



<b>Specification Requirements</b> <b>Category 1: Walk in Step Van, 15,000 Lb. GVWR</b>	<b>Check If Meet or Exceeds</b>	<b>Describe Offered Alternatives</b>
c. One 12V 700 CCA battery	X	
d. Automatic De-Rate for low oil pressure, low coolant and high coolant temperature.	X	
e. Horizontal exhaust and after-treatment system.	X	
f. Exhaust tailpipe exiting to right side behind rear wheels.	X	
g. Minimum 690 Sq. In. radiator with plastic surge tank to visually see coolant level.	X	
h. Viscous engine fan drive.	X	
i. Ethylene Glycol coolant, pre-mixed with (corrosion inhibitor). 50/50 mix rated - 35 degrees F.	X	
j. Heavy duty 12 V starter, "Delco Remy" brand (or equal).	X	
<b>2. <u>Transmission and Equipment</u></b>		
a. Allison 1000HS 5-speed automatic transmission with parking pawl.	X	
b. Synthetic transmission fluid, factory fill, approved by Allison. The dipstick/fill tube shall have a tag showing the brand and type of fluid.	X	
c. Interface wiring to access neutral signal	X	
d. Allison programmed to package #350.	X	
e. T-handle shift selector mounted to right side of steering column on dash with park brake "P" position.	X	
f. Water-to-Oil transmission heat exchanger (oil cooler).	X	
<b>3. <u>Front Axle and Equipment</u></b>	X	
a. 8,000 Lb. rated I-beam	X	
b. 50 degree wheel-cut angle for maximum maneuverability.	X	

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c. Hydraulic pin-slide disc front brakes. Non-asbestos pads.	X	
d. Grease type wheel seals.	X	
e. Power steering rated to axle capacity. 2-quart reservoir with filter and dipstick located outboard the frame rail for easy access.	X	
f. 5,790 Lb. front leaf springs with rubber bushings providing maximum stability.	X	
g. Front sway bar and shock absorbers.	X	
<b>4. <u>Rear Axle and Equipment</u></b>	X	
a. 12,000 Lb. (or greater) single speed.	X	
b. Axle ratio to provide 55 MPH at 80% of engine maximum horsepower RPM.	X	
c. Automatic traction locking differential. ("Trac-Tech" or equal)	X	
d. 1710 or 70 series main driveline with safety loops.	X	
e. Synthetic gear lube as approved by axle manufacturer with tag located at the oil fill plug.	X	
f. Hydraulic pin-slide disc rear brakes. Non-asbestos pads.	X	
g. Transmission mounted drum style parking brake.	X	
h. Parking brake control mounted on dash to left side of steering column with indicator light in instrument panel.	X	
i. Oil type rear wheel seals.	X	
j. 9,200 Lb. rear leaf suspension.	X	
k. Rear sway bar and shock absorbers.	X	
<b>5. <u>Brake System</u></b>	X	
a. 4 wheel dual piston hydraulic disc pin-slide brakes with ABS.	X	
<b>6. <u>Wheelbase and Frame</u></b>	X	
a. 158 In. wheelbase with adequate frame overhang for 14 Ft. van body.	X	
b. ¼" x 3" x 8" continuous straight	X	

<b>Specification Requirements</b> <b>Category 1: Walk in Step Van, 15,000 Lb. GVWR</b>	<b>Check If Meet or Exceeds</b>	<b>Describe Offered Alternatives</b>
channel 50,000 PSI steel rails.		
c. 6.8 In. frame extension so bumper is ahead of grille for maximum protection.	X	
d. 11 In. "C" channel front bumper with contoured ends.	X	
e. Two front frame mounted tow hooks.	X	
f. Frame provisions for generator.	X	
g. Frame pre-drilled for body supports.	X	
<b>7. <u>Fuel Tank and Equipment</u></b>	X	
a. 40 gallon, rectangular fuel tank mounted between the frame rails.	X	
<b>8. <u>Tires and Wheels</u></b>	X	
a. Size: 225/70R19.5, 12 or 14 Ply	X	
b. Type: Steel belted radial	X	
c. Front: (2) highway rib with tread and sidewalls rated for Urban Service.	X	
d. Rear: (4) traction tread rated for Urban Service.	X	
e. Wheels: (6) 19.5" x 6.75" 8-stud hub piloted steel 5-hand disc.	X	
f. Hubs: Steel	X	
g. Spare Tire and Wheel: None	X	
<b>9. <u>Cab and Miscellaneous Equipment</u></b>	X	
a. Dual electric horns.	X	
b. Factory A/C compressor and 5/8" heater lines for body manufacturer installed HVAC system.	X	
c. Double-sided heavy duty ignition keys. Five keys per vehicle.	X	
d. Ignition switch with accessory position.	X	
e. Chassis power distribution panel with circuit breakers (in-lieu-of fuses).	X	
f. Adjustable tilting steering column.	X	
g. 4-spoke "soft-feel" steering wheel.	X	
h. Electric back-up alarm, 97 decibels or greater.	X	

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i. Cruise control switches on dash to <b>left or right</b> side of steering column.	X	
j. Instruments and controls:	X	
<ul style="list-style-type: none"> <li>• Speedometer</li> </ul>	X	
<ul style="list-style-type: none"> <li>• Tachometer</li> </ul>	X	
<ul style="list-style-type: none"> <li>• Oil Pressure Gauge</li> </ul>	X	
<ul style="list-style-type: none"> <li>• Engine Temperature Gauge</li> </ul>	X	
<ul style="list-style-type: none"> <li>• Transmission Temperature Gauge</li> </ul>	X	
<ul style="list-style-type: none"> <li>• Fuel Level Gauge</li> </ul>	X	
<ul style="list-style-type: none"> <li>• Engine Hour Display or Hour Meter</li> </ul>	X	
<ul style="list-style-type: none"> <li>• LCD Display linked to J1939 Data Bus for fault codes.</li> </ul>	X	
<ul style="list-style-type: none"> <li>• Volt Meter Display or Gauge</li> </ul>	X	
<ul style="list-style-type: none"> <li>• Self-Cancel Turn Signal Switch</li> </ul>	X	
<b>10. Chassis Warranty</b>	X	
a. Complete Chassis, including starter and alternator: 3 Years/50,000 Miles	X	
b. Engine: 3 Years/50,000 Miles	X	
c. Allison Transmission: 3 Years/50,000 Miles	X	
d. Batteries: 1 Years/50,000 Miles	X	
e. Towing Coverage: 3 Years/50,000 Miles	X	
f. All warranties are for 100% parts and labor during the specified time or mileage limits.	X	
g. Bidder shall include manufacturers warranty statements in this IFB. The statements must list "What Is Not Covered" or "Exclusions".	X	
<b>III. Walk-In Van Body (Aluminum)</b>	X	
<b>1. Dimensions</b>	X	
a. Cargo Floor Length: 168 In. (14 Ft.)	X	

<b>Specification Requirements</b> <b>Category 1: Walk in Step Van, 15,000 Lb. GVWR</b>	<b>Check If Meet or Exceeds</b>	<b>Describe Offered Alternatives</b>
b. Interior Height: 85 In. (Floor to ceiling).	X	
c. Interior Width: 86.5 In. (Outside skin to outside skin, aft of front door pockets.)	X	
d. Useable Interior Width: 81 In. (Inside Wall to Wall)	X	
<b>2. <u>Documentation</u></b>	X	
<p>a. Drawings, printed on ANSI size B and also in CAD electronic format (universal exchange *.dxf) on CD R/W, showing the exterior and interior body and chassis details shall be submitted with this IFB, including:</p> <p>b. Exterior front, rear, left and right side views showing height, width, length, location of body stiffeners, lighting, mirrors, windows, step and bumper height. Show with full width roll-up rear door.</p> <p>c. Interior front, rear, left and right side views showing support structure, interior side walls and cabinet support hardware, bulkhead with sliding door, front seats, work table and storage, useable inside dimensions, and sliding door pockets. Also show interior lighting.</p> <p>d. Front, top and side views of Options including rear door variances, cabinets, work benches, generator compartment, side boxes, etc. showing height, width and depth and also drawer and shelf dimensions of the cabinets, as called out in the Options section of this IFB.</p> <p>e. None of the above drawings need to have the detail for actual construction of the vehicle or cabinets, but are intended to allow the purchaser to determine the external clearances, interior layout and space available when selecting items from the Option section when ordering each vehicle.</p> <p>f. As built wiring diagram for all added or custom componets.</p>	<p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p>	
<b>3. <u>Cab Doors</u></b>	X	
a. Sliding type left and right	X	

