

CC-8D: CAB/CHASSIS, 56,000 GVWR, DIESEL, DUMP TRUCK

7/29/2021

1. **EQUIPMENT:** The cab and chassis truck shall be equipped with all standard equipment as specified by the manufacturer for this model, and shall comply with all EPA Emission Standards and all Motor Vehicle Safety Standards as established by the U.S. Department of Transportation regarding the manufacture of motor vehicles.
2. **DESCRIPTION:** The truck shall be a Severe-Duty, conventional cab, tandem axle unit with forward tilting hood suitable for use in On/Off Road Dump Truck application with maximum 12.5 cubic yard slope front body with front mount single hoist, as well as other applications.
3. **CAPACITY:**
 - 3.1 56,000 lbs. minimum gross vehicle weight rating (GVWR)
 - 3.2 80,000 lbs. minimum gross combination weight rating (GCWR) as bid with Allison 4500 RDS 6-speed transmission
4. **DIMENSIONS:**
 - 4.1 Wheelbase 178 inches minimum
 - 4.2 Usable CA 112 inches minimum (excluding vertical tailpipe)
 - 4.3 AF 60 inches minimum
 - 4.4 BBC 110 inches minimum
 - 4.5 Integral front frame extension 24 inches minimum
 - 4.6 COH 117 inches minimum
 - 4.7 Curb Weight 17,000 lbs. minimum
5. **ENGINE:** Diesel, Cummins X12, Volvo D13, or Mack MP8 only.
 - 5.1 11.9 liter minimum
 - 5.2 450 SAE gross horsepower minimum at 1,800 RPM
 - 5.3 1,650 ft. lbs. torque minimum
 - 5.4 Vocational performance calibration
 - 5.5 No idle engine shutdown
 - 5.6 Air filter heavy-duty dual stage dry-type
 - 5.7 Air flow restriction indicator
 - 5.8 Fresh air intake ducting, Donaldson
 - 5.9 Three position Off/Medium/High compression brake, rear brake light activation
 - 5.10 Heavy-duty oil filter
 - 5.11 Heavy-duty fuel filter/water separator governor
 - 5.12 Magnet in oil pan
6. **COOLING FAN:** Extreme-duty, two speed with fan clutch or variable speed fan only.
7. **RADIATOR:** Aluminum core, heavy-duty, maximum cooling system.
 - 7.1 1,300 square inches minimum

- 7.2 Premium hoses with heavy-duty clamps
 - 7.3 Filled with extended life coolant, -34 degrees minimum
 - 7.4 Fill/surge tank
8. **ALTERNATOR:** 200 Amp minimum, heavy-duty.
9. **BATTERIES:** Three (3) batteries, 12-Volt, heavy-duty, maintenance free, threaded posts, minimum 950 CCA each, minimum combined 2850 CCA.
10. **BATTERY BOX:** One (1) box, aluminum, three (3) battery capacity, plastic lockable cover, mounted on left hand side behind fuel tank.
- 10.1 Covered negative jump start stud mounted outside of battery box on right hand side of box or on frame near battery box, labeled “NEG” in Black letters on white background – May be installed by manufacturer or an approved OEM up-fitter.
 - 10.2 Covered positive jump start stud mounted outside of battery box on right hand side of box, labeled “POS” in Red letters on white background – May be installed by manufacturer or an approved OEM up-fitter.
11. **EXHAUST SYSTEM:** Horizontal mounted exhaust system with vertical tail pipe mounted on cab or frame rail.
- 11.1 Exhaust system mounted horizontally outside right frame rail under cab with minimum 15 inch ground clearance
 - 11.2 Adequate clearance for PTO on the left or right hand side
 - 11.3 Tail pipe mounted vertically outside right frame rail maximum 4 inches back of cab
 - 11.4 Tail pipe height at top of cab minimum with radius bend away from cab and chassis
 - 11.5 Tail pipe and guard not to interfere with raising or lowering dump body
12. **FRONT ENGINE PTO ASSEMBLY:** Assembly to provide hydraulic control functions to valve bank installed by purchaser for operating truck dump body, snow plow, hopper spreader, tailgate spreader, etc. – May be installed by manufacturer or approved OEM up-fitter.
- 12.1 Front engine PTO adapter flange 1350
 - 12.2 Crankshaft drive assembly
 - 12.3 Gear pump
 - 12.4 Diverter valve, 1 inch
 - 12.5 Front pump bracket
 - 12.6 Couplers, seals, hoses, hose hangers, and other items needed to fully complete assembly and installation
13. **TRANSMISSION:** 6-speed automatic minimum, Allison Model 4500 RDS only.
- 13.1 High performance calibration
 - 13.2 Standard (10) bolt SAE PTO opening on left side
 - 13.3 Cooling system upgrade to match Allison warranty coverage

