

INVITATION TO BID

Notice is hereby given that sealed bids will be received at the City Clerk's Office, City Hall, 435 Ryman Street, Missoula, MT 59802-4297 until 1:00 p.m., Wednesday, February 5th, 2020 and will be opened and publicly read in the Mayor's Conference Room, City Hall at that time. As soon thereafter as is possible, a contract will be made for the following:

Purchase of one (1) ADA Accessible Bus.

Bidders shall bid by City bid proposal forms, addressed to the City Clerk's Office, City of Missoula, enclosed in separate, sealed envelopes marked plainly on the outside, “Bid for One (1) ADA Accessible Bus, Closing at 1:00 p.m., Wednesday, February 5th, 2020”.

Pursuant to Section 18-1-102 Montana Code Annotated, the City is required to provide purchasing preferences to resident Montana vendors and/or for products made in Montana equal to the preference provided in the state of the competitor.

Each and every bid must be accompanied by cash, a certified check, bid bond, cashier's check, bank money order, or bank draft payable to the City Treasurer, Missoula, Montana; and drawn and issued by a national banking association located in the State of Montana or by any banking corporation incorporated under the laws of the State of Montana for an amount which shall not be less than ten percent (10%) of the bid, as a good faith deposit. The bid security shall identify the same firm as is noted on the bid proposal forms.

No bid will be considered which includes Federal excise tax, since the City is exempt there from and will furnish to the successful bidder certificates of exemption.

The City reserves the right to determine the significance of all exceptions to bid specifications. Products or services that do not meet bid specifications must be clearly marked as an exception to the specifications. Vendors requesting inclusion or pre-approved alternatives to any of these bid specifications must receive written authorization from the Fleet Maintenance Manager a minimum of five (5) working days prior to the bid closing.

The City reserves the right to reject any and all bids; and if all bids are rejected, to re-advertise under the same or new specifications, or to make such an award as in the judgment of its officials best meets the City's requirements. The City reserves the right to waive any technicality in the bidding, which is not of substantial nature.

Any objections to published specifications must be filed in written form with the City Clerk prior to the bid opening at 1:00 p.m., Wednesday, February 5th, 2020. Bidders may obtain further information and specifications from the City Fleet Maintenance Division at (406) 552-6387. Bid announcements, bidding documents, and bid results are posted on the City's website at www.ci.missoula.mt.us/bids.

Martha L. Rehbein
City Clerk

Publish: January 19, 2020
 January 26, 2020

**CITY OF MISSOULA, MONTANA
SPECIFICATIONS
FOR
ONE (1) ADA ACCESIBLE BUS**

GENERAL EQUIPMENT DESCRIPTION:

Provide for current year, bus capable of seating twelve (12) forward facing ambulatory adult passengers plus two (2) wheelchair position, OR fourteen (14) forward facing ambulatory adult passengers.

Meets Specs	Does Not Meet Specs
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VENDOR'S SERVICE LEVEL:

These should be considered one complete "Turn Key" unit ready for immediate use upon delivery. All items that vendor has selected "Meets Specs" shall be provided prior to processing documentation for payment.

_____	_____
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MANDATORY FUNCTIONS:

This bus will need to operate effectively on steep winding City streets and in a wide variety of ambient temperature and weather conditions.

_____	_____
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Construction and maintenance operations are often performed in heavy traffic. Visibility and safety in dense traffic will be mandatory.

_____	_____
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This unit must be capable of operating in a wide variety of environmental conditions. Operations will be performed in hot weather above 90 degrees and extremely cold below zero temperatures. This equipment must be 100 percent functional regardless of ambient weather conditions.

_____	_____
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This equipment will have to function in steep and rolling terrain effectively without tipping, or presenting safety concerns.

_____	_____
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All of the above items are mandatory basic functions of a bus. Please explain any exceptions on a separate sheet of paper. Any exceptions to the above specifications will result in product exclusion.

_____	_____
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DATE OF MANUFACTURE:

Meets
Specs

Does Not
Meet Specs

It is the intention of the City to purchase one (1) bus capable of seating twelve (12) forward facing ambulatory adult passengers plus two (2) wheelchair position, OR fourteen (14) forward facing ambulatory adult passengers. This means current model year, with only delivery mileage.

BASIC REQUIREMENTS:

24-hour delivery of Maintenance related parts and equipment.

Repair oriented parts shall have a 24-hour shipping availability.

All required lubricants shall be available from Montana lubrication suppliers other than OEM dealers.

Only standard (SAE) or metric bolts, nuts, etc. will be allowed.

APPLICABLE STANDARDS (All standards referenced shall be of the most current revisions.) Must meet the following standards:

GOVERNMENTAL:

Federal Motor Vehicle Safety Standards (FMVSS).

Environmental Protection Agency (EPA) standards.

State of Montana Motor Vehicle Code standards.

Occupational Safety and Health Administration standards.

INDUSTRIAL:

Society of Automotive Engineers (SAE).

Tire and Rim Association (T&RA).

TRAINING:

At no additional cost, Vendor shall agree to provide a qualified factory authorized service representative(s) for the following training:

8 hours of mechanic training in maintenance, adjustment, and repair of vehicle .