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<p>b. Roll-down windows left and right</p>	<p align="center">X</p>	
<p>c. Fixed wing windows between doors and front "A" pillar.</p>	<p align="center">X</p>	
<p>d. .100 gauge aluminum door pockets.</p>	<p align="center">X</p>	
<p>e. "Kason" (or equal) sliding door latches.</p>	<p align="center">X</p>	
<p>f. "Kason" (or equal) #3412 Key-to-lock exterior handles. (Not push-to-lock). Chrome or black powder coated finish.</p>	<p align="center">X</p>	
<p>g. Keyed to rear door(s).</p>	<p align="center">X</p>	
<p>h. Five door keys per vehicle.</p>	<p align="center">X</p>	
<p><b>4. Rear Door(s)</b></p>	<p align="center">X</p>	
<p>a. Full width roll-up.</p>	<p align="center">X</p>	
<p>b. Aluminum clad panels, white top coat.</p>	<p align="center">X</p>	
<p>c. <b>Galvanized</b> steel door hardware.</p>	<p align="center">X</p>	
<p>d. Center mounted rear door latch with two-point cable or rod controlled side latches and inside door release handle. Center latch and handle shall be "Kason" (or equal) #0168-01 latch, #0168S outside handle and #1600 inside handle. Keyed to front doors (no exception.) Chrome or black powder coated exterior handle finish.</p>	<p align="center">X</p>	
<p>e. Door windows: None</p>	<p align="center">X</p>	
<p><b>5. Seating</b></p>	<p align="center">X</p>	
<p>a. Driver seat:</p> <ul style="list-style-type: none"> <li>• High back, Standard Bucket Seats</li> <li>• Dual arm rests</li> <li>• Heavy duty dark gray or black cloth covering, such as "DuPont Cordura", or equal.</li> <li>• <b>Seats Inc. &gt; 200 series mechanical suspension (or equal)</b></li> <li>• Non-tilting seat base</li> <li>• 3-point lap-shoulder belt system with retractor.</li> </ul>	<p align="center">X</p> <p align="center">X</p> <p align="center">X</p> <p align="center">X</p> <p align="center">X</p> <p align="center">X</p>	
<p>b. Passenger seat:</p>	<p align="center">X</p>	

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<ul style="list-style-type: none"> <li>• High back, Standard Bucket Seats</li> <li>• Dual arm rests</li> <li>• Heavy duty dark gray or black cloth covering, such as "DuPont Cordura", or equal.</li> <li>• <b>Seats Inc. &gt; 200 series mechanical suspension (or equal)</b></li> <li>• Non-tilting seat base</li> <li>• 3-point lap-shoulder belt system with retractor.</li> </ul>	<p align="center">X</p> <p align="center">X</p> <p align="center">X</p> <p align="center">X</p> <p align="center">X</p> <p align="center">X</p>	
<p><b>6. <u>Bulkhead</u></b></p>	<p align="center">X</p>	
<p>a. Aluminum with center mounted sliding door with window in the door.</p>	<p align="center">X</p>	
<p>b. <b>Blandex</b> core for bulkhead and sliding door for stiffening.</p>	<p align="center">X</p>	
<p>c. Carpet or sound absorbing material on the forward side of the bulkhead.</p>	<p align="center">X</p>	
<p>d. "Kason" (or equal) sliding door latch. (Non-locking)</p>	<p align="center">X</p>	
<p>e. "Kason" (or equal) non-locking door handle and interior handle.</p>	<p align="center">X</p>	
<p>f. Bulkhead positioned at forward cargo "0" line. (Important Note: This location will vary among the vehicles to be ordered and is called out in the Options section.)</p>	<p align="center">X</p>	
<p><b>7. <u>Driver Area Equipment</u></b></p>	<p align="center">X</p>	
<p>a. Electric windshield wipers (single motor) with intermittent control.</p>	<p align="center">X</p>	
<p>b. Sound absorbing (closed cell urethane) full width floor mat with rubber top surface, approximately ½" thick. Metal nosing at exposed edges.</p>	<p align="center">X</p>	
<p>c. Sound reduction "package" on firewall and engine access cover.</p>	<p align="center">X</p>	
<p>d. Dual (left and right) cup holders</p>	<p align="center">X</p>	
<p>e. AM/FM/ radio with two speakers and side mounted rubber antenna.</p>	<p align="center">X</p>	

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<p>f. Dual sun visors.</p>	<p align="center">X</p>	
<p><b>8. Cab Storage and Work Tables</b></p>	<p align="center">X</p>	
<p>a. Full width overhead shelf without doors.</p>	<p align="center">X</p>	
<p>b. Work table extending from instrument panel to right side with 1 In. lip.</p>	<p align="center">X</p>	
<p>c. Pocket on face of engine cover.</p>	<p align="center">X</p>	
<p><b>9. Interior Lighting</b></p>	<p align="center">X</p>	
<p>a. Cab domes: <b>One 18-In. LED, centered.</b></p>	<p align="center">X</p>	
<p>b. Cargo domes: <b>Three 18-In. LED recessed in the roof down center.</b></p>	<p align="center">X</p>	
<p>c. Switches for front and rear domes located on instrument panel. Additional switch at right rear cargo door post for cargo dome lights.</p>	<p align="center">X</p>	
<p><b>10. Roof</b></p>	<p align="center">X</p>	
<p>a. Aluminum or Composite roof, .040, seamless.</p>	<p align="center">X</p>	
<p>b. Roof bows on 8 In. centers (except at roof vent).</p>	<p align="center">X</p>	
<p>c. Roof bows attached to roof with industrial adhesive to reduce noise.</p>	<p align="center">X</p>	
<p>d. 12-volt power roof vent and skylight assembly located in the center (approximately) of the cargo area. <b>Shall include a Maxxair roof vent cover (Or Equal).</b></p>	<p align="center">X</p>	
<p>e. Interior roof liner, .022, embossed finish with insulation (R4).</p>	<p align="center">X</p>	
<p><b>11. Floor</b></p>	<p align="center">X</p>	
<p>a. Extruded aluminum interlocking plank construction.</p>	<p align="center">X</p>	
<p>b. Diamond aluminum tread plate down center isle and full width from wheel boxes to end of cargo area. Tread plate plug welded to the floor for noise reduction.</p>	<p align="center">X</p>	
<p>c. Access panel in floor for fuel tank sending unit.</p>	<p align="center">X</p>	
<p><b>12. Side and Rear Walls</b></p>	<p align="center">X</p>	

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<p>a. Aluminum exterior side panels, .125, upper and lower sheets.</p>	<p align="center">X</p>	
<p>b. Heavy duty 1.5 In. deep wall studs placed on 24 In. centers aft of the door pockets.</p>	<p align="center">X</p>	
<p>c. <b>5/8 thick plywood or particle board with durable white composite covering or vinyl covering.</b></p>	<p align="center">X</p>	
<p>d. 2 In. foam (polystyrene) or fiberglass insulation between the wall studs. If foam panels are used, then they must be glued to the exterior wall for noise control.</p>	<p align="center">X</p>	
<p><b>13. Rear Bumper</b></p>	<p align="center">X</p>	
<p>a. 12 In. deep with open grate surface.</p>	<p align="center">X</p>	
<p>b. Class IV 2 ½" receiver hitch integrated with bumper.</p>	<p align="center">X</p>	
<p>c. 7-way receptacle wired for 2-light trailer. (Red is open, green and yellow are assigned to stop and turn.) Blue is ignition power for charging trailer battery. Brown is tail. Black is marker.</p>	<p align="center">X</p>	
<p>d. Electric Brake Control: None (see options)</p>	<p align="center">X</p>	
<p><b>14. Body Exterior</b></p>	<p align="center">X</p>	
<p>a. Windshield: Tinted and bonded.</p>	<p align="center">X</p>	
<p>b. Cab mirrors: "Velvac" (or equal) <b>Revolution mid-sized</b> 4-way power adjustable and heated mirrors on single pod mounted <b>fixed</b> arms with integral convex sections. Mirrors to be positioned to see a minimum of 200 ft. down the road.</p>	<p align="center">X</p>	
<p>c. Rear cross view mirror: 10 In. convex on pod mounted swing arm.</p>	<p align="center">X</p>	

