

**SPECIFICATION, JEA CLASS 135+: TRUCK 5 T 6X4 TANDEM AXLE WITH AIR LIFT AXLE 17 / 19 CUYD DUMP BODY**

**UPDATED SEPTEMBER, 2020**

**1. SCOPE**

It is the intent of the JEA to purchase multiple 5 Ton 6X4 with Steerable Air Lift Axle 17 to 19 CUYD DUMP TRUCKS with 80,000 LB GVWR. All units must be tested and delivered to the JEA Fleet Facility (5717 New Kings Road Jacksonville, Florida 32209) in complete operational condition, with all required equipment and documentation by the date specified per awarded contract.

**2. MODEL**

New current model year production Class-8 Cab/Chassis (International 7400, International HX620, Kenworth T880, Mack Granite or Equal) with OX BODY Model 16FT 17/19 CUYD Dump Bed. Reference: JEA In-Service JEA Unit # 7167 for Layout and Dimensions.

UTILIZE THE STRONGEST, MOST ROBUST, MAINTENANCE FREE FASTENERS/CONNECTIONS WHERE APPLICABLE TO MINIMIZE MAINTENANCE REQUIREMENTS AND MITIGATE POTENTIAL FAILURES. CONFIRM ALL FASTENERS/CONNECTIONS ARE RATED FOR THE CAPACITIES PER OUR APPLICATION.



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**3. CAB / CHASSIS (CONVENTIONAL CAB)**

- 3.1 Class-8 Tandem Axle Cab/Chassis (80,000 lbs GVWR)
- 3.2 Wheel Base: Between 214" and 218"
- 3.3 Overall Height: From level ground to highest point on vehicle not to exceed 132"
- 3.4 Overall Length: Not to exceed 330"
- 3.5 Overall Width: Not to exceed 102"
- 3.6 CA: Between 146" and 148"
- 3.7 Max Speed: 70 MPH

**4. ENGINE (REQUIRE DETROIT DD13 OR DD15, MACK MP8, PACCAR MX13, OR CUMMINS X15, DUE TO RELIABILITY / DURABILITY)**

- 4.1 Horse Power: Minimum 450 HP @ 1800 RPM
- 4.2 Torque: Minimum 1650 lbs. to 1850 lbs
- 4.3 No Automatic Idle Shutdown
- 4.4 Block Heater
- 4.5 Engine warning and shut down system
- 4.6 B20 Biodiesel Capable, if available
- 4.7 Idle Up / Remote Throttle Option