	Meets Specs	Does Not Meet Specs
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4 hours of operator training specific to bus operations.	_____	_____
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Video Operation Guides.	_____	_____
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All training will take place within 15 days of delivery.	_____	_____
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Operator and Mechanical training shall be two separate classes.	_____	_____
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Video training may be used in place of actual instructors provided the videos become the property of the City of Missoula.	_____	_____
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SAFETY:

Sound suppressed cab shall be standard and shall meet current OSHA standards for operator, passenger, and spectator sound.	_____	_____
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All belts, drive shafts, chains, and pinch points must be clearly marked and protective guards in place to prevent operator injury.	_____	_____
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All steps, landings, walkways, and footholds must be covered with or made of non-slip materials.	_____	_____
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All hazardous areas or operations should be clearly labeled in such a fashion to make the operators aware of potential danger.	_____	_____
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Reflective tape and/or reflectors that allow night visibility of no less than 500 feet from any angle: top, side, front, and rear.	_____	_____
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All steps, landings, walkways, and footholds, including cab egress, must have three points of contact, two hands and one foot or two feet and one hand secured at all times. This is an ergonomic fall protection mandatory concern.	_____	_____
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DELIVERY:

Unit will be delivered F.O.B. to:
 1305 "B" Scott Street
 Missoula, Montana 59804

All delivery, transportation, and shipping charges are included in bid price.	_____	_____
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All services will be performed prior to delivery and unit will be clean and free of defects.	_____	_____
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	Meets Specs	Does Not Meet Specs
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Manufacturer's Statement of Origin (MSO) and Title Application must be prepared and available at delivery.

	_____	_____
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COLOR:

Bus will be painted white, moderate striping is acceptable.

	_____	_____
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Bus under carriage and frame shall be black.

	_____	_____
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To avoid corrosion, all portions of the bus, frame must be protected with a good quality paint and a warranty.

	_____	_____
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The interior color may vary with blue, grey, or black, basic colors that are easy to clean and do not show dirt. Colors such as tan, red, or dark brown are not acceptable.

	_____	_____
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DIMENSIONS:

Bus Length (w/ bumper)

- 22 feet minimum; 24 feet maximum

	_____	_____
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Overall Width (no mirrors)

- Shall be the standard 96 inches. Minimum width shall be 93 inches when measured from wall to wall and maximum width shall be 102.5 inches when fender flares are included.

	_____	_____
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Wheelbase

- 156 inches minimum; 160 inches maximum

	_____	_____
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Gross Vehicle Weight

- 12,000 pounds GVWR minimum; 12,500 pounds GVWR maximum
 - GVWR must meet or exceed the vehicle weight including all specifications and options

	_____	_____
	_____	_____

Interior Ceiling

- Minimum of 72 inches measured from the floor at the center aisle to the ceiling directly above

	_____	_____
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	Meets Specs	Does Not Meet Specs
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- Any compromise of the ceiling height exceeding three (3) inches at any point must be listed

_____	_____
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Aisle Width

- Aisle width is to be no less than 16 inches between seat cushions
 - A minimum of 16 inches aisle space is required between the two front street-side and curbside modesty panels

_____	_____
_____	_____

Overall Height

- Shall not exceed 122 inches (including the roof hatch) from the ground to the highest point of the exterior top of body

_____	_____
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DRIVETRAIN

Engine

- 7.3 liter, V8 gasoline minimum with an electronic fuel injection system.

_____	_____
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Transmission

- Shall be six (6) speed automatic with overdrive
 - Shall have an external heavy-duty transmission cooler with capacity to match GVW of vehicle

_____	_____
_____	_____

Rear Axle, Differential and Drive Shafts

- Shall be truck-type, single rear axle with dual rear wheels
 - Shall be equipped with a final drive axle ratio of 4.56:1 or numerically Higher
 - Drive shafts shall be heavy-duty truck style and shall be completely encircled by a metal guard to control a broken or separated shaft, in accordance to 49 CFR Part 393.89

_____	_____
_____	_____
_____	_____

CHASSIS EQUIPMENT

Fuel Tank

- A minimum of 40 U.S. gallons
 - No aftermarket fuel tanks shall be allowed
 - Shall be full at time of delivery

_____	_____
_____	_____
_____	_____

Meets Specs	Does Not Meet Specs
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Radiator/Coolant System

- Shall have heavy-duty with extra cooling capacity including water pump and clutch type fan

_____	_____
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- Cooling system to be winterized for 40 degrees below zero (0)
Block Heater

_____	_____
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- Shall have an auxiliary engine heater. A minimum, 400 watts block heater with accessible cord is recommended

_____	_____
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Fast Idle Control

- Shall be equipped with a fast-idle control

_____	_____
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- Shall be OEM if available. If OEM is not available, shall be Intermotive Gateway or approved equal.

_____	_____
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- Switch shall be located in the driver's control panel or on the steering wheel if OEM is provided.

_____	_____
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Alternator

- Shall heavy duty, 12-volt, 225 amps minimum (dual alternators OEM of equal or better combined ampere is acceptable).

_____	_____
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Batteries

- Shall have two (2), 12 Volt maintenance free, heavy-duty batteries with reserve capacity of 160 minutes and with 650 Cold Cranking Amps (CCA), wired in parallel, minimum.

_____	_____
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Steering, Wheel, and Cruise

- Shall be equipped with OEM power-assisted steering, OEM tilt wheel and OEM cruise control

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Suspension System

- The entire suspension system shall have a ground load rating equal to or exceeding the vehicle GVWR

_____	_____
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- The front and rear shock absorbers shall be heavy-duty, double acting gas filled with the highest rating available from the OEM

_____	_____
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Brakes

	Meets Specs	Does Not Meet Specs
- Shall be heavy duty commercial quality power assisted dual hydraulic System	_____	_____
- Shall have disc-type brakes on the front and rear wheels	_____	_____
- A hand or foot operated parking brake shall be supplied	_____	_____
- Must be equipped with OEM four-wheel anti-lock braking system	_____	_____

Wheels

- Wheels must be of sufficient size and strength to meet GVW rating	_____	_____
- Shall have standard OEM wheels and hub caps	_____	_____
- Wheel size shall be 16"x5" steel minimum	_____	_____
- Wheels shall be gloss white	_____	_____

