

Ocean County Board of Commissioners

OFFICE OF THE OCEAN COUNTY COMMISSIONERS

Director Barbara Jo Crea Deputy Director Gary Quinn Commissioner Virginia E. Haines Commissioner John P. Kelly Commissioner Frank Sadeghi

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

Board Meeting Agenda

Date: February 7, 2024 - 4:00 PM

Location: Administration Building

Room 119

101 Hooper Avenue Toms River, NJ 08754

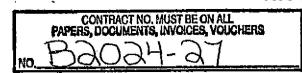
Agenda: Awarding a Contract for the furnishing and delivery of MOTOR VEHICLES: DUMP TRUCKS to Robert H. Hoover and Sons, Inc., the lowest qualified bidder. (B2024-27)

| Official Resolution# | | | | 202 | 400 | 014 | 46 | |
|------------------------|-------|------|----------|------|-----|-----|-----|-------|
| Meeting Date | | | C |)2/0 | 7/2 | 024 | 4 | |
| Introduced Date | | | C |)2/0 | 7/2 | 024 | 4 | |
| Adopted Date | | | C |)2/0 | 7/2 | 024 | 4 | |
| Agenda Item | | | k | -11 | | | | |
| CAF# | | | Γ | | | | | |
| Purchase Req. # | | | B2024-27 | | | | | |
| Result | | | Adopted | | | | | |
| COUNTY COMMISSIONER | PRES. | ABS. | | MOVE | SEC | AYE | NAY | ABST. |
| Crea | ~ | | | | | ~ | | |
| Quinn | ~ | | | | | ~ | | |
| Haines | ~ | | | > | | ~ | | |
| Kelly | ~ | | | | ~ | ~ | | |
| Sadeghi | ~ | | | | | ~ | | |

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 1. Gunther

Clerk Of The Board



RESOLUTION

February 7, 2024

WHEREAS, on January 17, 2024, pursuant to legal advertisements therefor, sealed bids were received for the furnishing and delivery of MOTOR VEHICLES: DUMP 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 and Sons, Inc. 149 Gold Mine Road Flanders, NJ 07836 (973) 347-4210

Name and Address of Bidder

Gabrielli Kenworth of NJ LLC 2306 US Highway 130 N Dayton, NJ 08810 (201) 641-4440 ext. 6527

; 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 that of, ROBERT H. HOOVER AND 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 furnishing and delivery of Motor Vehicles: Dump Trucks, for the County of Ocean, for the contract period from date of award through February 6, 2025, a period of one (1) year 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, as follows:

A. ROBERT H. HOOVER AND SONS, INC. for twenty two (22) items, to

wit:

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

For a Total Lump Sum Award Item #1 (Item #'s 1 - 1I) of \$1,716,594.00.

For a Total Lump Sum Award Item #2 (Item #s 2 - 2L) of \$2,950,740.00. This vendor has extended this contract to County Cooperative Contract System Participants.

Introduced on: Adopted on: Official Resolution#: 2024000146

February 7, 2024 February 7, 2024

- 2. Payments for the equipment to be acquired by this contract 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.
- 3. Funds for the equipment shall be available within the following funding Sources: Roads, Vehicle Services O.E.
- 4. The contract number must be placed on all papers, documents, invoices and vouchers pertaining to said contract, the number being B2024-27.

BE IT FURTHER RESOLVED that certified copies of this Resolution shall be made available to the County Auditor, County Department of Purchasing, Department of Finance, Roads, Vehicle Services and Robert H. Hoover and Sons Inc., the successful bidder.

Introduced on Adopted on: Official Resolution#: 2024000146

February 7, 2024 February 7, 2024 PROPOSAL DOCUMENT REPORT Bid No. TBD

MOTOR VEHICLES: DUMP TRUCKS

12. 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

| | | Description | Qty. | Unit of Measure | Unit Cost | Total Cost | No Bid | Comments |
|-----------------|------------|--|------|--------------------|--------------|----------------|---------|---------------------------------------|
| $\sqrt{}$ | * 1 | ITEM #1 - Current Model Year, or Newer, 6 Yard Dump Truck with Plow and Spreader, As Specified, or Equal | 6 | EA | \$244,967.00 | \$1,469,802.00 | э. Э | , - |
| 2.23 | PTIÓNS | | | | | | | |
| $\sqrt{}$ | 1A | 52" Tall Moldboard in Lieu of 42" Standard, As Specified | 6 | EA | \$1,500.00 | \$9,000.00 | į | |
| $\sqrt{\Gamma}$ | . 1B | Freedom 2.2 Spreader Control, As Specified | 6 | EA | \$3,188.00 | \$19;128.00 | | · · · · · · · · · · · · · · · · · · · |
| | 1C | Larger Dump Body, As Specified | 6 | EA | \$1,225.00 | \$7,350.00 | | |
| | 1D | Paint for Dump Body, As Specified | 6 | EA | \$3,294.00 | \$19,764.00 | | |
| | 16 | Road Department Paint Color Scheme, As Specified | 6 | ËA | \$2,500.00 | \$15,000.00 | • | |
| | 1F | Diagnostic Tools / Test Equipment, As Specified | ,, 3 | SET | \$30,250.00 | \$90,750.00 | | |
| | 1G | Two-Way Radio Power and Wiring Requirements for New Vehicles, As Specified | 6 | EA | \$750.00 | \$4,500.00 | | |
| $\sqrt{}$ | 1H | Installation of County Supplied Two Way Radio and Accessories, As Specified | 6 | EA | \$1,550.00 | \$9,300.00 | | |

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Official Read with the ROZEMPELES: DUMP TRUCKS

PROPOSAL DOCUMENT REPORT Bid No. TBD MOTOR VEHICLËS: DUMP TRUCKS

| | Line Item | Description | Qty. | Unitiof Measure | Unit Cost | Total Cost | No Bid | Comments |
|---|-----------|---------------------------------|------|--------------------|-----------|----------------|--------|----------|
| / | 11 | Technical Support; As Specified | 180 | HR | \$400.00 | \$72,000.00 | ٨ | |
| | TOTAL | | 2 | | ı.C | \$1,716,594.00 | | |

ITEM #2 - CURRENT MODEL YEAR, OR NEWER, WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL

| | Line Item | Description | Qty. | Unit of Measure | Unit Cost | Total Cost, | No Bid | Comments |
|-----------------|-----------|---|------|--------------------|--------------|----------------|--------|----------|
| \int | 2 | ITEM #2 - Current Model Year, or Newer, Western Star 49X SF Specialized Dump Truck with Plow and Spreader, As Specified, or Equal | 6 | EA | \$374,703.00 | \$2,248,218.00 | .7 | |
| , | OPTIONS | | | n Arti | | | | |
| $\sqrt{\ }$ | 2A | 52" Tall Moldboard in Lieu of the 42" Standard, As Specified | 6 | : EA | \$1,500.00 | \$9,000.00 | | , |
| $\sqrt{}$ | 28 | Heavy Duty Heated Crossmemberless Stainless Steel Dump Body Under Options, As Specified | 6 | EA | \$3,540.00 | \$21,240.00 | | |
| $\sqrt{}$ | 2C | Freedom 2.2 Spreader Control in Lieu of Manual Specifications, As Specified | 6 | EA | \$3,188.00 | \$19,128.00 | | ; |
| \int_{γ} | 2D | Central Hydraulic System (Electric Proportional Plow / Granular Controls Specifications) in Lieu of Manual Controls, As Specified | 6 | EA | \$52,132.00 | \$312,792.00 | N. | |
| \int_{I} | 2E | Paint for Dump Body, As Specified | 6 | EA | . \$4,600.00 | \$27,600.00 | | |
| | 2F | Road Department Paint Color Scheme, As Specified | 6 | EA | \$2,500.00 | \$15,000.00 | | ä |
| J_i | , 2G | Spreader Leg Stands, As Specified | 6 | EA | .\$5,171.00 | \$31,026.00 | | |
| \int_{Γ} | 2H | One-Way Plow with QCP, As Specified | 6 | EA | \$15,081.00 | \$90,486.00 | | ı |
| J_{i} | . 21 | Olagnostic Tools / Test Equipment, As Specified | 3 . | , SET | \$30,250.00 | \$90,750.00 | | l# |
| / | 2,1 | Two-Way Radio Power and Wiring Requirements for New Vehicles, As Specified | 6 | EA | \$750.00 | \$4,500.00 | ä | |

Introduced on: February 7, 2024

PROPOSAL DOCUMENT REPORT Bid No. TBD

MOTOR VEHICLES: DUMP TRUCKS

| , | Line Item | Description | Qty. | Unit of Measure | Unit Cost | 'Total Cost | No 8id | Comments |
|---|-----------|---|------|--------------------|------------|----------------|--------|----------|
| / | 2K | Installation of County Supplied Two Way Radio and Accessories, As Specified | 6 | EA | \$1,500.00 | \$9,000.00 | | |
| / | 2L | Technical Support, As Specified | 180 | HR | \$400.00 | \$72,000.00 | ٠ | |
| | TOTAL | , | | | | \$2,950,740.00 | | |

COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS

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ITEM #1 – MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

SPREADER, AS SPECIFIED, OR EQUAL

| | COMPLIAN | |
|---|-------------|-----------|
| CAB AND CHASSIS SPECIFICATIONS | <u>YES</u> | <u>NO</u> |
| General | , | |
| Chassis designed for heavy-duty general use of a dump, snow plow and spreader truck with appurtenances | <u>`</u> | |
| 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. | \boxtimes | |
| Rear Axle Capacity: 25,000 lbs. | | |
| Expected GVW Capacity: 40,020 lbs. | | □ |
| Engine Cummins L9, minimum 300 HP @ 2,200 RPM and 860 lbft. 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 | \boxtimes | |
| No PTO mode cancel vehicle speed | | |
| Oil check and fill: engine mounted | | |
| Alternator: 160 amp DR 28 SI brushless Quadra-mount with remote battery volt sense | \boxtimes | |
| Batteries: Two (2) 12-volt GNB Maintenance Free 2000 CCA | | |
| Battery Box: Plastic, frame-mounted, left side under cab | × | |
| Positive and negative posts for jumpstart located on frame next to starter | ×. | |
| Positive load disconnect switch mounted outboard of driver seat. Must be protected from bottom of cab. | ⊠ | |
| Compressor: 18.7 CFM | | |
| Introduced on: February 7, 2024 Discharge line: Teftornary 7, 2024 Official Resolution#: 2024000146 | \boxtimes | <u> </u> |

Adopted on:

Official Resolution#: 2024000146

February 7, 2024

 $Res_{age}g:k_f1_7-8$

ITEM #1 - MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

| SPREADER, AS SPECIFIED, OR EQUAL (CONT'D) | COM | PLIAN | NCE |
|--|-------------|--------|-----------|
| | YES | | <u>NO</u> |
| CAB AND CHASSIS SPECIFICATIONS (CONT'D) Engine Equipment | | | |
| Engine Protection: electronic engine-integral warning system with shut down function | | 541 | |
| Engine brake: Cummins exhaust brake | \boxtimes | • | |
| Exhaust: Single right-hand under step mounted horizontal after-treatment system with diamond plate cover and cab access steps | \boxtimes | | |
| Fan Drive: Air on/off drive automatic fan control | | . 🗀 | |
| Oil filter: full-flow | \boxtimes | 41 | |
| Fuel filter | \boxtimes | | |
| 13 gallon diesel exhaust fluid tank shall be full of fluid at delivery | | | |
| Non-polished aluminum diamond plate diesel exhaust fluid tank cover | \boxtimes | | · |
| Radiator | \boxtimes | | |
| Heavy-duty coolant: -34 degrees Fahrenheit extended life with coolant filter | | | |
| Constant-torque clamps: constant torque for coolant hoses 1-3" diameter | | , | |
| Engine Heater: Phillips 1,000W/115V | | ٠ | |
| Chrome heater receptacle: mounted under driver's door | \boxtimes | 6 8 | □ . |
| Flywheel housing: Aluminum | | | |
| Air intake warmer Starter: Delco 12V 39 MT HD with OCP and magnetic switch | | | |
| Transmission and Equipment 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 | " | e F | |
| Vehicle interface wiring, Magnetic engine drain, transmission and rear axle fill and drain plugs | | | |
| Vehicle interface wiring with body builder connector mounted back of cab | \boxtimes | | |
| Electronic transmission customer access connector | \boxtimes | | |
| Underslung or overslung frame cross-member at transmission mount | \boxtimes | | |
| Trans oil check and fill with electronic oil level check | \boxtimes | | |
| Transmission cooler: heavy-duty water-to oil in radiator end tank | \boxtimes | | |
| PTO mounting LH-side of transmission | \boxtimes | | |

Res. 29: k-11-9

ITEM #1 - MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

| | COMPLIAN | <u>CE</u> | |
|---|--------------------------------|-------------------|--|
| | YES | <u>NO</u> | |
| CAB AND CHASSIS SPECIFICATIONS (CONT'D) Front Axle and Equipment | | | |
| Detroit DA-FS-16.0-572KPI/3.74 drop, minimum capacity @ ground of 16,000 lbs. | \boxtimes | | |
| Set Back Front Axle Design | | | |
| Front brakes: Meritor cam 16.5 x 6" Q+ cast spider cam with dust shields | | | |
| Front brake lining: non-asbestos | | | |
| Front brake drums: Conmet outboard-mounted cast-iron | \boxtimes | \square_{\cdot} | |
| 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 | \boxtimes | | |
| 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 | \overline{p} | | |
| Meritor RS-25-160 series; 25,000 lbs | | | |
| Rear axle ratio: 5.63 | \boxtimes | | |
| Rear axle carrier housing: heavy-duty iron | \boxtimes | | |
| Main driveline: MXL176T Meritor extended lube with half-round yokes | | Ļ | |
| 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 | \boxtimes | | |
| Rear Brakes: Meritor cam 16.5 x 7" P cast spider heavy duty double anchor fabricated | | | |
| shoes | \boxtimes | | |
| Rear axle brake linings: non-asbestos with dust shields | $oldsymbol{\boxtimes}_{\cdot}$ | | |
| Rear brake drums: outboard-mounted cast iron | \boxtimes | | |
| Brake cams and chambers on forward side of drive axle | \boxtimes | | |
| Rintroduced on scals February 7, 2024 Adopted on: February 7, 2024 Official Resolution#: 2024000146 | | | |

COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS

Res-Pg:k-11/610

ITEM #1 – MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

| | <u>COMPI</u> <u>YES</u> | LIANCE NO |
|--|----------------------------|--------------|
| CAB AND CHASSIS SPECIFICATIONS (CONT'D) | | |
| Rear Axle and Equipment (Cont'd) Parking brake chambers: Bendix Eversure Longstroke spring parking brake chambers | | |
| Rear axle Automatic slack adjusters: Haldex | \boxtimes | . 🖂 |
| Rear Suspension: 26,000 lbs. Flat leaf with helper and radius rod | \boxtimes | |
| Fore and aft control rods | \boxtimes | |
| Axle clamp: Standard U-bolt pad | \boxtimes | |
| Brake System Equipment Brake Package: Full air | | |
| Anti-lock brake system: Wabco four-channel, 4-sensor/4 modulator, with-out traction control enhancement | \boxtimes | |
| Chassis air lines: reinforced nylon, fabric braid and wire braid depending on location | . 🗵 | · 🗖 |
| Brake relay valve with 5-8 PSI crack pressure | \boxtimes | |
| Air dryer: Bendix AD9SI heated air dryer mounted inboard on LH rail | \boxtimes | , □ |
| Air reservoirs: Aluminum | \boxtimes | · |
| Air tank drain valves: Pull cables on all air tanks | $ \boxtimes$ | . 🗆 |
| 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 | \boxtimes | |
| Frame and Wheelbase Wheelbase: 150" | | |
| Cab-to-Axle: 84" | \boxtimes | |
| 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 | \boxtimes | |
| Rear Suspension Cross Member: Standard heavy-duty C-channel | \boxtimes | |
| Chassis Equipment | | |
| Front bumper: 14" steel 3/8" or Custom for snow plow mounting | \boxtimes | . 🗆 |
| Front tow hooks: Two (2) frame mounted | ⊠ " | |
| Fander and front of hond managed front mud flaps FAGNITURE plate Fander 7, 1921 uded Official Resolution#: 2024000146 | | |

COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS

Resp. P.g: k 17611

ITEM #1 - MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

| SPREADER, | AS SPECIFIED, | OR EQUAL | (CONT'D) |
|-----------|---------------|----------|----------|
| | | | |

| | COMPLIANCE | | |
|--|-------------|----------------|--|
| CAR AND CITA CON CONCERNA ADIONIC (CONTENT) | <u>YES</u> | <u>NO</u> | |
| CAB AND CHASSIS SPECIFICATIONS (CONT'D) Chassis Equipment (Cont'd) | | t.r | |
| Chassis Fasteners: Grade 8 threaded Hex | \boxtimes | , | |
| Fuel Tanks and Equipment Left hand fuel tank: 60-gallon, must be constructed of aluminum to preclude exterior | 157 | . [| |
| corrosion and interior fuel contamination | ⊠ | . Е | |
| Fuel tank: 25" diameter | | | |
| Fuel tank and band finish: Polished stainless steel bands with plain aluminum tank | ⊠ | | |
| Fuel tank orientation: Forward mounted under cab | | | |
| Fuel tank cap: Standard, non-locking | | · 🔲 | |
| Fuel/water separator: With heated bowl and primer pump | | <u>,</u> 🗖 | |
| Fuel hoses: Nylon high temperature reinforced | | ☐ ['] | |
| 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) | \boxtimes | | |
| Front Wheels: Accuride model 29039 5-hand 5.25 inset 10-bolt hub-pilot 22.5" \times 9.00" steel disc. | \boxtimes | | |
| Front wheel nuts: Hub-pilot with flat flange | \boxtimes | | |
| Rear Tires, Hubs and Wheels Rear Tires: Michelin XDS-2 11R22.5 16-ply | \boxtimes | | |
| Rear hubs: Conmet pre-set bearing iron (aluminum hubs are not acceptable) | \boxtimes | | |
| Rear wheels: Accuride model 28828 2-hand hole 10-bolt hub-pilot 22.5" x 8.25" steel disc wheel | \boxtimes | | |
| Rear wheel nuts: hub pilot with flat flange | \boxtimes | | |
| Wheel check high visibility green loose wheel nut indicator on all wheels | \boxtimes | | |
| Spare Tires to be Included One (1) spare front tire mounted to wheel to match specified front wheels and tires | \boxtimes | | |
| One (1) spare rear tire mounted to wheel to match specified rear wheels and tires | Z . | | |

Introduced on: Adopted on:

February 7, 2024 February 7, 2024

Official Resolution#: 2024000146

COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS

ITEM #1 - MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

SPREADER, AS SPECIFIED, OR EQUAL (CONT'D) **COMPLIANCE**

| CAD AND OUTAGETS SDECUEES A DEONIS (CONTROL) | <u>YES</u> | <u>NO</u> |
|--|----------------|-----------|
| CAB AND CHASSIS SPECIFICATIONS (CONT'D) 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 utiliz one on the inside of the door, and one on the cab exterior to the rear of the door. The step shall be a minimum of 4" wide and the grab handles must be large enough to be safely |)S | ; |
| grasped by one wearing heavy-duty work gloves. | | _ |
| Cab mounts: Air | \boxtimes | . 🗆 |
| Bug Screen: Non-removable mounted behind grille | | |
| Grab handles: Exterior LH/RH | \boxtimes | |
| Grille: Stationary Grille Hood: Fiberglass | ⊠ ⊠ | |
| Air Horn under deck | | |
| Electronic horns: Dual | \boxtimes | |
| Key and Lockset: All trucks and all locks keyed the same with six (6) keys per unit | \boxtimes | . |
| Headlights: Single halogen composite with bright bezels, headlights on with wipers | \boxtimes | . 🗆 🗈 |
| 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 | \boxtimes | П |
| Mirror Mounting: Mirrors mounted on doors | - 7 | |
| Auxiliary mirrors: 8" convex bright finish mounted under primary mirrors both sides | \boxtimes | |
| Rear window: Tinted safety glass | \boxtimes | |
| Door windows: Tinted with lowered bottom beltline for increased sideward visibility and operating wing windows LH & RH | \boxtimes | |
| Door window regulators: Electric | | |
| Windshield: 1 piece tinted and heated | \boxtimes | |

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Introduced on: Adopted on:

February 7, 2024 February 7, 2024 Official Resolution#: 2024000146

Windshield washer reservoir with fluid level indicator

Respag + 17613

ITEM #1 - MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

| | | CE |
|--|-------------|------------|
| CAB AND CHASSIS SPECIFICATIONS (CONT'D) | <u>YES</u> | <u>NO</u> |
| Cab Interior | | |
| Interior Level: Gray vinyl interior | | |
| Interior convenience package roof mounted console with additional center compartment | ⊠ . | |
| LH upper door trim: Molded door panel | | |
| RH upper door trim: Molded door panel | | |
| Dash mounted 12 volt power supply | | |
| Cup Holder | | |
| Air Conditioning | <u>⊠</u> . | |
| Main heater/vent control: Main HVAC with recirculation switch | \boxtimes | |
| HVAC ducting for fresh air intake with snow shield | | |
| Heater plumbing: Standard without ball shut off valves | \boxtimes | , |
| A/C compressor: heavy-duty | × . | |
| A/C condenser: Radiator mounted | \boxtimes | |
| A/C plumbing; binary control with R134A refrigerant | \boxtimes | |
| Cab Insulation Package | \boxtimes | |
| 12V negative ground electrical system | \boxtimes | |
| Interior lights: Dome door activated LH & RH | | |
| Cab door locks: Electric | | |
| Driver 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 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 | i ⊠ | |
| Driver seat cover: Vinyl | × . | , <u> </u> |
| Seat belts: 3-point adjustable D-ring retractor for outboard seating positions | \boxtimes | . 🗆 |
| Steering column: Tilt | X | _ |
| Interior sun visors: Standard driver and passenger | | |
| First poly (edicin: February 7, 2024 Adopted on: February 7, 2024 Official Resolution#: 2024000146 | | |

ITEM #1 - MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

| | <u>COMPLI</u> | ANCE |
|--|---------------|-----------|
| | YES | <u>NO</u> |
| CAB AND CHASSIS SPECIFICATIONS (CONT'D) | | |
| <u>Cab Interior</u> (Cont'd) 5 lb. Fire extinguisher | × | |
| Triangular Reflector kit | . 🛛 . | |
| Instrument Panel and Controls Gauge package: Electronic | | Ù |
| Gauge finish: Black bezels | \boxtimes | |
| Low air pressure warning: Light and buzzer | | . 🗆 |
| Air system pressure gauge with primary and secondary gauges | \boxtimes | |
| Cruise control | \boxtimes | |
| Starter control: key-controlled | \boxtimes | |
| LCD odometer, trip odometer, hour meter and voltmeter | | |
| Diagnostic Interface connector: Located below dash | \boxtimes | |
| Fuel level gauge: Electric | | |
| Coolant temperature gauge: Electric | | |
| Transmission temperature gauge | | |
| Hour meter: Integral with driver display | | |
| Engine oil pressure gauge: Electric | | |
| PTO switch with indicator lamp | | |
| Radio: AM/FM WB with front auxiliary input | | |
| Radio speakers: Two (2) | X | · 🗀 |
| Radio antenna | | |
| Speedometer: Electronic, MPH scale | \boxtimes | |
| Tachometer: Electronic, 3000 RPM | | a |
| 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 | lacksquare | |
| Four (4) on/off rocker switches in the dash with indicator lights | | |
| Partking dorake systemu 2-wal 2024 system with warning indicator Adopted on: February 7, 2024 | | . 🗆 |
| Tofficial Brisal with the Second Seco | \bowtie | |

Respag k 11/615

ITEM #1 - MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

| | | COMPLIANCE | |
|--|--------------|------------|-----------|
| CAR AND CHARGE CONTRACTOR AND | <u>YES</u> | | <u>NO</u> |
| CAB AND CHASSIS SPECIFICATIONS (CONT'D) Paint | | 9 | |
| Paint type and color: Basecoat clear coat paint; color to be selected from standard color | | | |
| chart at time of order | \boxtimes | | |
| Paint design: Standard | \boxtimes | | |
| Chassis color: Black Polyurethane | \boxtimes | | |
| Bumper color: Black | | | |
| Front and Rear wheel color: Powder-coated black | | | |
| 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 | ā | | _ |
| Which is a low VOC, high solids, emulsion corrosion preventive coating, or equal | \boxtimes | | |
| Accessories One (1) complete set of filters for cab/chassis, drive train and upfit | \boxtimes | | |
| Five (5) gallons of recommended-use hydraulic fluid | \boxtimes | ij | , |
| DUMP BODY SPECIFICATIONS – GALION HEAVY DUTY CROSS-MEMBER LESS MODEL 433U STAINLESS DUMP BODY Manuals | - | | |
| The end unit shall be delivered with the following items: One (1) fire extinguisher, interior mounted | \boxtimes | or . | |
| 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 | · 🛛 | is in | |
| Three (3) complete sets of mechanic's parts "shop", service and troubleshooting USB's thassis, 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 | for ⊠ | | <u> </u> |
| Three (3) sets of Manufacturer's Line Setting Sheets for chassis, mounted equipment, and optional equipment | | gr) | |
| 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. | \boxtimes | | |

Introduced on: Adopted on:

February 7, 2024 February 7, 2024

Official Resolution#: 2024000146

RespRg: k₀1₀1₇-1₆6

ITEM #1 - MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE

YES DUMP BODY SPECIFICATIONS - GALION HEAVY DUTY CROSS-MEMBER-LESS MODEL 433U STAINLESS DUMP BODY 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. X **Minimum Body Dimensions** Inside Length: 10'6" X \boxtimes Inside Width: 84" X Overall Width: 96" X Side Height: 26" End Height: 36" X \mathbf{X} Rear Post Height: 36" Capacity: 5.9/6.8 Cubic yards water level X П X \Box Cab Shield: 10 Gauge 304-2B, 1/2" x 90" Integral cab shield Minimum Body Construction Sides: 7 gauge 304-2B stainless steel with formed sloping dirt shedding bottom rail X Board Pockets: 10" x 7 GA 304-2B side board pockets for 4" wood X \boxtimes Front/Tailgate: 7 GA 304-2B stainless steel Floor: Hardox 3/16" AR450 180,000 PSI steel with 2" side to floor radius \boxtimes Top Rail: 7 GA 304-2B stainless steel with formed in dirt shedding box top rail \boxtimes 図 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 \boxtimes Front Corner Post: 6" wide x 7 GA 304-2B 冈 1 1/4" x 3/8" Tarp Rail: Full length stainless both sides (round bar not acceptable) \boxtimes X Grip strut stainless steel rail – length of body at base X Rear Corner Post: 15" wide full depth x 7 GA 304-2B 冈 15" Full Depth Rear Bolster: 7 GA 304-2B stainless steel Tailgate: 7 GA 304-2B stainless steel. Full perimeter box bracing, two intermediate ventical braces and one intermediate horizontal brace. \boxtimes

Adopted on: February 7, 2024 Official Resolution#: 2024000146

Res-Pg k 11-17

ITEM #1 - MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE

| | <u>YES</u> | <u>NO</u> |
|---|----------------|----------------|
| 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. | 4 × | □ ⁻ |
| Crossmembers: None | \boxtimes | |
| 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 | \boxtimes | |
| 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 | \boxtimes | |
| 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 | | \Box |
| An outer cover shall enclose the cylinder while not in use | \boxtimes | |