**5. TRANSMISSION**

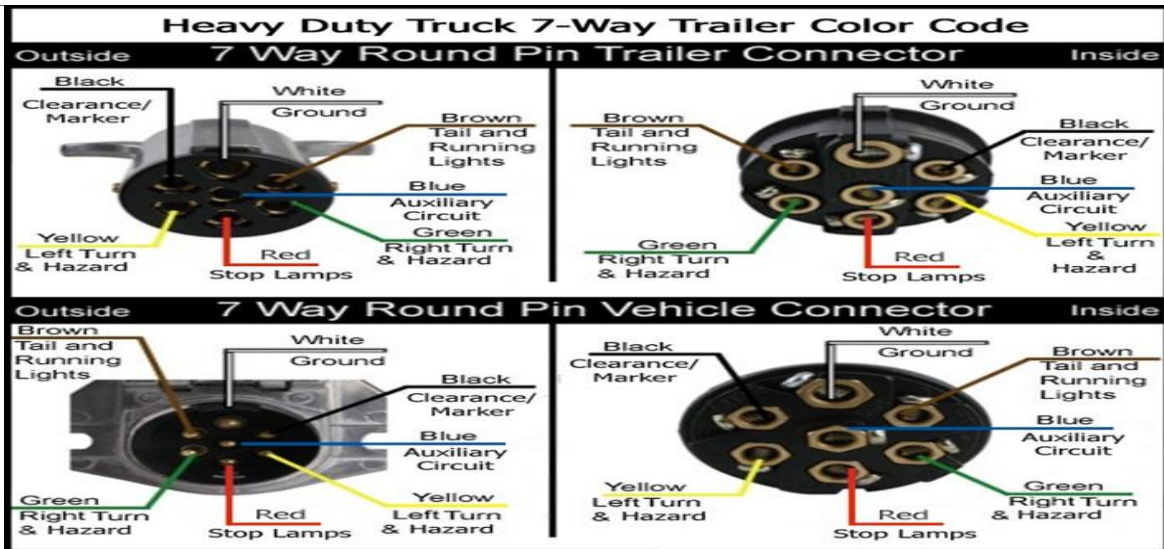
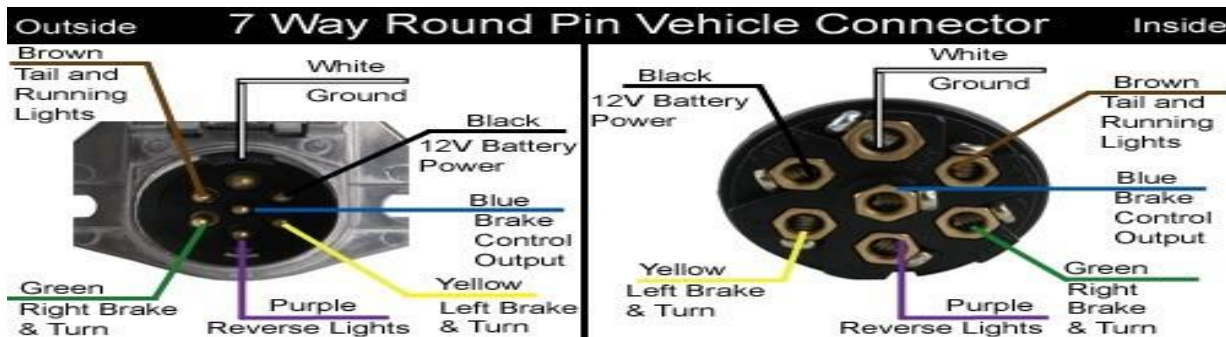
- 5.1 Allison RDS 4500 (6 speed), Mack mDrive Auto Shift (10-13 speed) or equivalent automated transmission (between 10 – 13 speed)
- 5.2 PTO Provision

**6. TOWING**

- 6.1 Tow Package / Pintle Hook: Heavy Duty 25 Ton Swivel OFF ROAD and Safety Chain D-Rings. D-Rings even with hitch.
- 6.2 Tractor Protection Valve along with all air lines/plumbing, collapsible glad hands and trailer hand valve
- 6.3 Tow Package trailer receptacles (2 Receptacles): 7 Pin Round Trailer Receptacle and 7 Pin Round Heavy Duty Truck Trailer Receptacle (ABS)

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**7. REAR AXLES, STEERABLE AIR LIFT AXLE, RIMS AND TIRES**

- 7.1 Air Ride / 46K with manual dump valve (Requiring Hendrickson Air Ride Suspension Systems rated for the capacity and application)
- 7.2 Inter Axle Differential Lock
- 7.3 Side-to-Side Differential Locks on both drive axles
- 7.4 Rear: 11R 22.5 All Terrain Tread rated for GVWR
- 7.5 Aluminum Rims: Weight reduction
- 7.6 Steerable Air Lift Axle: 13200 LB

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**8. FRONT AXLE & TIRES**

- 8.1 20,000 lbs with oil bathed bearing/hubs
- 8.2 Front: Floater 425 / 65 R22.5 rated for GVWR
- 8.3 Aluminum Rims: Weight reduction

**9. BRAKES (AIR DISC BRAKES)**

- 9.1 Air Disc Brakes with Shields: Front and Rear Axles
- 9.2 Anti-lock braking system
- 9.3 Automatic drain valves
- 9.4 Air Dryer
- 9.5 Low air pressure warning system
- 9.6 Trailer Hand Valve (Trailer Air Brakes)