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<p>d. Grab handles:</p> <ul style="list-style-type: none"> <li>• Two front 18 In. aluminum located at forward door post approximately 72 In. from ground.</li> <li>• Two rear 18 In. aluminum located at rear door posts approximately 72 In. from ground.</li> </ul>	X	
<p><b>15. Hood and Front Bumper</b></p>	X	
<p>a. Composite lift up hood with gas support struts.</p>	X	
<p>b. Protection screen located behind the grille bars.</p>	X	
<p>c. Chassis manufacturer supplied front bumper.</p>	X	
<p><b>16. Paint and Decals</b></p>	X	
<p>a. Polyurethane single stage paint, DuPont Imron 5000 (or equal), #N0006HN Arctic White (or equal).</p>	X	
<p><b>17. Exterior Lighting</b></p>	X	
<p>a. Headlamps: Halogen</p>	X	
<p>b. Daytime Running Lights: No</p>	X	
<p>c. LED Lighting, Includes:</p> <ul style="list-style-type: none"> <li>• Front and Rear tail, turn/stop lamps</li> <li>• Marker and ID lights</li> <li>• Back-up lights</li> </ul>	X	
<p>d. Mid-side (aft of door pocket) amber turn signal. (Located in the body skirt below the floor.)</p>	X	
<p>e. Rear license plate lamps (LED) with center mounted front and rear license plate holders.</p>	X	
<p><b>18. HVAC</b></p>	X	
<p>a. Factory installed cab heater, defroster and air conditioning system.</p>	X	

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b. Ducting and/or louvers for driver and passenger sides.	X	
<b>19. <u>Electrical and Miscellaneous</u></b>	X	
a. Two 12-volt cigar lighter style receptacles in dash for cell phones, etc. b. Rubber fender flares and mud flaps	X X	
<b>20. <u>Warranty</u></b>	X	
a. Basic coverage: 12 months or 12,000 miles.	X	
b. Body Structure, hood and main panels: 60 months or 50,000 miles.	X	
c. The bidder shall include the manufacturer's warranty statement including "What Is Not Covered" or "Exclusions" in this IFB.	X	
d. Warranties are for 100% parts and labor during the specified time or mileage limits.	X	

### Category 2 Specifications – Walk-in Step Van, 19,000 lb GVWR

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#### Invitation for Bid 00814 – Walk-in Step Vans, Various Sizes

<b>Specification Requirements</b> <b>Category 2: Walk in Step Van, 19,000 Lb. GVWR</b>	<b>Check If Meet or Exceeds</b>	<b>Describe Offered Alternatives</b>
<b>IV. <u>General:</u></b>	X	
<ol style="list-style-type: none"> <li>1. The intent of this specification is to describe the minimum requirements for walk in step vans. Purchases must be made with a prime contractor offering a "turn-key" vehicle complete with interior cabinetry, emergency lighting and other equipment (if selected) from the Options section (see Category 4).</li> <li>2. The contractor will be responsible to work with sub-contractors to complete orders (if needed). The warranty for the complete vehicle will be administered by the main contractor, who will in turn contact the sub-contractor (if needed) and</li> </ol>	X	



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c. 10 minute automatic engine shut-down except when in PTO (Fast Idle) mode.	X	
d. 200 amp heavy duty pad mounted alternator.	X	
e. Two group 31 heavy duty 12-volt high cycle batteries rated 1,340 CCA.	X	
f. Automatic shut-down for low oil pressure, low coolant and high coolant temperature.	X	
g. Horizontal exhaust and after-treatment system. <b>RH mounted 10-gallon diesel exhaust fluid tank (if EPA10 certified or newer).</b>	X	
h. Exhaust tailpipe exiting to right side ahead of rear wheels.	X	
i. Fuel water separator with heating element.	X	
j. Dry air cleaner with restriction indicator.	X	
k. Forward mounted oil dipstick and transmission fill tubes.	X	
l. Minimum 680 Sq. In. radiator with plastic surge tank to visually see coolant level.	X	
m. On/Off type electric engine fan clutch.	X	
n. Ethylene Glycol coolant, pre-mixed with SCA (corrosion inhibitor). 50/50 mix rated -35 degrees F.	X	
o. Electric cold-start air intake heater.	X	
p. Heavy duty starter with tungsten contacts and ground stud, "Denso" brand (or equal).	X	

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<p><b>2. <u>Transmission and Equipment</u></b></p>	<p style="text-align: center;">X</p>	
<p>a. Allison 1000RDS 5-speed automatic transmission with parking pawl.</p>	<p style="text-align: center;">X</p>	
<p>b. Synthetic transmission fluid, factory fill, approved by Allison. The dipstick/fill tube shall have a tag showing the brand and type of fluid.X</p>	<p style="text-align: center;">X</p>	
<p>c. Interface wiring to access neutral signal and PTO functions. Chassis components located to allow installation of a PTO and direct mount pump.</p>	<p style="text-align: center;">X</p>	
<p>d. Allison programmed to package #360.</p>	<p style="text-align: center;">X</p>	
<p>e. T-handle shift selector mounted to right side of steering column on dash with park brake "P" position.</p>	<p style="text-align: center;">X</p>	
<p>f. Water-to-Oil transmission heat exchanger (oil cooler).</p>	<p style="text-align: center;">X</p>	
<p><b>3. <u>Front Axle and Equipment</u></b></p>	<p style="text-align: center;">X</p>	
<p>a. 8,000 Lb. rated I-beam</p>	<p style="text-align: center;">X</p>	
<p>b. 50 degree wheel-cut angle for maximum maneuverability.</p>	<p style="text-align: center;">X</p>	
<p>c. Hydraulic pin-slide disc front brakes. Non-asbestos pads.</p>	<p style="text-align: center;">X</p>	
<p>d. Grease type wheel seals.</p>	<p style="text-align: center;">X</p>	
<p>e. Power steering rated to axle capacity. 2-quart reservoir with filter and dipstick located outboard the frame rail for easy access.</p>	<p style="text-align: center;">X</p>	
<p>f. 7,000 Lb. front leaf springs with rubber bushings, mounted outboard frame rails for maximum stability.</p>	<p style="text-align: center;">X</p>	
<p>g. Front sway bar and shock absorbers.</p>	<p style="text-align: center;">X</p>	

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<p><b>4. <u>Rear Axle and Equipment</u></b></p>	<p style="text-align: center;">X</p>	
<p>a. 12,000 Lb. (or greater) single speed.</p>	<p style="text-align: center;">X</p>	
<p>b. Axle ratio to provide 55 MPH at 80% of engine maximum horsepower RPM.</p>	<p style="text-align: center;">X</p>	
<p>c. Automatic traction locking differential. ("Trac-Tech" or equal)</p>	<p style="text-align: center;">X</p>	
<p>d. 1710 or 70 series main driveline with safety loops.</p>	<p style="text-align: center;">X</p>	
<p>e. Synthetic gear lube as approved by axle manufacturer with tag located at the oil fill plug.</p>	<p style="text-align: center;">X</p>	
<p>f. Hydraulic pin-slide disc rear brakes. Non-asbestos pads.</p>	<p style="text-align: center;">X</p>	
<p>g. Transmission mounted drum style parking brake.</p>	<p style="text-align: center;">X</p>	
<p>h. Parking brake control mounted on dash to left side of steering column with indicator light in instrument panel.</p>	<p style="text-align: center;">X</p>	
<p>i. Oil type rear wheel seals.</p>	<p style="text-align: center;">X</p>	
<p>j. 12,000 Lb. rear leaf suspension.</p>	<p style="text-align: center;">X</p>	
<p>k. Rear sway bar and shock absorbers.</p>	<p style="text-align: center;">X</p>	
<p><b>5. <u>Brake System</u></b></p>	<p style="text-align: center;">X</p>	
<p>a. Hydraulic 4-sensor, 4-module (4S/4M) antilock system without automatic traction control.</p>	<p style="text-align: center;">X</p>	
<p><b>6. <u>Wheelbase and Frame</u></b></p>	<p style="text-align: center;">X</p>	
<p>a. 158 in. wheelbase with adequate frame overhang for 14 Ft. van body.</p>	<p style="text-align: center;">X</p>	
<p>b. ¼" x 3" x 8" continuous straight channel 50,000 PSI steel rails.</p>	<p style="text-align: center;">X</p>	

