

**NOTICE**

**REQUEST FOR BID**

**2020 Dump Truck and Dump Body**

**City of Sullivan Water & Sewer Dept**

**John Garner-Supervisor  
573-468-4812**

**Any deviation from the specifications should be clearly noted. The City reserves the right to reject any or all bids and waive any irregularities received. By virtue of statutory authority, a preference will be given to materials, products, supplies, provisions and all other articles produced, manufactured, made or grown within the State of Missouri.**

## **DUMP BODY SPECIFICATIONS For Single Axel Dump Truck**

### Vehicle configuration

M2 106 Conventional Chassis  
2020 model year  
Set back axel- truck

### General Service

Medium Truck warranty  
Expected Front axle load: 12,000lbs  
Expected rear drive axle load: 21,000lbs  
Expected gross vehicle weight capacity: 33,000lbs

### Engine

Cum B6.7 300HP{ @ 2600RPM, GOV, 660 L/BFT @1600RPM

### Electronic Parameters

Cruise control  
PTO mode brake override- service brake applied  
PTO RPM with cruise set switch- 700 rpm  
PTO RPM with cruise resume switch- 800 RPM  
PTO mode cancel vehicle speed -5 MPH  
PTO governor ramp rate -250 RPM per second  
PTO minimum RPM-700  
Regen inhibit speed threshold -5 MPH

### Engine Equipment

2016 ONBOARD DIAGNOSTICS 2010 epa/CARB/FINAL GHG17 CONFIGURATION  
2008 Carb emissions certification  
Standard Oil pan  
Dr 12v 160amp 28-si Quadramount pad alternator with remote Battery volt sense  
Cummins turbocharged 18.7 cfm air compressor with internal safety valve

- Standard mechanical air compressor governor and discharge line
- Electronic engine integral shutdown protection system
- Engine aftermath device and automatic over the road regeneration and dash mounted regeneration request switch
- Standard exhaust system
- 6 gallon diesel exhaust fluid tank
- 700 square inch aluminum radiator
- Gates blue strip coolant hoses
- Constant tension hose clamps
- Radiator drain valve
- Lower radiator guard
- 750 watt/115 volt bloc heater
- Black plastic engine block heater receptacle mounted under door
- Electric grid air intake warmer
- Deloc 12v 29mt starter with integrated magnetic switch

#### Transmission

- Allison 2500 RDS automatic transmission with PTO provision

#### Transmission Equipment

- Engine brake
- Chelsea 270 series PTO
- PTO mounting, LH side of transmission
- Magnetic Plugs, engine drain, transmission drain, axle drain and fill
- Dash mounted T-handle cable shift control
- Water to oil transmission cooler, in radiator end tank
- Transmission oil check and fill
- Synthetic transmission fluid 9 tes-295 compliant

#### Front axle and equipment

- Drop single front axle 12,000lbs
- Meritor 15x4 Q+cam front brakes
- Non-asbestos front brake lining
- Conmet cast iron front brake drums
- Front oil seals
- Vented front hub caps with window, center and side plugs
- Standard spindle nuts for all axles
- Meritor automatic front slack adjusters
- TRW THP-60 power steering
- Power steering pump
- 2 quart see thru power steering pump
- Synthetic 75w-90 front axle lube

#### Front suspension

- 14,600lbs taperleaf front suspension
- Maintenance free rubber bushings
- Front shock absorbers

#### Rear axle and Equipment

- Detroit Da-RS-21 0-4 21,000lbs R-series single rear axle
- 5.88 gear axle ratio
- Iron rear axle carrier with standard axle housing
- Mxl 17t Meritor extended lube main driveline with half round yokes
- Driver controlled traction differential- single rear axle

- Driver controlled differential lock rear valve for single axle
- Blinking lamp with each mode switch, differential unlock with ignition off , active 5mph
- Meritor 16.5x7 Q+cast spider cam brakes, double anchor, fabricated shoes
- Non-asbestos rear brake lining
- Brake cams and chambers on forward side of drive axle
- Conmet cast iron rear brake drums
- Rear oil seals
- Wabco tristop D longstroke 1-drive axle spring parking chambers
- Meritor automatic slack adjusters

#### Rear Suspension

- 23,000lbs 52 inch variable rate multi-leaf spring rear suspension with leaf spring helper
- Spring suspension- no axle spacers
- Standard axle seats in axle clamp group
- Rear shock absorbers – one axle

#### Brake System

- Air brake Package
- Wabco 4s/4m ABS
- Reinforced nylon, fabric braid, and wire braid chassis air line
- Fiber braid parking air line
- Standard brake system valves
- Standard air system pressure protection system
- STD US front brake valve
- Relay valve with 5-8 psi crack pressure
- BW AD-9 brake line dryer with heater
- Air dryer frame mounted
- Steel air brake reservoirs
- Pull cables on wet tank, petcock drain valves on all other air tanks

#### Trailer Connections

- Upgraded chassis multiplexing unit
- Upgraded bulkhead multiplexing unit

#### Wheelbase and Frame

- 153inch wheelbase
- 1 1/32-1/2 x10-3/16 in steel frame
- Square end of frame
- Front closing cross member
- Standard weight engine cross member
- Standard cross member back of transmission
- Standard midship #1 cross member
- Standard rearmost cross member
- Standard suspension cross member

#### Chassis Equipment

- Three piece 14in steel center bumper
- Front tow hooks- frame mounted
- Bumper mounting for single license plate
- Fender and front of hood mounted front mud flaps
- Huck-spin round collar chassis fasteners

