger seat armrests	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Black and gray driver and passenger seat with modura cloth	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Black seat belts	<input checked="" type="checkbox"/>	<input type="checkbox"/>

INSTRUMENTS AND CONTROLS

Low air pressure indicator light and audible alarm	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Primary and secondary air pressure gauges	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Intake mounted air restriction indicator without graduations	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Backup alarm	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electronic cruise control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Key operated ignition switch and integral start position	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4 position off/run/start/accessory	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electric fuel gauge	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electronic Tachometer		
Electrical engine coolant temperature gauge	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Transmission oil temperature gauge	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Engine and trip hour meters integral within driver display	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Adopted on: November 5, 2025

Official Resolution #: 2025001537

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

One (1) dash mounted PTO switch with indicator lamp	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electric engine oil pressure gauge	<input checked="" type="checkbox"/>	<input type="checkbox"/>
AM/FM/WB world tuner radio with Bluetooth, USB and auxiliary inputs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) Radio speakers in cab	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electronic mph speedometer with secondary KPH scale	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

INSTRUMENTS AND CONTROLS (CONT'D)

Ignition switch controlled engine stop	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Minimum of four (4) ignition controlled extra switches	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tractor protection valve trailer hand control brake valve	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Digital voltage display integral with driver display	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Single electric windshield wiper motor with delay	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Marker light switch integral with headlight switch and dual connectors and switch for customer furnished snowplow lights	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Low beams off with high beams	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two-valve parking brake system with warning indicator	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Self-canceling turn signal switch with dimmer	<input checked="" type="checkbox"/>	<input type="checkbox"/>
washer/wiper and hazard in handle	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Integral electronic turn signal flasher with hazard lamps overriding stop lamps	<input checked="" type="checkbox"/>	<input type="checkbox"/>

FINISH

Paint: one solid color – shall be chosen from color chart at time of order	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Entire truck chassis, underside of cab and underside of body to be coated with Tectyl 2423 haps free black, which is a low VOC, high solids, emulsion corrosion Preventive coating, or equal	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Color: black	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dry film: firm/flexible solvent: mineral spirits flash point °f: 104°f application	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COLOR

Introduced on: November 5, 2025
 Adopted on: November 5, 2025
 Official color: black basecoat paint

<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Sunvisor painted same as cab color a standard coat/undercoating

EXTENDED WARRANTY

Cummins engine Carb: X12 HD 5 years/ 200,000 miles extended warranty

Allison 4500 RDS series transmission extended warranty, 7 years/unlimited miles

Towing: 5 years/unlimited miles

Ext chassis ATS: standard moderate/vocational 5 years/200,000 miles extended coverage

ACCESSORIES

Full set of all filters – fuel, oil, air, and cabin

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE

YES **NO**

MANUALS

The end unit shall be delivered with the following items:

One (1) fire extinguisher, interior mounted

One (1) complete set of all fluid filters, air filters and belts for engine, transmission final drives, mounted equipment, optional equipment, and all accessories that have replaceable filters

Three (3) complete sets of mechanic’s parts “shop”, service and troubleshooting USB’s for chassis, engine, transmission, optional equipment, mounted equipment and accessories, including wiring diagrams. Parts manuals shall be in USB format (First ordered unit only) unless otherwise included in diagnostic software subscription

Three (3) sets of Manufacturer’s Line Setting Sheets for chassis, mounted equipment, and optional equipment

One (1) “Build Book” per unit ordered. This Build Book shall include the brand, model, part number and serial number for the following items/systems: Hydraulic Control Valve; Hydraulic Control Cables; Hydraulic Reservoir; this build book will be available to view during pre-build meeting; Spreader Control (if ordered); PTO and Pump; Tarp System: Dump Body. A sample of Plow; Spreader; Optional Freedom 2.2

DUMP BODY SPECIFICATIONS - BRANDON BODY MEDIUM DUTY CROSSMEMBERLESS STAINLESS DUMP BODY

GENERAL

The dump body required under these specifications shall be constructed of 304 stainless steel. Unit shall consist of a heavy duty body, hydraulic hoist, hydraulic pump, cab shield, safety accessories, and all other components necessary to make up a complete operating unit. The body and hydraulic hoist shall be manufactured by the same company. Hoist

Installed on class 50NVEA as of 2025

Adopted on: November 5, 2025

Official Resolution#: 2025001537

MINIMUM BODY DIMENSIONS

Inside length: 14'	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Inside width: 87"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Overall width: 96"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Side height: 40"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
End height: 44"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rear post height: 44"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Capacity: 13.3 cubic yards water level cab shield: 87" wide x 24" projection	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

DUMP BODY SPECIFICATIONS - BRANDON BODY MEDIUM DUTY CROSSMEMBERLESS STAINLESS DUMP BODY (Cont'd)

MINIMUM BODY CONSTRUCTION

Sides & front: 7 gauge, 304 SS one piece formed sides: 304 Stainless Steel smooth one piece formed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Floor: 3/1611 Brinell 450 floor	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tailgate: 7 gauge 304 SS	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tailgate panel: 2-panel straight tailgate with flame cut SS	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hardware latching: air operated opening and latching	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Oak wood side boards: 2" x 411 side boards shall be placed on both sides of dump body	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tailgate: single acting tailgate & SS tailgate latch system tailgate safety: Two (2) tailgate safety door lock-chains & anchors air cylinder: air cylinder tailgate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Longsills: 811 I-beam 3/16" Brinell 250 cab shield mounted on body	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cab shield projection: 24" projection SS corner posts: front & rear	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Banjo eyes: Two (2) banjo eyes on rear, low & high position rear post cut outs: one (1) set LED stop/turn/tail light	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rear post cut outs: One (1) set LED class 1 amber 611 oval strobes rear post cut outs: (1 set) led back up light	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Body prop: driver side	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ladder: SS fold up ladder driver's side	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Walk rail: grip strut safety walk rail (both sides of body)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front SS shovel holder 2025 driver side- bolt on- mid mount of body hoist: Mailhot telescopic cylinder mount 2025 double acting cylinder cylinder mount: 35 ton cylinder block & 24 ton cradle	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Adopted on: November 5, 2025
Official Resolution # 202500137

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Hoist spec: NTEA class 50 mud flaps: (1) set mud flaps	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Under body paint: painted black tailgate spreader chain kit	<input checked="" type="checkbox"/>	<input type="checkbox"/>
One (1) oval stop/tail/turn light cutouts in rear corner post	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wiring for standard dump body lights enclosed in a sealed waterproof wiring harness. Split loom not acceptable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
One (1) stainless steel grab handle, driver side front	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3M reflective tape on both sides of body and on 6-panel tailgate	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

DUMP BODY SPECIFICATIONS - BRANDON BODY MEDIUM DUTY CROSSMEMBERLESS STAINLESS DUMP BODY (CONT'D)

MINIMUM BODY CONSTRUCTION (CONT'D)

Two (2) recessed into rear post	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) sides of cab shield	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) front of cab shield	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All body lights shall be LED	<input checked="" type="checkbox"/>	<input type="checkbox"/>
30-ton pintle hook	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1" pull plate with 5/8" d-rings	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7-way, round trailer Pollak-type plug with a removable end	<input checked="" type="checkbox"/>	<input type="checkbox"/>
One (1) set of Meyer saber plow lights mounted on hood of chassis with stainless steel mounts	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) forward facing strobe lights mounted on snowplow lights bracket to be powered by its own switch	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electric brake controller to control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7-way flat trailer Pollak type plug with a removable end	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Glad hand at rear of pintle hook. Location to be determined by county	<input checked="" type="checkbox"/>	<input type="checkbox"/>

PIONEER MODEL EDD 1500D TARP SPECIFICATIONS

Side mount	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Roller assembly-telescopic- 3-piece	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Left roller tube: 2.140 O.D. x 2.000 I.D. 6105-T6 aluminum extrusion with UHMW bushing and stainless steel roll pin to accept motor shaft	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Right roller tube: 2.140 O.D. x 2.000 I.D. 6105-T6 aluminum extrusion with UHMW bushing.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1" O.D. 6061-T6 aluminum shaft and stainless steel roll pin center section: 1.960" O.D. x 1.820 I.D. 6105-T6 aluminum extrusion	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bearing plates: ¼" H.R.S.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bearings: flange mounted sealed ball bearings roll mounting angles: 1 ½" x 2" x ¼" steel angle	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Direct drive gear motor: mounted directly to left side roller	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worm & wheel configuration: permanently lubricated sealed gearbox. 90 to 1 ratio	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Output shaft shall be supported by ball bearings on both ends.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE

YES **NO**

PIONEER MODEL EDD 1500D TARP SPECIFICATIONS (Cont'd)

Output shaft shall be directly coupled to left side roller	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electric motor is .85 horsepower.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Aluminum gearbox housing.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Plastic protective cover.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
¾" O.D. output shaft.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Motor is thermally protected by automatic resetting circuit breaker.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pivot arms: 1.745" O.D. x 1.405" I.D. 6105-T6 aluminum extrusion with .250 w x .94 l reinforcing fin on one side and .75 w x .50 l reinforcing block on other side.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Overall height to be 3.185"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rear section: 13/4" O.D. x 170 wall 6061-T6 aluminum extrusion bows: 13/8" O.D. x .125 wall 6105-T4 aluminum extrusion	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arm mounting brackets: steel weldment base plate: ¼" H.R.S.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mounting hub: 4" O.D. steel tube	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spring: reverse wound torsion spring-½" diameter wire per ASTM A229 class I	<input checked="" type="checkbox"/>	<input type="checkbox"/>

FABRIC

100% polyester, 1000 denier, black HD mesh, 13 oz. per square yard.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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CONSTRUCTION

Adopted on: November 5, 2025 On a less than 12 month basis, rectangular in shape, 85" wide, grommets on front & sides, pocket at rear.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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WIRING AND ELECTRICAL

- All wire shall be 8 gauge stranded cable, all connectors shall be ring type.
- High amperage self-centering rotary switch (momentary on/off - momentary on).
- Thermal reset circuit breaker (auto reset).

PTO

- PTO shall be of a hot shift design driven off the Allison automatic transmission.
- PTO shall have a direct mount rotatable pump flange.
- There shall be a console mounted rocker switch to engage and disengage the PTO.
- Model shall be Chelsea, or equal

ITEM #2- CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES NO

HYDRAULIC PUMP WITH PTO

- Shall be on an open circuit axial piston design with adjustable compensator
- Pump operating pressure must adjust to the actual load pressure plus a pressure differential required for the controlled action
- When the system is not demanding power, the load sense control will operate in an energy-saving stand-by mode
- Minimum pump displacement shall be 80CC/ 4.9 cubic inches, delivering 42 GPM at 2,000 rpm
- Pump minimum displacement shall be 90 cubic centimeters continuously rate at 350 bar (5,000 psi). Standby pressure shall be 350 psi
- Mounting is an SAE C 4-bolt flange shaft is 1.25" diameter, 14 tooth splined
- Rpm is rated to 2300 (continuous) with pressure and flow compensator control
- Rear ported, flange mounted suction port shall meet the following requirements:
- Suction port minimum 2.5"
- Must use (4) M8 x 16-8.8 mounting bolts
- The rear SAE ported pressure port shall meet the following requirements:
- pressure port minimum 1"
- SAE-16 o-ring boss
- The hydraulic system must include a low oil shutdown with momentary override.
- The system shall disengage the PTO is a low oil scenario should occur.
- The operator will have the ability to temporarily override the shutdown to park all hydraulic implements for travel.

MOUNT

- Introduced on: November 5, 2025
 Adopted on: November 16, 2025
 Official Resolution #: 2025091537
 Pump must mount directly to a PTO on Allison 4500 series, or equal, transmissions without requiring belt axis or external mounting hardware

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Pump must offer mounting flanges in SAE and ISO configurations, and ports are offered in SAE and ISO tube and flange versions.

CONTROL VALVE GRENSON VALVE WITH PRIORITY FLOW INLET

Central hydraulic valve system shall be a mobile design to withstand exposure to deicing chemicals and severe weather conditions.

System shall provide hydraulic fluid to operate the dump body hoist, front plow, and granular spreader system.

Hydraulic system shall be able to run all hydraulic functions simultaneously without inhibiting the action of the others.

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

CONTROL VALVE GRENSON VALVE WITH PRIORITY FLOW INLET
(Cont'd)

Valve sections shall be of cast iron, horizontally stackable, and serviceable without disassembly.

Directional control valves shall be pre-compensated, proportional, and load independent

Valve system shall be closed center for variable displacement

Pump valve sections must be adjustable for pressure up to 5,500 psi and flow ratings up to 40 gpm

Each valve must be laminar flow design for minimal pressure drop.

Each section must be manually activated with manual push/pull cables

There shall be a main pressure relief set at 2,400 psi to protect against system over-pressurization

Hoist section must be a PVG 100, 40 gpm 4-way section for double acting hoist

Plow lift and angle sections are also 4-way for double acting cylinders with crossover relief

Spreader section shall have detent on one side of valve and self-centering on reverse

All hydraulic hoses must be bulkhead mounted with metal tube style connectors.