<p align="center"><b>Specification Requirements</b></p> <p align="center"><b>Category 2: Walk in Step Van, 19,000 Lb. GVWR</b></p>	<p align="center"><b>Check If Meet or Exceeds</b></p>	<p align="center"><b>Describe Offered Alternatives</b></p>
c. 6.8 In. frame extension so bumper is ahead of grille for maximum protection.	X	
d. 11 In. "C" channel front bumper with contoured ends.	X	
e. Two front frame mounted tow hooks.	X	
f. Frame provisions for generator.	X	
g. Frame pre-drilled for body supports.	X	
<b>7. <u>Fuel Tank and Equipment</u></b>	X	
a. <b>40</b> gallon, (compatible with bio-diesel) fuel tank located forward and outboard on <b>left</b> frame rail.	X	
b. Fuel/water separator with electric heat and water-in-fuel indicator light on dash. Davco model 382 (or equal).	X	
c. Spare fuel supply and return ports in fuel tank for generator.	X	
<b>8. <u>Tires and Wheels</u></b>	X	
a. Size: 225/70R19.5, 12 or 14 Ply	X	
b. Type: Steel belted radial	X	
c. Front: (2) highway rib with tread and sidewalls rated for Urban Service.	X	
d. Rear: (4) traction tread rated for Urban Service.	X	
e. Wheels: (6) 19.5" x 6.75" 8-stud hub piloted steel 5-hand disc.	X	
f. Hubs: Steel	X	
g. Spare Tire and Wheel: None	X	

<p style="text-align: center;"><b>Specification Requirements</b></p> <p style="text-align: center;"><b>Category 2: Walk in Step Van, 19,000 Lb. GVWR</b></p>	<p style="text-align: center;"><b>Check If Meet or Exceeds</b></p>	<p style="text-align: center;"><b>Describe Offered Alternatives</b></p>
<p><b>9. Cab and Miscellaneous Equipment</b></p>	<p style="text-align: center;">X</p>	
<p>a. Dual electric horns.</p>	<p style="text-align: center;">X</p>	
<p>b. Factory A/C compressor and 5/8" heater lines for body manufacturer installed HVAC system.</p>	<p style="text-align: center;">X</p>	
<p>c. Double-sided heavy duty ignition keys. Five keys per vehicle.</p>	<p style="text-align: center;">X</p>	
<p>d. Ignition switch with accessory position.</p>	<p style="text-align: center;">X</p>	
<p>e. Chassis power distribution panel with circuit breakers (in-lieu-of fuses).</p>	<p style="text-align: center;">X</p>	
<p>f. Adjustable tilting steering column.</p>	<p style="text-align: center;">X</p>	
<p>g. 4-spoke "soft-feel" steering wheel.</p>	<p style="text-align: center;">X</p>	
<p>h. Electric back-up alarm, 97 decibels or greater.</p>	<p style="text-align: center;">X</p>	
<p>i. Cruise control switches on dash to <b>left or right</b> side of steering column.</p>	<p style="text-align: center;">X</p>	
<p>j. Instruments and controls:</p>	<p style="text-align: center;">X</p>	
<ul style="list-style-type: none"> <li>• Speedometer</li> </ul>	<p style="text-align: center;">X</p>	
<ul style="list-style-type: none"> <li>• Tachometer</li> </ul>	<p style="text-align: center;">X</p>	
<ul style="list-style-type: none"> <li>• Oil Pressure Gauge</li> </ul>	<p style="text-align: center;">X</p>	
<ul style="list-style-type: none"> <li>• Engine Temperature Gauge</li> </ul>	<p style="text-align: center;">X</p>	
<ul style="list-style-type: none"> <li>• Transmission Temperature Gauge</li> </ul>	<p style="text-align: center;">X</p>	
<ul style="list-style-type: none"> <li>• Fuel Level Gauge</li> </ul>	<p style="text-align: center;">X</p>	
<ul style="list-style-type: none"> <li>• Engine Hour Display or Hour Meter</li> </ul>	<p style="text-align: center;">X</p>	

<p align="center"><b>Specification Requirements</b></p> <p align="center"><b>Category 2: Walk in Step Van, 19,000 Lb. GVWR</b></p>	<p align="center"><b>Check If Meet or Exceeds</b></p>	<p align="center"><b>Describe Offered Alternatives</b></p>
<ul style="list-style-type: none"> <li>• LCD Display linked to J1939 Data Bus for fault codes.</li> </ul>	X	
<ul style="list-style-type: none"> <li>• Volt Meter Display or Gauge</li> </ul>	X	
<ul style="list-style-type: none"> <li>• Self-Cancel Turn Signal Switch</li> </ul>	X	
<p><b>10. <u>Chassis Warranty</u></b></p>	X	
<p>a. Complete Chassis, including starter and alternator: 3 Years/50,000 Miles</p>	X	
<p>b. Engine: 3 Years/50,000 Miles</p>	X	
<p>c. Allison Transmission: 3 Years/50,000 Miles</p>	X	
<p>d. Batteries: 1 Years/50,000 Miles</p>	X	
<p>e. Towing Coverage: 3 Years/50,000 Miles</p>	X	
<p>f. All warranties are for 100% parts and labor during the specified time or mileage limits.</p>	X	
<p>g. Bidder shall include manufacturer's warranty statements in this IFB. The statements must list "What Is Not Covered" or "Exclusions".</p>	X	
<p><b>VI. <u>Walk-In Van Body (Aluminum)</u></b></p>	X	
<p><b>1. <u>Dimensions</u></b></p>	X	
<p>a. Cargo Floor Length: 168 In. (14 Ft.)</p>	X	
<p>b. Interior Height: 85 In. (Floor to ceiling).</p>	X	
<p>c. Interior Width: 86.5 In. (Outside skin to outside skin, aft of front door pockets.)</p>	X	
<p>d. Useable Interior Width: 81 In. (Inside Wall to Wall)</p>	X	

<p align="center"><b>Specification Requirements</b></p> <p align="center"><b>Category 2: Walk in Step Van, 19,000 Lb. GVWR</b></p>	<p align="center"><b>Check If Meet or Exceeds</b></p>	<p align="center"><b>Describe Offered Alternatives</b></p>
<p><b>2. <u>Documentation</u></b></p>	<p align="center">X</p>	
<p>a. Drawings, printed on ANSI size B and also in CAD electronic format (universal exchange *.dxf) on CD R/W, showing the exterior and interior body and chassis details shall be submitted with this IFB, including:</p> <p>b. Exterior front, rear, left and right side views showing height, width, length, location of body stiffeners, lighting, mirrors, windows, step and bumper height. Show with full width roll-up rear door.</p> <p>c. Interior front, rear, left and right side views showing support structure, interior side walls and cabinet support hardware, bulkhead with sliding door, front seats, work table and storage, useable inside dimensions, and sliding door pockets. Also show interior lighting.</p> <p>d. Front, top and side views of Options including rear door variances, cabinets, work benches, generator compartment, side boxes, etc. showing height, width and depth and also drawer and shelf dimensions of the cabinets, as called out in the Options section of this IFB.</p> <p>e. None of the above drawings need to have the detail for actual construction of the vehicle or cabinets, but are intended to allow the purchaser to determine the external clearances, interior layout and space available when selecting items from the Option section when ordering each vehicle.</p> <p>f. As built wiring diagram for all added or custom components</p>	<p align="center">X</p> <p align="center">X</p> <p align="center">X</p> <p align="center">X</p> <p align="center">X</p>	

<p align="center"><b>Specification Requirements</b></p> <p align="center"><b>Category 2: Walk in Step Van, 19,000 Lb. GVWR</b></p>	<p align="center"><b>Check If Meet or Exceeds</b></p>	<p align="center"><b>Describe Offered Alternatives</b></p>
	X	
<p><b>3. <u>Cab Doors</u></b></p>	X	
<p>a. Sliding type left and right</p>	X	
<p>b. Roll-down windows left and right</p>	X	
<p>c. Fixed wing windows between doors and front "A" pillar.</p>	X	
<p>d. .100 aluminum door pockets.</p>	X	
<p>e. "Kason" (or equal) sliding door latches.</p>	X	
<p>f. "Kason" (or equal) #3412 Key-to-lock exterior handles. (Not push-to-lock). Chrome or black powder coated finish.</p>	X	
<p>g. Keyed to rear door(s).</p>	X	
<p>h. Five door keys per vehicle.</p>	X	
<p><b>4. <u>Rear Door(s)</u></b></p>	X	
<p>a. Full width roll-up.</p>	__X__	
<p>b. Aluminum clad panels, white top coat.</p>	__X__	
<p>c. <b>Galvanized</b> steel door hardware.</p>	__X__	