Tires

- All tires must be of sufficient size and strength to meet GVW rating	_____	_____
- All tires to be OEM steel belted all season radial with 10 ply rated sidewalls. Tire size must be 225/75R16.	_____	_____
- All six (6) mounted tires and wheels must be the same size, make and Model	_____	_____
- A conventional spare tire and wheel shall be shipped loose in the vehicle.	_____	_____

Mud Flaps

- Mud flaps will be provided for front and rear tires	_____	_____
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Exhaust System

- The exhaust will not interfere with the rear mud-flaps, rear bumper or wheelchair lift operation	_____	_____
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CHASSIS EXTERIOR

Windshield and Driver Windows

- All windows shall be safety glass	_____	_____
- The windshield shall be provided by the chassis manufacturer.	_____	_____

	Meets Specs	Does Not Meet Specs
- The window in front of the passenger entry door shall be of maximum size available	_____	_____

Wipers

- Shall be electric three-speed with intermittent feature controlled by a switch minimum	_____	_____
- Shall have a dual jet washer	_____	_____

Headlight and Front Turn Signals

- Shall have OEM headlights with daytime running lights	_____	_____
- Shall have two (2) front OEM turn signals	_____	_____

Driver’s Door

- Shall be lockable by key from outside of vehicle	_____	_____
- Shall be manually operated, conventional “sedan type”	_____	_____

Hood

- To have latch release from inside of vehicle	_____	_____
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Front Bumper

- The front bumper shall be OEM standard	_____	_____
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Chassis Undercoating

- The chassis shall be undercoated with a nonflammable resin in a way that maintains all OEM warranties (exhaust shall not be undercoated)	_____	_____
- Resin type shall be Poly-Oleum, BASF water based degacoat or equivalent and must be in accordance with chassis manufacturer’s instruction	_____	_____

CHASSIS INTERIOR

Instrument Cluster/Gauges

- OEM premium instrument cluster shall be provided. Gauges shall include: -Needle-type fuel tank level gauge	_____	_____
-Needle-type speedometer with odometer gauge	_____	_____

	Meets Specs	Does Not Meet Specs
-Needle-type amp-meter / voltmeter gauge (warming light is acceptable if OE needle-type is not available)	_____	_____
-Needle-type oil pressure gauge (warming light is acceptable if OE needle-type is not available)	_____	_____
-Needle-type engine temperature gauge (warming light is acceptable if OE needle-type is not available)	_____	_____
-Standard headlight on/off indicator and high beam indicator	_____	_____
-Standard directional signal and flasher action light	_____	_____
-Standard parking brake warning light	_____	_____
Horn		
- Shall be dual OEM	_____	_____
Radio		
- Standard AM/FM and compact disk player with digital tuner and clock or equivalent	_____	_____
- Shall have a minimum of four (4) speakers total for passenger and driver area	_____	_____
- The unit will be mounted in the dash and within arm's reach of the operator's seat	_____	_____
Sun Visor		
- Shall be equipped with a driver's padded adjustable sun visors with center clip	_____	_____
Driver's Interior Mirror		
- Shall be OEM	_____	_____
Driver's Seat Belt		
- Driver's belt shall be OEM standard retractable type and a minimum of 40" length	_____	_____
Keys		
- There shall be three (3) sets of keys for the vehicle and accessories	_____	_____

BODY EXTERIOR FEATURES

	Meets Specs	Does Not Meet Specs
Body Structure		
- Shall have a heavy-duty unit body with a flat back	_____	_____
- Shall be of durable metal construction adequately reinforced at all joints and points of stress to fully withstand the required loads and road shock	_____	_____
- Shall be of sufficient strength to support the entire weight of the max-loaded vehicle if overturned	_____	_____
- The sidewall shall consist of 1 x 2 inch, 16-gauge steel or approved equal	_____	_____
- Front, side and back panels shall be secured to the floor so as to result in a permanent and fully integrated structural unit	_____	_____
- The entire underside of the body shall be undercoated with a nonflammable, Poly-Oleum, water based BASF degacoat or equivalent resin (must comply with MIL-C-62218A or MIL-C-0083933A)	_____	_____
- It is the intent of the buyer to purchase a standard industry modified vehicle	_____	_____
Body Exterior Panels		
- All panels shall be attached to the framing by riveting, welding, or with adhesive materials	_____	_____
- The exterior surface shall be gel coated or pre-painted steel or aluminum	_____	_____
Body Roof		
- Shall be one-piece and seamless.	_____	_____
- Shall consist of a steel cage; 1.25"1.25", 16-gauge steel or approved equal	_____	_____
- All posts in body side and roof sections shall be of durable channel or box construction securely fastened to the underframe structure so that the entire frame shall act as one unit without any movement at the joining points. The end posts shall be designed to resist shear	_____	_____
- The exterior surface shall be gel coated, pre-painted steel, FRP or Aluminum	_____	_____
Frame Extensions		
- Frame overhang behind rear wheels may not exceed 50 percent of the		