All tubes shall be labeled with the hydraulic operation

SPREADER CONTROL

Spreader control shall be a dual knob valve with on/off handle

Shall have individual flow adjustment knobs for the spinner and auger shall include a relief cartridge to protect the motors in the event of a material jam

Valve shall feature spinner priority to reduce material pile up from the auger at low flow conditions

CABLE CONTROLS

Introduced on: November 5, 2025

Adopted on: November 5, 2025

Official Res. value # 1202505171
Control valves shall be shifted via sealed cable assemblies

- Cable assembly shall feature a polyethylene conduit with armor over braid and Teflon liner
- Cable assembly shall be rated for a minimum of 100 lbs. of pull and 80 lbs. of push
- Cables shall be attached to the hydraulic valve with clevis pin and locking clips
- Cable to be attached to an in cab handle.
- Handle will be mounted in a location convenient to the operator.
- The handle shall feature cast base construction with steel internal parts and be rated for 80 lbs. of output force.
- A knob with identification label will be attached to the end of the handle

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

RESERVOIR/VALVE ENCLOSURE

- Reservoir must be constructed of 10 gauge stainless steel.
- Reservoir/valve enclosure shall be 40 gallon capacity with an integrated covered mounting area for the valve. All plumbing for the hydraulic valve inside the enclosure shall be SAE rated stainless steel tubing and terminate on the front of the reservoir with JIC bulkhead connectors.
- The breather cap shall be mounted to an inspection lid.
- Inspection lid shall also provide for an in-tank mounted return line filter.
- The filter assembly shall incorporate a 10 micron 50 gpm filter element with a 25 psi bypass.
- The reservoir will include a twist off filler/breather assembly with 40 micron vent filter and a fill screen. Reservoir shall be complete with a sight temperature gauge and a magnetic drain plug. Suction port will allow for
- Installation of a 2" NPT 50 gpm suction screen. Suction screen shall have a 3 to 5 psi bypass spring. A 2" full flow ball valve shall be installed in the suction line. Removing of a lid to access the filter and breather cap is not accept able. The reservoir shall have a float switch to control PTO operation in the event of low oil.

MOLDBOARD

- Dimensions shall be: 11' L X 42" H
- Material shall be 10 gauge carbon steel smooth rolled profile providing ultra-smooth surface for snow deflection and stop at the top of the bottom angle to allow replacement of angle.
- Overhang from cutting edge shall have minimum 12" overhang with 10° attack angle.
- Top of moldboard shall be reinforced by 2 1/2" x 2 1/2" x 3/8" angle iron.
- Bottom of moldboard shall be reinforced by 4 x 4 x 3/4" angle iron and drilled to accommodate AASHTO standards.

Introduced on: November 5, 2025
Adopted on: November 5, 2025
Official Resolution: 202501537

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- Ribs shall be 3" tall at the top edge by ½" wide.
- Ribs shall be spaced to match support arm locations as well as provide adequate support of the moldboard.
- A total of 12 ribs shall be used per moldboard assembly.
- Three (3) sets of double ribs and six (6) single ribs.
- Each rib shall have a ½" relief at the corners where they attach to the reinforcement angles. This allows water to drain off the back of the moldboard during storage.
- At the bottom of each rib there shall be three 1 5/16" holes spaced at 1 7/8" center to center to allow for semi-circle height adjustment

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE

YES **NO**

SPX301 AMERICAN ROADS TRITON SNOWPLOW - STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL PLOW SPECIFICATIONS MOLDBOARD

- Two sets of double ribs shall have three 1 5/16" holes spaced at 2 ¼" center to center to allow for attack angle adjustment.
- Weldments on the moldboard shall be continuous.
- Outer and the two center rigs of moldboard shall be drilled for marker installation.
- Two (2) curb guards mounted each side of moldboard.

TRIP MECHANISM CONSTRUCTION

- Plow shall be full trip design consisting of two (2) coil springs
- Springs shall be ¾" wire with a coil od of 5 9/16", consisting of 16 full coils bottom angle shall be reinforced by eleven (11) ½" thick gussets spaced evenly to avoid interference with cutting edge attachment hardware cutting edge shall be 6" x 5/8" x 11' long and is drilled to AASHTO standards cutting edge shall be secured using 5/8" grade 8 carriage bolts

PUSH FRAME

- Push frame shall be designed to hydraulically reverse the moldboard in an arc at any angle from 35 degrees left to 35 degrees right from a centered position.
- Push frame shall be constructed from a ½" plate.
- Push frame shall be supported above and below the semi-circle with 2 x 4 x 3/16" tubing.
- Push frame shall be drilled to accept 1 ½" bolt at the semi-circle connection. At this connection, welded to the push frame is the female portion of the socket connection. This connection distributes the pushing load directly from the push frame to semi-circle and moldboard relieving stress on the bolted connection. The female socket connection is made from Res plate steels and is contoured to match the male portion on the semi-circle.

Introduced on: November 5, 2025
Adopted on: November 5, 2025
Official Res plate steels and is

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Rear of push frame shall be drilled to accept a removable qcp adapter. Three sets of 1 3/16" holes shall be drilled on 2" centers to allow for installation on a variety of trucks and hitches.

Two holes shall be located on the top and bottom push frame plates drilled to accept 1 1/2" bolts for hydraulic cylinder attachment.

All welds must be continuously welded, no exceptions.

Tabs shall be welded on the push frame to accept 1/2" screw type chain shackles. These tabs shall be made from 1/2" plate steel 5 1/4" long and 2 1/2" wide. They shall be welded to the back side of the 5" tubular push beam to increase the weld surface area. They shall be welded at 55 degrees from the bottom of the semi-circle to match the chain angle going to the lift arm on the hitch.

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPX301 AMERICAN ROADS TRITON SNOWPLOW - STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL PLOW SPECIFICATIONS (CONT'D)

PUSH FRAME (Cont'd)

There shall be seven (7) sets of 3/4" thick moldboard mounting ears installed along the push beam for attachment of the moldboard. Moldboard shall pivot at these points on 1 1/4" diameter rivet pins with a washer and cotter pin on the opposite side of the rivet head.

Four (4) sets of the moldboard mounting ears (two (2) outer sets on either side of the push beam) shall have an inside spacing of 3/4" to accept a single 1/2" moldboard rib. Three (3) sets of the moldboard mounting ears (the center sets) shall have an outside spacing of 2 3/4" to fit inside double moldboard ribs.

Moldboard attachment ears shall be gusseted with 4" triangular steel gussets.

The push frame shall connect to upper portion of the moldboard using two support arms.

The center of the support arm shall be made from 2 x 2 x 1/4" square box tube.

Actual mounting points are 1" schedule 40 pipe fully welded through the box tubing.

The box tubing shall be drilled through to accept the pipe, the actual connection point is a 7/8" bolt.

SEMI-CIRCLE CONSTRUCTION

Semi-circle shall be constructed from 5 x 5 x 3/16" tubing.

The main tube or "push beam 5 x 5 x 5 1/16" is 120" long spanning the entire width of the moldboard.

This tube shall be constructed from one continuous piece.

There shall be four stops placed appropriately to prevent the plow from turning past 35° left or right.

Crank style jackleg (part #0091215) to be mounted on backside of semi-circle hydraulic cylinder mounting points shall be 1/2" plates welded to the top and bottom of the semi-circle.

Plates shall be drilled to accept 1 1/2" bolts for hydraulic cylinder attachment.

Introduced on: November 5, 2025
Adopted on: November 5, 2025
and Res. App. 2025-00137
These plates also serve as locators for support arm shackles and gussets to provide continuity from the "push beam" to the rest of the semi-circle.

In the center of the semi-circle, a hole shall be drilled to accept the 1 ½" grade 8 bolt that acts as the pivot point for the push frame. Also, at this point above and below the semi-circle shall be the male portion of the socket that relieves stress from the bolted connection.

This shall be made from 1" plate steel and contoured to match the female portion on the push frame.

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPX301 AMERICAN ROADS TRITON SNOWPLOW - STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL PLOW SPECIFICATIONS (CONT'D)

ADJUSTABLE CAST MUSHROOM SHOES

Plow to be fitted with adjustable cast steel mushroom shoes mounted left and right on rear of semi-circle.

A ½" steel plate to be welded onto the semi-circle rear with five (5) adjusting holes for overall height.

Adjusting handle crank to be storable against the show housing and allow up and down movement of the shoe via threaded screw.

A 1 ¼" screw with adjusting nut are housed in a 311 square shoe housing with a welded on 5-hole mounting plate cast steel mushroom plow shoe has 6" bolt centers, ¾" square holes and is 10.625" in diameter and 2.34 inches thick.

Grade 8 hardware shall be used throughout.

HYDRAULICS

Plow angle shall be controlled by two (2) double acting hydraulic cylinders each cylinder shall have a 4" bore with an 8" rod diameter with a maximum operating pressure of 3000 psi.

Retracted cylinder length shall be 21" with both the rod and cylinder ends accepting 1 ½" bolts/pins for connecting to the semi-circle and push frame.

Plow shall be equipped with one crossover relief valve. Valve shall use ½" ports and be set to a relief pressure of 1000 psi.

QCP

Push frame shall be equipped with a removable QCP adapter for quick hitch applications.

The side of the removable QCP shall be drilled to allow for three different mounting heights.

Introduced on: November 5, 2025
 Date of the QCP shall be 2025
 Official Resolution#: 2025001537
 Formed plate.
 Adapter of the QCP shall be made from MC4 x 13.8# channel QCP side plate shall be ½" formed plate.

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

QCP loop diameter shall be 2".

PAINT

Paint shall be of high quality, free of runs, overspray, and defects standard paint type shall be epoxy.

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPX301 AMERICAN ROADS TRITON SNOWPLOW - STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL PLOW SPECIFICATIONS (CONT'D)

HITCH FRAME

Frame shall be heavy duty, low profile, front frame mounted style, designed for use with trucks equipped with a tilt hood and stationary grille.

Snow plow hitch must clear hood when open.

The frame shall be capable of self-storing the hydraulic cylinder when not in operation thus allowing the lift arm to fold down parallel to the rest of the frame.

Vertical supports of the hitch shall be constructed from 4 x 4 x 3/8" square tubing.

Cylinder support bracket on the hitch shall be constructed from 3 1/2" x 3 1/2" x 1/2" angle fully welded to both vertical supports.

The two (2) cylinder mounting tabs shall be 1/2" steel placed in the center of support bracket and spaced at 2 1/8" apart.

Each tab shall be drilled to accept a 1" pin.

SPH A-152 ARM BUMPER TO FRAME PLOW HITCH SPECIFICATIONS

HITCH FRAME

The upper horizontal support of the hitch shall be constructed of two (2) pieces:

The first is a formed 3/8" plate that wraps the top and upper back portion of the vertical supports. This plate also acts as a stop when the lift cylinder is stored as well as one (1) of two (2) points. The lift arms connection tabs are welded.

The second horizontal support is a 1/2" contoured plate that allows the lift cylinder to be stored and provides a second mounting point for the lift arm connection tabs.

There shall be two (2) pairs of lift arm support shackles. Each pair shall be made from 1/2" x 9 3/16" plate and drilled to accept 1 1/4" pins.

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Fully welded to the vertical supports shall be two (2) C 8 x 18.75 channels with ½” thick end plates.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The end plates shall be drilled to accept six 5/8” grade 8 bolts for attaching the hitch between the frame rails.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Support of the lower portion of the hitch shall be provided by left and right hitch side plates constructed of 5/8” plate and securely bolted to the truck frame where appropriate.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
This frame is also the connection point to the hitch and hydraulic cylinder.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The external tube shall be constructed of 411 heavy wall square tubing.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
On each end of the tube are 1” wide bushings ground to fit the inner tube. This ensures a tight long lasting fit.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tubing is drilled to allow for the seven (7) different extended positions.		

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>HITCH FRAME (Cont'd)</u>		
Lift arm assembly shall be welded to the square tubing.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Top plate on the lift arm shall be 3/16” and is used to prevent "racking" of the frame.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The inner tube shall be constructed of 3" heavy wall square tubing.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tubing shall be drilled to allow for the seven different extended positions.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded to the front of the inner tube shall be a formed ½" plate with notches to accept standard ½" link chain. When required this plate can be shall be changeable to match different level lift systems.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>PIN LOCK QUICK CONNECT PLATE</u>		
Plow attachment shall be made by a pin lock QCP assembly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Top and bottom of the assembly shall be made from ½” contoured plate.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Both plates shall be drilled to accept the 2” lock pin.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded to the bottom plate shall be a 5/8” chamfered plate that both provides support to the lock pin and helps to guide the QCP loop into the hitch.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded to the top of the top plate shall be a formed 3/8” plate drilled for the 2” lock pin that both provides support and protects the pin in the event a plow is set too high while hitching.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
In front of the QCP assembly shall be two (2) ½ thick form bumpers. These bumpers are the resting/pushing point for the plow. They shall be curved to allow the plow to raise and lower smoothly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lock pin shall be 2”, tapered at one end for ease in guiding into position, and has tabs welded to the other for the lift bar attachment.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

HEAVY DUTY LIFT ARM ASSEMBLY

Introduced on: November 5, 2025		
Adopted on: November 5, 2025		
Official Resolution#: 2025001537		
Heavy duty lift arm shall be an extendable style with seven different extended positions.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Frame of the lift arm shall be constructed from ½” x 4” steel plate that is formed to contour the outer tube of the extendable arm.

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS

2A. V-Box Spreader Specifications

General

14 7 series v-box hopper style salt and sand spreader. Spreader shall be capable of hauling and spreading free flowing granular materials. Unit shall consist of a 304 stainless steel body, rear discharge conveyor, spinner disk, power drive and all components necessary to make a complete operating unit. Unit shall be manufactured in the USE by an ISO 9001:2008 certified company.

Body

10 yard capacity

Inside length of hopper shall be 14' at top and 12' at bottom inside top width shall be 82".

Side slope to be 45° minimum.

Front panel slopes shall be a minimum of 18° hopper seams shall be continuous welded on inside.

Sides, ends and side supports shall be 10 gauge 304 stainless steel top edge of hopper is formed "J" channel 2" x 1 ½".

Auger trough shall be 10 gauge 304 stainless steel longsills shall be 10 gauge 304 stainless steel.

Cross sills shall be formed 7 gauge 304 stainless steel welded to side supports.

Lift hooks on each corner are 5/8" stainless steel round bar all hardware is stainless steel.