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ITEM #1 - MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

| | YES YES | CE NO |
|---|---------------|----------|
| DUMP BODY SPECIFICATIONS - GALION HEAVY DUTY CROSS-MEMBER | | |
| LESS MODEL 433U STAINLESS DUMP BODY (CONT'D) | 5 | |
| Minimum Hoist Requirements (Cont'd) Through means of the oscillating collar attached to the bottom of the outer cover, the | | L. |
| 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 | | |
| <u>Miscellaneous</u> | | |
| Tailgate spreader chain kit | | |
| One (1) oval Stop/Tail/Turn light cutouts in rear corner post | | n |
| Wiring for standard dump body lights enclosed in a sealed waterproof wiring harness. 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 | | |
| 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 | \boxtimes | П |
| Accessories Back-up Alarm: Electric with minimum decibel level 97 DBA, 12-volt | \boxtimes | |
| 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 | \boxtimes | |
| 30-ton pintle hook ³ / ₄ " pull plate with 5/8" D-rings | \boxtimes | |
| 7-way round trailer Pollak type plug with a removable end Introduced on: February 7, 2024 Adopted on: February 7, 2024 Official Resolution#: 2024000146 | ⊠ | |

COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS

ITEM #1 - MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

| | COMPLIAI YES | NCE NO |
|---|-----------------|-----------|
| <u>DUMP BODY SPECIFICATIONS - GALION HEAVY DUTY CROSS-MEMBER</u> | | |
| LESS MODEL 433U STAINLESS DUMP BODY (CONT'D) | <u> </u> | |
| Accessories (Cont'd) One (1) set of Meyer Saber plow lights mounted on hood of chassis with stainless steel mounts. Location to be determined by County. | \boxtimes | . 🗆 |
| Two (2) forward facing strobe lights mounted on snow plow lights bracket to be powered by its own switch | d ⊠ | |
| 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. | \boxtimes | |
| PIONEER MODEL EDD 1500D 8/15' TARP SPECIFICATIONS | | |
| Side Mount- Steel Framework | | |
| Roller Assembly – Telescopic – 3-piece | \boxtimes | |
| 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: 1/4" H.R.S. | | |
| Bearings: Flange Mounted Sealed Ball Bearings | | |
| Roll Mounting Angles: 1 ½" x 2" x ¼" Steel Angle | × į | |
| 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. 3/4" O.D. output shaft. Motor is thermally | | i. |
| protected by automatic resetting circuit breaker. | \boxtimes | e 🔲 |
| Pivot Arm Framework | 4 | |
| 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. Overall height to be 3.185" | ⊠ . | |
| Rear Section: 1 3/4" O.D. x 170 wall 6061-T6 Aluminum Extrusion Introduced on: February 7, 2024 | . 🗵 | |
| Adopted on: February 7, 2024 Power Residual Residual Adopted on: February 7, 2024 | IXI | |

COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS

Res-Pg: k, 11-20

ITEM #1 - MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

| | | <u>CE</u> |
|---|-------------|-----------|
| PIONEER MODEL EDD 1500D 8/15' TARP SPECIFICATIONS (CONT'D) | <u>YES</u> | <u>NO</u> |
| Pivot Arm Framework (Cont'd) | | |
| Arm Mounting Brackets: Steel Weldment | × | |
| Base Plate: ¼" H.R.S. | | |
| Mounting Hub: 4" O.D. steel tube | | Ļ |
| Spring: Reverse wound torsion spring – ½" diameter wire | \boxtimes | Ė |
| 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 P20A346JEAL17-25 The pump shall be a cast iron, positive displacement, gear type pump. The pump shall feature pressure balanced, bronze wear plates and Teflon bushings. Pump shaft shall be a 7/8' 13 spline shaft to couple with PTO. Pump size shall be 3.44 cubic inches of displacement. | | |

Introduced on: Adopted on:

February 7, 2024 February 7, 2024

Official Resolution#: 2024000146

Respag: k-11-21

ITEM #1 - MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE

| | <u>YES</u> | <u>NO</u> |
|--|-------------|-----------|
| CENTRAL HYDRAULIC MANUAL SYSTEM – STAINLESS ENCLOSURE | <i>i</i> • | |
| 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 excee 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 auge 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 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. | ⊠ ' | |
| 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 Adopted on the February 7, 2024 eather cap is not acceptable. The reservoir shall have a florific white or t | \boxtimes | |

Resp. P.g.: 1611-722

ITEM #1 -- MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

Official Resolution#: 2024000146

| | COMPLI | |
|--|-------------|----------|
| SPX 050 AMERICAN ROADS TRITON SNOW PLOW | <u>YES</u> | NO |
| STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL P | LOW | 1. |
| SPECIFICATIONS Moldboard Specifications | | |
| Moldboard Specifications Moldboard length of 11 feet | \boxtimes | |
| Moldboard height of 42 inches | \boxtimes | · 🗀 · |
| Moldboard material shall be 10 gauge carbon steel smooth rolled profile providing ultra-smooth surface for snow deflection | \boxtimes | ·. |
| Overhang from cutting edge shall have minimum 12" overhang with 10 degree attack angle. | | |
| Top of moldboard shall be reinforced by 2 ½" x 2 ½" x 3/8" angle iron. | | |
| Bottom of moldboard shall be reinforced by $4 \times 4 \times \frac{3}{4}$ " angle iron and drilled to accommodate AASHTO standards. | e D | |
| 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 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 sets of double ribs and 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. | | <u> </u> |
| 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. | \boxtimes | |
| 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. | | |

Res. Pg: k, 11.23

<u>ITEM #1 – MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)</u>

| • | COMPLIANC | |
|--|-------------|--------------|
| STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL P | YES TOW | NO |
| SPECIFICATIONS (CONT'D) | DOW | |
| Trip Mechanism Construction (Cont'd) | | |
| 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. | \boxtimes | |
| 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 ang | le | |
| from 35 degrees left to 35 degrees right from a centered position | \boxtimes | |
| Push frame shall be constructed from a ½" plate | \boxtimes | |
| | | |
| Push frame shall be supported above and below the semi-circle with $2 \times 4 \times 3/16$ " 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 1" plate steel and contoured to match the male portion on the semi-circle. | \boxtimes | |
| 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 | \boxtimes | |
| The state of the s | v | 6 |
| 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. | \boxtimes | |
| | | TAT |
| Semi-Circle Construction Semi-circle shall be constructed from 5 x 5 x 3/16" tubing. The main tube or "push | | |
| beam $5 \times 5 \times 5$ 1/16" is 120" long spanning the entire width of the moldboard. This tube | | |
| shall be constructed from one continuous piece. | \boxtimes | |
| | · · · | |
| There shall be two stops placed appropriately to prevent the plow from turning past | | |
| 35° left or right. | \boxtimes | Li |
| Crank style jackleg (part #0091215) to be mounted on backside of semi-circle | Ø | |
| 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 | | |
| altitue lume that These February 318024 erve as locators for support arm shackles and gussets to Adopted on Ad | ⋈ | |
| previde additional expandriatrom the "push heam" to the rest of the semi-circle. | \boxtimes | × 📖 |

COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS

ITEM #1 - MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE

| STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL P | Low | |
|--|---------------------------------------|---|
| SPECIFICATIONS (CONT'D) | | |
| Semi-Circle Construction (Cont'd) | | |
| 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. | · · · · · · · · · · · · · · · · · · · | |
| 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. | \boxtimes | |
| 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 1/4" | | |
| diameter rivet pins with a washer and cotter pin on the opposite side of the rivet head. | | Ц |
| 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 $2 \times 2 \times \frac{1}{4}$ " 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. | r ⊠ | |
| Adjustable Cast Mushroom Shoes Plow to be fitted with adjustable cast steel mushroom shoes mounted left and right on rea of semi-circle | ur ⊠ | |
| 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 1/4" screw with adjusting nut are housed in a 3" square shoe housing with a welded on 5-hole mounting plate Introduced on: February 7, 2024 | Ø | |
| Adopted on: February 7, 2024 | | |

Official Resolution#: 2024000146

Res-Pg:k, 11-25

ITEM #1 - MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

| CO.(1 D) | COMPLIANCE | | COMPLIANCE |
|--|-------------|----------|------------|
| | YES | NO | |
| STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL P SPECIFICATIONS (CONT'D) | LOW | | |
| Adjustable Cast Mushroom Shoes (Cont'd) | • | | |
| Cast steel mushroom plow shoe has 6" bolt centers, 3/4" square holes and is 10.625" in | | • | |
| diameter and 2.34 inches thick. | ⊠ | o | |
| Grade 8 hardware shall be used throughout | \boxtimes | | |
| 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. | \boxtimes | | |
| Diany shall be agreemed with an arragayer relief valve. Valve shall use 1/2 parts and | | | |
| Plow shall be equipped with one crossover relief valve. Valve shall use ½" ports and be set to a relief pressure of 1000 PSI. | \boxtimes | · · | |
| ob best to the left pressure of recording | | _ | |
| OCP | | × | |
| Push frame shall be equipped with a removable QCP adapter for quick hitch applications | \boxtimes | П | |
| | | | |
| The side of the removable QCP shall be drilled to allow for three different mounting | \boxtimes | П | |
| heights | М | Щ, | |
| Base of the QCP shall be made from MC4 x 13.8# channel | \boxtimes | | |
| QCP side plate shall be ½" formed plate | \boxtimes | <u> </u> | |
| QCP loop diameter shall be 2" | \boxtimes | | |
| <u>Paint</u> | | | |
| Paint shall be of high quality, free of runs, overspray, and defects | \boxtimes | | |
| Standard paint type shall be epoxy | \boxtimes | | |
| Standard paint color shall be safety orange | \boxtimes | | |
| SPH A-152 ARM | | , , | |
| BUMPER-TO-FRAME PLOW HITCH SPECIFICATIONS | | | |
| Hitch Frame | al . | | |
| Frame shall be heavy duty, low profile, front frame mounted style, designed for use with | AT . | | |
| truncksuceruipped withrastilt laozd and stationary grille - snow plow hitch must clear hood Adopted on: February 7, 2024 Wifficial Resolution#: 2024000146 | \boxtimes | | |
| Official NG501011011#. 2024000140 | | | |

COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS

 \boxtimes

ITEM #1 – MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

SPREADER, AS SPECIFIED, OR EQUAL (CONT'D) COMPLIANCE NO. YES **SPH A-152 ARM** BUMPER-TO-FRAME PLOW HITCH SPECIFICATIONS (Cont'd) Hitch Frame (Cont'd) 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. \boxtimes Vertical supports of the hitch shall be constructed from 4 x 4 x 3/8" square tubing. X. 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 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 \times 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 1/2" contoured plate that allows the lift cylinder to be stored and provides a second mounting point for the \boxtimes П lift arm connection tabs. There shall be two pairs of lift arm support shackles. Each pair shall be made from $\frac{1}{2}$ " x X , 🗵 🗌 9 3/4" plate and drilled to accept 1 1/4" pins. Fully welded to the vertical supports shall be two C 8 x 18.75 channels with $\frac{1}{2}$ " thick end plates. The end plates shall be drilled to accept six 5/8" grade 8 bolts for attaching \boxtimes 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 . 🗆 \boxtimes 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 \boxtimes shall be drilled to accept the 2" lock pin. Welded to the bottom plate shall be a 5/8" chamfered plate that both provides support \boxtimes 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 \boxtimes while hitching In front of the QCP assembly shall be two ½ thick form bumpers. These bumpers are the resting pushing point to raise and lower simooth 2024000146

COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS

Res-Pg:k.11-27

ITEM #1 – MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

| CTIVE A 450 ATOM | COMPLIAN YES | CE NO |
|--|-----------------|----------|
| SPH A-152 ARM BUMPER-TO-FRAME PLOW HITCH SPECIFICATIONS (Cont'd) | | |
| 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. | | |
| <u>Heavy Duty Lift Arm Assembly</u> Heavy duty lift arm shall be an extendable style with seven different extended positions. | \boxtimes | |
| 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. 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 | ⊠ | |
| Top plate on the lift arm shall be 3/16" and is used to prevent "racking" of the frame. | \boxtimes | |
| The inner tube shall be constructed of 3" heavy wall square tubing. Tubing is drilled to allow for the seven different extended positions. | \boxtimes | |
| 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. | × | |
| STAINLESS STEEL 8' UNDER TAILGATE SPREADER SPECIFICATIONS MEYER BL-960 | i. | |
| Specifications Body Width: 96" | | |
| Hopper Height: 19" | ⊠ . | |
| Hopper Width: 96" | \boxtimes | |
| Hopper Depth: 18" | × | |
| Spread Width: 4'-40' | \boxtimes | |
| Empty Weight: 450 lbs. | ⊠ . | |
| Introduced on: February 7, 2024 SACHORED Prameter February 7, 2024 Semicial Resolution#: 2024000146 | \boxtimes | |

Res-Pg:k 11-28

<u>ITEM #1 – MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND</u>

| | COMPLIAN | |
|--|----------------|-----------|
| STAINLESS STEEL 8' UNDER TAILGATE SPREADER SPECIFICATIONS (Co | YES nt'd) | <u>NO</u> |
| MEYER BL-960 | | 21 |
| Specifications (Cont'd) Material Movement: Auger | \boxtimes | |
| Mounting Method: Under Tailgate | ⊠ | |
| Hopper Material: Stainless Steel | \boxtimes | |
| 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. | \boxtimes | |
| 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 sensored motor). | | |
| 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. | \boxtimes | |
| 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 ½" formed channel stainless steel rear | ıı. | |
| 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. | X | |
| 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 Introduced on: February 7, 2024 startless startless startless startless of tools. Official Resolution#: 2024000146 | ∑. | |

COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS

Res-Pg:k.11-29 Page 23 of 76

ITEM #1 – MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE NO STAINLESS STEEL 8' UNDER TAILGATE SPREADER SPECIFICATIONS (Cont'd) Trough (Cont'd) 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 captivated latches. 冈 П Drive A direct drive coupled hydraulic motor shall be provided for driving the auger. X This hydraulic motor shaft shall mount directly to the auger pipe by a non-corrosive sleeve and a 1/2" grade 8 bolt. X The hydraulic motor shall mount directly to the end plate X There shall be two separate hydraulic "orbital type" motors capable of delivering high \boxtimes torque at low speeds to power both the auger and the spinner. П The auger feed rate and spinner speed are both variable. X П 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. X 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. X The auger idler shaft shall be supported in sealed self-aligning precision single row radial ball bearing with grease fitting. Ø The discharge port shall be located on the left side of the trough, approximately 21" in from the edge of the bottom door. \boxtimes 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 П the normal operation position. \boxtimes 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. \boxtimes П Tibeospinater: assembly shall abe adjustable side to side, allowing for variable spread padented and right February 7,1292 of vehicle. X