	Meets Specs	Does Not Meet Specs
total wheelbase length	_____	_____
- Frame extensions are required if the manufactured body extends more than 12 inches of the over the rear portion of the frame.	_____	_____
- Extensions must equal or exceed the strength of the factory frame	_____	_____
- Extensions shall be connected in a way that strengthens the structural integrity of the join	_____	_____
Body/Chassis Fastening		
- Body shall be securely fastened to the under-frame structure and conform to the body builder's requirements	_____	_____
- Shall be bolted securely through the chassis rail flange at the floor with added reinforcing plates or comparable method	_____	_____
- Entire frame shall act as one unit without any movement in joining	_____	_____
Driver's Running Board		
- One (1) running board shall be mounted outside the driver's door	_____	_____
Rear Bumper		
- The rear bumper shall be Romeo Rim energy absorbing rear bumper or Equivalent	_____	_____
- Rear bumper shall include an anti-ride feature.	_____	_____
Passenger Entry Door		
- Shall be bi-fold style and located behind the right-front tire	_____	_____
- Opening shall be a minimum of 27" in width and a minimum of 78" in height. The door height is measured from the top of first step to door header. Shall be clear from obstructions.	_____	_____
- Shall be equipped with a driver-actuated, heavy-duty, school bus-type electric door opener.	_____	_____
- Door open/close actuator shall be located on the driver's control panel	_____	_____

	Meets Specs	Does Not Meet Specs
- Doors shall be padded with a flexible soft rubber cushion at least one (1) inch in width and affixed on the meeting edges and the bottom edges of the doors. (Rubber cushions extruding outside the vehicle more than one (1) inch is not acceptable).	_____	_____
Passenger Entry Step-Well		
- All steps to be enclosed with a steel step well inside of the vehicle	_____	_____
- Ground to first step shall be a maximum of 11.5 inches ± 1 inch	_____	_____
- Each step shall be a maximum of 9.5 inches in height and a minimum of 8 inches in depth	_____	_____
- Step-well shall be heated by an electrical mat and have an on/off switch on the driver's control panel	_____	_____
- Steps shall be covered in flooring identical to that of the passenger area.	_____	_____
Wheelchair Lift Door		
- Shall be equipped with a double door opening	_____	_____
- Minimum door heights will be in compliance with Federal ADA Regulations (minimum door height is measured from door jamb to floor directly below)	_____	_____
- One (1) door shall be equipped with an exterior handle and the other door shall be equipped with an interior handle. The interior handle will act in a way that prevents the door from opening without getting the driver's attention.	_____	_____
- Shall be equipped with an exterior locking device	_____	_____
- Shall be equipped with a door-ajar alarm that will sound when the door is open	_____	_____
- Each door will have top mounted steel check-style device with minimum, 20# spring to be provided for door so it can be secured in the open position (equivalent gas strut hold opens are acceptable)	_____	_____
- Windows shall be tinted in a way that matches the other window tint in the passenger area	_____	_____

Meets Specs	Does Not Meet Specs
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Passenger Windows

- All side windows (except the emergency exit windows) shall be fixed in position, top vented, and provide a clear view to the outside from each seat position

_____	_____
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- The maximum acceptable side window pane size is 46”x 36”

_____	_____
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- All passenger area glass is to be of the safety-type and tinted to a maximum of 31% light transmission

_____	_____
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- Two (2) passenger emergency exit side windows shall be provided; one (1) on the street-side and one (1) on the curbside

_____	_____
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- A quick release, fastening device shall be provided for each emergency exit window

_____	_____
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- Passenger side windows must be in compliance with FMVSS 217 (Bus Window Retention and Release)

_____	_____
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Exterior Mirrors

- Shall be OEM, Rosco brand or approved equal

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- Street-side & curbside mirror head to be a minimum of 14.75”x6.75”

_____	_____
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- Shall have two (2) lenses; one (1) flat and one (1) convex

_____	_____
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- Mirror brackets shall be cast and break-a-way style

_____	_____
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- Street-side mirror shall be window mounted

_____	_____
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- Curbside mirror shall be fender mounted

_____	_____
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- Shall have electric, remote controlled heated glass and adjustments

_____	_____
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- The controls shall be mounted in the driver’s control panel, on the driver’s door, or in the dash

_____	_____
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- Driver shall have a clear and full view of both mirrors

_____	_____
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Meets Specs	Does Not Meet Specs
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Exterior Lights

* Light fixture locations:

-Passenger Entrance Door: One (1) LED light shall be positioned on the exterior of the vehicle and above or left of the door as to provide illumination for the ground in front of the door. Light shall illuminate automatically when the passenger door is in the open position.

_____	_____
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-Wheelchair Lift Door: Shall be two (2) LED lights positioned on the outside of the vehicle as to provide illumination for the ground and lift.

_____	_____
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-Rear License Plate: A minimum of one (1) LED light shall be mounted above the license plate to provide adequate illumination for nighttime operation

_____	_____
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-Backup Lights: Two (2) LED backup lights shall be provided and must provide adequate illumination for nighttime operation

_____	_____
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-Height Clearance: Shall include a minimum of five (5) LED clearance lights in the front and five (5) LED clearance lights in the rear

_____	_____
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-Brake: Shall include two (2) LED rear brake lights

_____	_____
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-Turn Signal: Shall include two (2) LED rear turn signal lights

_____	_____
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- All lights shall be LED and mounted securely to the vehicle and wiring must be covered with light cover

_____	_____
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- All lights shall be non-operation when ignition is off

_____	_____
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- All lights (with exception of the Railroad Crossing) shall be armored or recessed to prevent breakage

_____	_____
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- All lights shall be in accordance with all Federal Motor Carrier Safety and Americans with Disabilities Act requirements

_____	_____
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License Plate

- Provisions shall be made to mount standard size U.S. license plates per SAE J686 on the front and rear of the bus

_____	_____
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- Shall be direct or recess mounted

_____	_____
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- Rear plate location shall be on driver's side

_____	_____
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Meets Specs	Does Not Meet Specs
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Paint, Lettering and Striping

- The vehicle body shall be painted in gloss white. DuPont, PPG or approved equal paint is acceptable.