<p align="center"><b>Specification Requirements</b></p> <p align="center"><b>Category 2: Walk in Step Van, 19,000 Lb. GVWR</b></p>	<p align="center"><b>Check If Meet or Exceeds</b></p>	<p align="center"><b>Describe Offered Alternatives</b></p>
<p>d. Center mounted rear door latch with two-point cable or rod controlled side latches and inside door release handle. Center latch and handle shall be "Kason" (or equal) #0168-01 latch, #0168S outside handle and #1600 inside handle. Keyed to front doors (no exception.) Chrome or black powder coated exterior handle finish.</p>	<p align="center">X</p>	
<p>e. Door windows: None</p>	<p align="center">__X__</p>	
<p><b>5. Seating</b></p>	<p align="center">X</p>	
<p>a. Driver seat:</p> <ul style="list-style-type: none"> <li>• High back, Standard Bucket Seats</li> <li>• Dual arm rests</li> <li>• Heavy duty dark gray or black cloth covering, such as "DuPont Cordura", or equal.</li> <li>• <b>Seats Inc. 200 series mechanical suspension (or equal)</b></li> <li>• Non-tilting seat base</li> <li>• 3-point black lap-shoulder belt system with retractor.</li> </ul>	<p align="center">__X__</p> <p align="center">__X__</p> <p align="center">__X__</p> <p align="center">__X__</p>	
<p>b. Passenger seat:</p> <ul style="list-style-type: none"> <li>• High back, Standard Bucket Seats</li> <li>• Dual arm rests</li> <li>• Heavy duty dark gray or black cloth covering, such as "DuPont Cordura", or equal.</li> </ul>	<p align="center">__X__</p> <p align="center">__X__</p>	

<p style="text-align: center;"><b>Specification Requirements</b></p> <p style="text-align: center;"><b>Category 2: Walk in Step Van, 19,000 Lb. GVWR</b></p>	<p style="text-align: center;"><b>Check If Meet or Exceeds</b></p>	<p style="text-align: center;"><b>Describe Offered Alternatives</b></p>
<ul style="list-style-type: none"> <li>• <b>Seats Inc. 200 series mechanical suspension (or equal)</b></li> <li>• Non-tilting seat base</li> <li>• 3-point black lap-shoulder belt system with retractor.</li> </ul>	<p style="text-align: center;">X</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">__X__</p> <p style="text-align: center;">__X__</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">__X__</p>	<p>_____</p>
<p><b>6. Bulkhead</b></p>		
<p>a. Aluminum with center mounted sliding door.</p>	<p style="text-align: center;">__X__</p>	
<p>b. <b>Blandex</b> core for bulkhead and sliding door for stiffening.</p>	<p style="text-align: center;">__X__</p>	
<p>c. Carpet or sound absorbing material on the forward side of the bulkhead.</p>	<p style="text-align: center;">__X__</p>	
<p>d. "Kason" (or equal) sliding door latch. (Non-locking)</p>	<p style="text-align: center;">__X__</p>	
<p>e. "Kason" (or equal) non-locking door handle and interior handle.</p>	<p style="text-align: center;">__X__</p>	
<p>f. Bulkhead positioned at forward cargo "0" line. (Important Note: This location will vary among the vehicles to be ordered and is called out in the Options section.)</p>	<p style="text-align: center;">__X__</p>	
<p><b>7. Driver Area Equipment</b></p>		
<p>a. Electric windshield wipers (single motor) with intermittent control.</p>	<p style="text-align: center;">__X__</p>	
<p>b. Sound absorbing (closed cell urethane) full width floor mat with rubber top surface, approximately ½" thick. Metal nosing at exposed edges.</p>	<p style="text-align: center;">__X__</p>	

<p align="center"><b>Specification Requirements</b></p> <p align="center"><b>Category 2: Walk in Step Van, 19,000 Lb. GVWR</b></p>	<p align="center"><b>Check If Meet or Exceeds</b></p>	<p align="center"><b>Describe Offered Alternatives</b></p>
<p>c. Diesel sound reduction “package” on firewall and engine access cover.</p>	<p align="center">__X__</p>	
<p>d. Dual (left and right) cup holders</p>	<p align="center">__X__</p>	
<p>e. AM/FM radio with two speakers and side mounted rubber antenna.</p>	<p align="center">__X__</p>	
<p>f. Dual sun visors.</p>	<p align="center">__X__</p>	
<p><b>8. <u>Cab Storage and Work Tables</u></b></p>		
<p>a. Full width overhead shelf without doors.</p>	<p align="center">__X__</p>	
<p>b. Work table extending from instrument panel to right side with 1 In. lip.</p>	<p align="center">__X__</p>	
<p>c. Pocket on face of engine cover.</p>	<p align="center">__X__</p>	
<p><b>9. <u>Interior Lighting</u></b></p>	<p align="center">X</p>	
<p>a. Cab domes: <b>One 18-In. LED, centered.</b></p>	<p align="center">__X__</p>	
<p>b. Cargo domes: <b>Three 18-In. LED recessed in the roof down center.</b></p>	<p align="center">__X__</p>	
<p>c. Switches for front and rear domes located on instrument panel. Additional switch at right rear cargo door post for cargo dome lights.</p>	<p align="center">_X__</p>	
<p><b>10. <u>Roof</u></b></p>	<p align="center">X</p>	
<p>a. Aluminum roof or Composite, .040, seamless.</p>	<p align="center">__X__</p>	
<p>b. Roof bows on 8 In. centers (except at roof vent).</p>	<p align="center">__X__</p>	
<p>c. Roof bows attached to roof with industrial adhesive to reduce noise.</p>	<p align="center">__X__</p>	
<p>d. 12-volt power roof vent and skylight assembly located in the center (approximately) of the cargo area. <b>Shall include a Maxxair roof vent cover.</b></p>	<p align="center">__X__</p>	

<p style="text-align: center;"><b>Specification Requirements</b></p> <p style="text-align: center;"><b>Category 2: Walk in Step Van, 19,000 Lb. GVWR</b></p>	<p style="text-align: center;"><b>Check If Meet or Exceeds</b></p>	<p style="text-align: center;"><b>Describe Offered Alternatives</b></p>
<p>e. Interior roof liner, .022 embossed finish with insulation (R4).</p>	<p style="text-align: center;">__X__</p>	
<p><b>11. <u>Floor</u></b></p>		
<p>a. Extruded aluminum interlocking plank construction.</p>	<p style="text-align: center;">__X__</p>	
<p>b. Diamond aluminum tread plate down center isle and full width from wheel boxes to end of cargo area. Tread plate plug welded to the floor for noise reduction.</p>	<p style="text-align: center;">__X__</p>	
<p>c. Access panel in floor for fuel tank sending unit.</p>	<p style="text-align: center;">__X__</p>	
<p><b>12. <u>Side and Rear Walls</u></b></p>	<p style="text-align: center;">X</p>	
<p>a. Aluminum exterior side panels, .125 upper and lower sheets.</p>	<p style="text-align: center;">__X__</p>	
<p>b. Heavy duty 1.5 In. deep wall studs placed on 24 In. centers aft of the door pockets.</p>	<p style="text-align: center;">__X__</p>	
<p>c. <b>5/8 thick plywood or particle board with durable white composite covering or vinyl covering. Equal to Chemlite.</b></p>	<p style="text-align: center;">__X__</p>	
<p>d. 2 In. foam (polystyrene) or fiberglass insulation between the wall studs. If foam panels are used, then they must be glued to the exterior wall for noise control.</p>	<p style="text-align: center;">__X__</p>	
<p><b>13. <u>Rear Bumper</u></b></p>	<p style="text-align: center;">X</p>	
<p>a. 12 In. deep with open grate surface.</p>	<p style="text-align: center;">__X__</p>	
<p>b. Class IV 2 1/2" receiver hitch integrated with bumper.</p>	<p style="text-align: center;">__X__</p>	
<p>c. 7-way receptacle wired for 2-light trailer. (Red is open, green and yellow are assigned to stop and turn.) Blue is ignition power for charging trailer battery. Brown is tail. Black is marker.</p>	<p style="text-align: center;">__X__</p>	
<p>d. Electric Brake Control: (see options)</p>	<p style="text-align: center;">__X__</p>	