<u>ITEM #1 – MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL</u> (CONT'D)

| | YES YES | <u>NO</u> |
|--|---------------------|------------|
| STAINLESS STEEL 8' UNDER TAILGATE SPREADER SPECIFICATIONS (Co. | nt'd) | |
| Spinner (Cont'd) 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. | | D pi |
| 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. | . \(\sigma\) | |
| 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: 1 year warranty | \boxtimes | |
| Under Tailgate Spreader: 1 year warranty | \boxtimes | |
| Introduced on: Warranty shall starting date of acceptance of vehicle by the County. Vehicle Fronties to 2017 warranty details with bid submission. | | |

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ITEM #1 – MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

| | YES YES | NO |
|--|--------------|---|
| 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. | , 🖾 | |
| 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. | <i>;</i> ⊠ | |
| 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. | | П |
| 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. | ⊠ . | Image: Control of the |
| Sensor short detection with message and alarm. | \boxtimes | |
| System must have 2 auxiliary output channels available. | \boxtimes | |
| System shall offer spinner configurable MPH shut off, storm totals on screen or with USB. | \boxtimes | |
| 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. February 7, 2024 | ⊠ | |
| Adopted on: February 7, 2024 Syfficial Resalution#in20240000146 4 different granular material types. | \boxtimes | |

ITEM #1 – MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

| | <u>COMPLIANO</u> <u>YES</u> | <u>CE</u> <u>NO</u> |
|--|--------------------------------|------------------------|
| 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 spreade without changing the feeder/spinner/liquid output. | r ⊠ | |
| 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. | ⊠ | |
| 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. | \boxtimes | |
| Additional cartridge valve required for liquid system. | \boxtimes | |
| These functions shall be proportional controlled, pulse width modulated, pressure and flow compensated, with heavy duty 12 VDC coils. | <u></u> | |
| Spreader control "outside the cab" harnessing shall meet IP 68 standards. | \boxtimes | |
| Connections must be NEMA x6 standards for dust protection. | · 🗵 | - |
| | | |

Introduced on: Adopted on:

February 7, 2024 February 7, 2024 Official Resolution#: 2024000146

COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS

ITEM #1 ~ MODEL YEAR 2023. OR NEWER. 6 YARD DUMP TRUCK WITH PLOW AND

SPREADER, AS SPECIFIED, OR EQUAL (CONT'D) COMPLIANCE NO OPTIONS (CONT'D) 1B. Freedom 2.2 Spreader Control (Cont'd) 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. \boxtimes The entire hydraulic system shall be completely serviceable without removing from the enclosure or disassembling sections. \boxtimes The electronics and hydraulics shall be manufactured by the same company X The hydraulic system shall be pressure and flow tested before the installation process. X The modular spreader valve manifold shall be mounted in a weather resistant enclosure. \mathbf{X} Enclosure shall be vented to reduce moisture. Five (5) year warranty on spreader valve, Two (2) year warranty on controller. X П 1C. Larger Dump Body Larger dump body shall have same specifications as indicated in base vehicle, but with 30" sides to maintain a water capacity of 6.8 cubic yards. \boxtimes 1D. Paint for Dump Body Paint specified dump body in a single stage paint a single color (i.e. School Bus Yellow X or other paint color from color chart). 1E. Road Department Paint Color Scheme School Bus Yellow from the bottom of the windows down. Bahama Blue from the bottom of the windows up to and including cab roof and back, on hood from bottom of windshield to a point on the hood to make a "V" and match the Road Department fleet. Shall be base coat clear coat. (Note: Not all Vehicles will be painted this way). X 1F. Diagnostic Tools / Test Equipment Cummins Quicksery 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). \boxtimes 2. All laptop computers will be of the newest available technology and have sufficient storage and memory to operate all required software. \boxtimes

Introduced on: Adopted on: Official Resolution#: 2024000146

February 7, 2024 February 7, 2024

 ${\it ROBERT~H.~HOOVER~AND~SONS,~INC.} \\ {\it COMPLIANCE~PAGES~-MOTOR~VEHICLE:}~DUMP~TRUCKS$

Adopted on: February 7, Official Resolution#: 2024000146

February 7, 2024

ITEM #1 - MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

| <u> </u> | <u>KŁA</u> | DER, AS SPECIFIED, OR EQUAL (CONT'D) | | |
|-------------------|-------------------------|--|-----------------|-----------|
| ΛT | тта | Ne (CONTID) | COMPLIAN YES | NCE NO |
| | | <u>NS</u> (CONT'D) gnostic 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. | × | П |
| | 7. | Training shall be provided on all items in this section at a County location. | | |
| | 8. | This equipment shall be the OEM equipment as available by the chassis | Д | Ц |
| | Ų, | manufacturer. | | |
| For | the | o-Way Radio Power and Wiring Requirements for New Vehicles purpose of installing two-way radios into new County vehicles and equipment, wing power and wiring components shall be included: | a a | |
| , | <i>I</i> . # | 12 AWG RED wire connected to 12VDC Battery Source rated at 20 Amps. | | |
| | 2. #. | 12 AWG BLACK wire connected to chassis ground. | , , | |
| | <i>3</i> . # <i>j</i> | 16 AWG YELLOW wire connected to 12VDC Ignition Sense rated at 5 Amps. | þ | |
| sou The sha | rce in wiri II be | rires shall be encased in plastic wire loom and routed from their nto the cab of the vehicle and secured in the vicinity of the operator, ing harness shall be clearly labeled "TWO-WAY RADIO". The wires unterminated. The 12VDC sources shall be protected from making with grounded metal surfaces. | | · |
| VOI | lact | with grounded metal surfaces. | Δi | |
| lns Foi | tall is | tallation of County Supplied Two Way Radio and Accessories to include but not limited to antenna cable, mounts, speakers, brackets, etc. purpose of installing two-way radios into new County vehicles and equipment, wing power and wiring components shall be included: | 2 | |
| | 1. # | 12 AWG RED wire connected to 12VDC Battery Source rated at 20 Amps. | | |
| | 2. #1 | 2 AWG BLACK wire connected to chassis ground. | , e | |
| In | 3#j | 6 AWG YELLOW wire connected to 12VDC Ignition Sense rated at 5 Amps. | × | |

ITEM #1 - MODEL YEAR 2023, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

| | COMPLIANO YES | |
|--|------------------|-------|
| OPTIONS (CONT'D) | 1145 | NO |
| 1H. Installation of County Supplied Two Way Radio and Accessories (Cont'd) 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. | \boxtimes | ; |
| 11. <u>Technical Support</u> 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. | | Ц |
| Technical support may be requested in the following areas: 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 |
| 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. | | |
| 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. | ⊠ | Ц |
| 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. | \boxtimes | ∐. |

Kes-Pg:₁₆,11-36

 \boxtimes

ITEM #1 – MODEL YEAR 2023. OR NEWER. 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE NO **OPTIONS** (CONT'D) 1I. Technical Support (Cont'd) 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 X Technical Support for other Departments will be held at a location within Ocean County. The requesting Department will notify the successful bidder of \boxtimes the location. Training at the successful bidder's site, rather than the designated locations, will X 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.

ROBERT H. HOOVER AND SONS, INC.

COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS

Res-Pg:k.11-37

ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH

PLOW AND SPREADER, AS SPECIFIED OR EQUAL

| | COMPLI YES | IANCE NO |
|--|---------------|-------------|
| GENERAL 2023 WESTERN STAR 49X SF | <u></u> | . 🗆 |
| | ⊠ | |
| Set forward axle | | Ц |
| Lh primary steering location | | |
| DIMENSIONS Front axle 20,000 lbs. | 🗵 | □ , |
| Pusher axle 20,000 lbs. | \boxtimes | |
| Rear axle 52,000 lbs. | . · · 🗵 | |
| Registered gywr 80,000 lbs.; cg tags | | |
| ENGINE | ±. | |
| Cummins x15 performance series 14.91, 912 cid minimum 525v hp @ 1900rpm. | \boxtimes | |
| Gov 1900 rpm, and 1850 lbft. Torque @ 1000 rpm. | , 🗵 | |
| Must be in line 6 cylinder of wet sleeve design utilizing hardened Cylinder liners, and electronics for simple service and diagnosis as needed. | ⋈ | |
| Minimum displacement shall be 14.9 liters. | \boxtimes | |
| 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. | | |
| ENGINE EQUIPMENT | Ø | |
| Engine must have latest 50 state clean idle diesel emission certification | <u>.</u> 🖾 | Ц |
| Oil check and fill: engine mounted | . | |
| Air intake: hood mounted air intake with precleaner integrated into hood with inside/outside air snow door. | | |
| Alternator: 200 amp 28 si with remote battery volt sense | Ø | |
| Batteries: (4) 12-volt gnb maintenance-free 4000 CCA | | . |
| Battery box: frame mounted stack battery box LH or RH side back of cab Adopted on: February 7, 2024 Official Resolution#: 2024000146 | | . 🗆 |

Positive load disconnect control switch mounted under dash or floor

X

ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH

PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

| * | COMPLI | - |
|--|-------------|---------------------------------------|
| ENGINE EQUIPMENT (Cont'd) | YES , | <u>NO</u> |
| Remote jump start studs mounted on frame next to starter | | |
| Silicone heater/radiator hoses where possible | \boxtimes | |
| Compressor: Cummins 18.7 CFM with internal safety valve | | |
| Engine protection: electronic engine-integral warning system with shut down function | ⊠ . | |
| Engine brake: Cummins interbrake compression brake with on off switch and low, med and high retardation switch | × | □. |
| Exhaust: single right-hand under cab ATD with bright finish upper 11' vertical stack cab mounted | 🛛 | |
| 2-piece fan shroud and rear rock guard | \boxtimes | |
| Exhaust shield: stainless steel | \boxtimes | |
| Fan drive: electronically controlled variable speed automatic control with dash switch and light | | |
| 13 gallon diesel exhaust fluid tank | \boxtimes | . 🗀 |
| Non-polished aluminum cover for def tank | \boxtimes | ₹ 🗖 |
| Oil filter: full-flow | × | |
| Fuel filter/water separator: Detroit engine mounted with water in fuel Indicator | | · 🗔 |
| Radiator: 1400 square-inch severe service assembly bolted to engine | \boxtimes | . П |
| Heavy-duty coolant: -34 oat extended life | \boxtimes | |
| Coolant hoses: silicone where possible | \boxtimes | · □ |
| Hose clamps: constant tension for coolant hoses and air intake system | \boxtimes | , , , , , , , , , , , , , , , , , , , |
| Engine heater: Philips 1500w/115v | | |
| Introduced on: February 7, 2024 Chrome heater recentagle; mounted under driver's door | | |

ROBERT H. HOOVER AND SONS, INC.

COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS

Res-Pg:k.11-39

Cast iron front and rear engine supports

| THOW AND STREADER, ASSI BETTED ON ESOAD (CONT. D) | COMI YES | PLIANCE NO |
|--|-------------|---------------|
| ENGINE EQUIPMENT (Cont'd) | <u>IES</u> | <u>NO</u> |
| 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 | | |
| 1900 rpm primary mode shift speed | | |
| Performance—Table based shift schedule | . X | |
| 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 | | <u>П</u> |
| Synthetic transmission fluid | 9 | · 🗖 |
| Transmission oil check and fill with electronic oil level check | | ь 🔲 |
| FRONT AXLE AND SUSPENSION Meritor 20000# front axle | | , |
| Meritor 16.5 x 6 q+ heavy duty cast spider cam front brakes | \boxtimes | |
| Brakes, double anchor, fabricated shoe | | Ē |
| Non-asbestos front brake lining severe service | × | |
| Conmet cast iron front brake drums Introduced on: February 7, 2024 | \boxtimes | □ |
| Adopted on: February 7, 2024 Official Resolution#: 2024000146 Front brake dust shields | | |

Res-Pg:k,11-40

| | COMPL | |
|---|--|-----------|
| FRONT AXLE AND SUSPENSION (Cont'd) | <u>YES</u> | <u>NO</u> |
| Front oil seals | × | |
| Stemco aluminum vented front hub caps | | |
| With window and center+side plugs – oil | | |
| Synthetic 75w-90 front axle lube | \boxtimes | |
| Haldex automatic front slack adjusters with stainless steel clevis pins | . 🗵 | |
| Bendix high capacity 20-23k power steering with rh auxiliary gear | | |
| Power steering pump oil air cooler | . 🗵 | |
| 4 quart power steering see through reservoir | | |
| 23,000# flat leaf front suspension | | |
| Threaded spring pins and bushings | | |
| Front shock absorbers | | , |
| REAR AXLE AND SUSPENSION | 0 | |
| Meritor rt-52-185 52000# tandem rear axle | | |
| Factory installed Watson/Chalin sl-2065 Tru-Track 20000# air lift | | , |
| Steerable pusher suspension with 16.5x6" brakes, dust shields and | | |
| FL 1 Watson/chalin 20000# axle | \(\Bar{\Bar{\Bar{\Bar{\Bar{\Bar{\Bar{ | |
| Pusher axle controls in cab, up/down valve, gauge and air pressure regulator | Ø | |
| Reverse lift axle warning with last state retention | \(\sigma\) | |
| Air piping for liftable pusher axle controls mounted inside cab | | |
| 52" pusher axle spacing | × | , \Box |
| Iron reardayle carrier housing ₂₄ Adopted on: February 7, 2024 Official Resolution#: 2024000146 | | . 🗖 |

ROBERT H. HOOVER AND SONS, INC.

COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS

SPL250HD XL Dana Spicer main driveline w/half round yokes

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|---------------------------------|
| |

| REAR AXLE AND SUSPENSION (Cont'd) | <u>COMPI</u> <u>YES</u> | LIANCE NO |
|--|----------------------------|--------------|
| SPL170 XL Dana Spicer interaxle driveline w/half round yokes | \boxtimes | |
| Driver control differential lockout rear/rear with indicator light for traction device | | |
| Synthetic 75W-90W all axles | \boxtimes | |
| Meritor 16.5x7" P cam double anchor cast shoes | ·⊠ | |
| Non-asbestos rear brake lining | | |
| Webb cast iron rear brake drums | | |
| Rear brake dust shields | \boxtimes | . 🗆 |
| Haldex automatic rear slack adjusters with stainless steel clevis pins | | |
| Rear oil seals | \boxtimes | |
| Bendix eversure longstroke 2-drive axle spring | \boxtimes | □ |
| Forward of axle mounted parking chambers | \boxtimes | |
| Standard spindle nuts for all axles | | , 🗆 |
| Tuf-trac 52000# inverted leaf rear suspension | × | |
| Standard ride height | | |
| 55" axle spacing | \boxtimes | |
| Fore/aft and transverse control rods | \boxtimes | |
| Rear shock absorbers – two axles | | |
| BRAKE SYSTEM EQUIPMENT | × | |
| Wabco 6S/6M ABS with traction control with ATC shut off switch | | L |
| Reinforced nylon, fabric braid & wirebraid chassis air lines Introduced on: February 7, 2024 | | |
| Adopted on: February 7, 2024 BurndakResalusovatlyzus 40010018 possible | | - |

| Res-Pg:k.11-42 Page 36 of 76 |
|---------------------------------|
|---------------------------------|

Relay valve with 5.5 psi crack pressure

| ≺ | u. | |
|---|----|--|
| | | |

| · | COMPL YES | |
|---|--------------|----------------|
| BRAKE SYSTEM EQUIPMENT (Cont'd) | <u> </u> | <u>NO</u> □ |
| Air connections to end of frame with glad hands | K) | <u>L</u> |
| Bw ad-9si brake line air dryer w/heater | Ä | |
| Air dryer frame mounted RH under cab | \boxtimes | □ , |
| Aluminum air brake reservoirs | . 🗵 | |
| Cab blow out kit with air hose and nozzle | | |
| Pull cables on all air reservoirs | | |
| FRAME AND WHEELBASE | | v |
| 242" wheelbase with 150"c/t usable | | |
| .59 x 3.5 x 12.4 steel frame with .236" inner c-channel reinforcement | | |
| 120 KSI 40.42 SM, 4,849,851 RBM | | |
| 58 in. Overhang | . 🗵 | |
| 24" integral front frame extension | | |
| Square end of frame | × | |
| Heavy duty ductile iron engine crossmember | | |
| Heavy duty steel rear closing crossmember | × | . 🗆 |
| Heavy duty steel construction back of transmission crossmember | | , |
| Standard construction midship #1 crossmember | | |
| Standard construction rear suspension forward crossmember | \boxtimes | . 🗆 |
| Standard construction rear mounted suspension crossmember Introduced on: February 7, 2024 Adopted on: February 7, 2024 Official Resolution#: 2024000146 | × | □ |

| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | COMPLIA | N/TE |
|--|-------------|----------|
| | YES | NO NO |
| CHASSIS EQUIPMENT/TRAILER CONNECTIONS 7-way trailer plug end of frame | \boxtimes | |
| 3/8" severe duty steel bumper or custom bumper for hitch mounting | \boxtimes | |
| Phosphate-coated class 10.9 fine thread hex chassis fasteners, rear suspension hangar mounting to have Huck spin fasteners | | |
| Exterior harnesses wrapped in abrasion tape, secondary covering and connector protection | | |
| Air piping and electrical independently clipped to frame | \ | - 🗆 |
| FUEL TANKS AND EQUIPMENT Single 70 gallon aluminum, minimum | \boxtimes | |
| LH fuel tank mounted forward | 🛛 | |
| 25" diameter fuel tank(s) | \boxtimes | |
| Aluminum fuel tank bracket(s) | | |
| Plain aluminum fuel tank with polished stainless bands | \ | |
| Fuel/water separator with water in fuel sensor and 12 volt preheater | | |
| Equiflo inboard fuel system | .⊠ | |
| High temperature reinforced nylon fuel hose | \boxtimes | P±. 🔲 |
| No fuel cooler | · | |
| In tank fuel level sender | \boxtimes | |
| FRONT TIRES, HUBS AND WHEELS Michelin XZY-3 425/65R22.5 20 PLY | | |
| Conmet iron front hubs Introduced on: February 7, 2024 | | |
| Adopted on: February 7, 2024 Accurring 29807 42924000146 5 hand hd 22.5x12.25 10-hub pilot steel disc front wheels | | |

| THOW AND STREADER, AS STECHTED ON EVOAD (CONT. D) | COMPLI | |
|--|--------------|------------|
| REAR DRIVE & PUSHER TIRES, HUBS, & WHEELS | <u>YES</u> | <u>NO</u> |
| Michlein xds2 11r 24.5 16 ply rear drive axle tires | \boxtimes | · 🗆 |
| Webb iron rear hubs | \boxtimes | |
| Accuride 28827 2 hand 24.5x8 .25 10-hub pilot steel | \boxtimes | |
| Steel disc rear wheels | | |
| Michelin XZY-3 425/65R22.5 20 ply pusher tires (2) | \boxtimes | |
| 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 | \boxtimes | |
| Wheel-Check High Visibility Green Loose Wheel Nut Indicator on all wheels | <i>i</i> , , | , <u> </u> |
| 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 | \boxtimes | _ |
| Triple door seal system | | |
| Non-removable bug screen | | |
| Front cab mounts outboard of frame for stability or when taking off and applying torque from engine. | X | |
| Bolt on molded fender extensions | | |
| LH/RH exterior grabhandles with rubber insert and RH interior grab handle MTB to reinforced 'A' post | × | |
| Stainless steel radiator mounted grille introduced on: February 7, 2024 | \boxtimes | |
| Adopted on: February 7, 2024 Stainfess steel radiator sileil/hood bezel with tilt hood handle | . 🖂 | |

Res-Pg: k-11-45

Molded resin hood with isolated hood suspension mounting system

| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | COMPLE | A BATANTO |
|---|----------------|-----------|
| | COMPLLA YES | NO NO |
| CAB EXTERIOR (Cont'd) Hood opening strut assist with safety lock | \boxtimes | |
| Two (2) Hadley sd-978 26" rect air horns | | |
| Single electric horn | \boxtimes | |
| Horn shields | Ø | |
| All locks keyed the same; must have six (6) keys | | |
| Dual stage LED headlights with heated lens system | \ | |
| Aerodynamic LED marker lights in stainless steel visor | | |
| Individual LED stop/tail/turn/backup lights flush mounted end of frame | ⊠ , | |
| 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 | ⊠ . | |
| Door mounted mirrors with control switches on door panels | \boxtimes | |
| 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 | × | . 🗓 |
| 2/gallon windshield washer toservoir with fluid level indicator Official Resolution#: 2024000146 | \boxtimes | · 🗖 |

| | COMPLI YES | <u>IANCE</u> <u>NO</u> |
|--|-----------------|---------------------------|
| CAB INTERIOR Gray vinyl premium interior | \boxtimes | Ü |
| Black mats with added floor heat and noise insulation | | |
| 12 volt power supply in dash | \boxtimes | |
| Dash mounted ash tray & lighter | · 🗵 | |
| Forward roof mounted console | <i>,</i> | |
| Map pockets, left and right doors | × | |
| Cab Coat hook(s) | | |
| Wraparound wing dash with digital gauges in driver command center | | |
| One (1) 5 lb. Fire extinguisher mounted | ⊠ | |
| Heater, defroster and air conditioner | \boxtimes | |
| Main HVAC with constant temp control and cosmetic cover main fresh air inlet with fresh air filter | | . 🗆 |
| Standard heater plumbing with ball shut off valves at supply lines | \boxtimes_{i} | |
| Air conditioner compressor | \boxtimes | |
| Radiator MTD A/C condenser | | |
| R-134A refrigerant | | |
| Premium cab insulation | | · 🗖 " |
| Centralized logic controllers in main dash electrical panels, houses VPDM onboard ECU and TEM programmable modules | ⊠ | |
| Multiplexed electrical system | \boxtimes | |
| Color-coded and laser-etched wiring Introduced on: February 7, 2024 | \boxtimes | · |
| Adopted on: February 7, 2024 Poermaunasburitanaa 2029 totag | | |

X

囟

 \boxtimes

П

| Cab door latches with electric door locks | a · | \boxtimes | |
|--|-----|-------------|---|
| Cab door lateries with electric door locks | | | _ |

ITEM #2 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) COMPLIANCE CAB INTERIOR (Cont'd) \boxtimes Triangular reflectors without flares 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 X adjustable shock absorber inboard and outboard driver and passenger arm rests \square \Box Gray Moroura cloth driver and passenger seat cover \boxtimes 3-point driver & passenger seat belts including seatbelt retractor \boxtimes Adjustable tilt and telescoping steering column 450mm (18") black steering wheel with multifunction integrated controls \boxtimes \Box \boxtimes Driver/passenger interior sun visors INSTRUMENT PANELS AND CONTROLS Wrap around dash that allows gauges and driver command center with up \square to six (6) digital gauges \boxtimes Panel with teak color surround w/round gauges \boxtimes Teak color center access instrument panel \square Low air pressure light and buzzer X Primary & secondary air pressure gauges \boxtimes Intake mounted air restriction gauge \boxtimes Cruise control-electronic, controls on steering wheel

Introduced on: Adopted on:

February 7, 2024 February 7, 2024

Electronic mph speedometer and 2500 rpm tachometer

Official Resolution#: 2024000146

Start position, four (4) position off/run/start

Key operated ignition switch & integral

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS | Respect | |
|--|-----------------|----------|
| Headlights on with wipers with daytime running lights | | |
| Electric fuel gauge | | |
| Electrical engine coolant temp gauge ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMI PLOY AND SPECIALIZED DUMI | ⊠ PTRUCK WI | <u>□</u> |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | COMPLIAN YES | CE NO |
| INSTRUMENT PANELS AND CONTROLS (Cont'd) Transmission oil temperature gauge | · 🖾 | |
| Engine and trip hour meters integral within driver display | | |
| Engine oil pressure gauge | X | □ × |
| AM/FM WB world tuner cd stereo radio with Bluetooth, iPod interface | | |
| USB and auxiliary inputs, J1939 | | |
| Two (2) radio speakers (cab only) | \boxtimes | |
| 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 | \times | |
| Hand control valve | \boxtimes | |
| Voltmeter | | |
| Rotary headlamp switch, marker lights/headlights switch with pull out for optional road lamps | \boxtimes | |
| Wiring and switch for customer furnished snow plow lamps with dual connections | | |
| at bumper | \boxtimes | |
| Switch indicator light and 10' of wire on chassis LH back of cab for customer furnished utility lights | × | · 🗖 |
| Two (2) valve parking brake system Introduced on: February 7, 2024 Semicial Resolution # 12021 and 14 cm of the system with integral head lamp dimmer headlamp flash, | <u>N</u> | |

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|---------|------|--------------|--------|
| TTCCOLL | *** | TTT AND TTTT | TOOTIL |

| <u>ITEM #2 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH</u> | | | |
|--|--------------|-------------|--|
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | COMPL YES | IANCE NO | |
| 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 | \boxtimes | | |
| occur county reads populations octor beauty as round in opinion | | | |
| Chassis frame: Polyurethane | | | |
| Wheels/Rims: | | 1. | |
| Rear/pusher wheel color: vendor powder black | \boxtimes | | |
| Front wheel color: Vendor powder black | \boxtimes | | |
| 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 | | | |
| MANUALS The end unit shall be delivered with the following items: One (1) fire extinguisher, interior mounted | \boxtimes | · | |
| 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 | \boxtimes | . 🗆 | |
| Three (3) complete sets of mechanic's parts "shop", service and troubleshooting USB's find 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 | for | | |
| Three (3) sets of Manufacturer's Line Setting Sheets for chassis, mounted equipment, and optional equipment | \boxtimes | | |
| 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 official Besolutions. February 7, 2024 Official Resolutions. 2024000146 | ; | | |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS WARRANTY | Res-F Pa | Pg:k.11- ge 44 of 76 | |
|---|------------------------|--------------------------------|--|
| Basic vehicle - 1 year, 50,000 miles | \boxtimes | | |
| Battery - 1 year, 50,000 miles | \boxtimes | 🗖 | |
| | ⊠ MP TRUCK V | □ VITH | |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | COMPLIANCE | | |
| WARRANTY (Cont'd) | YES | <u>NO</u> | |
| Cab corrosion/perforation – 5 years, unlimited | ⊠ ' | | |
| Cab structure – 1 year, 100,000 miles | \boxtimes | | |
| Corrosion – 6 months, unlimited | × | | |
| Crossmembers – 3 years, 300,000 miles | \boxtimes | _ ·· | |
| Diesel Emission 2010 – 5 years, 100,000 miles | ⊠ | , 🗆 | |
| Greenhouse Gas 14/17 (medium heavy duty to heavy heavy duty trucks/tractors) – 5 years, 100,000 miles | | | |
| Greenhouse Gas 14/17 tire (file direct) – 2 years, 24,000 miles | \ | | |
| Frame rails – 3 years, 300,000 | \ | | |
| Front/steer axle: Detroit - 1 year, unlimited | | | |
| Front/steer axle: non-Detroit - 1 year, 100,000 miles | \boxtimes_i^{γ} | | |
| Paint – 1 year, 50,000 miles | <u>⊠</u> | | |
| Paint, chassis – 6 months, unlimited | \boxtimes | . 🗆 | |
| Rear axle: Detroit – 1 year, unlimited | <u>.</u> | | |
| Rear axle: non-Detroit – 1 year, 100,000 miles | <u>,</u> 🖾 | | |
| Towing – 5 years, unlimited miles | \boxtimes | □. | |
| Cummins 5 year 100 000 mile engine and ATS warranty | ⊠ | | |

Introduced on: February 7, 2024 Adopted on: February 7, 2024 Official Resolution#: 2024000146

ITEM #2 – MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)