- 13.4 Transmission cooler with stainless steel braided or reinforced hoses and stainless steel fittings
 - 13.5 Transmission shift control, mounted in dashboard instrument panel or on steering column
 - 13.6 Assembled truck capable of achieving 70 mph fully loaded on level grade and 60 mph fully loaded on 1.1% grade. Vendor to provide an analysis from Allison Manufacturing SCAAN
14. **FRONT AXLE:** Severe-duty.
- 14.1 16,000 lbs. minimum load rating
 - 14.2 Set-back type axle
15. **FRONT SUSPENSION:** Severe-duty.
- 15.1 16,000 lbs. minimum load rating
 - 15.2 Shocks and auxiliary front rubber springs, severe-duty
 - 15.3 Suspension system and parabolic tapered leaf designed springs capable of maintaining GVWR and GAWR
16. **REAR TANDEM AXLES:** Extreme-duty housing, 12.7 mm (.50 inch) thick, Meritor MT-40-14X.
- 16.1 40,000 lbs. minimum load rating
 - 16.2 Iron rear carrier
 - 16.3 Single speed type axle
 - 16.4 Gear ratio 4.56 to 1, subject to Allison SCAAN analysis
 - 16.5 Full locking rear differential axles
 - 16.6 Assembled truck capable of achieving 70 mph fully loaded on level grade and 60 mph fully loaded on 1.1% grade. Vendor to provide an analysis from Allison Manufacturing SCAAN
17. **REAR SUSPENSION:** Tandem axles type suspension, Hendrickson HaulMaxx HMX 400 Walking Equalizing Beam only.
- 17.1 40,000 lbs. maximum load rating
 - 17.2 Single-speed type axles
 - 17.3 Iron rear axle carrier
 - 17.4 Extreme-duty axle housing
 - 17.5 Suspension system and springs capable of maintaining GVWR and GAWR
 - 17.6 Frame rails to be at circumference level of rear tires or no more than 2 inches above tire circumference. Frame rails below tire circumference will not be acceptable.
 - 17.7 Assembled truck capable of achieving 70 mph fully loaded on level grade and 60 mph fully loaded on 1.1% grade. Vendor to provide an analysis from Allison Manufacturing SCAAN.
18. **BRAKES:** Full anti-lock (ABS) air Disc brakes, front and rear wheels, heavy-duty, compatible with 16,000 lb. front axle and 40,000 lb. rear tandem axles, and 22.5 inch wheels, Bendix ADB22X.

- 18.1 Disc brake rotors
 - 18.2 Non-asbestos lining material
 - 18.3 Automatic slack adjuster pins/cotter pins on front and rear wheels
 - 18.4 Brake dust shields
 - 18.5 Spring set air release rear wheel parking brake
 - 18.6 Brake light override flashing hazard light feature
 - 18.7 Standard air disc brake mounting arrangement
 - 18.8 Brake equipment ICC and FMVSS 121 compliant
 - 18.9 Rear axle brake chambers and springs meeting asphalt spreader/paver clearance requirements
 - 18.10 Brake system to provide minimum 15 inches ground clearance and adequate space above frame rails for body installation and clearance for PTO drive shaft on left or right side
19. **AIR COMPRESSOR:** 25.9 cfm minimum capacity, Cummins or Equal.
- 19.1 Low air pressure indicator or alarm dash mounted
 - 19.2 Dash mounted air pressure gauge
20. **AIR DRYER:** Heated automatic type moisture remover, mounted under frame rail BOC.
21. **AIR TANKS:** Drain valves with accessible pull chains on all air tanks.
22. **QUICK DISCONNECTS:** Dual trailer brake connectors, glad hand dust covers – May be installed by manufacturer or approved OEM up-fitter.
23. **WHEELS:** Disc type, steel, tubeless, 10-hole, 11 ¼” bolt circle, 8-22/32” bore, 1-9/32” stud holes, 5 hand holes, hub pilot, heavy-duty.
- 23.1 (2) Front wheels, 22.5” x 9” x 7/16”, 10,000 lbs. maximum load rating per wheel
 - 23.2 (8) Rear wheels, 22.5” x 8.25” x 7/16”, 7,200 lbs. maximum load rating per wheel
 - 23.3 Nylon separators between dual wheels and drums and wheels
 - 23.4 Powder coated white wheels
24. **TIRES:** Tier 1 brand Goodyear, Bridgestone, Continental, or Michelin tires only.
- 24.1 (2) Front tires, 315/80R22.5 load range L, regular tread, radial, tubeless, Goodyear G291 or equal
 - 24.2 (8) Rear tires, 12R22.5, load range H, closed shoulder traction lug tread, radial, tubeless, Goodyear G182 or equal
25. **FRAME RAILS:** Single channel steel frame side members, **splayed front frame** rails.
- 25.1 Depth 10 inches minimum
 - 25.2 Width 3-1/2 inches minimum
 - 25.3 Thickness 3/8 inches minimum
 - 25.4 PSI 120,000 minimum
 - 25.5 **RBM 3,700,000 minimum**