<p style="text-align: center;"><b>Specification Requirements</b></p> <p style="text-align: center;"><b>Category 2: Walk in Step Van, 19,000 Lb. GVWR</b></p>	<p style="text-align: center;"><b>Check If Meet or Exceeds</b></p>	<p style="text-align: center;"><b>Describe Offered Alternatives</b></p>
<p><b>14. <u>Body Exterior</u></b></p>	<p style="text-align: center;">X</p>	
<p>a. Windshield: Tinted and bonded.</p>	<p style="text-align: center;">_X_</p>	
<p>b. Cab mirrors: "Velvac" (or equal) <b>Revolution mid-sized</b> 4-way power adjustable and heated mirrors on single pod mounted <b>fixed</b> arms with integral convex sections. <b>Mirrors to be positioned to see a minimum of 200 ft. down the road.</b></p>	<p style="text-align: center;">_X_</p>	
<p>c. Rear cross view mirror: 10 In. convex on pod mounted swing arm.</p>	<p style="text-align: center;">_X_</p>	
<p>d. Grab handles:</p> <ul style="list-style-type: none"> <li>• Two front 18 In. aluminum located at forward door post approximately 72 In. from ground.</li> <li>• Two rear 18 In. aluminum located at rear door posts approximately 72 In. from ground.</li> </ul>	<p style="text-align: center;">_X_</p>	
<p><b>15. <u>Hood and Front Bumper</u></b></p>	<p style="text-align: center;">X</p>	
<p>a. Composite lift up hood with gas support struts.</p>	<p style="text-align: center;">_X_</p>	
<p>b. Protection screen located behind the grille bars. (installed by dealer)</p>	<p style="text-align: center;">_X_</p>	
<p>c. Chassis manufacturer supplied front bumper.</p>	<p style="text-align: center;">_X_</p>	
<p><b>16. <u>Paint and Decals</u></b></p>	<p style="text-align: center;">X</p>	
<p>a. Polyurethane single stage paint, DuPont Imron 5000 (or equal), #N0006HN Arctic White (or equal).</p>	<p style="text-align: center;">_X_</p>	
<p><b>17. <u>Exterior Lighting</u></b></p>	<p style="text-align: center;">X</p>	
<p>a. Headlamps: Halogen</p>	<p style="text-align: center;">_X_</p>	

<p align="center"><b>Specification Requirements</b></p> <p align="center"><b>Category 2: Walk in Step Van, 19,000 Lb. GVWR</b></p>	<p align="center"><b>Check If Meet or Exceeds</b></p>	<p align="center"><b>Describe Offered Alternatives</b></p>
<p>b. Daytime Running Lights: No</p>	<p align="center">__X__</p>	
<p>c. LED Lighting, Includes:</p> <ul style="list-style-type: none"> <li>• Front and Rear tail, turn/stop lamps</li> <li>• Marker and ID lights</li> <li>• Back-up lights</li> </ul>	<p align="center">__X__</p>	
<p>d. Mid-side (aft of door pocket) amber turn signal. (Located in the body skirt below the floor.)</p>	<p align="center">__X__</p>	
<p>e. Rear license plate lamps (LED) with center mounted front and rear license plate holders.</p>	<p align="center">__X__</p>	
<p><b>18. <u>HVAC</u></b></p>	<p align="center">X</p>	
<p>a. Factory installed cab heater, defroster and air conditioning system.</p>	<p align="center">__X__</p>	
<p>b. Ducting and/or louvers for driver and passenger sides.</p>	<p align="center">__X__</p>	
<p><b>19. <u>Electrical and Miscellaneous</u></b></p>	<p align="center">X</p>	
<p>a. Two 12-volt cigar lighter style receptacles in dash for cell phones, etc.</p> <p>b. Rubber fender flares and mud flaps</p>	<p align="center">__X__</p> <p align="center">__X__</p>	
<p><b>20. <u>Warranty</u></b></p>	<p align="center">X</p>	
<p>a. Basic coverage: 12 months or 12,000 miles.</p>	<p align="center">__X__</p>	
<p>b. Body Structure, hood and main panels: 60 months or 50,000 miles.</p>	<p align="center">__X__</p>	
<p>c. The bidder shall include the manufacturer's warranty statement including "What Is Not Covered" or "Exclusions" in this IFB.</p>	<p align="center">__X__</p>	
<p>d. Warranties are for 100% parts and labor during the specified time or mileage</p>	<p align="center">__X__</p>	

Specification Requirements	Check If Meet or Exceeds	Describe Offered Alternatives
<b>Category 2: Walk in Step Van, 19,000 Lb. GVWR</b>  limits.		

### Category 3 Specifications – Walk-in Step Van, 25,500 lb GVWR

#### Invitation for Bid 00814 – Walk-in Step Vans, Various Sizes

Specification Requirements	Check If Meet or Exceed	Describe Offered Alternatives
<b>Category 3: Walk in Step Van, 25,500 Lb. GVWR</b>		
<b>I. General:</b>	X	
<p><b>21.</b> The intent of this specification is to describe the minimum requirements for walk in step vans. Purchases must be made with a prime contractor offering a “turn-key” vehicle complete with interior cabinetry, emergency lighting and other equipment (if selected) from the Options section (see Category 4).</p> <p><b>22.</b> The contractor will be responsible to work with sub-contractors to complete orders (if needed). The warranty for the complete vehicle will be administered by the main contractor, who will in turn contact the sub-contractor (if needed) and make sure the repairs are done in a timely manner. Purchases are expected to be of several sizes and configurations to fit the immediate and future needs of customers.</p> <p><b>23.</b> Bidders must bid on Categories 1, 2, 3 and 5 to be responsive. While bidders do not bid on Category 4, bidder pricing will be checked for reasonableness. If the contractor intends to supply an equal brand or model number other than what is called for in this specification, indicate this in the bid to make sure that there is not a conflict with their fleet and parts standardization program.</p>	X	

<p align="center"><b>Specification Requirements</b></p> <p align="center"><b>Category 3: Walk in Step Van, 25,500 Lb. GVWR</b></p>	<p align="center"><b>Check If Meet or Exceed</b></p>	<p align="center"><b>Describe Offered Alternatives</b></p>
	<p align="center">X</p> <p align="center">X</p>	
<p><b>II. <u>Stripped Van Chassis</u></b></p>	<p align="center">X</p>	
<p><b>1. <u>Engine and Equipment</u></b></p>	<p align="center">X</p>	
<p>a. In-line six cylinder, minimum 6.7 Liter displacement, seven main bearings, turbocharged and after-cooled diesel rated 220 Gross Horsepower and 520 Lb./ Ft. Gross Torque. Meets <b>2010</b> Federal EPA regulations (or newer).</p>	<p align="center">X</p>	
<p>b. Cummins turbo brake</p>	<p align="center">X</p>	
<p>c. PTO (Fast Idle) set for <b>1,000</b> RPM using cab cruise control set switch.</p>	<p align="center">X</p>	
<p>d. 10 minute automatic engine shut-down except when in PTO (Fast Idle) mode.</p>	<p align="center">X</p>	
<p>e. 200 amp heavy duty pad mounted alternator with heavy duty wiring harness .</p>	<p align="center">X</p>	
<p>f. Two group 31 heavy duty 12-volt high cycle batteries rated 1,340 CCA.</p>	<p align="center">X</p>	
<p>g. Automatic shut-down for low oil pressure, low coolant and high coolant temperature.</p>	<p align="center">X</p>	
<p>h. Horizontal exhaust system.</p>	<p align="center">X</p>	
<p>i. Exhaust tailpipe exiting to <b>right</b> side ahead of rear wheels.</p>	<p align="center">X</p>	
<p>j. Fuel water separator with heating element.</p>	<p align="center">X</p>	
<p>k. Dry air cleaner with restriction indicator.</p>	<p align="center">X</p>	

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<p>l. Forward mounted oil dipstick and transmission fill tubes.</p>	<p style="text-align: center;">X</p>	
<p>m. 680 Sq. In. radiator with plastic surge tank to visually see coolant level.</p>	<p style="text-align: center;">X</p>	
<p>n. On/Off type electric engine fan clutch.</p>	<p style="text-align: center;">X</p>	
<p>o. Ethylene Glycol coolant, pre-mixed with SCA (corrosion inhibitor). 50/50 mix rated -35 degrees F.</p>	<p style="text-align: center;">X</p>	
<p>p. Gates "Blue Stripe" main coolant hoses.</p>	<p style="text-align: center;">X</p>	
<p>q. Electric cold-start air intake heater.</p>	<p style="text-align: center;">X</p>	
<p>r. Heavy duty starter with tungsten contacts and ground stud, "Denso" brand (or equal).</p>	<p style="text-align: center;">X</p>	
<p>s. Engine block heater wired to shore power receptacle with switch for summer use.</p>	<p style="text-align: center;">X</p>	
<p><b>2. <u>Transmission and Equipment</u></b></p>	<p style="text-align: center;">X</p>	
<p>a. Allison 2200RDS 5-speed automatic transmission.</p>	<p style="text-align: center;">X</p>	
<p>b. Synthetic transmission fluid, factory fill, approved by Allison. The dipstick/fill tube shall have a tag showing the brand and type of fluid.X</p>	<p style="text-align: center;">X</p>	
<p>c. Interface wiring to access neutral signal and PTO functions. Chassis components located to allow installation of PTO with direct mounted hydraulic pump.</p>	<p style="text-align: center;">X</p>	
<p>d. Allison programmed to package #360.</p>	<p style="text-align: center;">X</p>	
<p>e. T-handle shift selector mounted to right side of steering column on dash with park brake "P" position.</p>	<p style="text-align: center;">X</p>	
<p>f. Water-to-Oil transmission heat exchanger (oil cooler).</p>	<p style="text-align: center;">X</p>	