3/8" rod on 3/8" rod top grate screens with anti-freeze hinges are required equipment with auger conveyor v-box units.

Auger Requirements

Introduced on: November 5, 2025
Approved by: diameter and face
Official Resolution#: 2025001537

7" diameter and face 2025 variable pitch augers with direct drive hydraulic motor.

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- Motor is directly coupled to end of auger shafts.
- Auger shafts connect at front with a 2" 4-bolt flange bearing rear auger drive has no motor guard bolted to rear.
- One (1) LED spreader light mounted to spreader box.
- Light bar mounted to rear of spreader at top.

Paint

- All metal surfaces shall be high pressure cleaned with a phosphate solution to remove slag, splatter, oxide, and oil residue.
- Non-stainless steel parts shall be painted or powder coated black.
- 304 stainless steel components unpainted.

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

2A. V-Box Spreader Specifications (Cont'd)

Spinner Chute Assembly

- 10 gauge 3 04 stainless steel
- Four (4) position telescopic adjustment.
- Four (4) bottom spinner deflectors shall be overlapping to prevent loss of granular material when the deflectors are raised.
- Front deflector shall be fixed.
- Bottom overlapping spinner deflectors shall have four (4) positions of rod and pin adjustment without tools. Chain adjustable deflectors are not acceptable.
- Poly 20" diameter spinner disc shall have replaceable machined hub spinner hydraulic motor shall mount directly on bottom of spinner disc.

Tailgate Lock Kit

- Main latch bar shall be 3" x 4.1 lb structural channel 84" wide.
- Two (2) 3" x 4.1 lb x 811 structural channel with two (2) ½" x 1 ½" mounting hole shall be welded to main channel to bolt on spreader.
- Two (2) 1 ¼" x 7" round stock tailgate latches to be welded to main channel.

Tie Down Kit

- Shall consist of four (4) chain style tie down assemblies chains shall be grade 30 3/8" x 29 links.
- Top plate shall be ¼" x 4 triple broke ALOL 1 powder coated steel with banjo eye to accept 3/8" chain.

Introducer bracket shall be 2 1/2" x 4" x triple broke ALOL 1 powder coated steel with 3/8" double link clevis to attach chain.

3/4" zinc plated turnbuckle to have grease fitting.

1/4" turnbuckle shall have 1/2" - 13 nut welded to center to secure turnbuckle.

Galvanized Spreader Leg Stands

Main channels to be constructed of 2" x 6" x 7 gauge tubing crossmembers to be 3" structural channel.

Telescoping rear legs to be constructed of 3 1/2" x 3 1/2" x 3/16" tubing adjustable front legs to pivot, constructed of 4" x 4" x 3/16" tubing 4" adjustable steel front roller wheels.

Body guide wheels front and rear of stand.

Light bar mounted on back of spreader with detachable plug.

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

2B. 8' Under Tailgate Spreader Specifications

Meyer BL-960 Specifications

• Body width: 96"

• Hopper height: 19"

• Hopper width: 96"

• Hopper depth: 18"

Spread width: 4'-40' empty weight: 450 lbs. Spinner diameter: 18".

Material movement: auger

Mounting method: under tailgate

Hopper material: stainless steel.

Spreader material: salt or salt/sand mix.

General

This under tailgate shall be of the bottom opening design.

The spreader shall fasten to the corner posts of the dump body using spreader manufacturers' brackets and quick disconnect pins for quick mounting and removal without the use of special tools.

This mounting shall allow the dumping of materials without interference from the spreader.

This unit shall spread free flowing granular materials, abrasives and chemicals.

This unit shall be factory adapted to accept automatic control systems (only with a sensed motor).

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- Rigid 10 ga stainless steel one piece end plates shall be continuously welded to a 10 gauge stainless steel auger trough & 3" x 1 ½" formed channel stainless steel rear member. ☒ ☐
- The unit shall have a 10 gauge stainless steel three point hinged bottom door that when released, exposes the entire length of the auger for easy cleanout. ☒ ☐
- This hinged bottom shall be held in place by two replaceable heavy duty cam locks with a lift handle for convenient one man operation. ☒ ☐
- The anti-flow cover over the discharge opening shall be manufactured of 10 gauge stainless steel and removable without the use of tools. ☒ ☐
- The 10 gauge stainless steel trough cover/backplate shall be one piece hinged integral part of the unit that may be raised when spreading and lowered for dumping operations. ☒ ☐
- This cover shall be capable of being locked in either the raised or lowered position by two replaceable captivated latches. ☒ ☐

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

2B. 8' Under Tailgate Spreader Specifications (Cont'd)

Drive

- A direct drive coupled hydraulic motor shall be provided for driving the auger. ☒ ☐
- This hydraulic motor shaft shall mount directly to the auger pipe by a non-corrosive sleeve and a ½" grade 8 bolt. ☒ ☐
- The hydraulic motor shall mount directly to the end plate. ☒ ☐
- There shall be two separate hydraulic "orbital type" motors capable of delivering high torque at low speeds to power both the auger and the spinner. ☒ ☐
- The auger feed rate and spinner speed are both variable. ☒ ☐

Feed Mechanism

- The 611 diameter (nominal) heavy duty auger shall consist of flights with outer edge at not less than .150 thickness, which is welded to a 2 7/8" diameter ERW pipe size tube. ☒ ☐
- This auger shall have continuous and reverse flighting to the discharge port for more uniform dump body unloading, and shall be supported by 1 ¼" idler end shaft. ☒ ☐
- The auger idler shaft shall be supported in sealed self-aligning precision single row radial ball bearing with grease fitting. ☒ ☐
- The discharge port shall be located on the left side of the trough, approximately 21" in from the edge of the bottom door. ☒ ☐
- The spreader shall be equipped with a safety interlock device to positively prevent power from reaching the auger motor when the top cover and bottom door are opened beyond the normal operation position. ☒ ☐

Spinner

- The spinner shall consist of a disc and six (6) fins molded into a single polyurethane.
- Unit, resulting in a flat trajectory and uniform spread pattern from 4 to 40 feet in width.
- The spinner assembly shall be adjustable side to side, allowing for variable spread patterns left, right, and center of vehicle.
- This shall be accomplished by sliding the hinged frame sideways on the shaft so that the point at which the material hits the spinner disc is varied the entire spinner assembly shall be easily removed by pulling two pins, and uncoupling two hydraulic quick disconnect hoses.
- The spinner disc shall be mounted directly onto the hydraulic motor shaft by means of a cast iron spinner hub.
- The spinner shall be adjustable in height in four positions.
- The entire spinner assembly shall be made of stainless steel except for the motor and the spinner disc.

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

2B. 8' Under Tailgate Spreader Specifications (Cont'd)

Spinner (Cont'd)

- The spinner shall be linked to the truck frame with a universally mounted parallel arm to keep the spinner horizontal to the road surface at all dump body angles a spinner shield shall be provided to prevent material from striking the truck.

Mounting

- This spreader shall fasten to the side of the dump box using quick disconnect pins for quick mounting and removal without the use of special tools.

Paint

- All stainless steel shall be chemically cleaned, but remain un-painted. Carbon steel components shall be chemically cleaned and coated with a leadfree rust inhibitive primer and painted with lead free black.

2C. Heated Body Specifications

General

- Heavy duty heated crossmemberless stainless steel dump body.
- Body shall be heated through diverter box with thermos-switch for activation with stainless steel piping.

2D. Chassis Upgrade to 74,000 GVWR

Introduced on: November 5, 2025
 Adopted on: November 5, 2025
 Official Resolution # 202501587R
 Upgrade to 74,000 GVWR

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

22000 lb. Meritor front axle	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23000 lb. front suspension	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Meritor 16.5x6 q + high capacity cast spider cam front brakes	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Michelin XZY-3 425/65R22.5 20 ply front tires	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Accuride 29807 22.5x12.25 front rims	<input checked="" type="checkbox"/>	<input type="checkbox"/>
52000 lb. RT-52-185 T series tandem rear axle	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Driver controlled traction differential rear most tandem only	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1 inter axle lock and 1 driver controlled differential lock rear-rear Meritor 16.5x7 p cast spider cam rear brakes	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gunite heavy weight cast iron brake drums 11Rx24.5 16 ply Michelin x multi drear tires	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Accuride 24.5x8.25 rear rims	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tufrac Gen2 52000 lb. rear spring suspension	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #2 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE

YES **NO**

OPTIONS (CONT'D)

2D. Chassis Upgrade to 74,000 GVWR (Cont'd)

Minimum Body Dimensions for Chassis Upgrade

Inside length: 14'	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Inside width: 87"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Overall width: 96"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Side height: 46"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
End height: 50"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rear post height: 50"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Capacity: 15.2 cubic yards water level cab shield: 87" wide x 24" projection	<input checked="" type="checkbox"/>	<input type="checkbox"/>

2E. Paint for Dump Body

2F. Paint Colors Not on Standard Color Chart

i.e.: Gem Green: W7515G or Chestnut

2G. Diagnostic Tools / Test Equipment

Cummins Quickserv Unlimited Service plan, with renewals, shall be provided at no cost to the county for a period of five (5) years from the acceptance of the equipment.

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- 1. Successful bidder. may be required to supply between one (1) to three (3) complete sets of OEM test/diagnostic/ programming equipment (i.e. laptop, software, cabling, and adapters) and special tools required to perform the full range of diagnostic and maintenance actions necessary to maintain vehicle operability. This equipment will cover the vehicle chassis, engine, transmission, brakes, hydraulics, and all additional equipment (if applicable).
- 2. Provide a list of all test/diagnostic/programming equipment and special tools being supplied at the time of bid.
- 3. All software installations and activations will be completed by the successful bidder at no cost to the County.
- 4. All software updates and renewal will be provided at no cost to the County for a period of five (5) years from the acceptance of the equipment.
- 5. All technical issues relating to test/diagnostic/programming equipment and special tools shall be resolved by the successful bidder at no cost to the County for a period of five (5) years from the acceptance of the equipment.
- 6. Training shall be provided on all items in this section at a County location.
- 7. All laptop computers will be of the newest available technology and have sufficient storage and memory to operate all required software.

ITEM #1 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

2H. Two-Way Radio Power and Wiring Requirements for New Vehicles

For the purpose of installing two-way radios into new County vehicles and equipment, the following power and wiring components shall be included:

- #12 AWG RED wire connected to 12VDC Battery Source rated at 20 Amps.
- #12 AWG BLACK wire connected to chassis ground.
- #16 AWG YELLOW wire connected to 12VDC Ignition Sense rated at 5 Amps.

These wires shall be encased in plastic wire loom and routed from their source into the cab of the vehicle and secured in the vicinity of the operator. The wiring harness shall be clearly labeled “*TWO-WAY RADIO*”. The wires shall be unterminated. The 12VDC sources shall be protected from making contact with grounded metal surfaces.

2I. Installation of County Supplied Two-Way Radio and Accessories

Install is to include but not limited to antenna cable, mounts, speakers, brackets, etc. For the purpose of installing two-way radios into new County vehicles and equipment, the following power and wiring components shall be included:

- #12 AWG RED wire connected to 12VDC Battery Source rated at 20 Amps.
- #12 AWG BLACK wire connected to chassis ground.
- #16 AWG YELLOW wire connected to 12VDC Ignition Sense rated at 5 Amps.

These wires shall be encased in plastic wire loom and routed from their source into the cab of the vehicle. The wiring harness shall be clearly labeled “*TWO-WAY RADIO*”. The 12VDC sources shall be protected from making contact with grounded metal surfaces.

2J. Technical Support

Technical Support is to be provided by factory authorized technical representatives and shall be the original equipment Manufacturer’s industry standard technical presentation in a classroom setting.

The support provided shall be at the journeyman/equipment technician level and should address limited theory, fault diagnosis and repair pertaining specifically to the equipment supplied under this specification.

Technical support may be requested in the following areas:

- Engine (cooling, fuel, ignition, lubrication systems) – 1 day at each location.
- Transmission – 1 day at each location
- Electrical – 1 day at each location
- Brakes – 1 day at each location
- Hydraulic system (dump body, spreader, snow plow) – 1 day at each location
- Upfitter (dump body, sweeper, etc.) – 1 day at each location

Technical representative(s) shall be made available for a total of 180 training/support hours (anticipated to be scheduled in six (6) hour blocks).

ITEM #1 – CURRENT MODEL YEAR OR NEWER, FREIGHTLINER 114SD CHASSIS TANDEM TRUCK, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE

YES **NO**

OPTIONS (CONT'D)

2J. Technical Support

Shorter training days shall be allowed only with consent of Vehicle Services.

Total training hours shall be provided and no additional compensation will be considered.

Actual time to be spent on each area will be by mutual agreement of the Vehicle Services Department and the successful bidder.

For the purposes of determining materials and other training costs, class size is anticipated to be comprised of six (6) to ten (10) Vehicle Services Department personnel Actual class size will be determined by the Vehicle Services Department at the time the classes are scheduled.

Before the training is scheduled, Vehicle Services and the contractor will agree on the scope of the training, and the type and quantity of manuals, etc. that are necessary for proper education.

Technical Support for Vehicle Services may be provided at the following fleet maintenance facility locations as scheduled by a Vehicle Services Department representative:

- Toms River, 152 Chestnut Street, Toms River, N.J. 08753
(Two (2) sessions will be provided at this location: One beginning at 7 am and another beginning at 1:30 pm)
- Manahawkin, 379 Haywood Road, Bldg. 109, Manahawkin, N.J. 08050

Successful bidder shall provide Technical Support sessions for other Departments, which will be held at an Ocean County location specified by the requesting Department.

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Training at the successful bidder's site, rather than the designated locations, will be by mutual consent only.

Technical support will be requested, and scheduled, on an as needed basis up to but not exceeding the 180 hours total during a period not to exceed twelve (12) months from the date of placing the last unit in service.