- 25.6 Integral front frame extension, 24 inches minimum in front of grill, with frame reinforcement to support front mounted hydraulic pump, heavy-duty bumper, and snow plow
 - 25.7 Severe-duty brackets mounting suspension, cross members, engine, transmission, and other major components to frame rails with grade 8 minimum threaded hex frame fasteners or equivalent Huck bolt fasteners
 - 25.8 Frame rails black with corrosion resistant treatment electrostatically applied primer coating and top powder coating or premium urethane paint passing a minimum 240 hour salt spray test
 - 25.9 Frame rails to be at circumference level of rear tires or no more than 2 inches above tire circumference. Frame rails below tire circumference will not be acceptable.
26. **FRONT BUMPER:** Heavy-duty snow plow bumper with snow plow push frame and air ride kit for plow.
- 26.1 Front bumper, snow plow type, full width, heavy-duty, 4 plow bell brackets attached, 4 spare plow bell brackets unattached, Good Roads Brand Model W181962 or approved equal – May be installed by manufacturer or approved OEM up-fitter.
 - 26.2 Two (2) fluorescent orange 36 inch threaded stud sight rods, one (1) rod mounted at each end of bumper – To be provided by contract vendor and installed by SCDOT or other purchasing agency.
27. **FUEL TANKS:** Diesel exhaust fluid (DEF) and fuel tanks.
- 27.1 DEF tank, 6.0 gallons minimum, labeled “DEF ONLY” with red 2 inch letters on white background, mounted on left hand side of frame under cab or behind fuel tank
 - 27.2 Fuel tank, 70 gallons minimum, non-polished aluminum, cylindrical, labeled “DIESEL FUEL ONLY” with red 2 inch letters on white background, mounted on left hand side of frame under cab with stainless steel straps, 15 inch ground clearance minimum
 - 27.3 Stair steps, 4 inches minimum, non-polished aluminum or stainless steel with offset steps, 15 inch ground clearance minimum
 - 27.4 Anti-siphon device on filler neck
28. **TOOL BOX:** Heavy-duty tool box, mounted behind cab/exhaust system on outside of right hand side frame rail with box top at frame rail height, Buyers XD Series – To be provided by contract vendor and installed by SCDOT or other purchasing agency.
- 28.1 Minimum 36” L x 18” D x 18” H
 - 28.2 Minimum 12 gauge steel
 - 28.3 Powder coated black
 - 28.4 Built-in rain gutter
 - 28.5 Rubber automotive door seal
 - 28.6 Single point latch

29. **CAB:** Conventional type, constructed of **aluminum with steel reinforcements or galvanized steel.**
- 29.1 Galvanized steel doors, driver and passenger sides
 - 29.2 Steel reinforced rear header, roof supports (A and B Pillars), and door hinges
 - 29.3 Steel engine tunnel
 - 29.4 Flat floor panel
 - 29.5 Windows tinted
 - 29.6 Rear polycarbonate windows, three (3) sections, tinted
30. **CAB SUSPENSION:** Air suspension type, **front and rear mount stabilizing tuned suspension.**
31. **CAB EXTERIOR:**
- 31.1 Exterior entry and egress assist handles, mounted on left and right hand side behind door
 - 31.2 Hood access hatch, driver's side
 - 31.3 Air horn, single, air solenoid operated, mounted under cab deck with in cab pull cord mounted on left hand side of overhead console
 - 31.4 Mirrors, (2) rectangular (approx. 7" x 13"), breakaway, heated, power controlled, convex mirrors, cab mounted on driver and passenger sides
 - 31.5 Mirror, (1) look down, rectangular (approx. 4" x 8") convex, mounted above passenger door
 - 31.6 Back-up alarm, 107 db with ID label – May be installed by manufacturer or approved OEM up-fitter.
 - 31.7 Grill, complete stationary with bug screen and stone guard protection for entire front cooling package – May be installed by manufacturer or approved OEM up-fitter.
32. **CAB INTERIOR:** Must include all interior cab trim with no "Delete" options allowed.
- 32.1 Lower dash closeout panel, molded plastic
 - 32.2 Door trim panels, molded plastic
 - 32.3 Floor covering, black vinyl
 - 32.4 Headliner, soft padded cloth or vinyl
 - 32.5 Dashboard, wing type
 - 32.6 Instrument panel trim, molded plastic
 - 32.7 Overhead console, molded plastic
 - 32.8 Storage pocket on driver and passenger side doors, molded plastic
 - 32.9 Air horn, single, air solenoid operated, mounted under cab deck with in cab pull cord mounted on left hand side of overhead console
 - 32.10 Interior entry and egress assist handle on left and right hand side "A" pillars
 - 32.11 Cup holders driver and passenger sides
 - 32.12 Sunvisors, soft padded vinyl, driver and passenger side
 - 32.13 Arm rests integral on driver and passenger side door panels
 - 32.14 Coat hooks, (2) each
 - 32.15 Dome light
 - 32.16 Tinted glass, all windows