_____	_____
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- The entire exterior of the bus does not need to be painted by the manufacturer. The cab may be painted by the chassis manufacturer and the body may be painted by the body manufacturer.

_____	_____
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BODY INTERIOR FEATURES

Master Control Panel

*Control panel shall operate a minimum of these items:

-Interior Overhead Dome and Reading Lights

_____	_____
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-Heat/Air Conditioning Systems

_____	_____
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-Passenger Entry Step-Well Heated Steps

_____	_____
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- All switches shall be labeled with specific function

_____	_____
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- Control panel shall NOT be located above the driver's head

_____	_____
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Back-up Alarm

- Shall include back-up alarm connected with back-up lights to produce an intermittent warning sound when reverse gear is engaged

_____	_____
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Wiring

- All wiring shall conform to the current applicable standards of the Society of Automotive Engineers and be sufficient size to carry the required current without excessive voltage drop

_____	_____
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- The wiring shall be color coded, function coded or permanently and continuously numbered for identification

_____	_____
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- All added accessories and electrical equipment shall be wired through a constant solenoid energized by the vehicle ignition switch and have a separate circuit braking system. All accessories will shut off when the key is shut off.

_____	_____
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- All wiring must be continuously loomed

_____	_____
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- All switches and wiring circuits shall be protected with circuit breakers and/or fuses and properly labeled for identification

_____	_____
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Meets Specs	Does Not Meet Specs
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Driver's and Overhead Storage

- Shall have a locking overhead storage compartment located above the windshield locking glove box. This capacity must be large enough to store the fireproof blanket, driver's coat, first aid kit and body fluid kit

_____	_____
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Driver's Seat

- Shall be Freedman G2E Series cutaway driver's seat or approved equal

_____	_____
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- Seat shall mount on factory riser and slide assembly

_____	_____
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- Features shall include: wide back, mechanically adjustable lumbar, indefinitely adjustable back, fore/aft adjustment, 3-point lap belt, 4-way adjustable headrest, front adjustable flip up armrests, and adjustable side bolsters

_____	_____
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- Fore/aft adjustment length shall be 7.25 inches minimum when mounted to factory riser and slides

_____	_____
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- Certified shoulder and lap seat belt with automatic retractor shall be provided.

_____	_____
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- Color of shall be black (If not available color must match passenger area seating)

_____	_____
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- Seat shall not void any manufacturer warranties

_____	_____
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Passenger Seats

- Six (6), two-passenger (double) Freedman Caregiver seats with child restraint system and/or integrated child seats or approved equal shall be provided

_____	_____
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- Two (2) one-passenger (single) Flip Seats will be provided over the rear wheelchair stations against the rear wall of the bus

_____	_____
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- Seats shall be covered in Freedman Level 1 fabric or vinyl (color to be selected after award) or approved equal

_____	_____
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- All fixed seats must have either padded grab rails or a durable nylon plastic handle

_____	_____
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	Meets Specs	Does Not Meet Specs
- Hip-to-knee room shall be a minimum of 28 inches (measured from the front of one seat back horizontally across the highest part of the seat to the seat or panel immediately in front).	_____	_____
- Foot room shall be a minimum of 12 inches (measured at the floor forward from a point vertically below the front of the seat cushion to an obstruction such as the driver barrier).	_____	_____
- Seating shall meet or exceed every applicable FMVSS including 210 (seat belt certification test).	_____	_____
- Cushions shall be molded polyurethane to ensure maximum individual passenger comfort and durability.	_____	_____
- All upholstery shall be pull-down style	_____	_____
Seat Belts		
- One (1) set of retractable seat belts shall be provided for each passenger in addition to integrated child 3PT and/or child restraint belt.	_____	_____
- Two (2) seatbelt extensions, at the length of 12 inches each shall be provided.	_____	_____
- Buckle aperture must be on the aisle side of the passenger seats	_____	_____
Grab Rails, Stanchions, and Modesty Panels		
- The passenger entry shall be equipped with a left and right-side grab rail with a minimum of 1” to 1.5” finger clearance. The right-side grab rail may require a floor to ceiling stanchion. The grab rails shall be in a configuration which allows persons with disabilities to grasp such assists from outside. Grab handles mounted to the passenger entry door are not acceptable.	_____	_____
- Modesty panels and stanchions shall be provided to the left of the passenger entry and directly behind the driver’s seat.	_____	_____
- Shall include cross bars that extend from the driver’s area, passenger entry and/or wheelchair lift stanchions to the wall or a second stanchion	_____	_____
- All modesty panels shall be grey vinyl-clad and extend a minimum of 28” and a maximum of 32” above the floor. ABS modesty panels are acceptable.	_____	_____
- All modesty panels shall to be 0.75” thick	_____	_____

	Meets Specs	Does Not Meet Specs
- The entire perimeter edge of all of the modesty panels shall be free from sharp edges	_____	_____
- All modesty panels shall be framed by stainless steel stanchions and crossbars	_____	_____
- The vehicle shall be equipped with two (2) ceiling mounted, stainless steel overhead grab rails that run parallel to the passenger aisle. Rails shall extend from the driver's and passenger entrance stanchions to the rear of the vehicle (the full length of the passenger aisle).	_____	_____
- All hand and grab rails shall be located in such a manner as to not obstruct or interfere with the operation of the vehicle	_____	_____
Floor		
- The floor shall be covered with a minimum of a 0.75 inches exterior marine grade plywood or equivalent	_____	_____
- The floor covering shall be a one-piece seamless design	_____	_____
- The step-well entrance area, center aisle, passenger area and wheelchair placement stations shall be overlaid with Chroma 2.2mm Altro Transflor minimum or approved equivalent (carpet is not acceptable).	_____	_____
- Heat welding shall permanently seal seams and joints	_____	_____
- All step edges shall have a band of bright contrasting color (white) running the full width of the leading edge.	_____	_____
- All openings in the floorboards, firewall, and trim shall be sealed	_____	_____
- Body shall be thoroughly water tested and made tight to prevent leakage	_____	_____
Interior Trim		
- All interior panels will be vinyl-coated metal, vinyl covered luan panels, or equal alternative	_____	_____
- All materials and treatments shall be flame retardant and treated to be easily cleaned	_____	_____
- Colors of covering shall harmonize with exterior colors	_____	_____