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<p><b>3. <u>Front Axle and Equipment</u></b></p>	<p style="text-align: center;">X</p>	
<p>a. 8,000 Lb. rated I-beam</p>	<p style="text-align: center;">X</p>	
<p>b. 50 degree wheel-cut angle for maximum maneuverability.</p>	<p style="text-align: center;">X</p>	
<p>c. 15" x 5" drum front brakes. Non-asbestos pads.</p>	<p style="text-align: center;">X</p>	
<p>d. Grease type wheel seals.</p>	<p style="text-align: center;">X</p>	
<p>e. Power steering rated to axle capacity. 2-quart reservoir with filter and dipstick located outboard the frame rail for easy access.</p>	<p style="text-align: center;">X</p>	
<p>f. 8,000 Lb. front leaf springs with rubber bushings.</p>	<p style="text-align: center;">X</p>	
<p>g. Front shock absorbers.</p>	<p style="text-align: center;">X</p>	
<p><b>4. <u>Rear Axle and Equipment</u></b></p>	<p style="text-align: center;">X</p>	
<p>a. 17,500 Lb. (or greater) single speed.</p>	<p style="text-align: center;">X</p>	
<p>b. Axle ratio to provide 55 MPH at 80% of engine maximum horsepower RPM.</p>	<p style="text-align: center;">X</p>	
<p>c. Automatic traction locking differential. ("Trac-Tech" or equal)</p>	<p style="text-align: center;">X</p>	
<p>d. 1710 or 70 series main driveline with safety loops.</p>	<p style="text-align: center;">X</p>	
<p>e. Synthetic gear lube as approved by axle manufacturer with tag located at the oil fill plug.</p>	<p style="text-align: center;">X</p>	
<p>f. 15" x 8.62" drum rear brakes. Non-asbestos pads.</p>	<p style="text-align: center;">X</p>	
<p>g. Rear axle mounted piggyback style spring parking brakes.</p>	<p style="text-align: center;">X</p>	
<p>h. Parking brake control mounted on dash to right side of steering column with indicator light in instrument panel. Transmission control will apply parking brakes when in the "P" position.</p>	<p style="text-align: center;">X</p>	

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i. Oil type rear wheel seals.	X	
j. 18,000 Lb. rear air suspension.	X	
k. Rear shock absorbers.	X	
<b>5. <u>Brake System</u></b>	X	
a. Full air, 4-sensor, 4-module (4S/4M) antilock system without automatic traction control.	X	
<b>6. <u>Wheelbase and Frame</u></b>	X	
a. Wheelbase to provide adequate frame overhang for 16 Ft. van body.	X	
b. 5/16" x 3" x 10" continuous straight channel 50,000 PSI steel rails.	X	
c. 6.8 to 7.7 In. frame extension so bumper is ahead of grille for maximum protection.	X	
d. 11 In. "C" channel front bumper with contoured ends.	X	
e. Two front frame mounted tow hooks.	X	
f. Frame provisions for generator.	X	
g. Frame pre-drilled for body supports.	X	
<b>7. <u>Fuel Tank and Equipment</u></b>	X	
a. 60 gallon, (compatible with bio-diesel) fuel tank located between the frame rails.	X	
b. Fuel tank sender access cover in floor covered in rubber diamond plate overlay.	X	
c. Fuel/water separator with electric heat and water-in-fuel indicator light on dash. Davco model 382 (or equal).	X	
d. Spare fuel supply and return ports in fuel tank for generator.	X	
<b>8. <u>Tires and Wheels</u></b>	X	

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a. Size: 245/70R19.5, 14 or 16 Ply	X	
b. Type: Steel belted radial	X	
c. Front: (2) highway rib with tread and sidewalls rated for Urban Service.	X	
d. Rear: (4) traction tread rated for Urban Service.	X	
e. Wheels: (6) 19.5" x 7.50" 8-stud hub piloted steel 5-hand disc.	X	
f. Hubs: Steel	X	
g. Full size spare Tire and Wheel:	X	
<b>9. Cab and Miscellaneous Equipment</b>	X	
a. Dual electric horns.	X	
b. Factory A/C compressor and 5/8" heater lines for body manufacturer installed HVAC system.	X	
c. Double-sided heavy duty ignition keys. Five keys per vehicle.	X	
d. Ignition switch with accessory position.	X	
e. Chassis power distribution panel with circuit breakers (in-lieu-of fuses).	X	
f. Adjustable tilting steering column.	X	
g. 4-spoke "soft-feel" steering wheel.	X	
h. Electric back-up alarm, 97 decibels or greater.	X	
i. Cruise control switches on dash to right side of steering column.	X	
j. Instruments and controls:	X	
<ul style="list-style-type: none"> <li>• Speedometer</li> </ul>	X	
<ul style="list-style-type: none"> <li>• Tachometer</li> </ul>	X	

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<ul style="list-style-type: none"> <li>• Oil Pressure Gauge</li> </ul>	X	
<ul style="list-style-type: none"> <li>• Engine Temperature Gauge</li> </ul>	X	
<ul style="list-style-type: none"> <li>• Transmission Temperature Gauge</li> </ul>	X	
<ul style="list-style-type: none"> <li>• Fuel Level Gauge</li> </ul>	X	
<ul style="list-style-type: none"> <li>• Engine Hour Display or Hour Meter</li> </ul>	X	
<ul style="list-style-type: none"> <li>• LCD Display linked to J1939 Data Bus for fault codes.</li> </ul>	X	
<ul style="list-style-type: none"> <li>• Volt Meter Display or Gauge</li> </ul>	X	
<ul style="list-style-type: none"> <li>• Self-Cancel Turn Signal Switch</li> </ul>	X	
<p><b>10. <u>Chassis Warranty</u></b></p>	X	
<p>a. Complete Chassis, including starter and alternator: 3 Years/50,000 Miles</p>	X	
<p>b. Engine: 3 Years/50,000 Miles</p>	X	
<p>c. Allison Transmission: 3 Years/50,000 Miles</p>	X	
<p>d. Batteries: 1 Years/50,000 Miles</p>	X	
<p>e. Towing Coverage: 3 Years/50,000 Miles</p>	X	
<p>f. All warranties are for 100% parts and labor during the specified time or mileage limits.</p>	X	
<p>g. Bidder shall include manufacturers warranty statements in this IFB. The statements must list "What Is Not Covered" or "Exclusions".</p>	X	
<p><b>III. <u>Walk-In Van Body (Aluminum)</u></b></p>	X	





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<p>b. Fixed wing windows between doors and front "A" pillar.</p>	<p align="center">X</p>	
<p>c. Fixed lower left and right lower door windows.</p>	<p align="center">X</p>	
<p>d. .100 gauge aluminum door pockets.</p>	<p align="center">X</p>	
<p>e. "Kason" (or equal) sliding door latches.</p>	<p align="center">X</p>	
<p>f. "Kason" (or equal) #3412 Key-to-lock exterior handles. (Not push-to-lock). Chrome or black powder coated finish.</p>	<p align="center">X</p>	
<p>g. Keyed to rear door(s).</p>	<p align="center">X</p>	
<p>h. Five door keys per vehicle.</p>	<p align="center">X</p>	
<p><b>4. <u>Rear Door(s)</u></b></p>	<p align="center">X</p>	
<p>a. Standard 2 – panel center swing door , 40-in opening</p>	<p align="center">X</p>	
<p>b. Double door windows</p>	<p align="center">X</p>	
<p>c. Galvanized steel door hardware. Keyed to front doors (no exception.) latch and handle shall be "Kason" (or equal) chrome or black powder coated exterior handle finish.</p>	<p align="center">X</p>	
<p><b>5. <u>Seating</u></b></p>	<p align="center">X</p>	
<p>a. Driver seat:</p> <ul style="list-style-type: none"> <li>• High back, Standard Bucket Seat – Seats INC. 200</li> <li>• Dual arm rests</li> <li>• Heavy duty dark gray or black cloth covering, such as "DuPont Cordura", or equal.</li> <li>• <b>Mechanical suspension</b></li> <li>• Non-tilting seat base</li> <li>• 3-point High Visibility Orange lap-shoulder belt system with retractor.</li> </ul>	<p align="center">X</p> <p align="center">X</p> <p align="center">X</p>	<hr/> <hr/> <hr/>