- 32.17 Power door locks, driver and passenger side
- 32.18 Power windows, driver and passenger side
- 33. **SEATS:** Seats, (2) driver and passenger, high back, gray vinyl.
 - 33.1 Air suspension
 - 33.2 Integral headrest
 - 33.3 3-chamber air lumbar
 - 33.4 Integral adjustable cushion extensions
 - 33.5 Forward and rear tilt
 - 33.6 Adjustable shock absorbers
 - 33.7 Dual folding armrests
 - 33.8 3-point type seat-belt “Orange” in color
- 34. **INSTRUMENT PANEL:** In dash mounted instrumentation.
 - 34.1 Air filter restriction indicators
 - 34.2 Air pressure gauge for Snow Plow Air Ride Pressure
 - 34.3 Air regulator (Manual) for Snow Plow Air Ride Regulator
 - 34.4 Ammeter/Voltmeter
 - 34.5 Engine hour meter
 - 34.6 Fuel gauge
 - 34.7 High coolant temperature indicator
 - 34.8 Low oil pressure indicator
 - 34.9 Oil pressure gauge
 - 34.10 Outside temperature gauge
 - 34.11 Parking brake valve, Truck
 - 34.12 Parking brake valve, Trailer
 - 34.13 Speedometer (electric)
 - 34.14 Tachometer
 - 34.15 Transmission shift control, mounted in dashboard instrument panel or on steering column
 - 34.16 Transmission temperature gauge
 - 34.17 Visible or auditable signal to warn operator of low oil pressure and/or high coolant temperature
 - 34.18 Water temperature gauge
- 35. **AIR CONDITIONER:** Blend-air, with integral heater and defroster, recirculation switch, fresh air filter.
- 36. **RADIO:** AM/FM stereo radio, Bluetooth, clock, USB port, (4) cone speakers.
- 37. **AUXILIARY POWER OUTLET:** 12-volt, single port outlet, operates with vehicle ignition switch on the “Off” or “On” position, minimum 20 amp circuit, in dash mounted (Standard State Specification). – May be installed by manufacturer or approved OEM up-fitter.
- 38. **STEERING WHEEL:** Power assist, 2-spoke minimum.

- 38.1 Tilt and telescopic steering column
 - 38.2 Cruise control, preferably integral with turn signal lever or steering wheel
 - 38.3 Windshield wipers, single electric motor, cowl mounted, 2-speed switch with wash and intermittent feature, integral with turn signal lever, automatic headlight and tail light activation with wiper switch in “Intermittent” or “On” position
39. **BACKUP CAMERA:** Backup camera system, (3) separate cameras mounted at rear of chassis, left and right side of hood. – May be installed by manufacturer or approved OEM up-fitter.
- 39.1 Continuous left and right side view monitoring with interruption only when transmission shifted in neutral or reverse gear, rear view monitoring while in neutral or reverse
 - 39.2 Monitor mounted inside cab preferably in dashboard or in overhead console
40. **FIRE EXTINGUISHER:** Fire extinguisher, 5 lbs. mounted inside cab under driver’s seat on left hand side of outer seat frame – May be installed by manufacturer or approved OEM up-fitter.
41. **HIGHWAY EMERGENCY KIT:** Warning triangles, (3) per case, flat folding design, with carrying case – May be installed by manufacturer or approved OEM up-fitter.
42. **LIGHTS:**
- 42.1 Daytime running lights
 - 42.2 Cab clearance markers, LED, amber, (5) mounted on top of cab
 - 42.3 Tail/Turn/Backup combination lights, LED, red/amber/and clear, (2) mounted on rear of chassis
 - 42.4 Turn signals, left and right, automatic shut-off, amber inside headlight assembly, amber integral left and right fenders above front wheels, and red left and right rear of chassis
 - 42.5 Snow Plow Lights, Halogen, front and side turn signals, mounted on left and right side to fender and hood, snow plow light switch mounted in dash, headlights off with plow lights on – May be installed by manufacturer or approved OEM up-fitter
 - 42.6 Work lights, (2) LED spot light type, rear cab mounted, illuminating ground surface outside of rear wheels – May be installed by manufacturer or approved OEM up-fitter.
 - 42.7 Chassis electrical cable for 7-way receptacle (without receptacle) at end of frame – May be installed by manufacturer or approved OEM up-fitter.
43. **COLOR:** Truck cab, hood and fenders painted standard factory white, sealed with clear coat finish. Frame rails, running gear, and heavy-duty front snow plow bumper painted black. Frame rails black with corrosion resistant treatment electrostatically applied primer coating and top powder coating or premium urethane paint passing a minimum 240 hour salt spray test.

44. **ELECTRICAL SWITCH SYSTEM:** (14) programmed electrical switches activated with the ignition switch in “Accessory” or “On” position. Switches mounted left to right as listed below in dashboard or overhead console and connected to wiring harness located at back of cab. Accessories activated by the switch system to include:

- 44.1 One 3-Way momentary switch rated at not less than 10 amps “Dump Body”
- 44.2 One 3-Way momentary switch rated at not less than 30 amps “Tarp”
- 44.3 One On-Off switch rated at not less than 10 amps “Tailgate Latch”
- 44.4 One On-Off switch rated at not less than 10 amps “Hydraulic Spreader”
- 44.5 One On-Off switch rated at not less than 10 amps “Electric Spreader”
- 44.6 One On-Off switch rated at not less than 10 amps “Brine Pump”
- 44.7 One On-Off switch rated at not less than 10 amps “Spot Lights”
- 44.8 One On-Off switch rated at not less than 10 amp “Hydraulic Diverter”
- 44.9 One 3-Way momentary switch rated at not less than 10 amps “Spare”
- 44.10 One On-Off switch rated at not less than 10 amps “Spare”
- 44.11 One On-Off switch rated at not less than 10 amps “Spare”
- 44.12 One On-Off switch rated at not less than 10 amps “Spare”
- 44.13 One 3-Way momentary switch rated at not less than 10 amp “Snow Plow”
- 44.14 One On-Off switch rated at not less than 10 amps “Snow Plow Air Ride”