Item #3 – Current Model Year Western Star 49x Sf Specialized Dump Truck With Plow And Spreader, As Specified Or Equal

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
GENERAL		
CURRENT MODEL YEAR, OR NEWER WESTERN STAR 49X SF	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Set forward axle	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lh primary steering location	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DIMENSIONS		
Front axle 20,000 lbs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pusher axle 20,000 lbs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rear axle 52,000 lbs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Registered gvwr 80,000 lbs.; cg tags	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ENGINE		
Cummins x15 series 14.9l, 912 cid minimum 525 hp @ 1900rpm. <input checked="" type="checkbox"/>	<input type="checkbox"/>	
Gov 1900 rpm, and 1850 lb.-ft. Torque @ 1000 rpm.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Must be in line 6 cylinder of wet sleeve design utilizing hardened Cylinder liners, and electronics for simple service and diagnosis as needed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Minimum displacement shall be 14.9 liters.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Engine must comply with latest federal mandate for diesel emissions. Should an Alternate power plant be offered the bidder must provide, all necessary technical data to show proof of equality including Maintenance schedules.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ENGINE EQUIPMENT		
Oil check and fill: engine mounted	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Air intake: hood mounted air intake with precleaner integrated into hood with inside/outside air snow door.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternator: 200 amp 28 si with remote battery volt sense	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Introduced on: November 5, 2025		
Printed on: (4) 12-November 5, 2025	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Official Resolution#: 2025001537		

ITEM #3 – CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
ENGINE EQUIPMENT (Cont'd)		
Battery box: frame-mounted stack battery box LH or RH side back of cab	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Positive load disconnect control switch mounted under dash or floor	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Remote jump start studs mounted on frame next to starter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Silicone heater/radiator hoses where possible	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Compressor: Cummins 18.7 CFM with internal safety valve	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Engine protection: electronic engine-integral warning system with shut down function	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Engine brake: Cummins interbrake compression brake with on off switch and low, med and high retardation switch	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Exhaust: single right-hand under cab ATD with bright finish upper 11' vertical stack cab mounted	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2-piece fan shroud and rear rock guard	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Exhaust shield: stainless steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fan drive: electronically controlled variable speed automatic control with dash switch and light	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13 gallon diesel exhaust fluid tank	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Non-polished aluminum cover for def tank	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Oil filter: full-flow	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fuel filter/water separator: Detroit engine mounted with water in fuel Indicator	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radiator: 1400 square-inch severe service assembly bolted to engine	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy-duty coolant: -34 oat extended life	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Introduced on: November 5, 2025
 Adopted on: November 5, 2025
 Official Resolution#: 2025001537

Coolant hoses: silicone where possible

ITEM #3 – CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

ENGINE EQUIPMENT (Cont'd)

Hose clamps: constant tension for coolant hoses and air intake system

Engine heater: Philips 1500w/115v

Chrome heater receptacle: mounted under driver's door

Cast iron front and rear engine supports

Starter: Delco 12v 39 MT+ HD OCP

TRANSMISSION AND EQUIPMENT

Allison RDS 4700 automatic transmission with PTO provision

Programming for 70 mph output speed

S1 performance primary shift schedule

Transmission prognostics-enabled

PTO mounting LH & RH side of main transmission

Water to oil transmission cooler

Magnetic plugs, engine drain

Transmission drain, axle(s) fill & drain

Dash mounted push button shift control

Synthetic transmission fluid

Transmission oil check and fill with electronic oil level check

FRONT AXLE AND SUSPENSION

Meritor 20000# front axle

Introduced on: November 5, 2025
Adopted on: November 5, 2025
Official Resolution # 02500037
Meritor 20000# duty cast spider cam front brakes

Brakes, double anchor, fabricated shoe

ITEM #3 – CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
FRONT AXLE AND SUSPENSION (Cont'd)		
Non-asbestos front brake lining severe service	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Conmet cast iron front brake drums	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front brake dust shields	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front oil seals	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Aluminum vented front hub caps	<input checked="" type="checkbox"/>	<input type="checkbox"/>
With window and center+side plugs – oil	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Synthetic 75w-90 front axle lube	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Haldex automatic front slack adjusters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bendix high capacity 20-23k power steering with rh auxiliary gear	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power steering pump oil air cooler	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4 quart power steering see through reservoir	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23,000# flat leaf front suspension	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Threaded spring pins and bushings	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front shock absorbers	<input checked="" type="checkbox"/>	<input type="checkbox"/>
REAR AXLE AND SUSPENSION		
Meritor rt-52-185 52000# tandem rear axle	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Factory installed Watson/Chalin sl-2065 Tru-Track 20000# air lift	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Steerable pusher suspension with 16.5x6” brakes, dust shields and FL 1 Watson/chalin 20000# axle	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- Pusher axle controls in cab, up/down valve, gauge and air pressure regulator
- Reverse lift axle warning with last state retention

ITEM #3 – CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

REAR AXLE AND SUSPENSION (Cont'd)

- Air piping for liftable pusher axle controls mounted inside cab
- 52" pusher axle spacing
- Iron rear axle carrier housing
- SPL250HD XL Dana Spicer main driveline w/half round yokes
- SPL170 XL Dana Spicer interaxle driveline w/half round yokes
- Driver control differential lockout rear/rear with indicator light for traction device
- Synthetic 75W-90W all axles
- Meritor 16.5x7" P cam double anchor cast shoes
- Non-asbestos rear brake lining
- Webb cast iron rear brake drums
- Rear brake dust shields
- Haldex automatic rear slack adjusters
- Rear oil seals
- Bendix eversure longstroke 2-drive axle spring
- Forward of axle mounted parking chambers
- Standard spindle nuts for all axles
- Introduced on 11/5/2025 # inverted rear suspension

Standard ride height	<input checked="" type="checkbox"/>	<input type="checkbox"/>
55" axle spacing	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #3 – CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
REAR AXLE AND SUSPENSION (Cont'd)		
Fore/aft and transverse control rods	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rear shock absorbers – two axles	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BRAKE SYSTEM EQUIPMENT		
Wabco 6S/6M ABS with traction control with ATC shut off switch	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Reinforced nylon, fabric braid & wirebraid chassis air lines	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bendix brake valves where possible	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Relay valve with 5.5 psi crack pressure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Air connections to end of frame with glad hands	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bw ad-9si brake line air dryer w/heater	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Air dryer frame mounted RH under cab	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Aluminum air brake reservoirs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cab blow out kit with air hose and nozzle	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pull cables on all air reservoirs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FRAME AND WHEELBASE		
242" wheelbase with 150" c/t usable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
.59 x 3.5 x 12.4 steel frame with .236" inner c-channel reinforcement	<input checked="" type="checkbox"/>	<input type="checkbox"/>
120 KSI 40.42 SM, 4,849,851 RBM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Introduced on: November 5, 2025		
Adopted on: November 5, 2025		
Official Resolution#: 2025001537	<input checked="" type="checkbox"/>	<input type="checkbox"/>
38 in. Overhang		

- 24" integral front frame extension
- Square end of frame

ITEM #3 – CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
FRAME AND WHEELBASE (Cont'd)		
Heavy duty ductile iron engine crossmember	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy duty steel rear closing crossmember	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy duty steel construction back of transmission crossmember	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Standard construction midship #1 crossmember	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Standard construction rear suspension forward crossmember	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Standard construction rear mounted suspension crossmember	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CHASSIS EQUIPMENT/TRAILER CONNECTIONS		
7-way trailer plug end of frame	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3/8" severe duty steel bumper or custom bumper for hitch mounting	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Phosphate-coated class 10.9 fine thread hex chassis fasteners, rear suspension hangar mounting to have Huck spin fasteners	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Exterior harnesses wrapped in abrasion tape, secondary covering and connector protection	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Air piping and electrical independently clipped to frame	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FUEL TANKS AND EQUIPMENT		
Single 70 gallon aluminum, minimum	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LH fuel tank mounted forward	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25" diameter fuel tank(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Introduced on: November 5, 2025		
Adopted on: November 5, 2025		
Official Resolution#: 2025001537		
Aluminum fuel tank bracket(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Plain aluminum fuel tank with polished stainless bands

Fuel/water separator with water in fuel sensor and 12 volt preheater

ITEM #3 – CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

FUEL TANKS AND EQUIPMENT (Cont'd)

Equiflo inboard fuel system

High temperature reinforced nylon fuel hose

No fuel cooler

In tank fuel level sender

FRONT TIRES, HUBS AND WHEELS

Michelin XZY-3 425/65R22.5 20 PLY

Conmet iron front hubs

Accuride 29807 4.75 inset 5 hand hd 22.5x12.25 10-hub pilot steel disc front wheels

REAR DRIVE & PUSHER TIRES, HUBS, & WHEELS

Michlein xds2 11r 24.5 16 ply rear drive axle tires

Webb iron rear hubs

Accuride 28827 2 hand 24.5x8 .25 10-hub pilot steel

Steel disc rear wheels

Michelin XZY-3 425/65R22.5 20 ply pusher tires (2)

Accuride 29807 - 22.5 x 12.25" 4.75" inset 5 hand 10 hub pilot pusher wheels

Nylon wheel guards front and rear all interfaces

Wheel-Check High Visibility Green Loose Wheel Nut Indicator on all

Introduced on: November 5, 2025
Adopted on: November 5, 2025
Official Resolution#: 2025001537

CAB EXTERIOR

- 121” BBC conventional steel reinforced aluminum cab
- Galvanized E coated sealed steel door construction
- Forged steel door hinges with steel reinforced “a” pillar

ITEM #3 – CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CAB EXTERIOR (Cont'd)		
Triple door seal system	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Non-removable bug screen	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front cab mounts outboard of frame for stability or when taking off and applying torque from engine.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bolt on molded fender extensions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LH/RH exterior grabhandles with rubber insert and RH interior grab handle		
MTB to reinforced ‘A’ post	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel radiator mounted grille	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stainless steel radiator shell/hood bezel with tilt hood handle	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Molded resin hood with isolated hood suspension mounting system	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hood opening strut assist with safety lock	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) Hadley sd-978 26” rect air horns	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Single electric horn	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Horn shields	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All locks keyed the same; must have six (6) keys	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dual stage LED headlights with heated lens system	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Aerodynamic LED marker lights in stainless steel visor	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Individual LED stop/turn/backup lights flush mounted end of frame	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Introduced on: November 5, 2025

Adopted on: November 5, 2025

Official Resolution # 2025091637

Led rear facing turn signal lamps in convex mirror lens in addition to standard front turn signal lamps

Dual C bar mirror system bright finish c-bar, heated mirrors, dual remote, turn signal, stainless steel back cover with integral convex

ITEM #3 – CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

CAB EXTERIOR (Cont'd)

Door mounted mirrors with control switches on door panels

102" equipment width

LH/RH heated hood mounted side view mirrors, black finish

Stainless steel exterior sun visor

3 piece solar tinted impact resistant polycarbonate rear window configuration (1) 31 x 20" (2) 9 x 20"

Tinted door glass LH & RH tinted

Electric door window regulators

1 piece tinted roped in solar green glass windshield; heated

2 gallon windshield washer reservoir with fluid level indicator

CAB INTERIOR

Gray vinyl premium interior

Black mats with added floor heat and noise insulation

12 volt power supply in dash

Dash mounted ash tray & lighter

Forward roof mounted console

Map pockets, left and right doors

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Cab Coat hook(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wraparound wing dash with digital gauges in driver command center	<input checked="" type="checkbox"/>	<input type="checkbox"/>
One (1) 5 lb. Fire extinguisher mounted	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heater, defroster and air conditioner	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #3 – CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

CAB INTERIOR (Cont'd)

Main HVAC with constant temp control and cosmetic cover main fresh air inlet with fresh air filter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Standard heater plumbing with ball shut off valves at supply lines	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Air conditioner compressor	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radiator MTD A/C condenser	<input checked="" type="checkbox"/>	<input type="checkbox"/>
R-134A refrigerant	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Premium cab insulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Multiplexed electrical system	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Premium LED cab lighting	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cab door latches with electric door locks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Triangular reflectors without flares	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Elite high back air suspension driver and passenger seats with 2 Chamber air lumbar support, integrated cushion extension, forward and rear cushion tilt, with heat and adjustable shock absorber inboard and outboard driver and passenger arm rests	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gray Moroura cloth driver and passenger seat cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3-point driver & passenger seat belts including seatbelt retractor	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adjustable tilt and telescoping steering column	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- 450mm (18”) black steering wheel with multifunction integrated controls
- Driver/passenger interior sun visors

INSTRUMENT PANELS AND CONTROLS

- Wrap around dash that allows gauges and driver command center with up to six (6) digital gauges

ITEM #3 – CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

INSTRUMENT PANELS AND CONTROLS (Cont'd)

- Low air pressure light and buzzer
- Primary & secondary air pressure gauges
- Intake mounted air restriction gauge
- Cruise control-electronic, controls on steering wheel
- Electronic mph speedometer and 2500 rpm tachometer
- Key operated ignition switch & integral
- Start position, four (4) position off/run/start
- Headlights on with wipers with daytime running lights
- Electric fuel gauge
- Electrical engine coolant temp gauge
- Transmission oil temperature gauge
- Engine and trip hour meters integral within driver display
- Engine oil pressure gauge
- AM/FM WB world tuner cd stereo radio with Bluetooth, iPod interface
- USB and auxiliary inputs

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- Two (2) radio speakers (cab only)
- Headliner multi-band antenna AM/FM/Weatherband, Wi-Fi/Bluetooth, GNSS/GPS
- Electronic outside temperature sensor display in driver message center
- PTO switch and four (4) dash mounted aux.switches WTH indicator lights
- Engine, trip and PTO hour meter within driver display

ITEM #3 – CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

INSTRUMENT PANELS AND CONTROLS (Cont'd)

- Hand control valve
- Voltmeter
- Rotary headlamp switch, marker lights/headlights switch with pull out for optional road lamps
- Wiring and switch for customer furnished snow plow lamps with dual connections at bumper
- Switch indicator light and 10' of wire on chassis LH back of cab for customer furnished utility lights
- Two (2) valve parking brake system
- Self-cancelling turn signal switch with integral head lamp dimmer headlamp flash, wash wipe intermittent

PAINT/FINISH

- Rail black high solids
- Paint shall be base coat clear coat. Colors shall come from standard color chart or Ocean County Road Department Color Scheme as found in options
- Chassis frame: Polyurethane

Wheels/Rims:

- Introduced on: November 5, 2025
Rear pusher wheel color vendor powder black

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Front wheel color: Vendor powder black

UNDERCOATING

Entire truck chassis, underside of cab and underside of body to be coated with Tectyl 2423 haps free black, which is a low VOC, high solids, emulsion corrosion preventive coating, or equal

ITEM #3 – CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

MANUALS

The end unit shall be delivered with the following items:

One (1) fire extinguisher, interior mounted

One (1) complete set of all fluid filters, air filters and belts for engine, transmission, final drives, mounted equipment, optional equipment, and all accessories that have replaceable filters

Three (3) sets of Manufacturer’s Line Setting Sheets for chassis, mounted equipment, and optional equipment

One (1) “Build Book” per unit ordered. This Build Book shall include the brand, model, part number and serial number for the following items/systems: Hydraulic Control Valve; Hydraulic Control Cables; Hydraulic Reservoir; Plow; Spreader; Optional Freedom 2.2 Spreader Control (if ordered); PTO and Pump; Tarp System; Dump Body. A sample of this build book will be available to view during pre-build meeting.