COMPLIANCE WARRANTY (Cont'd) Cummins protection plan is: 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. X Allison 7 year unlimited miles transmission warranty SPECIFICATIONS FOR BRANDON HEAVY DUTY HEATED CROSSMEMBERLESS STAINLESS STEEL DUMP BODY X Model #SSHD176066 304 acid wash, or equal General Floor 1/4" 450 Brinell. X Front 3/16" Stainless Steel 304 X Sides 3/16" Stainless Steel 304 X \boxtimes Tailgate 3/16" stainless steel 304 Long sills 3/16" 250 Brinell steel X П 冈 Outside bödy width – 96" Hoist attachment – front mount \boxtimes Front design - 12 February 7, 2024 ed 90° corners 冈 Official Resolution#: 2024000146

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS Front height including longsills – 72" | Res-Pg Page | : k.11-5 46 of 76 |
|--|-----------------|-----------------------------|
| Longsills shape – formed 10" | _ ⊠ | |
| | | |
| ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUM PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | | |
| | COMPLIAI YES | NO |
| SPECIFICATIONS FOR BRANDON HEAVY DUTY HEATED CROSSMEMBE STEEL DUMP BODY | RLESS STAII | NLESS . |
| General (Cont'd) 34" longsills outside width | ⊠ | |
| 27" longsills inside width | | 🗆 |
| Sandblasts and primer – glass bead blasting | \boxtimes | |
| Underbody to be painted chassis black | | |
| One (1) d-ring top of tailgate | | |
| Cabshield Cabshield type – traditional | si 🔀 | |
| Cabshield length – 24" | | ·П |
| Cabshield width - 90" cabshield height - to be determined to match chassis height | Ø | |
| 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 | | |
| Top rail section – formed | \boxtimes | |
| 6" board pocket and intermediate bracket | \boxtimes | ☐ ei |
| Introduced on: DAUDied Val King ratio Harty 7: 2024 Official Resolution#: 2024000146 | | |

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|--|-------------|----------------------------|
| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS | Res | -Pg:k.11-! Page 47 of 7 |
| 3/8" stainless steel upper tarp rail | ⊠ | |
| | | |
| 8" apron shall pin on at rear of body | | |
| | | |
| | | ż |
| | | 160 |
| ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUM | IP TRUCK | WITH |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | COMPI | LIANCE |
| | YES | NO |
| SPECIFICATIONS FOR BRANDON HEAVY DUTY HEATED CROSSMEMBE STEEL DUMP BODY (Cont'd) | RLESS ST | TAINLESS |
| Rear " | | |
| Double acting tailgate (lays flat or dumps through) | \boxtimes | |
| Lock positioning – end point latch system | \boxtimes | |
| Bolster shape – standard flat rear bolster | · | |
| Dorster shape — standard mackear borster | | Ы |
| Tailgate angle- straight | \boxtimes | |
| Locking system – air cylinder size 2.5"; push/pull air controls | ⊠ . | |
| Tailgate panel – Two (2) panels | \boxtimes | |
| Hoist | y y | |
| Mailhot cs 160-6.5-4 da, or equal | \boxtimes | 🗆 |
| 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 | Ä | |
| 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 | Ø | |
| All body lights shall be LED and Heated | | |
| One (1) set of Meyer Saber heated and LED plow lights mounted on hood of chassis | 1 | |
| Wiffederships steelehwernts 2014 ocation to be determined by county at time of build Adopted on: February 7, 2024 Official Resolution#: 2024000146 | \ | |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS Two (2) forward facing Whelen strobe lights mounted on snow plow lights bracket | Res-Pg: | 48 of 76 |
|--|-------------|-----------|
| to be powered by its own switch, part # RSA03ZCR | \boxtimes | |
| 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 | :: ⊠ | П |
| Or body | | |
| 2" x 6" oak wood side boards | × | |
| ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMI | TRUCK WI | <u>TH</u> |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | COMPLIAN | ICE . |
| * ⊀ | YES | NO |
| SPECIFICATIONS FOR BRANDON HEAVY DUTY HEATED CROSSMEMBEI STEEL DUMP BODY (Cont'd) | RLESS STAIN | ILESS |
| Installation Parts | | |
| 40 ton cradle | \boxtimes | |
| 40 ton hoist bracket | | |
| 40-50 ton upper cylinder blocks (2) | | |
| Miscellaneous One (1) oval stop/tail/turn light in each rear corner post | ⊠ | |
| Wiring for standard dump body lights enclosed in a sealed waterproof Wiring harness (split loom NOT ACCEPTABLE) | ⊠ | |
| One (1) set stainless steel stone guards – mounted on frame | \boxtimes | |
| 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 | | |
| 3M reflective tape on both sides of body and on 9-panel tailgate | \boxtimes | |
| 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 Adopted on: February 7, 2024 Official Resolution#: 2024000146 Left roller tube - 2.140 OD X 2" ID 6105-T6 aluminum extrusion with | ⊠ | Π, |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS | Res | S-Pg:k.11-55 |
|--|-----------------|-----------------|
| bushing and stainless streel 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 | \boxtimes | |
| | | _ |
| Center section – 1.960" OD X 1.820" ID 6105-T6 aluminum extrusion | \boxtimes | |
| | | .6 |
| <u>ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUN</u> | <u>1P TRUCE</u> | WITH |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | CONON | T IT A INTECIDE |
| | YES | LIANCE NO |
| SPECIFICATIONS FOR PIONEER MODEL EDD 1500A-A TARP, OR EQUAL | | - |
| Bearing plates – ¼" H.R.S | | |
| Bearings – flange mounted sealed ball bearings | | · 🗆 |
| Roll mounting angles - 1 ½" x 2 x ¼" steel angle | \boxtimes | , 🗖 |
| Direct drive gearmotor: mounted directly to left side roller. Worm and wheel Configuration. Permanently lubricated, sealed gearbox. 90 to 1 ratio. Output shaft Is supported by ball bearings on both ends. Output shaft is directly coupled to Left side roller. Electric motor is .85 horsepower. Aluminum gearbox housing. Plastic protective cover. ¾" od output shaft. Motor is thermally protected | | |
| By automatic resetting circuit breaker. | \boxtimes | |
| Pivot Arm: Framework | a | 11 |
| 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 | \boxtimes | й <u>П</u> |
| Arm mounting brackets: steel weldment | \boxtimes | |
| Base plate: ¼" H.R.S | | □ . |
| Mounting hub: 4" OD steel tube | ~ \ | □ . |
| Spring: reverse wound torsion spring – ½" diameter wire | ⊠ | |
| Wire PER ASTM A229 Class I | | |
| SPECIFICATIONS FOR CENTRAL HYDRAULIC MANUAL SYSTEM – STA | INLESS EI | NCLOSURE |
| Introduced on: February 7, 2024 Fabrical on: February 7, 2024 Official Resolution#: 2024000146 | × | |

| 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 | | C _C |
| <u>ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED D</u> | UMP TRUCK | WITH |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | | |
| | | <u> IANCE</u> |
| SPECIFICATIONS FOR CENTRAL HYDRAULIC MANUAL SYSTEM – ST (Cont'd) | <u>YES</u> TAINLESS EN | <u>NO</u> ICĻOSURI |
| Wiring and Electrical (Cont'd) | | |
| Amperage self-centering rotary switch (momentary on - of - momentary on), | | |
| Thermal reset circuit breaker (auto reset) | \boxtimes | · □ |
| РТО | | |
| 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. Must be Chelsea. | | , <u> </u> |
| Hydraulic Pump With Pto | | , 11 |
| Shall be on an open circuit axial piston design with adjustable compensator. | \boxtimes | |
| Pump operating pressure must adjust to the actual load pressure plus a pressure | | |
| Differential required for the controlled action. | \boxtimes | |
| When the system is not demanding power, the load sense control will operate | | |
| In an energy-saving stand-by mode. | oxtimes | |
| Minimum pump displacement is 80cc/ 4.9 cubic inches, delivering 42 GPM | , | |
| at 2,000 rpm. | \boxtimes | |
| Pump minimum displacement shall be 90 cubic centimeters continuously rate at | | |
| 350 bar (5,000 psi). Standby pressure shall be 350 psi. | ⊠. | |
| Manusting is an SAE C 4 halt flange | \boxtimes | П |
| Mounting is an SAE C 4-bolt flange | | ш. |
| Shaft is 1.25" diameter, 14 tooth splined | × | \square |
| 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"

Introduced on: February 7, 2024. 8 mounting bolts
Adopted this tuse (February 7, 2022. 8 mounting bolts
The general poeries and pressure port shall meet the following requirements:

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS | Res _p | Pg:k.11-5 |
|---|---------------------------|------------------|
| 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. | ii | <u> </u> |
| Pump must offer mounting flanges N SAE and ISO configurations, and ports are Offered in SAE and ISO tube and flange versions. ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUM | ⊠ IP TRUCK | □ <u>WITH</u> |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) SPECIFICATIONS FOR CENTRAL HYDRAULIC MANUAL SYSTEM – STAL (Cont'd) | COMPLI YES NLESS EN | <u>NO</u> |
| (Cont'd) Mount (Cont'd) Side or end-ported models must be available to facilitate plumbing and help fit 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. | 🛛 | , |
| 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 | | <u> </u> |
| Valve sections shall be of cast iron, horizontally stackable, and Serviceable without disassembly | ⊠i | <i>3</i> |
| Directional control valves shall be pre-compensated, proportional, And load independent | Ø | |
| 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. Introduced on: Adopted on: February 7, 2024 | | □ |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS | Res | - Pg:k.11-5 Page 52 of 76 |
|---|----------------|-------------------------------------|
| Required, each section must be able to limit the operating speed for the implement. | \boxtimes | |
| Each section must be manually activated with manual push/pull cables | × | |
| There shall be a main pressure relieve set at 2,400 psi to protect against System over-pressurization | \boxtimes | ь 🗆 . |
| Hoist section must be a PVG 100, 40 GPM 4-way section for double ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUM | IP TRUCK | <u>WITH</u> |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) SPECIFICATIONS FOR CENTRAL HYDRAULIC MANUAL SYSTEM – STAI (Cont'd) | YES | LIANCE <u>NO</u> ICLOSURE |
| Control Valve Grenson Valve With Priority Flow Inlet (Cont'd) 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 | • | |
| Side of valve. Note: Please Refer To the 'Modular Granular and Liquid Valve' Section Of Option 1B. Freedom 2.2 Spreader Control In Lieu Of Manual Specifications. | | تًا. |
| All hydraulic hoses must be bulkhead mounted with metal tube style connectors. all tubes shall be labeled with the hydraulic operation | \boxtimes | |
| Manufacturer must be authorized to perform warranty repairs and periodic Maintenance on hydraulic valve sections | <u> </u> | |
| Spreader Control Spreader control shall be a dual knob valve with on/off handle. | <u>.</u> ⊠¹ | |
| 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 | , <u> </u> | □ " · |
| Valve shall feature spinner priority to reduce material pile up from the auger at low flow conditions | | . 🗖 |
| Cable Controls Control valve shall be shifted via sealed cable assemblies | × | |
| Cable assembly shall feature a polyethylene conduit with armor over braid and Tespendiner February 7, 2024 Official Resolution#: 2024000146 | ⊠ | |