45. **ACCESSORY SOLENOID MANIFOLD:** (7) Bendix BWK073055 solenoid valves normally closed exhaust ports and (1) Bendix BWK073058 solenoid valve normally opened exhaust port. Stackable accessory solenoid manifold with 90 degree start caps and end caps mounted inside frame rails behind cab with clear access for body and accessory installations. Solenoids connected to electrical switch system mounted in dashboard or overhead console inside cab. - May be installed by manufacturer or approved OEM up-fitter.

The accessory solenoid manifold used to activate accessories to include:

- 45.1 (2) normally closed solenoid valves with one (1) 10 amp 3-way momentary switch for “Dump Body”
- 45.2 (2) normally closed solenoid valves with one (1) 10 amp 3-way momentary switch for “Snow Plow”
- 45.3 (1) normally closed solenoid valve with one (1) 10 amp On-Off switch for “Salt Spreader”
- 45.4 (1) normally open solenoid valve and one (1) normally closed solenoid valve with one (1) 10 amp On-Off switch for “Tailgate Latch”
- 45.5 (1) normally closed solenoid valve for future use

46. **RADIO NOISE SUPPRESSION:** The truck is to be used as a governmental fleet vehicle and will have an approximate 150-watt mobile (two-way) radio installed, operating on frequencies designated by the FCC for use in the Public Safety Radio Service (47 CFR 90). The truck shall be fully compatible with the above radio installation, and vehicle components and equipment shall not interfere with operation (transmitting or receiving) of the mobile radio. (Standard State Specification)

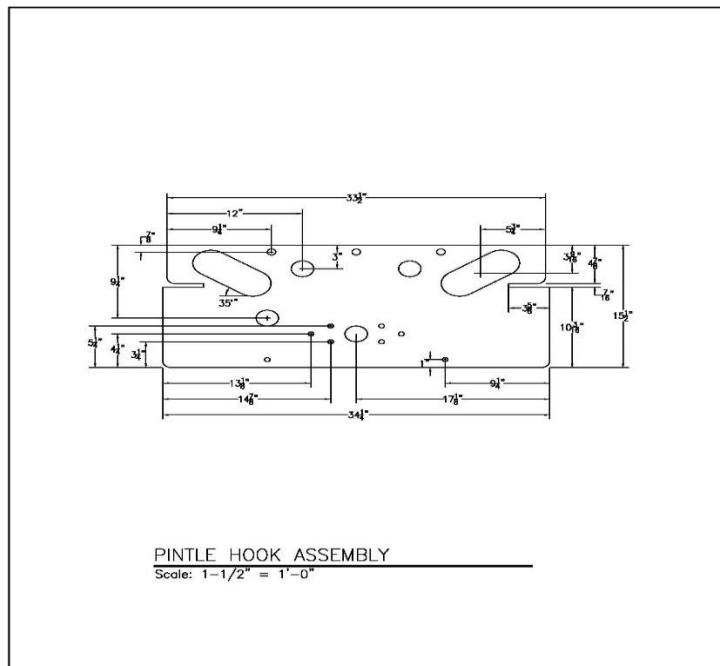
47. **PINTLE HOOK and ASSEMBLY PLATE:** Buyers Model BP200 or equal, heavy-duty, 25 ton capacity, suitable for 2 3/8” to 3” pintle eye dimensions, spring-cushioned,

swiveling hook, plunger type latch, spring-loaded lock pin. The pintle hook shall be bolted to a minimum 1" thick continuous steel pintle hook assembly plate mounted to truck frame rails. **See Drawings 1 and 2 below.** - May be installed by manufacturer or approved OEM up-fitter.