WARRANTY

Basic vehicle - 1 year, 50,000 miles

Battery - 1 year, 50,000 miles

Brightwork – 6 months, unlimited

Cab corrosion/perforation – 5 years, unlimited

Cab structure – 1 year, 100,000 miles

Corrosion – 6 months, unlimited

COMPLIANCE PAGES -- MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Crossmembers – 3 years, 300,000 miles	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Diesel Emission – 5 years, 100,000 miles	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Frame rails – 3 years, 300,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front/steer axle: 1 year, unlimited	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #3 – CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
WARRANTY (Cont'd)		
Front/steer axle: 1 year, 100,000 miles	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Paint – 1 year, 50,000 miles	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Paint, chassis – 6 months, unlimited	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rear axle: 1 year, 100,000 miles	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Towing – 5 years, unlimited miles	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cummins 5 year 100,000 mile engine and ATS warranty	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cummins protection plan is:		
<ul style="list-style-type: none"> • Internal components, major engine systems and major components • Registered parts and labor • Covers the following, including mounting hardware and gaskets: cylinder head assembly, cylinder block assembly, Rocker level assembly, ECM, piston, rings and liners; lube oil cooler assembly, front gear cover, oil pan, connecting rod assembly, front gear cover, oil pan, connectingrod assembly, Lube pump assembly, camshaft and bushings; cam follower assemblies, crank shaft assemblies, EGR cooler, valve and mixer; Fuel injectors (excluding aftertreatment injector), turbo, water pump, fuel pump, air compressor, select engine sensors and flywheel. 	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7-year unlimited miles transmission warranty	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SPECIFICATIONS FOR BRANDON HEAVY DUTY HEATED CROSSMEMBERLESS STAINLESS

STEEL DUMP BODY	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adopted on: November 5, 2025		
Model Resolution # 702501394 acid wash, or equal	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Adopted on: November 5, 2025
Model Resolution # 702501394

General

Floor ¼” 450 Brinell	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front 3/16” Stainless Steel 304	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sides 3/16” Stainless Steel 304	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tailgate 3/16” stainless steel 304	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Long sills 3/16” 250 Brinell steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #3 – CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPECIFICATIONS FOR BRANDON HEAVY DUTY HEATED CROSSMEMBERLESS STAINLESS STEEL DUMP BODY

General (Cont'd)

Outside body width – 96”	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hoist attachment – front mount	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front design – 12” hoist recessed 90° corners	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front height including longsills – 72”	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Longsills shape – formed 10”	<input checked="" type="checkbox"/>	<input type="checkbox"/>
34” longsills outside width	<input checked="" type="checkbox"/>	<input type="checkbox"/>
27” longsills inside width	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sandblasts and primer – glass bead blasting	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Underbody to be painted chassis black	<input checked="" type="checkbox"/>	<input type="checkbox"/>
One (1) d-ring top of tailgate	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Cabshield

Cabshield type – traditional	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cabshield length – 24”	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Introduced on: November 5, 2025		
Adopted on: November 5, 2025		
Official Resolution#: 2025001537		
Cabshield width – 90” cabshield height – to be determined to match chassis height	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Light holes configuration – 4 oval lights holes

Cabshield installation

Side

Two (2) triangle steps evenly spaced with grab handles located at front of body driver's side

Side shape – formed side

ITEM #3 – CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPECIFICATIONS FOR BRANDON HEAVY DUTY HEATED CROSSMEMBERLESS STAINLESS STEEL DUMP BODY

Side (Cont'd)

Top rail section – formed

6" board pocket and intermediate bracket

Double walking rail; stainless steel

3/8" stainless steel upper tarp rail

8" apron shall pin on at rear of body

Rear

Double acting tailgate (lays flat or dumps through)

Lock positioning – end point latch system

Bolster shape – standard flat rear bolster

Tailgate angle- straight

Locking system – air cylinder size 2.5"; push/pull air controls

Tailgate panel – Two (2) panels

Hoist

Introduced on: November 5, 2025
 Modified on: November 6, 2025
 Model: 160-654
 Official Resolution#: 2025001537

Accessories To Be Included

- One (1) Complete Set of Filters For Cab/Chassis, Drive Train And Upfit
- 5 Gallons of Recommended-Use Hydraulic Fluid
- One (1) spare front tire and wheel and one (1) spare rear wheel and tire
- Safety lighting – six (6) oval led amber strobe lights with amber lenses
- Two (2) recessed into rear post, two (2) at sides of cabshield and two (2) in front of cab shield

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES NO

SPECIFICATIONS FOR BRANDON HEAVY DUTY HEATED CROSSMEMBERLESS STAINLESS STEEL DUMP BODY (Cont'd)

Accessories To Be Included

- All body lights shall be LED and Heated
- One (1) set of Meyer Saber heated and LED plow lights mounted on hood of chassis With stainless steel mounts. Location to be determined by county at time of build
- Two (2) forward facing Whelen strobe lights mounted on snow plow lights bracket to be powered by its own switch, part # RSA03ZCR
- Four (4) step double fold stainless steel folding ladder with grab handle; stainless Steps above ladder on outside and inside of body with stainless steel steps on side Of body
- 2" x 6" oak wood side boards

Installation Parts

- 40 ton cradle
- 40 ton hoist bracket
- 40-50 ton upper cylinder blocks (2)

Miscellaneous

- One (1) oval stop/tail/turn light in each rear corner post

Introduced on: November 5, 2025
 Approved for standard November 5, 2025
 Official Resolution#: 2025001537
 Wiring harness (split loom **NOT ACCEPTABLE**)

- One (1) set stainless steel stone guards – mounted on frame
- Body and hoist shall come complete with manufacturer’s safety decals
And operating instructions
- Body and hoist warranted to be free from defects in material and workmanship
under normal use and service for a period of five (5) years
- One (1) stainless steel grab handle

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPECIFICATIONS FOR BRANDON HEAVY DUTY HEATED CROSSMEMBERLESS STAINLESS STEEL DUMP BODY (Cont'd)

Miscellaneous (Cont'd)

- 3M reflective tape on both sides of body and on 9-panel tailgate
- Two (2) shovel holders – one front, one rear

SPECIFICATIONS FOR PIONEER MODEL EDD 1500A-A TARP, OR EQUAL

- Side mount – steel framework
- Roller assembly – telescopic 3 piece
- Left roller tube – 2.140” OD X 2” ID 6105-T6 aluminum extrusion with
bushing and stainless steel roll pin to accept motor shaft
- Right roller tube – 2.140” OD X 2” ID 6105-T6 aluminum extrusion with
bushing. 1” OD 6061-T6 aluminum shaft and stainless steel oil pin
- Center section – 1.960” OD X 1.820” ID 6105-T6 aluminum extrusion
- Bearing plates – ¼” H.R.S
- Bearings – flange mounted sealed ball bearings
- Roll mounting angles - 1 ½” x 2 x ¼” steel angle

Direct drive gearmotor: mounted directly to left side roller. Worm and wheel
configuration. Permanently lubricated, sealed gearbox. 90 to 1 ratio. Output shaft
Adopted on: November 5, 2025
Approved by: h250033
on: November 5, 2025
on: November 5, 2025
Output shaft is directly coupled to

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Left side roller. Electric motor is .85 horsepower. Aluminum gearbox housing.
Plastic protective cover. 3/4" od output shaft. Motor is thermally protected
By automatic resetting circuit breaker.

Pivot Arm: Framework

Pivot arms: 1 5/8" OD X 11 gauge aluminum tubing; 2 piece construction

Rear section: 1 5/8" OD X 11 gauge aluminum tubing

Bows: 1 5/16" OD X 11 gauge aluminum tubing

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES NO

SPECIFICATIONS FOR PIONEER MODEL EDD 1500A-A TARP, OR EQUAL (Cont'd)

Pivot Arm: Framework (Cont'd)

Arm mounting brackets: steel weldment

Base plate: 1/4" H.R.S

Mounting hub: 4" OD steel tube

Spring: reverse wound torsion spring – 1/2" diameter wire

Wire PER ASTM A229 Class I

SPECIFICATIONS FOR CENTRAL HYDRAULIC MANUAL SYSTEM – STAINLESS ENCLOSURE

Fabric

Asphalt tarp

Construction

Seamless front to rear rectangular in shape, 85" wide, grommets on front

And sides, pocket at rear

Wiring And Electrical

All wire shall be 8 gauge stranded cable. All connectors are ring type, high

Amperage self-centering rotary switch (momentary on – of – momentary on),

Thermal reset circuit breaker (auto reset)

Adopted on: November 5, 2025

Official Resolution#: 2025001537
PTO shall be of a non shift design driven off the Allison automatic transmission.

PTO shall have a direct mount rotatable pump flange. There shall be a console

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- Mounted rocker switch to engage and disengage the PTO. Must be Chelsea.
- Hydraulic Pump With PTO**
- Shall be on an open circuit axial piston design with adjustable compensator.
- Pump operating pressure must adjust to the actual load pressure plus a pressure Differential required for the controlled action.
- When the system is not demanding power, the load sense control will operate In an energy-saving stand-by mode.

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPECIFICATIONS FOR CENTRAL HYDRAULIC MANUAL SYSTEM – STAINLESS ENCLOSURE (Cont'd)

Hydraulic Pump With PTO (Cont'd)

Minimum pump displacement is 80cc/ 4.9 cubic inches, delivering 42 GPM at 2,000 rpm.

Pump minimum displacement shall be 90 cubic centimeters continuously rate at 350 bar (5,000 psi). Standby pressure shall be 350 psi.

Mounting is an SAE C 4-bolt flange

Shaft is 1.25" diameter, 14 tooth splined

Rpm is rated to 2300 (continuous) with pressure and flow compensator control

Rear ported, flange mounted suction port shall meet the following requirements:

- Suction port minimum 2.5"
- Must use (4) m8 x 16-8.8 mounting bolts

The rear SAE ported pressure port shall meet the following requirements:

- Pressure port minimum 1" sae-16 O-ring boss

Mount

Pump must mount directly to a PTO on ALLISON 4500 series transmissions Without requiring bent axis or external mounting hardware.

Pump must offer mounting flanges N SAE and ISO configurations, and ports are Offered in SAE and ISO tube and flange versions.

- The pump to your space.
- Multiple drain ports allow many mounting orientations - must be standard.

Pump

- The hydraulic system must include a low oil shutdown with momentary override.
- The system shall disengage the PTO is a low oil scenario should occur. The operator Will have the ability to temporarily override the shutdown to park all hydraulic Implements for travel.

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES NO

SPECIFICATIONS FOR CENTRAL HYDRAULIC MANUAL SYSTEM – STAINLESS ENCLOSURE (Cont'd)

Control Valve Grenson Valve With Priority Flow Inlet

- Central hydraulic valve system shall be a mobile design to withstand exposure to Deicing chemicals and severe weather conditions

- System shall provide hydraulic fluid to operate the dump body hoist, front plow, And granular spreader system

- Hydraulic system can run all hydraulic functions simultaneously without Inhibiting the action of the others

- Valve sections shall be of cast iron, horizontally stackable, and Serviceable without disassembly

- Directional control valves shall be pre-compensated, proportional, And load independent

- Valve system shall be closed center for variable displacement pump

- Valve sections must be adjustable for pressure up to 5,500 psi and flow ratings up to 40 GPM.

- Each valve must be laminar flow design for minimal pressure drop. Where Required, each section must be able to limit the operating speed for the implement.