| ROBERT H. HOOVER AND SONS, INC. | Res | -Pa:k | (11-59 3 of 76 |
|--|----------------|--------|---------------------------|
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| 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 | \boxtimes | e | |
| ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP | _ | c wit | Ĥ |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | | | |
| | COMP | LIAN | <u>CE</u> |
| | <u>YES</u> | | <u>NO</u> |
| SPECIFICATIONS FOR CENTRAL HYDRAULIC MANUAL SYSTEM - STAIN (Cont'd) | LESS EI | NCLO | SURE |
| 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, Aug | er And S | pinne | r |
| Warranty coverage runs for a period of one year from the date of | , | | |
| Initial installation (or 13 months from day of shipment from certified | d _i | | |
| Cirus control systems), or whichever occurs first. | | | |
| Warranty For Bumper-To-Frame Plow Hitch (Sph-A0000152) | | | |
| One (1) year from date of delivery | \boxtimes | Ĭ. | |
| 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 | | | |
| 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 usa by an iso 9001:2008 certified company. | | ď | |
| Specifications on the unit must accompany the bid. | \boxtimes | | |
| Introduced on: February 7, 2024 Adopted on: February 7, 2024 Bond and Carlotte Carlot Carlotte Carlo | | | |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS | Res-Po | g: k,11-6 e 54 of 76 |
|--|----------------|--------------------------------|
| 14 yard capacity | . X | |
| Inside length of hopper shall be 15' at top and 12' at bottom | · 🛛 | |
| Inside top width shall be 84" | \boxtimes | ī 🔲 |
| Side slope to be 45° minimum ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMI PLOY AND SPORTABED AS SPECIFIED OF FOLIAL (CONTIN) | ⊠ P TRUCK W | □ IT <u>H</u> |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) SPECIFICATIONS FOR V-BOX SPREADER (Cont'd) | COMPLIA YES | NCE NO |
| Body Requirements (Cont'd) Front panel slopes shall be a minimum of 18° | \boxtimes | |
| Hopper seams shall be continuous welded on inside | <i>,</i> ° | |
| Sides, ends and side supports shall be 10 gauge 304 stainless steel | | |
| Top edge of hopper is formed "J" channel 2" x 1 ½" | \boxtimes | |
| Auger trough shall be 10 gauge 304 stainless steel | | |
| Longsills shall be 10 gauge 304 stainless steel | | $\Box_{\underline{\cdot}}$ |
| 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 cir direct drive hydraulic motor | | |
| 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 | | |
| Introduced on: February 7, 2024 Canepted spreader light neganted to spreader box Official Resolution#: 2024000146 | × | |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS Four (4) 6" oval amber strobe lights with amber lenses mounted in stainless | Res-Pg:k,11- Page 55 of | |
|--|-----------------------------------|---------------------|
| Steel tissue box | \boxtimes | , 🗆 |
| Spinner Chute Assembly | • | |
| 10 gauge 304 stainless steel | \boxtimes | |
| Four (4) position telescopic adjustment | | |
| <u>ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUN</u> | MP TRUCK | WITH |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | COMPT YES | LIANCE <u>NO</u> |
| SPECIFICATIONS FOR V-BOX SPREADER (Cont'd) | | |
| Spinner Chute Assembly (Cont'd) 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 | \boxtimes | |
| Spinner hydraulic motor shall mount directly on bottom of spinner disc | | . 🗆 |
| Paint All metal surfaces shall be high pressure cleaned with a phosphate solution to Remove slag, splatter, oxide, and oil residue. | \boxtimes | |
| Non-stainless steel parts shall be painted or powder coated black | \boxtimes | |
| 304 stainless steel components unpainted | \boxtimes | |
| 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 8" structural channel with two (2) ½" x 1 ½" mounting hole shall be welded to main channel to bolt on spreader | ⊠ | |
| Two (2) 1 1/2" x 7" round stock tailgate latches to be welded to main channel | \boxtimes | |
| Tie Down Kit | | o |
| Shall consist of four (4) chain style tie down assemblies | ☒ | |
| Chainscanall; be graderully 3/862x 29 links Adopted on: February 7, 2024 Official Resolution#: 2024000146 | | |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS Top plate shall be '4" x 4 triple broke a1011 powder coated steel | Res-Pg:k 11- Page 56 of 7 | |
|---|------------------------------|------------|
| With banjo eye to accept 3/8" chain | | |
| Tie down bracket shall be ½" x 4" x triple broke a1011 powder coated steel With 3/8" double link clevis to attach chain | 図, - | |
| 3/4" zinc plated turnbuckle to have grease fitting | | |
| 1/4" turnbuckle shall have 1/2" – 13 nut welded to center to secure turnbuckle ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMI PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | ⊠ PTRÜCK WI | <u>□</u> |
| 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 | COMPLIAN YES | ICE NO |
| SPECIFICATIONS FOR STEEL MOLDBOARD TUBE TABLE REVERSING FUNDADBOARD SPECIFICATIONS 42" H \times 11' L | J LL PLÓW ⊠ | |
| 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 | \boxtimes | |
| Top of moldboard shall be reinforced by 2 ½" x 2 ½" x 3/8" angle iron. Bottom of Moldboard is reinforced by 4 x 4 x ¾" angle iron and is drilled to accommodate Aashto standards. | | - |
| Ribs are reinforced with $2 \times 2 \times 3/8$ 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 ½" 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 | | |
| Each rib shall have a ½" 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 | \boxtimes | ' □ |
| Attiba bettom of cachucily there shall be three (3) 1 5/16" holes spaced at 1 7/8" Catonted 80 center to February 707024mi-circle height adjustments | \boxtimes | |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS | Res-Pg:k | 7 of 7 |
|--|-----------------------------|-----------|
| 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 | X | |
| Weldments on the moldboard shall be continuous | X , | |
| Outer ribs of moldboard will be drilled for marker installation | ⊠ | |
| Two (2) curb guards mounted each side of moldboard | \boxtimes | |
| ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP T PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | TRUCK WIT | 'H |
| | COMPLIANO YES LL PLOW | CE NO |
| Trip Mechanism Construction Plow shall be full trip design consisting of two (2) coil springs | × , | |
| Springs are ¾" wire with a coil od of 5 9/16" consisting of 16 full coils | <u></u> | |
| Bottom angle is reinforced by eleven (11) ½" thick gussets spaced evenly to avoid Interference with cutting edge attachment hardware | X İ | · □ |
| Cutting edge shall be 6" x 5/8" x 11' long and shall be drilled to AASHTO standards | \boxtimes | |
| 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 ½" plate | \boxtimes | |
| Supported above and below the semi-circle with 2 x4 x 3/16" tubing | ⊠ . | |
| 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 the semi-circle and moldboard 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 | I ⊠ | |
| 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 Three shall be drilled on 2" centers to allow for installation on a variety of Adopted on: February 7, 2024 Official Resolution#: 2024000146 | <u>.</u> ⊠ | |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS Two holes shall be located at the top and bottom push frame plates drilled to accept | Res-Pg: | k 11-64 58 of 76 |
|--|--|----------------------------|
| 1 ½" 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 ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | TRUCK WIT | <u>CH</u> |
| THOWALL DIRECTION ON EQUILIBRIUM | COMPLIAN | |
| SPECIFICATIONS FOR STEEL MOLDBOARD TUBE TABLE REVERSING FU MOLDBOARD SPECIFICATIONS (Cont'd) | <u>YES</u> LL PLOW | <u>NO</u> |
| Semi-Circle Construction (Cont'd) | | |
| Past 35° left or right | | |
| Crank style jackleg (part #0091215) to be mounted on backside of semi-circle | | |
| Hydraulic cylinder mounting points are ½" plates welded to the top and bottom 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 | 16 1 | |
| 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 ½" long and 2 ½" wide. They are welded to the backside of the 5" tubular push beam to increase the | ⊠ | |
| Weld surface area at 55° from the bottom of the semi-circle to match the chain | ************************************** | |
| 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 | , i | |
| Side of the rivet head. | \boxtimes | |
| Four (4) sets of the moldboard mounting ears (two outer 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 moldboard mounting cars (the center sets) shall have an outside spacing of 2 3/4" | · . | J6 |
| Official Resolution#12024000146 and ribs | × | |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS | Res-Pg | k, 11-65 |
|--|-----------------|-----------|
| Moldboard attachment ears to be gusseted with 4" triangular steel gussets | | اً ا |
| Push frame shall connect to upper portion of the moldboard using two support Arms. The center of the support arm shall be made from $2 \times 2 \times \frac{1}{4}$ " 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. | | |
| | 현 | |
| ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | TRUCK WI | <u>rh</u> |
| FLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT D) | COMPLIAN YES | ICE NO |
| SPECIFICATIONS FOR STEEL MOLDBOARD TUBE TABLE REVERSING FU MOLDBOARD SPECIFICATIONS (Cont'd) | LL PLOW | |
| Adjustable Cast Mushroom Shoes Plow to be fitted with adjustable cast steel mushroom shoes mounted left and right on rea Of semi-circle | ur ⊠ | |
| A $\frac{1}{2}$ " 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 1/4" 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, 3/4" square holes and is 10.625" in Diameter and 2.34 inches thick. | | |
| Grade 8 hardware shall be used throughout | \boxtimes | |
| Hydraulics Plow angle shall be controlled by two double acting hydraulics cylinders | \boxtimes | □ . |
| 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 1/2" | | e • |
| 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 Introduced on: February 7, 2024 | \boxtimes | |
| Adopted on: February 7, 2024 (എന്നാപ് പ്രൂട്ടം) പ്രൂട്ട പൂട്ടു 2 024/06 91 46 °° formed nlate | \boxtimes | |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS | Res-Pg: | k.11- 50 of 7 |
|--|------------------------------|-------------------------|
| QCP loop diameter shall be 2" | \boxtimes | |
| 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 | | |
| | TRUCK WIT COMPLIAN YES | _ |
| 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 | n, ⊠ | |
| Vertical supports of the hitch are constructed from 4" x 4" x 3/8" square tubing | \boxtimes | |
| Cylinder support bracket on the hitch is constructed a 3" X 2" rectangular tube. The two cylinder mounting tabs are ½" steel placed in the center of support bracket and spaced at 2 1/8" apart. Each tab is drilled to accept A 1" pin. | | |
| 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 ½" 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 ½" x 9 ¾" | | |
| Fully welded to the vertical supports are two c 8" x 18.75" channels with ½" 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 Introduced on: February 7, 2024 Shapifed of the low septiment 7, 2024 Shapifed of the low septiment 7, 2024 | | |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS The tapered portion of the frame. Weldments are drilled with four (4) 5/8" holes for | Res-Pg: | k.11-67 51 of 76 |
|--|-----------------|----------------------------|
| Mounting to the exterior of the truck frame. | \boxtimes | |
| A 12-volt electric over hydraulic pump to operate the front hitch wing post slide located Behind cab | \boxtimes | |
| Front Hitch Pin Lock QCP | | |
| Front plow attachment is made by a pin lock QCP assembly | . 🗵 | |
| Top and bottom of the assembly are made from ½" contoured plate. Both plates are Drilled to accept the 2" lock pin ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | ⊠ TRUCK WIT | □ <u>[]</u> |
| | COMPLIAN YES | <u>CE</u> <u>NO</u> |
| BUMPER TO FRAME PLOW HITCH SPECIFICATIONS (Cont'd) | 2.200 | <u> </u> |
| Front Hitch Pin Lock QCP (Cont'd) 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 | ⊠ | |
| 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. | × | |
| In the front of the QCP assembly are two (2) ½" 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. | | |
| 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 | \boxtimes | |
| Heavy Duty Arm Lift Assembly Heavy duty lift arm is extendable style with seven (7) different extendable positions | ⊠ . | |
| Frame of the lift arm is constructed from ½" 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 | | |
| 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. | × 🗵 | |
| Top plate on the lift are 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 | | □ |
| Welded to the front of the inner tube is a formed ½" plate with notches to accept shipped op: 1 link February 7,2024 required this plate can be changed to match Difference Resolving 3,202489.0146 | ⊠ | |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS | • | Res-Pg: | k.11 2 of 7 |
|--|----------------|---------|-----------------------|
| Hydraulic Lift Cylinder Hitch is provided with a single acting 4" x 10" hydraulic cylinder. A double acting Cylinder can be provided for applications where plow "float" hydraulic controllers Are used. | Į | | : |
| Warranty For Steel Moldboard Tube Table, Power Infinite Reversing Full Plow (Spx-0000050) | *** | | |
| One year from date of delivery | | | · L |
| ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) OPTIONS | | MPLIAN | |
| 2A. <u>52" Tall Moldboard in Lieu of the 42" Standard</u> | Ø | | |
| 2B. Heavy Duty Heated Crossmemberless Stainless Steel Dump Body Under Option Body shall be heated through diverter box with thermos-switch for activation with Stainless steel piping 2C. Freedom 2.2 Spreader Control In Lieu Of Manual Specifications | <u>ıs</u> ⊠ | | |
| General Controller shall have 3 PWM output channels for liquid and granular spreader controller | \boxtimes | ÷ | |
| The controller shall be a microprocessor type capable of PWM control of three Hydraulic valves. | \boxtimes | | |
| 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. | n ⊠ | | |
| 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. | \boxtimes | | Ċ |
| The system will offer a manual mode lock out option. | \boxtimes | | |
| Thitroduced du: contectuary 7,2024 erate in open or closed loop configuration. Official Resolution#: 2024000146 | × | | |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS Controller shall offer remote pause, unload mode, liquid float input, test speed, | Res-Pg:k,11-69 Page 63 of 76 | | |
|--|--|-----------|--|
| | × | | |
| Sensor short detection with message and alarm. | X . | <u> </u> | |
| System must have 2 auxiliary output channels available. | ji: | | |
| AVL data transfer is available with an additional modem. | × | | |
| System shall offer spinner configurable mph shut off, storm totals on screen or With USB. | × | | |
| <u>ITEM # 2 – MÖDEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)</u> | TRUCK WI | TH | |
| 9 | COMPLIAN | | |
| OPTIONS (CONT'D) | <u>YES</u> | <u>NO</u> | |
| 2C. Freedom 2.2 Spreader Control In Lieu Of Manual Specifications (Cont'd) | | | |
| General (Cont'd) 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. | X . | | |
| System will maintain up to 4 different granular material types. | \boxtimes | | |
| There shall be an integrated blast mode with instant off to stop output if necessary. | \boxtimes | | |
| Blast must be programmable for flow rate and material distance. | ⊠ | | |
| Unit shall provide an unload mode at speeds of up to 5 mph. | \boxtimes | | |
| A standby (pass) mode shall be provided to allow for momentary interrupt of the spreader Without changing the feeder/spinner/liquid output. | \boxtimes | " | |
| All programing and calibration shall be accomplished using the touch screen of The controller. | × | | |
| Detachable key board for programming is NOT ACCEPTABLE. | \boxtimes | | |
| Modular Granular and Liquid Valve *If the freedom 2.2 spreader control is chosen, spreader with detent and reverse on unde Control valve on page 42 will need to be removed, and replaced with the following: Introduced on: February 7, 2024 Adopted on: February 7, 2024 The markishum and following is the constructed of 6061 anodized aluminum. | er N | п | |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS | F | Res-Pg: | k 11 4 of 7 |
|--|----------------|---------|-----------------------|
| 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 jack Debris covers. The modular manifold can operate in either open center (fixed displacement) or | eted | | |
| 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 #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | ŤRU | JCK WIT | <u>'H</u> |
| | CON YES | MPLIANO | CE NO |
| OPTIONS (CONT'D) 2C. 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 | · | | 1 |
| With manual override. | Ø | ē | |
| Pre-wet or anti-ice implements are also available as a 10 GPM hydraulic circuits if necessary. | Ø | | |
| 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. | \boxtimes | | |
| The modular manifold can operate in either open center (fixed displacement) or Closed center (variable displacement) hydraulic circuits. | \boxtimes | r | |
| 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. | | Œ | |
| Pre-wet or anti-ice implements are also available as a 10 GPM hydraulic circuits If necessary. | X | 8: | |
| These functions are proportional controlled, pulse width modulated, pressure and flow Compensated, with heavy duty 12vdc coils. | \boxtimes | | |
| Spreader control "outside the cab" harnessing shall meet IP 68 standards. | | | |
| Introduced on: February 7, 2024 Adopted on: February 7, 2024 Official Resolution#: 2024000146 | | | |