**10. COOLING SYSTEM**

- 10.1 Heavy duty extra cooling capacity, largest available from manufacturer

**11. FUEL TANK**

- 11.1 Capacity: 100 Gallons. Dual tanks are acceptable.
- 11.2 Capacity: Minimum 10 gallon diesel exhaust fluid capacity

**12. CHASSIS ELECTRICAL AND LIGHTING (NO SCOTCH LOCK CONNECTIONS)**

**NOTE:** WIRE ALL LED STROBE LIGHTS TO ONE OEM UP-FITTER SWITCH IN CAB with Label. WIRE TOOL BIN LED ROPE LIGHTING TO ONE OEM UP-FITTER SWITCH IN CAB with Label. WIRE ALL AREA LIGHTS TO ONE UP-FITTER SWITCH.

- 12.1 Meters: Engine hour meter, PTO hour meter, transmission temperature, engine oil pressure, engine temperature, charging system, fuel level, air pressure and diesel exhaust fluid level (In Cab / Dash Mounted).
- 12.2 OEM Up-Fitter Switches/Upper Console: For wiring strobe lights, area lights & etc.
- 12.3 Auxiliary Accessory Fuse Block: Purpose is to wire GPS, fuel rings, JEA Radio, DC accessory power outlets etc. Wire to waterproof resettable breaker so we can isolate from the vehicle OEM system if needed. An acceptable example is listed below including picture

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Blue Sea Systems ST Blade ATO/ATC Fuse Blocks  
Style Name: 12-Circ Split w/Cover & Neg



- 12.4 Master Switch With Lockout/Tagout: In Cab, (Mitigate Dead Batteries Due To GPS & Etc.) Example: TR Series Dual Pole Master Disconnect Switch (500A • DPST • IP67/IP69k • Integrated Lockout Tagout)



- 12.5 All Cab / Chassis Lights: LED only

- 12.6 LED Strobe Lights (6 COUNT): One on all 4 corners (4 Total) and One on each side of the Dump Body/Centered (2 Total)

- 12.7 Auxiliary Battery Jump Ports: Insulated remote posts protected and mounted Drivers Side underneath cab body / close to batteries. (Do not mount over fuel tank!)



- 12.8 DC Accessory Power Outlets: One additional DC power outlets in cab for accessories with spring loaded cover. See example below: NAPA Part # BK 7821773 or equal. Wire to the Auxiliary Accessory Fuse BLOCK



- 12.9 LED Post Mounted Spot Light, Drivers Side

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- 12.10 Power Package: Power windows, locks, mirrors (Heated), cruise control and tilt wheel
- 12.11 Factory installed air conditioner and heater
- 12.12 Collision mitigation/warning system with active braking (engage service brakes), lane departure warning system, back up sensors and backup alarm. System must not affect the safety or operation of the vehicle while staging or operating attachments.
- 12.13 OEM AM / FM Stereo with auxiliary input, backup camera (7" or 8" color monitor) and Bluetooth hands free
- 12.14 LED Area Lights: Under Driver Steps, Passenger Steps and Rear Bumper

**13. ADDITIONAL REQUIRED EQUIPMENT**

- 13.1 Front Bumper
- 13.2 Air Ride Drivers Seats with Collapsible Armrest and 2 Place Passenger Seat (70/30 Seat)
- 13.3 Seat Belts: Fluorescent Green



- 13.4 Tow/Recovery Hooks: Front and rear
- 13.5 (2) Two fender/hood mounted mirrors (passenger and driver side for blind spots)
- 13.6 Window Tint: driver, passenger & rear windows (Max Legal in FL)
- 13.7 Cup Holders: Minimum 2
- 13.8 Interior / Forward / Roof Mounted Console: Storage compartments

**14. DUMP BODY (OX BODIES: Model 14FT 13/15YD, Uniform with existing JEA Dump Truck # 70023)**

- 14.1 Elliptical Design: Including Asphalt Lip and Tailgate Spreader Chains



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- 14.2 Tarp System: Aluminum Automatic Telescoping Tarp System



- 14.3 Dump Body Hydraulics, PTO, Lift Cylinders and all required Installation and Mounting Materials: Must meet or exceed quality/durability of existing JEA Units.