- Each section must be manually activated with manual push/pull cables

System over-pressurization	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hoist section must be a PVG 100, 40 GPM 4-way section for double		
Acting hoist	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Plow lift and angle sections are also 4-way for double acting cylinders		
With crossover relief	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPECIFICATIONS FOR CENTRAL HYDRAULIC MANUAL SYSTEM – STAINLESS ENCLOSURE (Cont'd)

Control Valve Grenson Valve With Priority Flow Inlet (Cont'd)

Spreader section shall have detent on one side of valve and self-centering on reverse side of valve. <i>Note: Please Refer To the 'Modular Granular and Liquid Valve' Section Of Option 3C. Freedom 2.2 Spreader Control In Lieu Of Manual Specifications.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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All hydraulic hoses must be bulkhead mounted with metal tube style connectors. all tubes shall be labeled with the hydraulic operation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Manufacturer must be authorized to perform warranty repairs and periodic Maintenance on hydraulic valve sections	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Spreader Control

Spreader control shall be a dual knob valve with on/off handle.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Shall have individual flow adjustment knobs for the spinner and auger.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Shall include a relief cartridge to protect the motors in the event of a material jam	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Valve shall feature spinner priority to reduce material pile up from the auger at low flow conditions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Cable Controls

Control valve shall be shifted via sealed cable assemblies	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Cable assembly shall feature a polyethylene conduit with armor over braid and	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- Cable assembly shall be rated for a minimum of 100 lbs of pull and 80 lbs of push
- Cables shall be attached to the hydraulic valve with clevis pin and locking clips
- Cable to be attached to an in cab handle. Handle will be mounted in a location convenient to the operator. The handle shall feature cast base construction with steel internal parts and be rated for 80 lbs. Of output force. A knob with identification label will be attached to the end of the handle

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPECIFICATIONS FOR CENTRAL HYDRAULIC MANUAL SYSTEM – STAINLESS ENCLOSURE (Cont'd)

Reservoir/Valve Enclosure

Reservoir must be constructed of 10 gauge stainless steel. Reservoir/valve enclosure shall be 40 gallon capacity with an integrated covered mounting area for the valve. All plumbing for the hydraulic valve inside the enclosure shall be SAE rated stainless steel tubing and terminate on the front of the reservoir with JIC bulkhead connectors. The breather cap shall be mounted to an inspection lid. Inspection lid shall also provide for an in tank mounted return line filter. The filter assembly shall incorporate a 10 Micron 50 GPM filter element with a 25 psi bypass. The reservoir will include a twist off filler/breather assembly with 40 micron vent filter and a fill screen. Reservoir shall be complete with a sight temperature gauge and a magnetic drain plug. Suction port will allow for installation of a 2” NPT 50 GPM suction screen. Suction screen shall have a 3 to 5 psi bypass spring. A 2” full flow ball valve shall be installed in the suction line. Removing of a lid to access the filter and breather cap is **NOT ACCEPTABLE**. The reservoir shall have a float switch to control PTO operation in the event of low oil.

Warranty For A Certified Central Hydraulic Sectional Valve Group For Plow, Auger And Spinner

Warranty coverage runs for a period of one year from the date of initial installation (or 13 months from day of shipment from certified Cirrus control systems), or whichever occurs first.

Warranty For Bumper-To-Frame Plow Hitch (Sph-A0000152)

One (1) year from date of delivery

SPECIFICATIONS FOR V-BOX SPREADER

General

147 series v-box hopper style salt and sand spreader. Spreader shall be capable of hauling and spreading free flowing granular materials. Unit shall consist of a 147 series stainless steel 2500lb rear discharge conveyor, spinner disk, power drive and all components necessary to make a complete operating unit. Unit shall be

Produced on: November 5, 2025
 Adopted on: November 5, 2025
 Of a business steel 2500lb

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Manufactured in the usa by an iso 9001:2008 certified company.

Specifications on the unit must accompany the bid.

Body Requirements

14-yard capacity

Inside length of hopper shall be 15' at top and 12' at bottom

Inside top width shall be 84"

Side slope to be 45° minimum

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPECIFICATIONS FOR V-BOX SPREADER (Cont'd)

Body Requirements (Cont'd)

Front panel slopes shall be a minimum of 18°

Hopper seams shall be continuous welded on inside

Sides, ends and side supports shall be 10 gauge 304 stainless steel

Top edge of hopper is formed "J" channel 2" x 1 1/2"

Auger trough shall be 10 gauge 304 stainless steel

Longsills shall be 10 gauge 304 stainless steel

Cross sills shall be formed 7 gauge 304 stainless steel welded to side supports

Lift hooks on each corner are 5/8" stainless steel round bar

All hardware is stainless steel

3/8" rod on 3/8" rod top grate screens with anti-freeze hinges are required equipment

With auger conveyor v-box units

Auger Requirements

Twin 7" diameter hard faced variable pitch augers

64 cfr direct drive hydraulic motor

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Motor is directly coupled to end of auger shafts	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Auger shafts connect at front with a 2" 4 bolt flange bearing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rear auger drive has no motor guard bolted to rear	<input checked="" type="checkbox"/>	<input type="checkbox"/>
One (1) led spreader light mounted to spreader box	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Four (4) 6" oval amber strobe lights with amber lenses mounted in stainless Steel tissue box	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPECIFICATIONS FOR V-BOX SPREADER (Cont'd)

Spinner Chute Assembly

10 gauge 304 stainless steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Four (4) position telescopic adjustment	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Four (4) bottom spinner deflectors shall be overlapping to prevent loss of granular material when the deflectors are raised.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front deflector shall be fixed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bottom overlapping spinner deflectors shall have four (4) positions of rod and pin adjustment without tools. Chain adjustable deflectors are NOT ACCEPTABLE .	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Poly 20" diameter spinner disc shall have replaceable machined hub	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spinner hydraulic motor shall mount directly on bottom of spinner disc	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Paint		
All metal surfaces shall be high pressure cleaned with a phosphate solution to Remove slag, splatter, oxide, and oil residue.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Non-stainless steel parts shall be painted or powder coated black	<input checked="" type="checkbox"/>	<input type="checkbox"/>
304 stainless steel components unpainted	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Introduced on: November 5, 2025 Adopted by Lock Key November 5, 2025 Official Resolution#: 2025001537		
Main latch bar shall be 3" x 4.1 lb structural channel 84" wide	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Two (2) 3" x 4.1 lb x 8" structural channel with two (2) 1/2" x 1 1/2" mounting hole shall be welded to main channel to bolt on spreader

Two (2) 1 1/4" x 7" round stock tailgate latches to be welded to main channel

Tie Down Kit

Shall consist of four (4) chain style tie down assemblies

Chains shall be grade 30 3/8" x 29 links

Top plate shall be 1/4" x 4 triple broke a1011 powder coated steel

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

Tie Down Kit (Cont'd)

With banjo eye to accept 3/8" chain

Tie down bracket shall be 1/4" x 4" x triple broke a1011 powder coated steel With 3/8" double link clevis to attach chain

3/4" zinc plated turnbuckle to have grease fitting

1/4" turnbuckle shall have 1/2" – 13 nut welded to center to secure turnbuckle

Warranty For 145-20 Series V-Box Spreader - 304 Stainless Steel Construction

All parts of the product to be free from defects in material and workmanship for a period of one (1) year

SPECIFICATIONS FOR STEEL MOLDBOARD TUBE TABLE REVERSING FULL PLOW MOLDBOARD SPECIFICATIONS

42" H x 11' L

10 gauge carbon steel smooth rolled profile providing ultra-smooth Surface for snow deflection

Overhang from cutting edge to have minimum 12" overhang with 10° attack angle

Top of moldboard shall be reinforced by 2 1/2" x 2 1/2" x 3/8" angle iron. Bottom of Moldboard is reinforced by 4 x 4 x 3/4" angle iron and is drilled to accommodate Aashto standards

- Ribs are reinforced with 2 x 2 x 3/8 angle as well as the upper and lower Reinforcement angels.
- Ribs are 5” at the trip edge and 3” tall at the top edge by 1/2” wide
- Ribs are spaced to match support arm locations as well as provide adequate Support of the moldboard
- A total of 12 ribs shall be used per moldboard assembly
- Three (3) sets of double ribs and six (6) single ribs

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPECIFICATIONS FOR STEEL MOLDBOARD TUBE TABLE REVERSING FULL PLOW MOLDBOARD SPECIFICATIONS (Cont'd)

- Each rib shall have a 1/2” relief at the corners where they attach to the reinforcement Angles. This will allow water to drain off the back of the moldboard during storage
- At the bottom of each rib there shall be three (3) 1 5/16” holes spaced at 1 7/8” Center to center to allow for semi-circle height adjustments
- Two (2) sets of double ribs shall have three (3) 1 5/16” holes spaced at 2 1/4” center to Center to allow for attack angle adjustment
- Weldments on the moldboard shall be continuous
- Outer ribs of moldboard will be drilled for marker installation
- Two (2) curb guards mounted each side of moldboard
- Trip Mechanism Construction**
- Plow shall be full trip design consisting of two (2) coil springs
- Springs are 3/4” wire with a coil od of 5 9/16” consisting of 16 full coils
- Bottom angle is reinforced by eleven (11) 1/2” thick gussets spaced evenly to avoid Interference with cutting edge attachment hardware
- Introduced on: November 5, 2025
- Adopted on: November 5, 2025
- Cutting edge shall be 2 1/2” x 5/8” x 11’ long and shall be drilled to AASHTO standards

Cutting edge shall be secured using 5/8” grade 8 carriage bolts

Push Frame

Designed to hydraulically reverse the moldboard in an arc at any angle from 35° left to 35° right from a centered position

Shall be constructed of 1/2” plate

Supported above and below the semi-circle with 2 x4 x 3/16” tubing

Shall be drilled to accept 1 1/2” bolt at the semi-circle connection. At this connection Welded to the push frame is the female portion of the socket connection. This connection Distributes the pushing load directly from the push frame to the semi-circle and moldboard

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPECIFICATIONS FOR STEEL MOLDBOARD TUBE TABLE REVERSING FULL PLOW MOLDBOARD SPECIFICATIONS (Cont'd)

Push Frame (Cont'd)

Relieving stress on the bolted connection. The female socket connection is made from 1” Plate steel and is contoured to match the male portion on the semi-circle

Rear of push frame shall be drilled to accept a removable QCP adapter. Three (3) sets of 1 3/16” holes shall be drilled on 2” centers to allow for installation on a variety of Trucks and hitches

Two holes shall be located at the top and bottom push frame plates drilled to accept 1 1/2” bolts for hydraulic cylinder attachment

All welds are to be continuously welded. **NO EXCEPTIONS**

Semi-Circle Construction

Semi-circle shall be constructed from 5” x 5” x 3/16” tubing. The main tube, Or push beam, is 5” x 5” x 5/16” at 120 inches long spanning the entire width Of the moldboard. This tube is constructed from one continuous piece

There two stops placed appropriately to prevent the plow from turning Past 35° left or right

Crank style jackleg (part #0091215) to be mounted on backside of semi-circle

Introduced on: November 5, 2025

Adopted on: November 5, 2025

Official Resolution#: 2025001537

Hydraulic cylinder mounting points are 1/2” plates welded to the top and bottom

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Of the semi-circle. Plates shall be drilled to accept 1 ½” bolts for hydraulic Cylinder attachment. These plates also serve as locators for support arm shackles And gussets to provide additional support from the “push beam” to the rest of The semi-circle.

In the center of the semi-circle a hole shall be drilled to accept the 1 ½” grade 8 bolt That acts as the pivot point for the push frame. Also, at this point above and below The semi-circle is the male portion of the socket that relieves stress from the bolted Connection. This is made from 1” plate steel and is contoured to match the female Portion of the push frame.

Tabs shall be welded on the push frame to accept ½” screw type chain shackles. These tabs shall be made from ½” plate steel 5 ¼” long and 2 ½” wide. They are welded to the backside of the 5” tubular push beam to increase the

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

SPECIFICATIONS FOR STEEL MOLDBOARD TUBE TABLE REVERSING FULL PLOW MOLDBOARD SPECIFICATIONS (Cont'd)

Semi-Circle Construction (Cont'd)

Weld surface area at 55° from the bottom of the semi-circle to match the chain Angel going to the lift arm on the hitch

There are seven set of ¾” thick moldboard mounting ears installed along the Push beam for attachment of the moldboard. Moldboard shall pivot at these points On 1 ¼” diameter rivet pins with a washer and cotter pin on the opposite Side of the rivet head.

Four (4) sets of the moldboard mounting ears (two outer on either side of the push beam) Shall have an inside spacing of ¾” to accept a single ½” moldboard rib. Three (3) sets of moldboard mounting ears (the center sets) shall have an outside spacing of 2 ¾” to fit inside double moldboard ribs.

Moldboard attachment ears to be gusseted with 4” triangular steel gussets

Push frame shall connect to upper portion of the moldboard using two support Arms. The center of the support arm shall be made from 2 x 2 x ¼” square Box tube. Actual mounting points are 1” schedule 40 pipe fully welded through The box tubing. The box tubing shall be drilled through to accept the pipe. The actual connection point is a 7/8” bolt.