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|--|-------------------|-----------|--------------------------|
| Connections must be Nema x6 standards for dust protection. | \boxtimes | | |
| 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. | \boxtimes | | |
| The hydraulic system shall be pressure and flow tested before the installation process. | \boxtimes | | |
| The modular spreader valve manifold will be mounted in a weather resistant enclosure. | | · 6. | |
| ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMI | ? TRUCK | wr | TH |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | COMPI | TAN | IČE. |
| y · | YES | ALL RI | NO |
| OPTIONS (CONT'D) 2C. Freedom 2.2 Spreader Control In Lieu Of Manual Specifications (Cont'd) Enclosure shall be vented to reduce moisture and finished with 304 stainless steel. | ™ ⊠ | , | |
| 2D. <u>Central Hydraulic System (Electric Proportional Plow / Granular Controls Spe</u> In Lieu Of Manual Controls | <u>xification</u> | <u>s)</u> | |
| The in-cab control system shall be an integrated proportional multi-axis (x, y) (3) joystic | k | | • |
| Console with circuit panel and spreader control. | × | ч | |
| 0 – 5000 gauge | \boxtimes | | _ 🗆 |
| 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. | \boxtimes | | |
| Dump body lever must have safety trigger protection. | | | |
| Controller must include integrated protection and diagnostic systems with safety features Incorporated. | s ⊠ | | |
| 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 | \boxtimes | | |
| System cause supply pulsed analtage to each individual valve coil. Adopted on: February 7, 2024 Official Resolution#: 2024000146 | | | |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS | F | Res-Pg: | k.11 - 56 of 7 |
|---|-------------|---------------|--------------------------|
| All connections inside the valve enclosure shall be ip68 rated. | \boxtimes | | |
| All connections will be labeled with appropriate descriptions for each connection To individual solenoids of the hydraulic actuating cylinders. | \boxtimes | | .: |
| 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 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. | \boxtimes | | |
| Installing dealer must be authorized to preform warranty repairs and periodic Maintenance on certified products. | | রী | |
| ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP | TRU | CK WIT | H |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | ~~* | | ~~~ |
| | YES | <u>MPĹIAN</u> | <u>CE</u> NO |
| OPTIONS (CONT'D) | <u> </u> | e | 110 |
| 2D. Central Hydraulic System (Electric Proportional Plow / Granular Controls Spec | eifica | tions) | |
| In Lieu Of Manual Controls (Cont'd) | | | , |
| 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 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 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. | \boxtimes | | <u> </u> |
| Controller must be automotive grade for durability. Any gamming type controllers are Introduced on: February 7, 2024 Controller must be automotive grade for durability. Any gamming type controllers are February 7, 2024 Cofficial Resolution#: 20240000146 | \boxtimes | | |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS The controller must offer ground speed control from vehicle signal. No gps | Res-Po | g: k,11- e 67 of 7 |
|--|------------------------------|------------------------------|
| Antenna can be used for ground speed signal input. | ⊠ ^r | <u></u> |
| 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. | \boxtimes | |
| 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. | \boxtimes | |
| The spreader controller will operate in open or closed loop configuration. | ⊠ | |
| ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUM PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | <u>P TRUCK W</u> | ITH |
| OPTIONS (CONT'D) | <u>COMPLIA</u> <u>YES</u> | NCE NO |
| 2D. Central Hydraulic System (Electric Proportional Plow / Granular Controls Sp In Lieu Of Manual Controls (Cont'd) | ecifications) | |
| Freedom 2.2 Spreader Control (Cont'd) Controller shall offer remote pause, unload mode, liquid float input, test speed, And on-screen error with alarms and message reporting. | \boxtimes | |
| Sensor short detection with message and alarm. | \boxtimes | |
| 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. | \boxtimes | |
| 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. | | |
| | | |

Introduced on: February 7, 2024
Adopted on: February 7, 2024
Official Resolution#: 2024000146

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|--|---------------------|-------------------------|
| 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. | <u></u> | |
| A standby (pass) mode shall be provided to allow for momentary interrupt Of the spreader without changing the feeder/spinner/liquid output. | \boxtimes | |
| 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. ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP | ⊠ TRUCK WIT | □ □ <u>□</u> |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) OPTIONS (CONT'D) | COMPLIAN YES | CE NO |
| 2D. Central Hydraulic System (Electric Proportional Plow / Granular Controls Specific Lieu Of Manual Controls (Cont'd) Modular Granular and Liquid Valve (Cont'd) | <u>cifications)</u> | |
| 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. | \boxtimes | |
| 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. | M | |
| Each directional valve section must have a built-in check valve prevents the oil From flowing via the pressure adjustment spool to tank. Introduced on: February 7, 2024 Adopted on: February 7, 2024 TREFICE SET PROPERTY 1, 2024 TREFICE SET PROPERTY 1, 2024 TREFICE SET PROPERTY 1, 2024 | | <u> </u> |

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|--|----------------|------------------------------|
| Over-pressurization. | \boxtimes | |
| 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. | <u>⊠</u> | |
| 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. | \ | □ , |
| ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUME PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | TRUCK V | <u>VITH</u> |
| TOO WALL CONTROL OF THE CONTROL OF T | COMPLIA | ANCE |
| | YES | NO |
| <u>OPTIONS</u> (CONT'D) | | |
| 2D. Central Hydraulic System (Electric Proportional Plow / Granular Controls Spe In Lieu Of Manual Controls (Cont'd) Modular Granular and Liquid Valve (Cont'd) Spreader manifold must have an adjustable pressure of up to 3500psi with multiple flow, | 1 | 5 |
| Pressure, performance, and function configurations. | | |
| Each function will be equipped with screw adjustable manual overrides protected By jacketed debris covers. | <u> </u> | |
| The spreader 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. | \boxtimes | |
| 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. | ⊠ | |
| Introduced on: February 7, 2024 September on trol "Buttside The 24ab" harnessing shall meet ip 68 standards. Official Resolution#: 2024000146 | × | |

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|---|---------------------------|-----------------------|
| 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°c 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. | Ĭ | |
| 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. | | |
| ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMI | TRUCK V | <u>VITH</u> |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | COMPLE | A NIZOTE " |
| | COMPLL YES | NO |
| OPTIONS (CONT'D) | 1110 | 110 |
| 2D. Central Hydraulic System (Electric Proportional Plow / Granular Controls Spe In Lieu Of Manual Controls (Cont'd) Modular Granular and Liquid Valve (Cont'd) Enclosure shall be vented to reduce moisture and finished with black powder coat | ecifications) | |
| Or stainless steel. | $oxed{\boxtimes}_{\cdot}$ | |
| Specifications for Patrol Wing - Wing Post | | |
| Front wing post shall be removable for summer operation | lacktriangledown | |
| 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. | \boxtimes | |
| QCP hitch with 2" tapered pin; | | . 🗆 |
| Introduced on: February 7, 2024 | | |

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| COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS | Res | Page 11 11 77 |
|--|-------------------|-------------------|
| 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. | \boxtimes | |
| 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. | | . 🗆 |
| Arm Wing Enables the chassis hood to open for maintenance and regular fluid checks. | \boxtimes | |
| 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 ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMI PLOYMAND SPECIALIZED DUMI ON AND SPECIALIZED OF FOURTH (CONTERN) | ⊠ PTRUCI | ☐ CWITH |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | COMP | <u>LIANCE</u> |
| | YES | <u>NO</u> |
| OPTIONS (CONT'D) | | |
| 2D. <u>Central Hydraulic System (Electric Proportional Plow / Granular Controls Spe In Lieu Of Manual Controls</u> (Cont'd) | <u>etticatioi</u> | <u>18)</u> |
| Specifications for Patrol Wing (Cont'd) | | |
| Trip Wing Hinge (Cont'd) | | |
| When hitting an obstruction. | \boxtimes | □ . |
| 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. | \boxtimes | |
| | | |
| Wing shall have an overall length of 132" and shall have a 120" x 8" 2' cutting edge. | . ⊠ | <u></u> |
| 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" | | <u>.</u> 🗆 |
| | | ik |
| The nose height shall be 32" and the discharge height shall be 39.2" The cutting edge backer shall be $4" \times 6" \times 5/8"$ with gussets and shall be punched to | | |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS | Res _ē g | g:k,11- |
|---|---------------------|-----------|
| Sliding post shall be as follows: | <u></u> | o 12 or , |
| 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 | | *11 |
| 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 | i | |
| A stainless steel protective box in the frame rails of the chassis behind the cab | | v |
| | \boxtimes | г |
| • 3" x 12" toe cylinder to allow front edge of plow to raise 12" off the ground | | Ц |
| There shall be several places longitudinally at the back of the wing to allow the push | | |
| Arms to be attached at proper angles. | \boxtimes | |
| a a | | |
| 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. | | |
| ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMI | <u>'TRUCK W</u> | VITH |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | COMPLIA | NCE |
| | YES | NO |
| OPTIONS (CONT'D) | | |
| 2D. <u>Central Hydraulic System (Electric Proportional Plow / Granular Controls Spe In Lieu Of Manual Controls</u> (Cont'd) | <u>cifications)</u> | j. |
| Specifications for Patrol Wing (Cont'd) | | |
| Rear Wing Post Mount | | |
| The rear post wind mount will be removable for summer paving operation using a bolt | | |
| On steel plate | \boxtimes | |
| | | |
| The rear post mount shall be as follows: | * | |
| • ½" plate permanent mounted weldment bolted to the frame with a cross member | 1 | |
| Under the frame to support channel on driver's side. The frame will not be mour | itea | |
| To the lift axle cross member | | ž |
| • Removable forward portion rear ½" plate mounting weldment bolted to the | | |
| Permanent section support to allow to forward mount to be removed during the st | ummer | |
| 4" round torque arm with dampening spring to support rear pf plow board | \boxtimes | |
| 2E. 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) | \boxtimes | |
| 2F. Road Department Paint Color Scheme | | • |
| School bus yellow from the bottom of the windows down, Bahama | | |
| Blue from the bottom of the windows up to and including cab roof and | , | |
| Batkgrondrood from bottom 2024 windsheild to a pont on the hood to make Adopted on: February 7, 2024 Aomeian Stanton: the 120 and 120 | | |
| Agonied on: February 7, 2024 Aomician stanton the tage and department fleet. | \boxtimes | |

| ROBERT H. HOOVER AND SONS, INC. COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS | | Res-Po | 1517 |
|---|-------------|--------|------|
| Shall be base coat clear coat | | • | □ . |
| (Note: not all vehicles will be painted this way) | \boxtimes | V | |
| 2G. 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 | ⊠ | . 9 | |
| Crossmembers to be 3" structural channel | | | |
| Telescoping rear legs to be constructed of 3 ½" x 3 ½" x 3/16" tubing | | 18 | |
| Adjustable front legs to pivot, constructed of 4" x 4" x 3/16" tubing | | í | · 🗖 |
| ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMI PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) OPTIONS (CONT'D) | ø | MPLIA | |
| 2G. Spreader Leg Stands (Cont'd) | | | |
| 4" adjustable steel front roller wheels | \boxtimes | | , 🗆 |
| Body guide wheels front and rear of stand | \boxtimes | | |
| 2H. One-Way Plow with OCP The one-way plow shall be designed to be heavy duty and shall be of a high Speed design. | \boxtimes | | III |
| It shall have a clearing path of 9' with an 11' 3" cutting edge length including The nose shoe. | \boxtimes | | |
| 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. | \boxtimes | 79 | □. |
| 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. Introduced on: February 7, 2024 This shall be a 3 february 7, 2024 This shall be a 3 february 7 2024 | | , | |

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|--|----------------|--|
| 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. | \boxtimes | |
| The push frame shall have a 4" \times 6" \times 5/8" plated angle front with two (2) 4" \times 4" \times 3/8" tubular steel push arms and there shall be three diagonal Braces with in the push arms. | | |
| There shall be a safety chain to prevent the moldboard from tipping over when Adjuster pin is removed. | × | |
| The plow shall have two adjustable push frame shoes and two moldboard shoes. | | |
| ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUM | P TRUCK W | ттн |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | | ************************************** |
| | COMPLIA YES | NO NO |
| OPTIONS (CONT'D) | <u> 1195</u> | 110 |
| 2H. One-Way Plow with QCP (Cont'd) | | |
| The plow shall be manufactured to accept carbide edges and adjust to 55 degrees | e | , |
| To 60 degrees attack angle: | , X a | |
| 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 | | |
| 2I. 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 3. Provide a list of all test/diagnostic/programming equipment and special tools | \boxtimes | |
| being supplied at the time of bid Introduced or: Adopted his oftware installations and activations will be completed by the successful Official Resolution#: 2024000146 | Ø | |

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| COMPLIANCE PAGES - MOTOR VEHICLE: DUMP TRUCKS | Re | \$- P g:/ ₅ 11-81 |
| bidder at no cost to the county | | |
| 5. All software updates and renewal will be provided at no cost to the county | | |
| | \boxtimes | |
| 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 | \boxtimes | |
| 7. Training shall be provided on all items in this section at a specified county | | |
| location | \boxtimes | |
| 2J. 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 | | |
| 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 | re-si | |
| | | |
| ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP | <u> [RUCI</u> | K WITH |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | COL | IPLIANCE |
| • | YES | |
| OPTIONS (CONT'D) | <u> </u> | <u>, 110</u> |
| 2K. 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. | | 3 |
| 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 | | |
| | 2" | |
| 2L. 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 | | |
| 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 technical presentation. | | |
| 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 technic Level and should address limited theory, fault diagnosis and repair pertaining specifically | | |
| 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 technical presentation. | | |

Tinghanical support may abortequested in the following areas:

Adopted triggine (co-fifting refree 0.24 gnition, lubrication systems) — 1 day at each location. Official Resolution#: 2024000146

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|--|---------------|----------------------|
| 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 | \bowtie | П |
| - opinor (dump body, swooper, ow.) I gay at oden roution . | - | |
| 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 | | a |
| The successful bidder. | \boxtimes | |
| | | ű. |
| 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. | \boxtimes | |
| | , , | |
| ITEM #2 - MODEL YEAR 2023 WESTERN STAR 49X SF SPECIALIZED DUMP | rruck wi | TIF |
| PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D) | IROCIL WI | <u> </u> |
| | COMPLI | ANCE |
| | YES | <u>NO</u> |
| <u>OPTIONS</u> (CONT'D) | 124 | |
| 2L. <u>Technical Support</u> (Cont'd) 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 | | □• : |
| - Maikilawkili, 575 Hay wood Road, Didg. 105, Walaidawkili, 11.5. 00050 | | <u></u> |
| 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 | | e. |
| During a period not to exceed twelve (12) months from the date of placing the | | |
| T and another the countries | 1571 | П |
| Last unit in service. | ⊠ | |

Introduced on: February 7, 2024 Adopted on: February 7, 2024 Official Resolution#: 2024000146