- 14.4 In Cab Controls: All Controls Including a Dual Cylinder Air Actuated Tailgate



- 14.5 Dump Body Prop: Color Prop Red with Labels

- 14.6 Exterior and Interior Steps



- 14.7 Cab Shield



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**15. COLOR/GRAPHICS**

- 15.1 White exterior
- 15.2 Delete all vendor and manufacturer identification decals except required safety & reference identification tags, decals, data plates & placards
- 15.3 Install Vehicle Height Warning Placard with maximum height (feet/inches) in cab on the dash (driver's view) and on driver's side door (outside of vehicle, close to door handle)
- 15.4 Install decal on hitch plate next to pintle hitch to include the MAX tow capacity and MAX tongue weight

**16. MANUALS, VIDEOS, KEYS & OPERATOR ORIENTATION**

- 16.1 (1) set of operator manuals per unit (HARD COPY). (1) Electronic Copy maintenance, repair & parts manuals
- 16.2 Provide five (5) complete sets of keys per unit (3 FOB Keys and 2 Standard Keys for Chassis) including attachments, bins and tool boxes. Key all bins and tool boxes alike. Stamp/Engrave JEA provided 5 digit unit number on all keys.
- 16.3 One (1) on-site JEA Operator Orientation Class (Complete Unit: Chassis and Attachments)
- 16.4 One (1) on-site JEA Maintenance Orientation Class (Complete Unit: Chassis and Attachments)
- 16.5 Include a paper copy Specification / Build Sheet / Drawings in all units including Key Codes

**17. DRAWINGS**

- 17.1 Scaled Drawings will be provided to JEA upon receipt of order. Drawings will include all interior/exterior and equipment layout details & dimensions. Final Drawings / Layout will be approved by JEA before work is started. Include one electronic copy (Flash Drive). Drawings may be used at JEA's discretion for solicitations, request for information, reference for repairs, etc.
- 17.2 Provide weight study

**18. WARRANTY**

- 18.1 Minimum (2) Two Year warranty on Cab/Chassis & All Attachments (Parts, Travel & Labor). Must include all standard manufacturer warranties.
- 18.2 Warranty period starts when units are received at JEA's fleet facility and are inspected and accepted.


**19. OTHER REQUIREMENTS**

- 19.1 Purchase and Install Yellow City License Plates
- 19.2 Install JEA provided decals (You may use JEA's current vendor at your expense)
- 19.3 Install JEA provided safety equipment: Purple-K fire extinguisher (5 LB), first aid kit and key safe
- 19.4 Current DOT Inspection / Certification with decal installed lower left inside corner of windshield. Include current date, current hours, next service due date and next service due hours.
- 19.5 Include a paper copy specification / build sheet in all units including key codes



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- 19.6 Must include/document the VIN number, make, model, description, JEA PO # and JEA provided 5 digit unit # on all invoices
- 19.7 Awarded vendor must complete and submit the JEA provided Vehicle and Equipment Attribute Data Spreadsheet
- 19.8 Reflective roadside triangle warning/hazard kit 

**NOTE:** All units, attachments, products and services must meet and comply with all applicable regulations and specifications including but not limited to Federal and State Laws, OSHA Regulations, ANSI Standards, DOT Regulations and ASTM Standards. All units must be delivered to the JEA Fleet Facility with a minimum  $\frac{3}{4}$  tank of fuel. Contact Thurman McGlothlin at 904-576-9382 48 hours prior to delivery. Delivery times are Monday through Friday 07:00 AM – 03:00 PM at 5717 New Kings Road Jacksonville Florida, 32209.