Adjustable Cast Mushroom Shoes

Plow to be fitted with adjustable cast steel mushroom shoes mounted left and right on rear Adopted on: November 5, 2025
Office Res. #.: 2025001537

- A ½” steel plate to be welded onto the semi-circle rear with five (5) adjusting holes for Overall height
- Adjusting handle crank to be stowable against the show housing and allow up and down Movement of the shoe via threaded screw
- A 1 ¼” screw with adjusting nut are housed in a 3” square shoe housing with a welded On 5-hole mounting plate
- Cast steel mushroom plow show has 6” bolt centers, ¾” square holes and is 10.625” in Diameter and 2.34 inches thick.
- Grade 8 hardware shall be used throughout

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES NO

SPECIFICATIONS FOR STEEL MOLDBOARD TUBE TABLE REVERSING FULL PLOW MOLDBOARD SPECIFICATIONS (Cont'd)

Hydraulics

- Plow angle shall be controlled by two double acting hydraulics cylinders
- Each cylinder shall have a 4” bore with an 8” rod diameter with a maximum Operating pressure of 3,000 psi.
- Retracted cylinder length is 21” with both the rod and cylinder ends accepting 1 ½” Bolts/pins for connecting to the semi-circle and push frame

QCP

- Push frame is equipped with a removable QCP adapter for quick hitch applications
- QCP side plates shall be ½” formed plate
- QCP loop diameter shall be 2”

Paint

- Paint shall be of high quality, free of runs, overspray and defects
- Standard paint type will be epoxy
- Standard paint color shall be safety orange for the moldboard and black for the frame

Introduced on: November 5, 2025
Adopted on: November 5, 2025
Official Resolution#: 2025001537

BUMPER TO FRAME PLOW HITCH SPECIFICATIONS

Front Hitch Frame

Snow plow hitch must clear hood when open

Frame is heavy duty, low profile, front frame mounted style. It is designed for use with Trucks equipped with a tilt hood and stationary grill

Frame is capable of self-storing the hydraulic front lift arm cylinder when not in operation, Allowing the lift arm to fold down parallel to the rest of the frame

Vertical supports of the hitch are constructed from 4" x 4" x 3/8" square tubing

Cylinder support bracket on the hitch is constructed a 3" X 2" rectangular tube. The two cylinder mounting tabs are 1/2" steel placed in the center of support bracket and spaced at 2 1/8" apart. Each tab is drilled to accept A 1" pin.

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

BUMPER TO FRAME PLOW HITCH SPECIFICATIONS (Cont'd)

Front Hitch Frame (Cont'd)

The upper horizontal support of the hitch is constructed of two (2) pieces:

- The first is a formed 3/8" plate that wraps the top and upper back portion of the Vertical supports this plate also acts as a stop when the lift cylinder is store as Well as one of two points the lift arms connection tabs are welded.
- The second horizontal support is a 1/2" contoured plate that allows the lift cylinder To be stored and provides a second mounting point for the lift arm connection

 Tabs

There are two (2) pairs of lift arm support shackles. Each pair is made from 1/2" x 9 3/4" Plate and are drilled to accept t 1/4" pins

Fully welded to the vertical supports are two c 8" x 18.75" channels with 1/2" thick end Plates. The end plates are drilled to accept six (6) 5/8" grade 8 bolts for attaching the hitch Between the frame rails

Support of the lower portion of the hitch is provided by left and right weldments bolted to The tapered portion of the frame. Weldments are drilled with four (4) 5/8" holes for Mounting to the exterior of the truck frame.

A 12-volt electric over hydraulic pump to operate the front hitch wing post slide located Behind cab

Front Hitch Pin Lock QCP
Adopted on: November 5, 2025
Original resolution: 20250113
made by a pin lock QCP assembly

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Top and bottom of the assembly are made from 1/2" contoured plate. Both plates are Drilled to accept the 2" lock pin	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded to the bottom plate is a 5/8" chamfered plate that both provides support to the Lock pin and helps to guide the QCP loop into the hitch	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded to the top of the plate is a formed 3/8" plate drilled for the 2" lock pin that Both provides support and protects the pin in the event a plow is set too high while Hitching.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
In the front of the QCP assembly are two (2) 1/2" thick formed bumpers. These bumpers Are the resting/pushing point for the plow. They are curved to allow the plow to raise And lower smoothly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

BUMPER TO FRAME PLOW HITCH SPECIFICATIONS (Cont'd)

Front Hitch Pin Lock QCP (Cont'd)

Lock pin is 2" tapered at one end for ease in guiding into position and has tabs welded to The other for the lift bar attachment	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Heavy Duty Arm Lift Assembly

Heavy duty lift arm is extendable style with seven (7) different extendable positions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Frame of the lift arm is constructed from 1/2" x 4" steel plate that is formed to contour The outer tube of the extendable arm. The frame is also the connection point to the hitch And hydraulic cylinder	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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The external tube is constructed of 4" heavy wall square tubing. On each end of the tube Are 1" wide bushings ground to fit the inner tube. This shall ensure a long lasting fit.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Top plate on the lift is 3/16" and is used to prevent "racking" of the frame Inner tube is constructed of 3" heavy wall square tubing. Tubing is drilled to allow for The seven (7) extendable positions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Welded to the front of the inner tube is a formed 1/2" plate with notches to accept Standard 1/2" link chain. When required this plate can be changed to match Different level systems.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Introduced on: November 5, 2025
Hydraulic Lift Cylinder, 2025

Official Resolution#: 2025001537
Hitch is provided with a single acting 4" x 10" hydraulic cylinder. A double acting

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Cylinder can be provided for applications where plow “float” hydraulic controllers
Are used.

**Warranty For Steel Moldboard Tube Table, Power Infinite Reversing
Full Plow (Spx-00000050)**

One year from date of delivery

OPTIONS

3A. 52” Tall Moldboard in Lieu of the 42” Standard

3B. Heavy Duty Heated Crossmemberless Stainless Steel Dump Body Under Options

Body shall be heated through diverter box with thermos-switch for activation with
Stainless steel piping

**ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK
WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)**

COMPLIANCE
YES NO

OPTIONS

3C. Freedom 2.2 Spreader Control In Lieu Of Manual Specifications

General

Controller shall have 3 PWM output channels for liquid and granular spreader controller

The controller shall be a microprocessor type capable of PWM control of three
Hydraulic valves.

Controller must be automotive grade for durability. Any gamming type controllers are
Unacceptable.

The controller must offer ground speed control from vehicle signal. No GPS antenna can
Be used for ground speed signal input.

The controller must have three channels to operate an auger/conveyor and liquid
System.

PWM signal must be adjustable for a wide range of implement functionality.

The controller shall be capable of ground speed oriented spreading, ground speed
triggered, and manual mode.

The system will offer a manual mode lock out option.

- The spreader controller will operate in open or closed loop configuration.
- Controller shall offer remote pause, unload mode, liquid float input, test speed, And on-screen error with alarms and message reporting.
- Sensor short detection with message and alarm.
- System must have 2 auxiliary output channels available.
- AVL data transfer is available with an additional modem.
- System shall offer spinner configurable mph shut off, storm totals on screen or With USB.
- Operator screen offers knobs or touch screen to control granular and liquid outputs.

ITEM #3 – CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

3C. Freedom 2.2 Spreader Control In Lieu Of Manual Specifications (Cont'd)

General (Cont'd)

- There shall be 9 independently programmable feeder outputs channels for actuate Lbs. Per mile output.
- The spinner shall also offer 9 programmable speeds for the spinner.
- System will maintain up to 4 different granular material types.
- There shall be an integrated blast mode with instant off to stop output if necessary.
- Blast must be programmable for flow rate and material distance.
- Unit shall provide an unload mode at speeds of up to 5 mph.
- A standby (pass) mode shall be provided to allow for momentary interrupt of the spreader Without changing the feeder/spinner/liquid output.
- All programing and calibration shall be accomplished using the touch screen of The controller.

Introduced on: November 5, 2025
 Detachable key board for programming is NOT ACCEPTABLE.
 Official Resolution#: 2025001537

Modular Granular and Liquid Valve

**If the freedom 2.2 spreader control is chosen, spreader with detent and reverse on under Control valve will need to be removed, and replaced with the following:*

- The modular manifold must be constructed of 6061 anodized aluminum.
- Modular manifold must have an adjustable pressure of up to 3500psi with multiple flow, Pressure, performance, and function configurations.
- Each function will be equipped with screw adjustable manual overrides protected by jacketed Debris covers.
- The modular manifold can operate in either open center (fixed displacement) or Closed center (variable displacement) hydraulic circuits.
- The auger / conveyor must be rated at 15 GPM and features a cartridge valve design for Precision spreading.

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

3C. Freedom 2.2 Spreader Control In Lieu Of Manual Specifications (Cont'd)

- The spinner valve must provide 10 GPM and also feature a cartridge design valve With manual override.
- Pre-wet or anti-ice implements are also available as a 10 GPM hydraulic circuits if necessary.
- These functions are proportional controlled, pulse width modulated, pressure and flow Compensated, with heavy duty 12vdc coils.
- Spreader control “outside the cab” harnessing shall meet ip 68 standards.
- The modular manifold can operate in either open center (fixed displacement) or Closed center (variable displacement) hydraulic circuits.
- The auger / conveyor must be rated at 15 GPM and features a cartridge valve design for Precision spreading.
- The spinner valve must provide 10 GPM and also feature a cartridge design valve With manual override.
- Pre-wet or anti-ice implements are also available as a 10 GPM hydraulic circuits

Adopted on: November 5, 2025
Official Resolution#: 2025001537

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- If necessary.
- These functions are proportional controlled, pulse width modulated, pressure and flow compensated, with heavy duty 12vdc coils.
- Spreader control “outside the cab” harnessing shall meet IP 68 standards.
- Connections must be Nema x6 standards for dust protection.
- Outside the cab connections shall be rated as Nema “x8” – protected against The effects of permanent submersion in water as well as able to show no corrosion After 500 hours in a 35° salt spray.
- The entire hydraulic system shall be completely serviceable without removing from the Enclosure or disassembling sections
- The electronics and hydraulics shall be manufactured by the same company.

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

3C. Freedom 2.2 Spreader Control In Lieu Of Manual Specifications (Cont'd)

- The hydraulic system shall be pressure and flow tested before the installation process.
- The modular spreader valve manifold will be mounted in a weather resistant enclosure.
- Enclosure shall be vented to reduce moisture and finished with 304 stainless steel.

3D. Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications) In Lieu Of Manual Controls

- The in-cab control system shall be an integrated proportional multi-axis (x, y) (3) joystick Console with circuit panel and spreader control.
- 0 – 5000 gauge
- Dump body hoist, front plow, and wing plow shall be controlled by three individual Joysticks capable of proportionally controlling up to 5 bi-directional valves.
- Dump body lever must have safety trigger protection.

Introduction must include integrated protection and diagnostic systems with safety features
 Adopted on: November 5, 2025
 Official Record #: 2025001537

- System must have user settable speed control for all hydraulic functions.
- Unit shall be designed for floor mount pedestal with armrest
- System will integrate with the freedom 2 granular / liquid control systems in The housing
- System must supply pulsed voltage to each individual valve coil.
- All connections inside the valve enclosure shall be ip68 rated.
- All connections will be labeled with appropriate descriptions for each connection To individual solenoids of the hydraulic actuating cylinders.
- System must also have integrated accessory control switches: the system Will include up to six (6) switches and up to six (6) warning indicator lights

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

3D. Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications)

In Lieu Of Manual Controls (Cont'd)

- Mounted in the controller.
- Each switch will handle 12v up to 10amp load and can be operated as on/off, Momentary or on/off/on as needed.
- Installing dealer must be authorized to preform warranty repairs and periodic Maintenance on certified products.

Reservoir/Valve Enclosure

Reservoir must be constructed of 7ga stainless steel. Reservoir/valve enclosure must Be 40-gallon capacity with an integrated covered mounting area for the valve. All Plumbing for the hydraulic valve inside the enclosure will be sae rated stainless Steel tubing and terminate on the front of the reservoir with jic bulkhead connectors. The breather cap shall be mounted to an inspection lid. Inspection lid shall also Provide for an in tank mounted return line filter. The filter assembly shall incorporate A 10 micron 50GPM filter element with a 25 psi bypass. The reservoir will include a Twist off filler/breather assembly with 40 micron vent filter and a fill screen. Reservoir Shall be complete with a sight temperature gauge and a magnetic drain plug. Suction port Will allow for installation of a 2" npt 50 GPM suction screen. Suction screen will have critical responsibility pass through. A 2" full flow ball valve shall be installed in the suction line.

Adopted on: November 5, 2025
Official Responsibility: 20250133

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Removing of a lid to access the filter and breather cap is not acceptable. The reservoir shall have a float switch to control PTO operation in the event low oil.

Freedom 2.2 Spreader Control

Controller shall have 3 PWM output channels for liquid and granular spreader Controller

The controller shall be a microprocessor type capable of PWM control of three Hydraulic valves.

Controller must be automotive grade for durability. Any gassing type controllers are Unacceptable.

The controller must offer ground speed control from vehicle signal. No gps Antenna can be used for ground speed signal input.

The controller must have three channels to operate an auger/conveyor and Liquid system.

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

3D. Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications) In Lieu Of Manual Controls (Cont'd)

Freedom 2.2 Spreader Control (Cont'd)

PWM signal must be adjustable for a wide range of implement functionality.

The controller shall be capable of ground speed oriented spreading, ground Speed triggered, and manual mode.

The system will offer a manual mode lock out option.

The spreader controller will operate in open or closed loop configuration.

Controller shall offer remote pause, unload mode, liquid float input, test speed, And on-screen error with alarms and message reporting.

Sensor short detection with message and alarm.

System must have 2 auxiliary output channels available.

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- AVL data transfer is available with an additional modem.
- System shall offer spinner configurable mph shut off, storm totals on screen or With USB.
- Operator screen offers knobs or touch screen to control granular and liquid outputs.
- There shall be 9 independently programmable feeder outputs channels for actuate lbs. per mile output.
- The spinner shall also offer 9 programmable speeds for the spinner.
- System will maintain up to 4 different granular material types.
- There shall be an integrated blast mode with instant off to stop output if necessary.
- Blast must be programmable for flow rate and material distance.

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

3D. Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications)

In Lieu Of Manual Controls (Cont'd)

Freedom 2.2 Spreader Control (Cont'd)

- Unit shall provide an unload mode at speeds of up to 5 mph.
- A standby (pass) mode shall be provided to allow for momentary interrupt Of the spreader without changing the feeder/spinner/liquid output.
- All programing and calibration shall be accomplished using the touch Screen of the controller.
- Detachable key board for programming is **NOT ACCEPTABLE**

Modular Granular and Liquid Valve

- The central hydraulic valve system shall be a mobile design to withstand exposure To de-icing chemicals and severe weather conditions.
- System shall provide hydraulic fluid to operate the dump body hoist, front plow,

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Hydraulic system can run all hydraulic functions simultaneously without inhibiting

The action of the others.