	Meets Specs	Does Not Meet Specs
- All surfaces and items of hardware in passenger compartment having sharp edges, corners, or angles shall be padded with a heavy-duty vinyl-covered energy absorbing material for safety	_____	_____
- Interior wall panels may be made of Fiberglass Reinforce Plastic (FRP)	_____	_____
- The ceiling may be covered with an automotive style cloth	_____	_____
- The driver's cab ceiling may be covered in padded vinyl	_____	_____
- All interior trim shall match OEM material throughout the vehicle	_____	_____
- All materials must be flame resistant and meet FMVSS 302.	_____	_____

Interior Lights

* Interior passenger light fixture locations include:

-One (1) overhead passenger entry light and two (2) entry step-well lights (one on each side of the step-well). These lights shall illuminate automatically when door is opened.

-A minimum of four (4) passenger area overhead dome lights shall be mounted to the ceiling or transition panel and can be illuminated by the seated driver with a simple on/off switch.

- All interior passenger lights shall be LED

- All interior lights shall be mounted to the ceiling, underside of overhead racks, or sidewalls (storage compartment are not acceptable for mounting)

Insulation

- All insulation shall have a minimum rated factor of R5.5 for the walls and a minimum of R7 for the ceiling.

- Inside walls, ceiling and firewall area to be adequately insulated with fire resistant non-hygroscopic material

- Insulation will be thoroughly sealed preventing condensation (spray in foam is acceptable)

- Air drafts during normal operation are not acceptable

	Meets Specs	Does Not Meet Specs
- Insulation in roof to be 0.75-inch wood core, EPS bead board foam or equivalent. Any equivalent insulation must comply with CFR Title 49 Part 567 – 568 and FMVSS 220 rollover standards.	_____	_____
-No part of the roof structure is to have gaps where no insulation is present. Insulation MUST cover all areas of the roof.	_____	_____
Backup Camera System		
- Shall include a backup camera system; Rosco brand, Kit STSK7465 or approved equal	_____	_____
- Monitor shall be LCD, ultra-sharp and 7-inch (plus or minus one inch) in size. The housing shall be rugged.	_____	_____
- Monitor shall be securely mounted in an overhead location and in plain view of the driver. The location of the monitor shall not obstruct the driver’s view of the road or side windows.	_____	_____
- The camera shall be weather proof and rugged, providing a 120-degree field of view. The camera shall have 6 high-output infrared LEDs for night use applications. The camera shall be rear mounted and in a location which best optimizes the system’s performance. The preferred mounting location is slightly below the center of the lower rear window frame.	_____	_____

INTERIOR CLIMATE CONTROL

Front Dash Heating

- Shall be equipped with OEM in-dash heating	_____	_____
- Shall be minimum of four-speed fan type minimum	_____	_____

Auxiliary Heaters

- The passenger area shall be equipped with two (2) auxiliary blow down style heaters located in the rear of the passenger area	_____	_____
- Minimum of 60,000 BTU/HR-IMACA per each unit	_____	_____
- Heaters shall not interfere with the operation of the vehicle or passenger Movement	_____	_____
- If heater lines are installed on the exterior of body they must insulated	_____	_____

Meets Specs	Does Not Meet Specs
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Booster Pump

- A booster pump shall be installed to help circulate water through the heating system.

_____	_____
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- The pump shall be mounted outside and all the water lines are required to be insulated.

_____	_____
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- Pump on/off control shall be mounted in the driver's master control panel. The booster pump switch is not required if the booster pump operates automatically.

_____	_____
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Front Dash Air Conditioning

- In-dash air conditioning unit shall be OE and a minimum of 15,000 BTU/HR-IMACA

_____	_____
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- System shall operate in conjunction with the heater/defroster system and share the same vent system

_____	_____
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- Shall be minimum of four-speed fan type and operate on R134A only

_____	_____
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Rear Air Conditioning System

- The air conditioning system shall be variable control and capable of cooling the vehicle sufficiently. The system is to be completely separated from the chassis OEM driver's in-dash air conditioning system and shall be equipped with dual compressors (one OEM and one aftermarket).

_____	_____
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- System shall provide a minimum total cooling of 68,000 BTU/HR-IMACA (15,000 BTU/HR-IMACA / Driver's OEM In-Dash Cooling PLUS 52,000 BTU/HR-IMACA / Rear Center Ceiling Cooling).

_____	_____
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- System shall utilize dual engine-driven compressors, minimum ten (10) cubic inch displacement, protected high and low-pressure switches. One (1) compressor will be OEM standard and one (1) compressor will be Model TM-16, engine mounted. Each compressor will be rated at 52,000-BTU/HR-IMACA minimum. One (1) interior roof mount evaporator and roof mount condenser a/c system. One (1) OEM dash air evaporator and condenser.

_____	_____
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- The rear evaporator unit shall be secured to the roof in the rear section of the passenger area above the wheelchair stations.