50 gallon rectangular aluminum fuel tank  
Fuel tank forward  
Davco 245 fuel/water separator with 12 volt heat and water in fuel sensor  
Equiflo inboard fuel system  
High temperature nylon fuel line

#### Tires

Bridgestone Ecopia R628 11R22.5 14ply radial front tires  
Bridgestone m770 11R22.5 14 ply radial rear tires

#### Hubs

Conmet preset plus premium iron front hubs  
Conmet preset plus premium iron rear hubs

#### Wheels

Maxion wheels 90541 22.5x8.25 10-hub pilot 6.20 inset 2 hand steel disc front wheels  
Maxion wheels 90541 22.5x8.25 10hub- pilot 6.20 inset 2-hand steel disc rear wheels  
Front and rear wheel mounting nuts

#### Cab Exterior

106in BBC flat roof aluminum conventional cab  
Air cab mounting  
LH and RH grab handles  
Mold-in color grille  
Tunnel/firewall liner  
Door locks and ignition switch keyed the same  
Integral headlight/marker assembly  
5 amber marker lights  
Integral stop/tail/backup lights  
Standard front turn signals  
Dual west coast bright finish heated mirrors with LH and RH remote  
102in equipment width  
LH and RH 8in molded-in color convex mirrors mounted under primary mirrors  
Standard side/rear reflectors  
63/14in tinted rear window  
Tinted door glass  
Tinted windshield  
2 gallon windshield washer reservoir

#### Cab Interior

Gray vinyl interior  
Forward roof mounted console with upper storage compartments  
In dash storage bin  
Two cup holders LH and RH dash  
2-1/2 lbs fire extinguisher  
Heat, defroster and air conditioner  
Standard HVAC ducting  
Main HVAC controls with recirculating switch  
Standard heater plumbing  
Valeo heavy duty A/C refrigerant compressor  
Binary control  
Standard insulation  
Solid state circuit protection and fuses  
12V negative ground electrical system

- Dome light with 3-way switch activated by LH and Rh doors
- Two 12V power receptacles mounted in dash
- Triangular reflectors without flares
- Basic high back air suspension driver seat with mechanical lumbar and integrated cushion extension
- LH and RH integral door panel armrest
- Black seat belts
- Adjustable tilt and telescoping steering column
- 4-spoke 18in steering wheel
- Driver and passenger interior sun visor

#### Instruments and Controls

- Driver instrument panel
- Center instrument Panel
- Black gauge bezels
- Low air pressure indicator light and audible alarm
- 2in primary and secondary air pressure gauges
- Intake mounted air restriction indicator
- Electronic cruise control
  
- Key operated ignition switch and integral start position; 4 position off/run/start/accessory
- 2in fuel gauge
- Electrical engine coolant temperature gauge
- Transmission oil temperature gauge
- Engine hours meter
- PTO controls
- Electric engine oil pressure gauge
- AM/FM world tuner radio with Bluetooth and usb auxiliary inputs
- Dash mounted radio
- Two radio speakers in cab
- AM/Fm antenna mounted on roof
- Electronic MPH speedometer
- Standard vehicle speed sensor
- Electronic 3000 RPM tachometer
- Idle limiter
- Digital voltage display integral with drivers display
- Windshield wiper motor with delay
- Marker switch integral with headlight switch
- One valve parking brake system with warning indicator
- Self-canceling turn signal switch with dimmer, washer/wiper and hazard in handle
- Integral electronic turn signal flasher with hazard lamps overriding stop lamps

#### Design

- Paint: one solid color

#### Color

- Cab color A L006eb white elite bc
- Black high solids polyurethane chassis paint
- Powder white N0006ea front and rear wheels
- Bumper paint fb24812 argent silver DuPont flex
- Standard E under coating

#### Certification/ Compliance

- US FMVSS certification

## 6 Cubic Yard Dump Body Specifications

|  |  |
|--|--|
| Body ID  | 83   |
| Body OD  | 96   |
| Body length  | 10ft   |
| Hoist model  | 1824 hd  |
| Frame style  | trapezoidal  |
| Floor style  | 45deg 8in bevel  |
| Front style  | straight   |
| Rear style   | straight   |
| Tailgate style   | double acting  |
| Front height   | 36   |
| Side height  | 30   |
| Rear height  | 36   |
| Side bracing   | 1 horizontal   |
| Overhang   | 6  |
| Rear corner post width   | 10   |
| Tailgate release   | air  |
| Upper tailgate hardware  | ¾ thick hinge plate  |
| Tailgate bracing style   | 1 horizontal   |
| Steps outside body   | 2 rear steps   |
| Rear corner post   |  |
| Light cutouts  | 2 ovals+ markers, led light kit,<br>Wiring harness,<br>Hoist 1824 hd<br>Complete mtg kit 1824 hd<br>Hoist manual kit sgl cyl arm-d<br>½ cab shield |
| Body up indicator kit  |  |
| Backup alarm   |  |
| ¾ in hitch plate 2 D rings   |  |
| 7-wire commercial plug   |  |
| Pintle hook forged 20 ton  |  |
| Air cylinder   |  |
| Electric tarp system and tarp  |  |
| Bracket anti-sail  |  |
| Front and rear mud flaps   |  |
| PTO system to operate hoist  |  |
| Prep and paint bed and undercoat (white to match chassis)  |  |
| Led flashers 2 installed at 45deg on cab shield, 2 installed in rear post wired to factory switch in cab |  |
| Installed with warranty on parts and labor   |  |