Valve sections shall be of cast iron, horizontally stackable, and serviceable without

Disassembly.

Directional control valves shall be pre-compensated, proportional, and load

Independent.

Valve system shall be closed center for variable displacement pump.

Valve sections must be adjustable for pressures up to 5000psi and flow ratings

Up to 40 GPM. Each valve must be laminar flow design for minimal pressure drop.

Where required each section must be able to limit the operating speed for the implement.

Each directional valve section must have a built-in check valve prevents the oil

From flowing via the pressure adjustment spool to tank.

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

3D. Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications)

In Lieu Of Manual Controls (Cont'd)

Modular Granular and Liquid Valve (Cont'd)

There shall be main pressure relieve set at 2400psi to protect against system

Over-pressurization.

Hoist section must be a PVG 100, 40 GPM 4-way section for double acting hoist

With flow control.

Plow lift and angle sections are also 4-way for double acting cylinders with crossover

Relief and flow control.

The hydraulic system shall be pressure and flow tested before the installation.

Installing dealer must be certified to perform warranty repairs and periodic

Maintenance on hydraulic valve sections.

The spreader manifold must be constructed of 6061 anodized aluminum.

Introduced on: November 5, 2025

Adopted on: November 5, 2025

Spreader manifold shall have an adjustable pressure of up to 3500psi with multiple flow,

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Pressure, performance, and function configurations.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Each function will be equipped with screw adjustable manual overrides protected By jacketed debris covers.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The spreader manifold can operate in either open center (fixed displacement) or Closed center (variable displacement) hydraulic circuits.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The auger / conveyor must be rated at 15 GPM and features a cartridge valve design for Precision spreading.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The spinner valve must provide 10 GPM and also feature a cartridge design Valve with manual override.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pre-wet or anti-ice implements are also available as a 10 GPM hydraulic circuits If necessary.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
These functions are proportional controlled, pulse width modulated, pressure and flow Compensated, with heavy duty 12vdc coils.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

3D. Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications)

In Lieu Of Manual Controls (Cont'd)

Modular Granular and Liquid Valve (Cont'd)

Spreader control “outside the cab” harnessing shall meet ip 68 standards.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Connections must be Nema x6 standards for dust protection.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Outside the cab connections shall be rated as Nema “x8” – protected against the Effects of permanent submersion in water as well as able to show no corrosion After 500 hours in a 35°c salt spray.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The entire hydraulic system shall be completely serviceable without removing From the enclosure or disassembling sections.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The electronics and hydraulics shall be manufactured by the same company.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The hydraulic system shall be pressure and flow tested before the installation process.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

The modular spreader valve manifold will be mounted in a weather resistant enclosure.

Enclosure shall be vented to reduce moisture and finished with black powder coat
Or stainless steel.

Specifications for Patrol Wing - Wing Post

Front wing post shall be removable for summer operation

The front hitch shall be constructed so that the wing post mount will be able to slide in.
An out to allow the tilt hood to move forward without obstruction for maintenance and
Daily fluid checks.

The front wing post slide function will be accomplished using a hydraulic cylinder
Controlled by an in-cab push button and driven by an independent electric hydraulic
Pump

Front Hitch

The plow lift hinge shall be flame cut from 3/4" steel plate and shall have a full plate
Gusset at the top.

The plow lift cylinder shall be 4" x 10" double acting and shall have O-ring seals.

**ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK
WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)**

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

**3D. Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications)
In Lieu Of Manual Controls (Cont'd)**

Front Hitch (Cont'd)

QCP hitch with 2" tapered pin;

There shall be a 10-gauge break formed bumper extension left side.

Front Post

There shall be provisions for a minimum of 8" of float for the front of the wing.

The cylinder shall have O-ring seals and wipers.

There shall be a 1-1/4" x 12" wing slide to wing hinge pin and a 1-1/4" wing
Hinge to wing bolt.

Enables the chassis hood to open for maintenance and regular fluid checks.

Trip Wing Hinge

The wing shall be attached to the front wing post with a trip hinge.

The hinge shall be designed to allow the wing to trip and reset automatically when hitting an obstruction.

The reset shall be with a rubber compression not with coil spring.

The hinge shall have two offset hinges to lift the wing as it trips.

Side Wing Moldboard

The wing shall be designed for the right side of the truck and shall be heavy duty.

Wing shall have an overall length of 132” and shall have a 120” x 8” 2’ cutting edge.

The nose height shall be 32” and the discharge height shall be 39.2”

The cutting edge backer shall be 4” x 6” x 5/8” with gussets and shall be punched to Accept 8” or 3” x 3” x 12” punch cutting edge.

Welded to this backer shall be a minimum of five (5) 3/8” ribs

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

3D. Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications)

In Lieu Of Manual Controls (Cont'd)

Side Wing Moldboard (Cont'd)

The leader shall be a minimum of 1” plate steel and shall have two (2) holes to accept A 1 ¼” wing bolt

Sliding post shall be as follows:

- Steel support sliding pivot weldment when in operation the Tubes will run from frame rail to frame rail
- Two (2) 1” quick release hitch pins in easy to reach location to lock the pivot Weldment into place during operation mode
- Hydraulic cylinder mounted to the hitch to allow the pivot point to slide Out 12” and allow the hood to open for maintenance
- Slide cylinder will be actuated using an electric hydraulic pump unit mounted in

A stainless steel protective box in the frame rails of the chassis behind the cab
Official Resolution # 20250915271 to allow front edge of plow to raise 12” off the ground

There shall be several places longitudinally at the back of the wing to allow the push Arms to be attached at proper angles.

The steel on the side wing will be sandblasted and primed. The plow shall be painted Orange on the front and black on the back.

Rear Wing Post Mount

The rear post wind mount will be removable for summer paving operation using a bolt On steel plate

The rear post mount shall be as follows:

- 1/2" plate permanent mounted weldment bolted to the frame with a cross member Under the frame to support channel on driver's side. The frame will not be mounted To the lift axle cross member
- Removable forward portion rear 1/2" plate mounting weldment bolted to the Permanent section support to allow to forward mount to be removed during the summer
- 4" round torque arm with dampening spring to support rear pf plow board

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

3E. Paint for Dump Body

Paint specified dump body in a single stage paint a single color (i.e. School bus Yellow or other paint color from color chart)

3F. Spreader Leg Stands

Main channels to be constructed of 2" x 6" x 7ga tubing

Galvanized tubing is done to ASTM a123 grade 100 – 3.9 mil minimum thickness

Crossmembers to be 3" structural channel

Telescoping rear legs to be constructed of 3 1/2" x 3 1/2" x 3/16" tubing

Adjustable front legs to pivot, constructed of 4" x 4" x 3/16" tubing

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- 4" adjustable steel front roller wheels
- Body guide wheels front and rear of stand
- 3G. One-Way Plow with QCP**
- The one-way plow shall be designed to be heavy duty and shall be of a high Speed design.
- It shall have a clearing path of 9' with an 11' 3" cutting edge length including The nose shoe.
- The cutting edge shall be 132" x 8" x 2" and shall be replaceable.
- The plow shall have a nose height of 29" and a discharge height of 55".
- The moldboard shall be manufactured with a 2" x 2" x 1/4" angle leader welded To the 5 - 3/8" ribs and the steel nose plate.
- The bottom cutting edge backer shall be 4" x 6" x 5/8" angle with gussets.
- This angle shall be punched to allow the use of both 8" and 3"-3"-12" punched Cutting edges.

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

3G. One-Way Plow with QCP (Cont'd)

- There shall be a 3" x 3" angle mid-way of the ribs from the discharge end to the Nose end.
- The moldboard shall be roll formed of 10 gauge steel.
- The moldboard shall pin to the push frame with 3 Au≅ shaped connectors.
- Two of the connectors shall have a heavy duty coil spring to allow the moldboard To trip and assist in absorbing road shock.
- The push frame shall have a 4" x 6" x 5/8" plated angle front with two (2) 4" x 4" x 3/8" tubular steel push arms and there shall be three diagonal Braces with in the push arms.
- Introduced on: November 5, 2025
- Adopted on: November 5, 2025
- Official Resolution # 202501507
- There shall be a chain to prevent the moldboard from tipping over when

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- Adjuster pin is removed.
- The plow shall have two adjustable push frame shoes and two moldboard shoes.
- The plow shall be manufactured to accept carbide edges and adjust to 55 degrees To 60 degrees attack angle.
- The entire steel structure will be sandblasted and primed. The plow shall be Painted orange on the front and black on the back.
- Plow shall have QCP loop installed with 2” diameter loop

3H. Diagnostic Tools / Test Equipment

Cummins Quickserv Unlimited Service plan, with renewals, shall be provided at no cost to the county for a period of five (5) years from the acceptance of the equipment

- 1. Successful bidder shall be required to supply between one (1) and three (3) Complete sets of testing/diagnostic/programming equipment (i.e. Laptop, Software, cabling, and adapters) and special tools required to perform the Full range of diagnostic and maintenance actions necessary to maintain Vehicle operability. This equipment will cover the vehicle chassis, engine, Transmission, brakes, hydraulics, and all additional equipment (if applicable)
- 2. All laptop computers will be of the newest available technology and have sufficient storage and memory to operate all required software

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

3H. Diagnostic Tools / Test Equipment (Cont'd)

- 3. Provide a list of all test/diagnostic/programming equipment and special tools being supplied at the time of bid
- 4. All software installations and activations will be completed by the successful bidder at no cost to the county
- 5. All software updates and renewal will be provided at no cost to the county for a period of five (5) years from the acceptance of the equipment
- 6. All technical issues relating to test/diagnostic/programming equipment and special tools shall be resolved by the successful bidder at no cost to the county for a period of five (5) years from the acceptance of the equipment
- 7. Training shall be provided on all items in this section at a specified county location

3I. Two-Way Radio Power and Wiring Requirements for New Vehicles

For the purpose of installing two-way radios into new county vehicles and equipment, the following power and wiring components shall be included:
Adopted on: November 5, 2025
Official Resolution # 2025001537

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

- #12 AWG red wire connected to 12VDC battery source rated at 20 amps
- #12 AWG black wire connected to chassis ground
- #16 AWG yellow wire connected to 12VDC ignition sense rated at 5 amps

Wires shall be encased in plastic wire loom and routed from their source into the Cab of the vehicle and secured in the vicinity of the operator. Wiring harness shall be Clearly labeled “TWO-WAY RADIO”. Wires shall be unterminated. 12VDC sources Shall be protected from making contact with grounded metal surfaces

3J. Installation of County Supplied Two Way Radio and Accessories

Install is to include but not limited to antenna cable, mounts, speakers, brackets, etc. For the purpose of installing two-way radios into new county vehicles and equipment, The following power and wiring components shall be included:

1. #12 AWG red wire connected to 12VDC battery source rated at 20 amps.
2. #12 AWG black wire connected to chassis ground.
3. #16 AWG yellow wire connected to 12VDC ignition sense rated at 5 amps.

These wires shall be encased in plastic wire loom and routed from their source into The cab of the vehicle. The wiring harness shall be clearly labeled “TWO-WAY RADIO”. The 12VDC sources shall be protected from making contact with grounded metal surfaces.

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>
	<u>YES</u> <u>NO</u>

OPTIONS (CONT'D)

3K. Technical Support

Technical support is to be provided by factory authorized technical representatives and Is to be the original equipment manufacturer’s industry standard technical presentation In a classroom setting. The support provided shall be at the journeyman/equipment technician Level and should address limited theory, fault diagnosis and repair pertaining specifically to the equipment supplied under this specification.

Technical support may be requested in the following areas:

- Engine (cooling, fuel, ignition, lubrication systems) – 1 day at each location.
- Transmission – 1 day at each location
- Electrical – 1 day at each location
- Brakes – 1 day at each location
- Hydraulic system (dump body, spreader, snow plow) – 1 day at each location
- Upfitter (dump body, sweeper, etc.) – 1 day at each location

Introduced on: November 5, 2025

Adopted on: November 5, 2025

Official Resolution # 2025001537(s) shall be made available for a total of 180 training/support

COMPLIANCE PAGES – MOTOR VEHICLES: DUMP, TANDEM, AND TRI-AXLE TRUCKS

Hours (anticipated to be scheduled in six (6) hour blocks). Shorter training days will be Allowed only with consent of vehicle services. The total training hours will be required To be provided and no additional compensation will be considered. The actual time to be Spent on each area will be by mutual agreement of the vehicle services department and The successful bidder.

For the purposes of determining materials and other training costs, class size is Anticipated to be comprised of six (6) to ten (10) vehicle services department personnel. Actual class size will be determined by the vehicle services department at the time the classes are scheduled.

Before the training is scheduled, vehicle services and the contractor will agree on the Scope of the training, and the type and quantity of manuals, etc. that are necessary for Proper coverage.

Technical support for vehicle services may be provided at the following fleet Maintenance facility location as scheduled by a vehicle services department Representative:

- Toms River, 152 Chestnut Street, Toms River, N.J. 08753 (two (2) sessions will be provided at this location. One beginning at 7 am and another beginning at 1:30 pm)
- Manahawkin, 379 Haywood Road, Bldg. 109, Manahawkin, N.J. 08050

ITEM #3 - CURRENT MODEL YEAR WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS (CONT'D)

3K. Technical Support (Cont'd)

Technical support for other departments will be held at a location within Ocean County. The requesting department will notify the successful bidder of The location. Training at the successful bidder's site, rather than the designated Locations, will be by mutual consent only. Technical support will be requested And scheduled on an as needed basis up to but not exceeding the 180 hours total During a period not to exceed twelve (12) months from the date of placing the Last unit in service.