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	<p>X</p> <p>X</p> <p>X</p>	<hr/> <hr/> <hr/>
<p>b. Passenger seat:</p> <ul style="list-style-type: none"> <li>• High back Standard Bucket Seats INC. 200</li>   <li>• Dual arm rests</li> <li>• Heavy duty dark gray or black cloth covering, such as "DuPont Cordura", or equal.</li> <li>• <b>Mechanical suspension</b></li> <li>• Non-tilting seat base</li> <li>• 3-point High Visibility Orange lap-shoulder belt system with retractor.</li> <li>• Passenger seat to be mounted in 8-1n. set-back location</li> </ul>	<p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p>	

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	X	
<p><b>6. <u>Bulkhead</u></b></p>	X	
<p>a. Aluminum with center mounted locking sliding door keyed to front doors.</p>	X	
<p>b. Window in sliding bulkhead door.</p>	X	
<p>c. Blandex lining for bulkhead and sliding door for stiffening.</p>	X	
<p>d. Carpet or sound absorbing material on the forward side of the bulkhead.</p>	X	
<p>e. "Kason" (or equal) sliding door latch.</p>	X	
<p>f. "Kason" (or equal) non-locking door handle and interior handle.</p>	X	
<p>g. Bulkhead positioned aft of door pocket to accommodate optional 3<sup>rd</sup> seat and locker installation. (Important Note: This location will vary among the vehicles to be ordered and is called out in the Additional Equipment,</p>	X	
<p><b>7. <u>Driver Area Equipment</u></b></p>	X	
<p>a. Electric windshield wipers (single motor) with intermittent control.</p>	X	
<p>b. Sound absorbing (closed cell urethane) full width floor mat with rubber top surface, approximately ½" thick. Metal nosing at exposed edges.</p>	X	
<p>c. Diesel sound reduction "package" on firewall and engine access cover.</p>	X	
<p>d. AM/FM radio with two speakers and side mounted rubber antenna.</p>	X	
<p>e. Dual (left and right) cup holders</p>	X	
<p>f. Dual sun visors.</p>	X	

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<p><b>8. <u>Cab Storage and Work Tables</u></b></p>	<p align="center">X</p>	
<p>a. Full width overhead shelf without doors.</p>	<p align="center">X</p>	
<p>b. Work table extending from instrument panel to right side with 1 In. lip.</p>	<p align="center">X</p>	
<p>c. Pocket on face of engine cover.</p>	<p align="center">X</p>	
<p><b>9. <u>Interior Lighting</u></b></p>	<p align="center">X</p>	
<p>a. Cab dome: <b>One 18-In. recessed LED rectangular light</b> with dash switch</p>	<p align="center">X</p>	
<p>b. Cargo domes: <b>Three 18-In. recessed LED rectangular lights equally spaced down center isle.</b></p>	<p align="center">X</p>	
<p>c. Switches for front and rear domes located on instrument panel. Additional switch at right rear cargo door post for cargo dome lights.</p>	<p align="center">X</p>	
<p><b>10. <u>Roof</u></b></p>	<p align="center">X</p>	
<p>a. Aluminum or Composite roof, .040 seamless.</p>	<p align="center">X</p>	
<p>b. Roof bows on 8 In. centers (except at roof vent).</p>	<p align="center">X</p>	
<p>c. Roof bows attached to roof with industrial adhesive to reduce noise.</p>	<p align="center">X</p>	
<p>d. 12-volt power roof vent and skylight assembly located in the center (approximately) of the cargo area.</p>	<p align="center">X</p>	
<p>e. Vent covers for 12-volt power roof vent.</p>	<p align="center">X</p>	
<p>f. Interior roof liner, .022 embossed finish with insulation (R4).</p>	<p align="center">X</p>	
<p><b>11. <u>Floor</u></b></p>	<p align="center">X</p>	
<p>a. Extruded aluminum interlocking plank construction.</p>	<p align="center">X</p>	
<p>b. Diamond aluminum tread plate down center isle and full width from wheel boxes</p>	<p align="center">X</p>	

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<p>to end of cargo area. Tread plate plug welded to the floor for noise reduction.</p>		
<p>c. Access panel in floor for fuel tank sending unit.</p>	X	
<p><b>12. <u>Side and Rear Walls</u></b></p>	X	
<p>a. Aluminum exterior side panels, .125 upper and lower sheets.</p>	X	
<p>b. Heavy duty 1.5 In. deep wall studs placed on 24 In. centers aft of the door pockets.</p>	X	
<p>c. 5/8 In. thick plywood with Kimlite covering (or equal). Boards with durable white covering may be provided if Power Struts are installed locally.</p>	X	
<p>d. 2 In. foam (polystyrene) or fiberglass insulation between the wall studs. If foam panels are used, then they must be glued to the exterior wall for noise control.</p>	X	
<p><b>13. <u>Rear Bumper</u></b></p>	X	
<p>a. 12 In. deep with open grate surface.</p>	X	
<p>b. Class IV 2 ½" receiver hitch integrated with rear bumper.</p>	X	
<p>c. 7-way receptacle wired for 2-light trailer. (Red is open, green and yellow are assigned to stop and turn.) Blue is ignition power for charging trailer battery. Brown is tail. Black is marker.</p>	X	
<p>d. Electric Brake Control: See options</p>	X	
<p><b>14. <u>Body Exterior</u></b></p>	X	
<p>a. Windshield: Tinted and bonded.</p>	X	
<p>b. Cab mirrors: "Velvac" (or equal) Revolution <b>medium profile</b> 4-way power adjustable and heated mirrors on single pod mounted fixed arms with integral convex sections.</p>	X	
<p>c. Rear cross view mirror: 10 In. convex on pod mounted swing arm.</p>	X	

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<p>d. Grab handles:</p> <ul style="list-style-type: none"> <li>• Two front 18 In. aluminum located at forward door post approximately 72 In. from ground.</li> <li>• Two rear 18 In. aluminum located at rear door posts approximately 72 In. from ground.</li> </ul>	<p><b>X</b></p>	
<p><b>15. <u>Hood and Front Bumper</u></b></p>	<p>X</p>	
<p>a. Composite lift up hood with gas support struts.</p>	<p>X</p>	
<p>b. Protection screen located behind the grille bars. (Dealer Installed)</p>	<p>X</p>	
<p>c. Chassis manufacturer supplied front bumper.</p>	<p>X</p>	
<p><b>16. <u>Paint and Decals</u></b></p>	<p>X</p>	
<p>a. Polyurethane single stage paint, DuPont Imron 5000 (or equal), #N0006HN Arctic White (or equal).</p>	<p>X</p>	
<p><b>17. <u>Exterior Lighting</u></b></p>	<p>X</p>	
<p>a. Headlamps: Halogen</p>	<p>X</p>	
<p>b. Daytime Running Lights: No</p>	<p>X</p>	
<p>c. LED Lighting, Includes:</p> <ul style="list-style-type: none"> <li>• Front and Rear tail, turn/stop lamps</li> <li>• Marker and ID lights</li> <li>• Back-up lights</li> </ul>	<p>X</p>	
<p>d. Mid-side (aft of door pocket in lower skirt) amber turn signal.</p>	<p>X</p>	
<p>e. Rear license plate lamps (LED) with center mounted front and rear license plate holders.</p>	<p>X</p>	
<p><b>18. <u>HVAC</u></b></p>	<p>X</p>	

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<p>a. Factory installed cab heater, defroster and air conditioning system.</p>	<p align="center">X</p>	
<p>b. Ducting and/or louvers for driver and passenger sides.</p>	<p align="center">X</p>	
<p><b>19. <u>Electrical and Miscellaneous</u></b></p>	<p align="center">X</p>	
<p>a. Two 12-volt cigar lighter style receptacles in dash for cell phones, etc.</p>	<p align="center">X</p>	
<p>b. Rubber fender flares and mud flaps</p>	<p align="center">X</p>	
<p>c. Remote battery jump studs installed under the hood on curb side inner fender.</p>	<p align="center">X</p>	
<p><b>20. <u>Warranty</u></b></p>	<p align="center">X</p>	
<p>a. Basic coverage: 12 months or 12,000 miles.</p>	<p align="center">X</p>	
<p>b. Body Structure, hood and main panels: 60 months or 50,000 miles.</p>	<p align="center">X</p>	
<p>c. The bidder shall include the manufacturer's warranty statement including "What Is Not Covered" or "Exclusions" in this IFB.</p>	<p align="center">X</p>	
<p>d. Warranties are for 100% parts and labor during the specified time or mileage limits.</p>	<p align="center">X</p>	