_____	_____
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	Meets Specs	Does Not Meet Specs
- The unit's expansion valve must be equipped with O-ring fittings to insure leak-free continuous operation. The unit must operate on the non-ozone depleting refrigerate of R-134A (R-22, R-12 or blended Freon is not acceptable).	_____	_____
- All refrigeration lines that enter the passenger compartment shall be encased in a rigid material, fiberglass, aluminum, etc., that harmonizes with interior to prevent injury to passengers in the event of line eruption.	_____	_____
- All air conditioning hoses and wires that pass within twelve (12) inches of exhaust system shall be shielded in a manner to prevent heat damage	_____	_____
- Passenger area system shall be separately controlled from the master control station at the driver's position with an off/low/high (minimum) blower switch.	_____	_____
- All electric relays, fuses and circuit breakers shall be located in one location inside vehicle for reliability and ease of repair. All electric relays, fuses and circuit breakers shall be protected with breakers.	_____	_____
- When the ignition system is turned off, the rear air conditioning system shall be automatically shut down	_____	_____

WHEELCHAIR LIFT AND RESTRAINT DEVICES

Lift Type

- The standard vehicle shall be equipped with a Braun Century 2 Series lift or approved equivalent	_____	_____
- The lift platform shall allow for mobility aid users and inboard and outboard facing wheelchairs	_____	_____
- Lift must be compliant with Federal Motor Vehicle Safety Standard 403	_____	_____

Lift Location

- Lift location shall be aft of rear axle.	_____	_____
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Capacity and Static Load

- Shall have minimum of 800-pound rating lift capacity	_____	_____
- Shall have been tested to a minimum static load of 2,400 pounds	_____	_____

Meets Specs	Does Not Meet Specs
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Operational Features

- The platform shall be fully automatic when folding _____
- Platform must have the capability to be manually released without wrenches in case of failure of the automatic store assembly _____
- The lift shall be capable of operating in a temperature range of -30 and +110 F _____
- Lift controls shall provide appropriate mechanisms to ensure that the vehicle cannot be moved when the lift is not stowed and so the lift cannot be deployed unless the interlock is engaged. The lift to be powered once the following parameters have been met: _____
- ADA doors must be in the open position _____
- Parking brake must be set (engaged) _____

Lift power to be engaged

- Vehicle must have the shift selector in the park (“P”) position _____

Power / Hydraulic System

- The power supply shall be a 12-volt electro-hydraulic system operating two single-acting cylinders _____
- The hydraulic power pack system shall be of modular design allowing for easy removal and field replacement _____
- The power operation of the hydraulic cylinders shall be of a pull-type design for improved synchronous arm movement _____
- The hydraulic system shall be regulated by two separate relief valves, one (1) of which is designed to prevent accidental stowing when occupied _____

Platform Construction

- The platform shall have a minimum usable wheelchair passageway width of 34 inches and a minimum usable length of 51 inches requiring a 57-inch vertical clear door opening _____
- The wheelchair lift must be of heavy-duty frame design concealing all elements of power drive _____

	Meets Specs	Does Not Meet Specs
- The platform shall be of steel construction and the surface shall be of see-through grating allowing for improved visibility and safer use in inclement weather	_____	_____
- All sliding surfaces and load bearing surfaces must be constructed with sealed roller or sleeve bearing with adequate protection to prevent exposed greasy surfaces	_____	_____
- The sides of the platform shall be a minimum of 2.5 inches high	_____	_____
- The platform entrance ramp shall be constructed from extruded aluminum, have a rubber leading edge and have raised ribs for traction	_____	_____
- The base plate shall be a corrugated to provide rigidity and minimize lift deflection when placed under load	_____	_____
- The pivot pins in the trunnion (knuckle) of the pivot arms shall be of stationary design	_____	_____
- The outer barrier shall be hydraulically activated and must be in the vertical (deployed) position prior to platform movement.	_____	_____
- The outer barrier shall be interlocking complying with FMVSS 403 requirements	_____	_____
- The lift shall be entirely hydraulic driven	_____	_____
- The lift must have a failsafe system to prevent stowing if solenoid welds	_____	_____
- The lift platform shall have a non-slip reinforced floor capable of carrying small or balloon tire wheelchairs	_____	_____
- The lift must have a fail-safe release which is capable of releasing the drive mechanism upon striking the ground or an object.	_____	_____
- Platform shall be equipped with handrails on both sides in compliance with Federal ADA Regulations. The handrails shall be 1.25-inch diameter minimum, 30 inches in height minimum, eight (8) inches in length minimum and withstand a 100 pound force in any direction (including vertical) without permanent deformation.	_____	_____
- All lift components shall be finished with a bake-on powder coating providing corrosion resistance	_____	_____

Hand Control

	Meets Specs	Does Not Meet Specs
- The hand control for lift operation shall be of a one-hand operation design made of durable plastic	_____	_____
- The hand control will provide the user with illuminated functions	_____	_____
- The hand control cable shall be coiled with quick-change connections for ease of maintenance or field change	_____	_____
Interlock System		
- The vehicle will have the Intermotive Intelligent Lift Interlock System (ILIS) or approved equal	_____	_____
- The system shall inform the driver that the interlock system is working Properly	_____	_____
Back-Up System		
- A manual back-up system shall be provided to ensure operation of the lift in case of electrical failure	_____	_____
- The back-up system shall provide a reliable means of manually raising and lowering the lift while occupied	_____	_____
- The back-up system shall fold and unfold the platform	_____	_____
- The back-up pump shall be integrated with the hydraulic power pack system such that no hydraulic lines or fittings are required	_____	_____
- The drive mechanism must have a positive up stop that can be overridden without causing damage to vehicle or lift.	_____	_____
Safety Features		
- The platform shall have a “built in” (not auxiliary) lighting that meets FMVSS 404 requirements	_____	_____
- The platform shall have a double activated safety guard system to facilitate loading and unloading and prevent roll-off while lift is in use.	_____	_____
Installation		
- The unit shall operate smoothly in both upward and downward directions	_____	_____
- The lift shall allow easy removal of the lift and shall be readily accessible for repair and maintenance	_____	_____