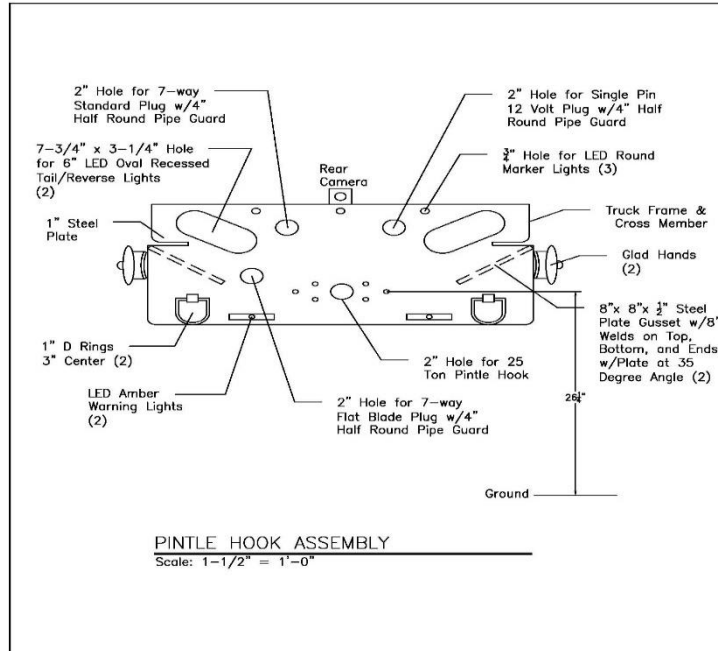
- 47.1 Pintle hook shall be bolted to pintle hook assembly plate with grade 8 plated bolts and top lock nuts
- 47.2 Assembly steel plate shall extend across the entire width of the rear truck frame rails. The plate shall be welded into the frame and properly gusseted with two (2) 8" x 8" x 1/2" steel gussets. Gussets shall be mounted at 35 degree angles extending from bottom of frame toward pintle hook centerline. Plate and gussets shall be entirely welded on both sides connecting frame, plate, and gussets. Fabrication shall be capable of carrying the load rating of the pintle hook
- 47.3 The pintle hook centerline shall be 26-28" from ground on the truck cab-chassis.
- 46.4 Two (2) heavy-duty, 1" thick safety chain lashing rings, minimum 46,760 lbs. ultimate breaking strength each, Buyers Products B50D or equal, shall be attached to the pintle hook assembly plate by two (2), minimum 1/2" x 2" flat bar steel straps seam welded inside of the lashing ring. The brackets or shackles shall accept both 3/8" and 1/2" grab hooks
- 46.5 One (1) seven pin round electrical receptacle shall be mounted into the pintle hook assembly plate, Philips QCS2 Model 16-7403 or equal. The receptacle shall be weather proof sealed with minimum 48" wiring harness and protected by a 4" ID x 2" long semi-round pipe mounted to the assembly plate. The lower one-third of pipe shall be cut out to allow for self-cleaning and ease of debris removal
- 46.6 One (1) seven pin flat-RV electrical receptacle shall be mounted into the pintle hook assembly plate, Bargman Model 50-87-007 or equal. The receptacle shall be weather proof sealed with minimum 48" wiring harness and protected by a 4" ID x 2" long semi-round pipe mounted to the assembly plate. The lower one-third of pipe shall be cut out to allow for self-cleaning and ease of debris removal
- 46.7 One (1) single pin 12 volt electrical receptacle shall be mounted into the pintle hook assembly plate. The receptacle shall be protected by a 4" ID x 2" long semi-round pipe mounted to the assembly plate. The lower one-third of pipe shall be cut out to allow for self-cleaning and ease of debris removal
- 46.8 Two (2) LED 6" recessed oval red taillights with reverse white lights shall be mounted into a 3/16" steel plate, which will be mounted to rear of pintle hook assembly plate. The lights and grommets shall be inserted from the rear through 7-3/4" x 3-1/4" oval holes in the assembly plate. Holes in both plates shall be cut at 35 degree angles. Three (3) LED 3/4" round red lights shall be mounted on the assembly plate. Two (2) 1/2" holes shall be cut into the assembly plate for two (2) LED 4" rectangular amber/white warning lights
- 46.9 Two (2) dual quick disconnect trailer air brake connectors with glad hand dust covers shall be mounted to assembly plate gussets. The brake connectors shall not extend beyond front edge of assembly plate for protection from objects hitting rear of truck

- 46.10 The installation shall not interfere with dump body installation or operation. The pintle hook mounting method shall be approved by the South Carolina Department of Transportation on a pilot model prior to installation on the remaining trucks.
- 46.11 All welding shall be performed by skilled fabricators possessing a valid American Welding Society (AWS) or American Society of Mechanical Engineers (ASME) structural welding certification. Proof of certification (per individual fabricator) provided prior to contract award – (may be included w/ bid submittal but must be received no later than five business days after Intent to Award notice is posted – sent to ATTN: Allen Register @ MMO-PO Box 101103, Columbia, SC 29211).

Pintle Hook Drawing 1

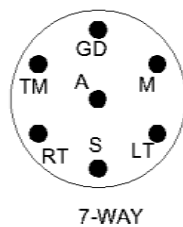


Pintle Hook Drawing 2



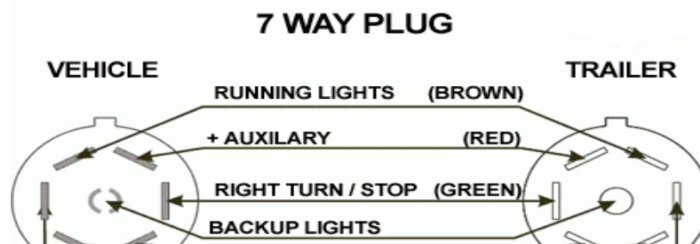
48. TRAILER ELECTRICAL ABS RECEPTACLE CONNECTOR (STANDARD):

The truck shall be equipped with a 7-way standard receptacle connector for trailers with Anti-lock Braking Systems (ABS). The connector shall be weather proof sealed with minimum 48” heavy-duty jacketed multi-conductor wiring harness, Philips QCS2 Model 16-7403 or equal, mounted in the 1” pintle hook cross member plate with 12” weather drip-loop behind plate. The receptacle shall be connected to the truck wiring system in accordance with the following drawing. Pilot model to be approved prior to subsequent installations. **See drawing below.** – May be installed by manufacturer or approved OEM up-fitter.



Letter Code	Trailer Color Code
GD - Ground Return	WHITE
M - Clearance, Side, & Marker Lamps	BLACK
LT - Left Turn and Hazard Signal	YELLOW
S - Stop Lamp and Anti-Lock Device	RED
RT - Right Turn and Hazard Signal	GREEN
TM - Tail, Rear Clearance Markers	BROWN
A - ABS Power and Auxiliary Circuit	BLUE

49. TRAILER ELECTRICAL CONNECTOR (BLADE TYPE): In addition to the 7-way standard receptacle, the truck shall be equipped with a 7-way blade type receptacle connector for trailers. The connector shall be weather proof sealed with minimum 48” heavy-duty jacketed multi-conductor wiring harness, Bargman Model 50-87-007 or equal, mounted in the 1” pintle hook cross member plate with 12” weather drip-loop behind plate. The receptacle shall be connected to the truck wiring system in accordance with the following drawing. Pilot model to be approved prior to subsequent installations. **See drawing below.** – May be installed by manufacturer or approved OEM up-fitter.



50. **ELECTRIC TRAILER BRAKE CONTROLLER (STANDARD):** A hand-controlled and automatic solid state electronic trailer brake controller actuator with digital readout, Pilot Model 80550 or equal, shall be installed in the truck, and wired through the trailer electrical connector to operate electric brakes on trailers up to 3 axles in a manner proportional to the braking effort exerted and intended by the driver. Where options are approved for dealer installation (fuel filter, trailer electrical connector, pintle hook, non-skip steps, and trailer brake controller), the inspection of these options may be delayed until after the pilot model truck is delivered to the dealer.
51. **MAINTENANCE:** All replaceable filter elements for air, fuel, hydraulics, and engine oil shall be available from at least one of the following U.S. manufacturers: AC, Wix, Donaldson, or Baldwin. Replacement tires and tubes shall be available from at least one of the following U.S. manufacturers: Goodyear, Firestone or General. Replacement or replenishment lubricants required throughout the unit (engine oil, transmission fluid, hydraulic fluid, gear oil, brake fluid, power steering fluid, and grease) shall be available from at least one of the major manufacturers: Shell, Exxon, Texaco, or Citgo. Details concerning the manufacturer and items name or part number for the above maintenance items shall be provided wherever requested on the bid questionnaire.
52. **PILOT MODEL:** When 3 or more units are ordered by a governmental entity on a single purchase order, the contractor shall:
- 51.1 Make an offer to the ordering entity to produce a pilot model for inspection prior to full production. The pilot process is limited to once per model year for each governmental entity. If the contract spans more than 1 model year, the pilot offer is to be extended once for each model year to each governmental entity submitting an order for 3 or more units.
 - 51.2 If a pilot is produced, pay the round trip travel cost for 2 of the ordering entity's personnel (includes transportation, meals, and lodging) to the factory/assembly plant for the purpose of completing the inspection.
 - 51.3 If a pilot is produced, coordinate the pilot process with the ordering entity. The pilot process and subsequent production of units is to be completed within the days ARO offered and awarded.

****NOTE**** The intent of producing a pilot is to avoid unnecessary expense and delays in the successful production and delivery of acceptable units. Both the contractor and ordering entity are expending significant resources and should view the pilot process as

an opportunity to safeguard their investments. While the contractor is not required to offer the production of a pilot for orders of less than 3 units, the State encourages both the contractor and ordering entity to consider use of a pilot process. The cost avoidance associated with discovering and resolving problems early in the process at the manufacturing facility can easily outweigh the travel and coordination costs.

53. **DELIVERY:** All deliveries to the South Carolina Department of Transportation must be made to the Equipment Depot, 1500 Shop Road, Columbia, S.C. 29201.
54. **SERVICE LITERATURE:** Service literature covering the entire unit including engine and transmission shall be provided with each unit in paper format or electronic version accessible without fee based subscription. Literature shall include as one set:
- 53.1 Owner's manual
 - 53.2 Operator's instruction manual covering all necessary operating instructions and maintenance procedures for the unit and engine(s)
 - 53.3 Illustrated repair parts manual covering all components of the unit identifying parts by part number, description and component location
 - 53.4 Shop overhaul manual
 - 53.5 Manufacturer's recommended service and preventive maintenance intervals
 - 53.6 Recommended fluids, lubricants and their SAE or API equivalents
 - 53.7 Hydraulic schematics
 - 53.8 Electrical schematics

The right is reserved to require a bidder to furnish one complete set of service literature to be used for bid evaluation. Service literature which is considered inadequate by the Department's Engineers and/or staff may be cause for the rejection of a bid.

Performance in this contract requires the delivery of two (2) complete sets of service literature concurrently with delivery of the first unit. Where the contract provides for ordering additional units during a period of time, then each of these additional units shall be furnished with one (1) complete set of service literature.

55. **LINE SHEET:** Each completed truck shall be delivered with a factory line sheet listing all chassis component codes as installed by the chassis manufacturer. An on-line version may be substituted in lieu of paper copies. SCDOT must pre-approved on-line versions.
56. **ACCEPTANCE INSPECTION:** All equipment ordered with this request will be subject to acceptance inspection and performance testing upon receipt. The vendor will be notified of any units not delivered in full compliance with the purchase order specifications.
57. **SALES LITERATURE AND SPECIFICATIONS:** Each bidder shall attach to his bid illustrated catalog data sheets with manufacturers complete printed specifications covering the class or type of equipment covered by the bid. This material shall show reasonable evidence of having been printed before publication of the bid notice and shall

be sufficiently detailed to permit the Department engineers and/or staff to properly evaluate the bid.

58. **GENERAL:** The units shall be of the latest design and in current production. They shall be furnished completely assembled, fully serviced, and ready for immediate operation. The right is reserved to reject any and all bids proposing to furnish equipment which, in the opinion of the Department's engineers or staff, is not satisfactory for the Department's use in the proposed application.
59. **TRAINING:** The successful bidder shall furnish training to be conducted by factory authorized trainers in a ratio of one day of training for up to 15 students for each thirty (30) vehicles purchased. This training shall be provided on subjects requested by State Fleet Management and at locations throughout the State. The state will consider other than live, on-site methods of training that the vehicle manufacturer may offer. All training offers are subject to approval by the State Fleet Manager.”
60. **OPTIONAL EQUIPMENT:** The following factory installed options may or may not be ordered. Offers must provide a price for all options or offer as part of the base price. If the option item is “STANDARD” enter “STD” on the line provided for price. **ALL ITEMS SHOULD HAVE A DOLLAR PRICE OR “STD” LISTED. OFFERS WILL NOT BE CONSIDERED IF THE PRICE LINE IS LEFT BLANK.** — May be installed by manufacturer or OEM approved up-fitter.

ADDS:

- 59.1 Body Installation Fee (Charge based on the dealer arranging for bodies to be installed on this cab & chassis from the State contract vendor)
- 59.2 Factory installed PTO mounted on right side of transmission, Muncie CS24-A1008-H3KX with dash mounted minimum 10 amp On-Off switch. – May be installed by manufacturer or OEM approved up-fitter.
- 59.3 Operator Training
- 59.4 Repair Technician Training

DEDUCTS:

- 59.5 Integral front frame extension, 24 inches
- 59.6 Front engine mount PTO and gear pump assembly
- 59.7 Hood access hatch, driver’s side
- 59.8 Front bumper, heavy-duty, full width, painted gray or black in lieu of snow plow front bumper, heavy-duty, full width
- 59.9 Snow Plow Lights, Halogen, front and side turn signals, mounted on left and right side to fender and hood, snow plow light switch mounted in dash, headlights off with plow lights on

	CC-8D: Cab & Chassis 56,000 GVWR, Dump Truck (Diesel)	Vendors must complete all blocks highlighted in BLUE. Failure to complete ALL blocks highlighted in BLUE may deem your offer as non-responsive.	
	Vendor Name	Shealy Truck Center	
STANDARD FLEET SPECIFICATIONS	Vendor's Model and Model Number	Western Star 47X	Required Entry
	Base Price	\$143,139.00	Required Entry
OPTIONAL EQUIPMENT ADDITIONS:			
Note: The descriptions of Adds and Deducts provided on this spreadsheet are not representative of the full description of the Add or Deduct. Full descriptions are contained in the solicitation document which has precedence over this spreadsheet should there be an error on the spreadsheet.	Body Installation Fee	\$1,400.00	Required Entry
	Factory Installed PTO - Right	\$2,500.00	Required Entry
	Operator Training	\$100.00	Required Entry
	Repair Technician Training	\$100.00	Required Entry
	Snow Plow Prep Package	\$2,500.00	Required Entry
OPTIONAL EQUIPMENT DEDUCTS:			
	24" Frame Extension	\$187.00	Required Entry
	Snow Plow Front Bumper	\$2,675.00	Required Entry
	Front PTO & Gear Assembly	\$1,338.00	Required Entry
	Hood Access Hatch	\$384.00	Required Entry

NOTE: Use the space below to indicate whether an Add or Deduct requires an additional Add or Deduct. Be Specific. If this section does not apply, leave blank.

DELIVERY INFORMATION			
	Distance from Dealership to SFM Delivery Point (In Miles)	5	Required Entry
	Amount of Base Price Allocated to Delivery to SFM	\$50.00	Required Entry
This field will automatically populate from the Delivery Information entered above.	Price Per Mile Contractor May Charge	\$10.00	Required Entry
Enter the days ARO in the BLUE cell	DAYS ARO:	120	Required Entry

Base Price	\$143,139.00
Total of All ADDS	\$6,600.00
25% of all ADDS	\$1,650.00
Total of All DEDUCTS	-\$4,584.00
25% of All DEDUCTS	-\$1,146.00
Evaluated Amount	\$143,643.00