	Meets Specs	Does Not Meet Specs
- The platform shall be level when deployed	_____	_____
- When in the stored position the lift should not rattle when vehicle is in operation	_____	_____
- Installation shall not require alterations that diminish the structural integrity of the vehicle.	_____	_____
- The mounting bolts for the lift shall be run through a metal mounting plate installed on the underside of the sub-floor.	_____	_____
- Large washers are NOT ACCEPTABLE as this design has caused the floor to crack and loosen the mounts for the lift.	_____	_____

Wheelchair Restraint Track

- All track must be Omni Tack, “L” fitting series, Kinedyne, Q’Straint or approved equal	_____	_____
- Floor track must be mounted flush with the surface material	_____	_____
- This vehicle shall have a total of two (2) wheelchair placement stations. Each station shall have tie down locations for four (4) wheelchair restraints and one (1) shoulder harness / lap belt restraint	_____	_____
- All track must meet ADA wheelchair placement requirements	_____	_____

Wheelchair Restraints

- Certified restraints shall be provided for two (2) wheelchair occupants.	_____	_____
Sets shall include:		
-Two (2) sets of retractable wheelchair restraints shall be Sure-Lok Retractor Model FF627S-4C or approved equal	_____	_____
-Two (2) integrated lap belts shall be Sure-Lok Model FE200842 or approved equal	_____	_____
-Two (2) non-retractable shoulder belts Sure-Lok Model FE200732 or approved equal	_____	_____
Two (2) storage containers Sure-Lok Model FE200746 or approved equal. Store containers shall be delivered loose and not secured to the wall.	_____	_____

	Meets Specs	Does Not Meet Specs
- All restraints shall be adjustable to accommodate all wheelchair types	_____	_____
- All restraints must meet ADA placement requirements	_____	_____
- All restraints shall be of sufficient strength to retain an occupied wheelchair load of 5,000 pounds under crash conditions	_____	_____

FLOOR PLAN DIAGRAM

Description

- The passenger capacity is twelve (12) ambulatory adult passengers plus two (2) wheelchair positions or fourteen (14) ambulatory adult passengers plus driver
- Equipped with rear, curbside wheelchair lift
- Refer to the attached diagrams for location of:
 - Foldaway seats
 - Wheelchair positions
 - Wheelchair lift
 - Rear emergency door

INSTALLATION, ASSEMBLY, AND OPERATIONAL:

	Meets Specs	Does Not Meet Specs
The bus vendor is responsible for ensuring that the unit meets or exceeds all state, federal, and local vehicle regulations upon delivery.	_____	_____
The vendor shall be responsible for all warning signs, labels, and placards required or needed for safe operation of the unit.	_____	_____
The final inspection of the unit to include compliance with state, federal, and local regulatory agencies shall be completed by the vendor and the body installer prior to delivery.	_____	_____

WARRANTY:

Warranty period will begin after the unit is accepted and not at the time of delivery.	_____	_____
Warranty documentation shall be included in the bid package.	_____	_____

BID PRICE SHEET

The prices listed in this price sheet shall be totally inclusive of all freight, shipping, dealer preparation, and assembly charges. All prices listed will include delivery to 1305 "B" Scott Street, Missoula, MT. Purchase of one ADA Accessible Bus that meets or exceeds the specifications included in this document.

Description of ADA Accessible Bus truck being provided: _____

Model Year: _____

Name of Manufacturer: _____

Description: _____

Total bid price for one (1) ADA Accessible Bus being provided: \$ _____

Delivery date of this equipment is: Month _____ Day _____ Year _____.

*Please note that there is no trade-in vehicle included in this proposal.

OTHER INFORMATION

Does the vehicle meet specifications? _____ If not, attach a separate sheet with explanations.

* City of Missoula reserves the right to award purchases with or without any or all of the alternatives and to award purchases based on life cycle cost to the City, not just lowest initial purchase price.

** Bidders shall promptly notify the City of any ambiguity, inconsistency, or error in the bidding documents; and if a clarification or interpretation is desired, bidders shall request the same from the City in writing, at least five (5) calendar days prior to the bidding deadline. Any objections to published specifications must be filed in written form with the City Clerk prior to bid opening at 1:00 p.m., Wednesday, February 5th, 2020. Bidders may obtain further information, bid proposal forms, and specifications from the Fleet Maintenance Division (406) 552-6387. The City reserves the right to reject any and all bids and if all bids are rejected, to re-advertise under the same or new specifications, or to make such an award as in the judgment of its officials best meets the City's requirements. The City reserves the right to waive any technicality in bidding which is not of a substantial nature.

*** The City reserves the right to determine the significance of all exceptions to bid specifications. Products or services that do not meet bid specifications must be clearly marked as an exception to the specifications. Vendors requesting inclusion or pre-approved alternatives to any of these bid specifications must receive written authorization from the Fleet Maintenance Manager a minimum of five (5) working days prior to the bid closing.

Bid Security of 10% of bid (% of dollars - company or personal checks not acceptable security) is hereby enclosed, as our bid for selling the City of Missoula, one (1) ADA Accessible Bus, bid security will be increased to include equipment options or additional options available in these specifications. The bid security shall identify the same firm as is noted on the bid proposal forms. We understand that a penalty of \$25.00 per day and/or forfeiture of bid security may result from exceeding the delivery date bid by vendor.

Submitted by:

Company

Authorized Signature:

Name and Title

Date: