

Rodney A. Cook Director

December 15, 2022

Board of Commissioners Clackamas County

Members of the Board:

Approval of a Board Order authorizing the Purchase of Six (6) Shuttle Buses from Northwest Bus Sales for the Last Mile Shuttle Program. Total purchase order value is \$752,772. Funding is through the State Transit Improvement Funds.

No County General Funds are involved.

Purpose/Outcomes	Approval of the issuance of Purchase Order for Six (6) Category D Ford E450 Shuttle Buses for the Last Mile Shuttle Program.
Dollar Amount and Fiscal Impact	Total value not to exceed \$752,772.
Funding Source	State Transit Improvement Funds are provided under agreement with TriMet. No County General Funds.
Duration	The estimated delivery date of December 2023
Previous Board Action	Item at County issues 12-13-22.
Strategic Plan Alignment	 This funding aligns with H3S's strategic priority to increase self-sufficiency for our clients. This funding aligns with the County's strategic priority to ensure safe, healthy, and secure communities by addressing transportation needs for seniors, persons with disabilities, and low-income job seekers
Counsel Review	Date of Counsel Review: 11/7/22 Andrew Naylor
Procurement	Was the item processed through Procurement? Yes
Review	2. If no, provide a brief explanation:
Contact Person	Brenda Durbin, Social Services Director (503)655-8641
Agreement Number	H3S # 10957

BACKGROUND:

The Social Services Division (SSD) of the Health, Housing, and Human Services Department requests the approval of a board order to purchase six (6) new transit vans for the Last Mile Shuttle program. Last mile shuttles currently operate in Oregon City and the Clackamas Industrial area and provide rides to residents not served by other public transit options. These vehicles will ensure the continuity of operations.

The Board Order is for \$752,772, with delivery expected in December 2023. No County General Funds are required.

County Counsel reviewed and approved this Board Order.

RECOMMENDATION:

Staff recommends the Board approve the attached Board Order.

Healthy Families. Strong Communities.

Respectfully submitted,

Rodney A. Cook
Rodney A. Cook, Director

Health, Housing & Human Services Department

Attachment:

Board Order: In the Matter of Approving the Issuance of a Purchase Order to Purchase Six Ford E450 Shuttle Buses

BEFORE THE BOARD OF COUNTY COMMISSIONERS OF CLACKAMAS COUNTY, STATE OF OREGON

In the Matter of Approving Issuance of Purchase Order to Purchase Six Ford E450 Shuttle Buses

 Board Order No.
Page 1 of 2

Whereas, the Clackamas County Board of County Commissioners (the "Board") has authority to sign all contracts and any amendments or renewals of the same;

Whereas, Oregon Revised Statutes ("ORS") chapter 279A.200-220 and Local Contract Review Board Rule C-046-0400 permit Clackamas County to purchase goods or services using a cooperative procurement;

Whereas, Northwest Bus Sales, Inc. established a cooperative contract with the State of Oregon cooperative, contract #DASPS-2234-19, price agreement #9475 (the "Contract"), for the purchase of Ford E450 Shuttle Buses;

Whereas, the Clackamas County Department of Health, Housing, and Human Services, Social Services Division, desires to purchase six (6) Ford E450 Shuttle Buses through the Contract for a total contract price of \$752,772.00, as further described in Northwest Bus Sales, Inc.'s quote, attached hereto as Exhibit A and incorporated by this reference herein;

Whereas, the Clackamas County Department of Finance requests authority to utilize the Contract to purchase the aforementioned equipment by issuance of a purchase order ("PO");

Whereas, a PO is issued directly through the Department of Finance's management software with no signature required or available;

NOW THEREFORE, the Clackamas County Board of County Commissioners resolves as follows:

- 1. The requested use of the Contract to purchase six (6) Ford E450 Shuttle Buses in the amount of \$752,772.00 is hereby approved;
- 2. The Clackamas County Department of Finance is hereby delegated limited authority to issue a PO to purchase the six (6) Ford E450 Shuttle Buses using the Contract.

[Signatures to Follow]

BEFORE THE BOARD OF COUNTY COMMISSIONERS OF CLACKAMAS COUNTY, STATE OF OREGON

In the Matter of Approving Issuance of Purchase Order to Purchase Six Ford E450 Shuttle Buses

Board Order No. ______

DATED this	_ day of	, 2022
BOARD OF COL	JNTY COMI	MISSIONERS
Chair		· · · · · · · · · · · · · · · · · · ·
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Recording Secre	tary	

EXHIBIT A VENDORS REQUEST FOR QUOTE RESPONSE



Northwest Bus Sales, Inc 33207 Pacific Highway South Federal Way, WA 98003 Phone (253) 841-9997 Fax (253) 845-9384 www.nwbus.com

September 8, 2022

To: Kristina Babcock Clackamas County

From: Tyler Todhunter – Northwest Bus Sales

Re: New Bus Quote

Hi Kristina,

Thank you for the opportunity to participate in your RFQ for Category D shuttle buses. Northwest Bus Sales aims to be the most competitively priced provider of quality buses, but where we really shine is in our support- both during <u>and after</u> the sale. Attached you will find our quote for your custom-built buses. We appreciate your business and look forward to working with you on this purchase. If you have any questions regarding this quote, please do not hesitate to call me at 253-841-9997.

Best Regards,

Tyler Todhunter Northwest Bus Sales tyler@nwbus.com www.nwbus.com

REQUEST FOR TRANSIT VEHICLE PRICE QUOTE (RFQ)

This is (check appropriate):					
Initial Request for Quote (from Requesting Agency to Vendors) Due Date: 09/09/22					
Response to RFQ (from Responding Vendor back to Requesting Agency)					
Grant Funded Purchase STIF Funds					
VENDOR (Business Name): <u>Northwest Bus Sales, Inc.</u>					
Vendor Contact Person: <u>Tyler Todhunter</u> Phone: <u>253-841-9997</u>					
Email Address: tyler@nwbus.com Alt Phone: 206-786-9244					
☑ Meets Buy America Standards (49 USC § 5323(j); 49 CFR part 661)					
REQUESTING AGENCY INFORMATION					
Agency: _Clackamas County Date: August 3, 2022					
Contact Person: Kristina Babcock Phone: 971-349-0481					
Email Address: kbabcock@clackamas.us Fax: 503-655-8889					
Agency Address: PO BOX 2950, Oregon City, OR 97045					
The above Agency, through its Public Transit program or public transit affiliate, is requesting price quotes from Oregon State Price Agreement Contract Vendors for the purchase of the following vehicle(s):					
From (circle): Oregon State Price Agreement) Other No. of Vehicles Required: 6					
PTD Vehicle Category (Check): (Please see PTD Vehicle Descriptions and Useful Life Standards)					
☐ Cat A ☐ Cat B ☐ Cat C ☑ Cat D ☐ Cat E (select from 1 to 3)					
Length: <u>20-25</u> Regular Seats: <u>10+2 fold down</u> ADA Stations/Tiedowns: <u>2</u>					
Fuel Type: 🗵 Gasoline 🗌 Diesel 🗌 Bio-fuel 🗌 Hybrid 🔲 CNG 🔲 Propane					
☐ High Floor ☐ Low Floor Other Comment:					

The general specification for vehicle is as follows:

A. VENDOR'S VEHICLE BASE PRICE INFORI	MATION	VEHICLE BASE PRICE		
This Section to be completed by Vendor		Enter base price from State		
Vehicle Make/Model: Ford E450 Endera (Formerly Metr	o Link)	Price Agreement below		
Length: 24'				
Fuel Type: Gasoline				
Floor: High Floor Low Floor Other:		#00 000		
No. of Regular Passenger Seats: 12 base, 14 as bid	\$86,880			
No. of ADA Stations w/Tiedowns Desired: 2				
Other Special Note:				
B. VEHICLE REQUIRED SP	ECIFICATI	ECIFICATIONS		
Requesting Agency completes Description column Vendor completes "Vendor Response" columns	VENDOR RESPONSE			
Requesting Agency's Required Specifications Description	Vendor Suggestions (related to vehicle specs)			
Please provide 3 previous Oregon Transit customers reference contact numbers who have purchased similar model units , we will inquire:				
 1. How responsive the vendor has been to warranty issues? 2. Were the vehicles delivered on time? 3. Were the vehicles delivered per the specifications in the RFQ? 4. Are there any other issues, concerns, or information regarding the vendor, shop staff, vehicle delivery, etc that you'd like to let me know about? 	Attached			
Note: Negative feedback may disqualify your bid from consideration.				
All standard specs per State Price Agreement - please include a list of vendor provided standard specs with RFQ response APPROVED EQUAL	Attached			
Items bid other than specified must be determined by the Buyer as an approved equal. Include in final bid detailed specifications, cutsheets, and modifications necessary that would make the proposed item equal to the desired specifications. Determination of approved equal will be made by the Buyer, and the decision is final.				
Altoona Test Executive Summary	Attached			

Requesting Agency's Required Specifications Description (Continued)	VENDOR RESPONSE Vendor Suggestions (related to vehicle specs)
External color standard white	Standard
The vehicle should be approximately 22 feet in length	24'
6.8 liter gasoline engine or equivalent	Ford 7.3L V8 Gasoline engine
14-passenger floor plan with front mounted lift system. Actual knee room for each fixed or foldaway seat of at least 10" measured from the front of the seat cushion to back of the seat back or barrier. Passenger side: 3 double fixed seats behind the lift. Driver side: two (2) wheelchair stations (two [2] double passenger foldaway seats) behind the driver. Then two fixed double seats.	Included in final price
Two (2) ADA securement stations	Standard
Braun Century Wheelchair Lift with 1,000 pound lifting capacity and 34" by 54" platform, or equivalent	Standard
Fast idle, part of wheelchair lift package	Standard
Slide 'N' Click wheelchair securement system	Included in final price
QRT-360 Wheelchair securements for two (2) wheelchair stations with standard non retractable adjustable lap/shoulder belt or equivalent	Included in final price
Minimum 65,000 BTU heater mounted under seat location approved on floor plan by agency	Standard
Minimum 68,000 BTU rear air conditioner	Included in final price
Heater booster pump	Standard
Minimum 195 AMP alternator	Standard
Circuit breakers in the electrical panel (no fuses)	Standard
Dual batteries, mounted together in stainless steel battery box w/ s.s. slides and locking cover	Batteries located securely in stepwell
Stainless steel stanchion and modesty panel behind driver Plexiglas barrier above stanchion; with aluminum hand rail above.	Standard
Battery master disconnect switch (driver side stepwell)	Standard, located above driver
Stainless steel stanchion w/ modesty panel at entrance door	Standard
Heated, remotely operated exterior mirrors with integrated turn signals (controls must be in reach of driver which allow adjustments while in a normal sitting position)	Included in final price
LED ADA light package, includes all exterior ADA lights (door activated)	Standard
Daytime running lights (LED) 7"	Included in final price
LED amber flashing lights, front and rear 7" or larger triggered with front door, lift and rear door to flash	Included in final price
LED light package for all standard/required rear stop, tail, and backup lights	Standard
LED step well lights	Standard
Fuel sender access cover	Standard

Requesting Agency's	VENDOR RESPONSE		
Required Specifications Description	Vendor Suggestions		
(Continued)	(related to vehicle specs)		
Back-up alarm (outside vehicle)	Standard		
Locking fuel fill door, aluminum or equivalent (not plastic, vinyl, or fiberglass)	Included in final price		
Raised flat floor (yellow with track lighting on riser if applicable)	Included in final price		
Mor/ryde suspension system or approved equivalent	Standard		
Exposed exterior screws must be stainless steel or equivalent, not coated or galvanized steel	Included in final price		
Street-side exhaust*** Pipe needs to send exhaust to street side and not cause any rear clearance issues. Do not run exhaust pipe under the rear bumper	Standard		
Running board driver's door, aluminum, 12" wide	Included in final price		
Locking exterior handle on wheelchair door	Standard		
Wheelchair door ajar light	Included in final price		
Rear emergency door w/ 2 windows w/ door ajar light and buzzer	Included in final price		
Electric passenger entrance Option to open electric front door from outside vehicle (key)	Standard		
Wide angle lens, rear door window	Included in final price		
Dual windows One (1) on each side of rear emergency door	Not available		
Grab handles LH and RH of entry way, angled to match entry steps and yellow powder coated.	Included in final price		
FRP Ceiling and Walls	Standard		
Power base for driver seat	Included in final price		
Driver's seat to be cloth and have equivalent features to Seats Inc. Legacy LO	USSC G2 driver seat, standard		
17" mid-back standard seats (Freedman or equivalent)	Standard		
Seat belt extension for driver (longest available up to 12")	Standard		
Aisle side seats to have armrests and grab handles	Standard		
All except driver's seat to be vinyl / level 4 upholstery or higher	Included in final price		
Seat back grab handles on aisle and window seats	Included in final price		
Four (4) 12 inch seatbelt extensions	Included in final price		
Yellow standee line and sign	Included in final price		
Yellow step nosing	Standard		
Drip moldings over all passenger windows (stainless steel or equivalent)	N/A, bonded windows		
Passenger side overhead railing (with straps)	Included in final price		
Full view curb window	Standard		

Requesting Agency's	VENDOR RESPONSE			
Required Specifications Description	Vendor Suggestions			
(Continued)	(related to vehicle specs)			
Front and Rear Romeo bumper or equivalent	Included in final price			
Altro non-skid floor coved to seat rail or equivalent	Included in final price			
FAK, Fire Ext, and BBP Kit mounted	Standard			
Triangle Reflector Kit-secured to the floor behind driver seat	Standard			
Seat Belt Cutter, Flashlight, mounted within reach of driver	Included in final price			
Four (4) scooter tie-down loops	Included in final price			
Matrix listing all warranties, component, company, contact information and duration.	Standard			
Inner dual tires air valve extender kit	Included in final price			
Interior passenger view mirror above the driver (adjustable)	Standard			
AM/FM/CD with color backup camera, Bluetooth and hands free technology. Exterior mounted camera 4 Speakers	Radio standard, backup cam display in rearview mirror.			
Full body/cab undercoating	Standard			
Armored light guards on marker lights	N/A, recessed lighting			
LED exterior light package	Standard			
Skirt mounted rear LED docking lights	Included in final price			
LED exterior entry door light, door activated	Standard			
LED side marker/turn signals	Standard			
Rear LED brake lights under rear body windows	Standard			
Door actuated LED interior ceiling lights	Standard			
Ad rails in front 2/3 of each side	Standard			
Pull cord stop request system w/transition stop request sign & buzzer - auditory & visual	Included in final price			
Bike rack for 3 bikes	Included in final price			
Front license plate bracket	Standard			
Single Switch Intermittent Wipers	Ford OEM			
Full vehicle wrap (graphics included in email) from Gillespie Graphics or equivalent	Included in final price			
Subtotal Cost of Required Options: \$37,972				
Total Vehicle Cost With All Required Options and TAX: \$124,852				

C. VEHICLE PREFERRED OPTIONS Vendor **\$Additional** Included in Suggestions Cost for Base Requesting Agency's Preferred Options Option\$ Price? (related to Description vehicle specs) (or Note Not YES / NO Available) \$40 NO Exterior height clearance decal (above driver) 4 Sets of keys, or fobs (split into sets) lift door and rear door, NO \$350 keyed alike Engine & transmission powertrain warranty at least 5 yrs/60,000 YES miles YES Front and rear mud flaps YES Locking bulkhead above driver LED yield signs with driver activation switch on dash (match YES TriMet yield sign ORS 811.167) New 7.3L motor is Not

NO

NO

YES

YES

Available

\$220

\$610

Subtotal Cost of Preferred Options:

Vendor's Response Back to RFQ – Please sign and date your response here.

Extension for Oil dipstick (allows for easy access)

Interior 4 Camera CCTV system (Seon or equivalent) with

Install TDSS systems under fold-away seats

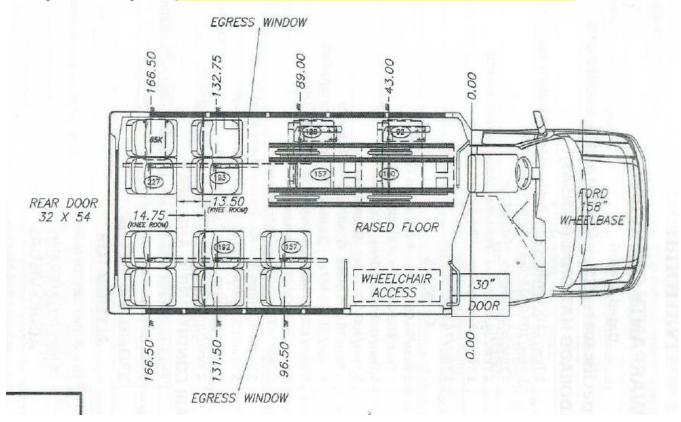
As built wiring diagrams and parts manual

minimum 250gb HD

much more

accessible \$110/ea

Sample Floor plan (Attach or cut-and-paste new plan here, or attach on back)



VENDOR INFORMATION

Vendors are strongly encouraged to submit price quotes using the format provided. Vendors should specifically note if and how they meet the above specifications, and note any differences in what has been called out above, in their price quotes. This may be done on the form, or on an attached sheet. The vehicle(s) will be purchased with funding from the Oregon Department of Transportation, Public Transit Division and the Requesting Agency, and will follow applicable Federal and State procurement guidelines.

Price Quote shall be submitted to the Requesting Agency contact person named on the first page on this form.

Price Quotes may be sent by U.S. Mail, emailed, or faxed to the addresses for Requesting Agency noted on page 1 of this form.

Vendors are required to submit the following certification attachments with each Quote response:

Attachment 1 – Certificate of Compliance with Bus Testing Requirement

Attachment 2 - Pre-Award FMVSS and Buy America Certification

Attachment 3 – Transit Vehicle Manufacturer (TVM) Certification (DBE)

VEHICLE SELECTION INFORMATION

Selection of the vehicle and successful price quote will be based on:	
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	nay
□ Best Value Determination (ODOT PTD pre-approval required.)	

The Best Value Determination criteria are as follows:

- Vehicle includes all required specifications (pass / fail)
- Lowest pricing will all required options sliding scale (40 pts)
- Preferred options offered (20 pts)
- Estimated date of delivery (15 pts)
- Agency's past experience with Vendor (25 pts)

The vendor with the highest overall score will be selected.

Attachment 1

BUS TESTING CERTIFICATION

The undersigned bidder [Contractor/Manufacturer] certifies that the vehicle model or vehicle models offered in this bid submission complies with 49 CFR Part 665.

A copy of the test report (for each bid ITEM) prepared by the Federal Transit Administration's (FTA) Altoona, Pennsylvania Bus Testing Center is attached to this certification and is a true and correct copy of the test report as prepared by the facility.

The undersigned understands that misrepresenting the testing status of a vehicle acquired with Federal financial assistance may subject the undersigned to civil penalties as outlined in the U.S. Department of Transportation's regulation on Program Fraud Civil Remedies, 49 CFR Part 31. In addition, the undersigned understands that FTA may suspend or debar a manufacturer under the procedures in 49 CFR Part 29.

Northwest Bus Sales, Inc.

Name of Bidder/Company Name

Type or print name

Tyler Todhunter

Signature of authorized representative

Signature of notary and SEAL

Date of Signature

08 19 2022



Attachment 2

PRE-AWARD CERTIFICATION FOR PROCUREMENT OF ROLLING STOCK (VENDOR)

PRE-AWARD AUDIT REQUIREMENTS

A recipient purchasing revenue service rolling stock with FTA funds must ensure that a pre-award audit under this part is complete before the recipient enters into a formal contract for the purchase of such rolling stock.

DESCRIPTION OF PRE-AWARD AUDIT

A pre-award audit under this part includes— (a) A Buy America certification; (b) A purchaser's requirements certification; and (c) Where appropriate, a manufacturer's Federal Motor Vehicle Safety certification information.

PRE-AWARD BUY AMERICA CERTIFICATION

For purposes of this part, a pre-award Buy America certification is a certification that the recipient keeps on file that:

- a. There is a letter from FTA which grants a waiver to the rolling stock to be purchased from the Buy America requirements under section 165(b) (1), (b)(2), or (b)(4) of the Surface Transportation Assistance Act of 1982, as amended; or
- b. The recipient is satisfied that the rolling stock to be purchased meets the requirements of section 165(a) or (b)(3) of the Surface Transportation Assistance Act of 1982, as amended, after having reviewed itself or through an audit prepared by someone other than the manufacturer or its agent documentation provided by the manufacturer which lists:
- 1. The Component and subcomponent parts of the rolling stock that are produced in the United States is more than 60% for FY2016 and 2017, more than 65% for FY2018 and 2019, more than 70% for FY2020 of the cost of all components and subcomponents of the vehicle identified by the manufacturer; and
- 2. The location of the final assembly must take place in the United States (49 CFR 661.11), including a description of the activities that will take place at the final assembly point and the cost of final assembly.

PRE-AWARD PURCHASERS REQUIREMENTS CERTIFICATION

For purposes of this part, a pre-award purchaser's requirements certification is a certification a recipient keeps on file that:

- a. The rolling stock the recipient is contracting for is the same product described in the purchaser's solicitation specification; and
- b. The proposed manufacturer is a responsible manufacturer with the capability to produce a vehicle that meets the recipient's specification set forth in the recipient's solicitation.

If buses or other rolling stock (including train control, communication, and traction power equipment) are being procured, the appropriate certificate as set forth below shall be completed and submitted by each bidder in accordance with the requirements in 49 CFR 661.13(b).

PRE-AWARD FMVSS COMPLIANCE CERTIFICATION

As required by Title 49 of the CFR, Part 663 - Subpart D, the recipient certifies that it received, at the pre-award stage, a copy of the manufacturers self-certification information stating that the buses will comply with the relevant Federal Motor Vehicle Safety Standards issued by the National Highway Traffic Safety Administration in Title 49 of the Code of Federal Regulations, Part 571.

Bidder or offeror Certificate of:

COMPLIANCE with Buy America and FMVSS Rolling Stock Requirement	COMPL	JANCE	with	Buy	America a	nd FMVS	S Rolling	Stock Requirement
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As required by 49 CFR Part 663, the bidder or offeror hereby certifies that it will comply with the requirements of 49 U.S.C. 5323(j), and the applicable regulations of 49 CFR 661.11.

Company Northwest Bus Sales, I	Erc.
Name Tyler Todhunter	
Signature	Date
As required by 40 CER Part 663 the	ca and FMVSS Rolling Stock Requirements bidder or offeror hereby certifies that it cannot comply with the requirements of 49 U.S.C. on to the requirement consistent with 49 U.S.C. 5323(j)(2), as amended, and the applicable
Company	
Name	Title
Signature	Date

Attachment 3

TRANSIT VEHICLE MANUFACTURER (TVM) CERTIFICATION

Pursuant to the provisions of Section 105(f) of the Surface Transportation Assistance Act of 1982, each bidder for this contract must certify that it has complied with the requirements of 49 CFR Part 26.49, regarding the participation of Disadvantaged Business Enterprises (DBE) in FTA assisted procurements of transit vehicles. Absent this certification, properly completed and signed, a bid shall be deemed non-responsive.

Certification:

I hereby certify, for the bidder named below, that it has complied with the provisions of 49 CFR Part 26.49 and that I am duly authorized by said bidder to make this certification.

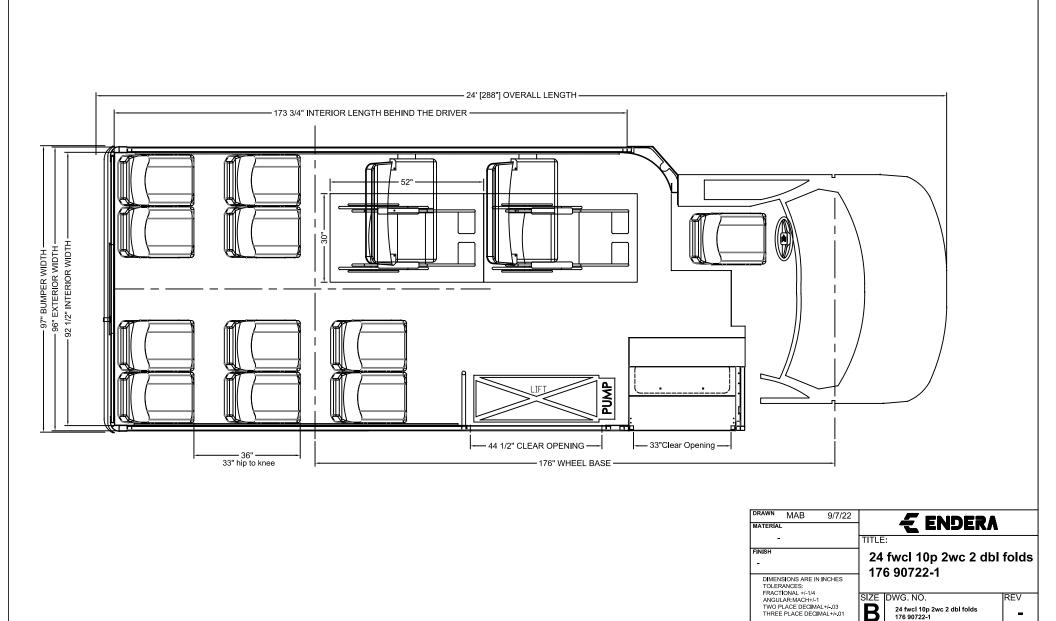
Name of Bidder/Company Northwest Bus Sales, Inc.

Name Type or print Tyler Tadhunter

Signature of Authorized Representative

Date 8/19/22

Signature of notary and SEAL Alluy Norgh



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24 fwcl 10p 2wc 2 dbl folds 176 90722-1

NONE WEIGHT:

B

SCALE:

DO NOT SCALE DRAWING

REV

SHEET 1 OF 1



Northwest Bus Sales, Inc 33207 Pacific Highway South Federal Way, WA 98003 Phone (253) 841-9997 Fax (253) 845-9384 www.nwbus.com

To: Kristina Babcock

From: Tyler Todhunter – Northwest Bus Sales

Re: Altoona Test Report

Hi Kristina,

Thank you for the opportunity to participate in your RFP for a Category D shuttle bus. To follow, you will find the Altoona Test Report for the recently rebranded Endera shuttle bus. This bus was originally designed by Winnebago Industries as a venture into the shuttle bus market. Winnebago eventually sold their design to Metro Worldwide, who marketed it as the Metro Link shuttle bus.

Recently, Metro Worldwide was acquired by Endera Automotive and was again rebranded. The structure of the bus has not changed through the transitions, and the reports applicability to the buses being produced remains unchanged.

Please let me know if you have any questions regarding this or any other matter in the RFQ. Thank you.

Best Regards,

Tyler Todhunter Northwest Bus Sales 253-841-9997 tyler@nwbus.com

STURAA TEST

7 YEAR

200,000 MILE BUS

from

WINNEBAGO INDUSTRIES, INC.

MODEL E-450

DECEMBER 2012

PTI-BT-R1212



The Thomas D. Larson Pennsylvania Transportation Institute

201 Transportation Research Building The Pennsylvania State University University Park, PA 16802 (814) 865-1891

Bus Testing and Research Center

2237 Old Route 220 N. Duncansville, PA 16635

(814) 695-3404



EXECUTIVE SUMMARY

Winnebago Industries Inc. submitted a model E-450, gasoline-powered 13 seat (including the driver) 24-foot bus, for a 7 yr/200,000 mile STURAA test. The odometer reading at the time of delivery was 1,627 miles. Testing started on July 2, 2012 and was completed on October 29, 2012. The Check-In section of the report provides a description of the bus and specifies its major components.

The primary part of the test program is the Structural Durability Test, which also provides the information for the Maintainability and Reliability results. The Structural Durability Test was started on July 11, 2012 and was completed on October 17, 2012.

The interior of the bus is configured with seating for 13 passengers including the driver. Free floor space will accommodate 8 standing passengers resulting in a potential load of 21 persons. At 150 lbs per person, this load results in a measured gross vehicle weight of 13,540 lbs. **Note: at GVL the rear axle weight is 570 lbs over the rear GAWR.** The first segment of the Structural Durability Test was performed with the bus loaded to a GVW of 13,540 lbs. The middle segment was performed at a seated load weight of 12,360 lbs and the final segment was performed at a curb weight of 9,250 lbs. Durability driving resulted in unscheduled maintenance and failures that involved a variety of subsystems. A description of failures, and a complete and detailed listing of scheduled and unscheduled maintenance is provided in the Maintainability section of this report.

Effective January 1, 2010 the Federal Transit Administration determined that the total number of simulated passengers used for loading all test vehicles will be based on the full complement of seats and free-floor space available for standing passengers (150 lbs per passenger). The passenger loading used for dynamic testing will not be reduced in order to comply with Gross Axle Weight Ratings (GAWR's) or the Gross Vehicle Weight Ratings (GVWR's) declared by the manufacturer. Cases where the loading exceeds the GAWR and/or the GVWR will be noted accordingly. During the testing program, all test vehicles transported or operated over public roadways will be loaded to comply with the GAWR and GVWR specified by the manufacturer.

Accessibility, in general, was adequate, components covered in Section 1.3 (Repair and/or Replacement of Selected Subsystems) along with all other components encountered during testing, were found to be readily accessible and no restrictions were noted.

The Reliability section compiles failures that occurred during Structural Durability Testing. Breakdowns are classified according to subsystems. The data in this section are arranged so that those subsystems with more frequent problems are apparent. The problems are also listed by class as defined in Section 2. The test bus encountered no Class 1 or Class 2 failures. Of the 6 reported failures, 5 were Class 3 and 1 was a Class 4.

The Safety Test, (a double-lane change, obstacle avoidance test) was safely performed in both right-hand and left-hand directions up to a maximum test speed of 45

mph. The performance of the bus is illustrated by a speed vs. time plot. Acceleration and gradeability test data are provided in Section 4, Performance. The average time to obtain 50 mph was 14.83 seconds. The Stopping Distance phase of the Brake Test was completed with the following results; for the Uniform High Friction Test average stopping distances were 25.10' at 20 mph, 48.85' at 30 mph, 81.76' at 40 mph and 102.00' at 45 mph. The average stopping distance for the Uniform Low Friction Test was 24.82'. There was no deviation from the test lane during the performance of the Stopping Distance phase. During the Stability phase of Brake Testing the test bus experienced no deviation from the test lane but did experience pull to the left during both approaches to the Split Friction Road surface. The Parking Brake phase was completed with the test bus maintaining the parked position for the full five minute period with no slip or roll observed in both the uphill and downhill positions.

The Shakedown Test produced a maximum final loaded deflection of 0.145 inches with a permanent set ranging between 0.001 to 0.005 inches under a distributed static load of 9,075 lbs. The Distortion Test was completed with all subsystems, doors and escape mechanisms operating properly. No water leakage was observed throughout the test. All subsystems operated properly.

The test bus submitted for testing was not equipped with any type of tow eyes or tow hooks, therefore the Static Tow Test was not performed. The Dynamic Towing Test was performed by means of a front-lift tow. The towing interface was accomplished using a hydraulic under-lift wrecker. The bus was towed without incident and no damage resulted from the test. The manufacturer does not recommend towing the bus from the rear, therefore, a rear test was not performed. The Jacking and Hoisting Tests were also performed without incident. The bus was found to be stable on the jack stands, and the minimum jacking clearance observed with a tire deflated was 9.0 inches.

A Fuel Economy Test was run on simulated central business district, arterial, and commuter courses. The results were 8.83 mpg, 9.24 mpg, and 15.21 mpg respectively; with an overall average of 10.18 mpg.

A series of Interior and Exterior Noise Tests was performed. These data are listed in Section 7.1 and 7.2 respectively.

The Emissions Test was performed. These results are available in Section 8 of this report.



ENDERA ORDER FORM

+1 419.523.3593 804 N. Pratt St. Ottawa, OH 45875

Date: Sales: 805-689-4430 Form revision date 01/12/22 jblack@enderacorp.com Warranty / Parts: 419-523-3593 **SHIPPING / PAYMENT INFORMATION CUSTOMER INFORMATION** Ship Best Way to Location Below: Customer Pick Up: Customer: Northwest Bus Sales, Inc. Ship To: 33207 Pacific Hwy S Address: Address: Federal Way, WA 98003 City, St. Zip: City, St. Zip: Tyler Todhunter Contact: Contact: 253-841-9997 Phone: Phone: 253-845-9384 Fax: Payment: P.O. #: Additional ARE FTA FUNDS USED? Shipping TA INFO REQUIRED Instructions YES or NO YES Is this for a contract? YES or NO Model Number: Number of units in this order: YES Description: Seating Capacity: If YES please complete the fields to the right End User Information State of Oregon - Agency Name Applicable FIN / FAN Code: Name: QS045 Address: City, St. Zip: CHASSIS QTY CHASSIS ADDED 21-E4F-S158 Ford E450, 158" WB, 7.3L V-8 Gas Engine, 14,500 GVWR, Door Delete 1 Chassis Transfer Fee 1 1 Less: Applicable Government Bid Assistance Less: Applicable Fleet Allowance Less: Applicable Commercial Retail Allowance Less: Commercial Upfit Allowance Less: Mobility Allowance Less: PNI Allowance 51A - ORDOT Base Spare Tire & Wheel **BASE CONVERSION** QTY Endera - FORD E450 - Standard Floor ORDOT Base 2021 - 24', E450, 158" WB, 14,500 GVWR 1 **BODY / CONVERSION OPTIONS** Option # **Option Description** QTY PARATRANSIT OPTIONS **ORDOT Base** Lift - ADA with Double Wheel Chair Doors, Windows, Shift Interlock & Lights **ORDOT Base** Priority seating and wheelchair decals

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	-	DD ALINI WILLEST OLIAID LISTO			
ORDOT Base		BRAUN WHEELCHAIR LIFTS Prove Continue NICL 2454 2 Lift 24" 45" 4000 With Poor Divers 8 Sefety Bolt			
ORDOT Base	1	Braun Century - NCL3454-2 Lift, 34"x54", 1000# with Rear Pump & Safety Belt			
CDDCTD	l _	Q-STRAINT W.C. SECUREMENT KITS			
ORDOT Base	2	Q-8300-A1-L - QRT MAX - Retractable Shoulder / Lap Belt Combo - L Track			
		MISCELLANEOUS PARATRANSIT ACCESSORIES		1	
ORDOT Base	1	Q-Straint Lap Belt Extention, 20" (Q5-6340-20-INT)			
ORDOT Base	1	Q-Straint Belt Cutter (Ship Loose)			
	ı	FLOORING			
ORDOT Base	1	Profusion KoroTrans Grey, Ribbed Aisle			
ORDOT Base	1	Standee Line Behind Driver at Entrance Stanchion w/ Decal	Color		
ORDOT Base	1	Cove Flooring on Sidewall to Bottom of Seat Track			
	ı	ELECTRICAL			<u> </u>
ORDOT Base	1	Battery Disconnect Switch Mounted in Bulkhead Above Driver			
ORDOT Base	1	Pre-wire +/- Ignition at Doghouse			
ORDOT Base	1	Back Up Alarm			
ORDOT Base	1	Engine Compartment Light			
ORDOT Base	1	Circuit Breaker Fuses			
ORDOT Base	1	Install 5 camera system - NWB to supply			
	ı	EXTERIOR LIGHTS			
ORDOT Base	1	Illuminated Flashing Yield Light wired to Turn Signal on Rear of Bus			
ORDOT Base	1	Midship Turning Lights			
		AUDIO / VISUAL		1	
ORDOT Base	1	Rosco Rearview Monitor with display in rearview mirror			
ORDOT Base	1	Intermotive Fast Idle (AFIS), No Interlock			
ORDOT Base	1	Internal Speakers w/wire - 2 rear with OEM AM/FM Radio			
COROTE		DOORS / WINDOWS		1	
ORDOT Base	1	Key Switch for Entrance Door			
ORDOT Base	5	Vented Windows with Flush Side Slider (Each)			
ODDOT Date		CHASSIS / EXTERIOR			
ORDOT Base	1	6" Extruded Aluminum Running Boards with Intergrated Front Mud Flaps			
ORDOT Base ORDOT Base	1	MorRyde RS Rear Suspension			
ORDOT Base	1	Exterior Mirrors, Rosco Remote Power - Heated, RH & LH, Black Arms (Exchang Valve Stem Extender Inner Dual Rear Wheel, pair			
ORDOT Base	1	Alignment Certification Post-Production			
ONDOT base	'	SIDEWALL / CEILING / HATCH			
ORDOT Base	1	Sidewall: White Paneling (Black is Standard)			
ONDOT Base		INTERIOR			
ORDOT Base	1	Interior Convex Mirror 6" x 9"			
ONDOT Base	ļ.	LUGGAGE RACKS / STORAGE			
ORDOT Base	1	Key Locks for Driver Storage and Electrical Cabinet			
011201 2000	'	CLIMATE CONTROL			
		ACC CLIMATE CONTROL A/C SYSTEMS			
		ACC DUAL COMPRESSOR SYSTEMS - SKIRT CONDE	NSER		
ORDOT Base	1	55K BTU Total - ACC-R2262T - Tie In, Skirt Cond., Ceiling Evap.			
	<u> </u>	Pro Air HEATERS			
ORDOT Base	1	Pro Air #465LP Rear Heater-65K BTU, 3 Speed-Mounted Under Seat With Shut 0	Off Valves		
		MISCELLANEOUS - HEATER & A/C ACCESSORIES &			
ORDOT Base	1	Heater Booster Pump, Includes Electric Water Valve in lieu of Manual Valves			
		SAFETY OPTIONS			
ORDOT Base	1	5 Lb. ABC Fire Extinguisher w/ Bracket			
ORDOT Base	1	Bi-Directional Reflective Triangles			
ORDOT Base	1	25 Unit First Aid Kit w/ Plastic Waterproof Case, ANSI 2009			
ORDOT Base	1	Decal - "Please Fasten Your Seat Belt"			
	1	GRAB RAIL / STANCHION / PANELS			
ORDOT Base	1	Ceiling Grab Rail Curbside (ADA requirement)			
ORDOT Base	1	Ceiling Grab Rail Streetside			
ORDOT Base	1	Angled Stanchion Behind Driver with 1/4" Plexiglass Panel			
ORDOT Base	1	Modesty Stanchion in Front of Rear Lift			
		+	1		

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		MISC OPTIONS			
		SEATING DRIVER'S SEATING			
ORDOT Base	1	USSC G2 ELP with Arm Rest, Tilt, and Lumbar			
J.1.5 G.1. 5400	•	OEM DRIVER SEAT RE-COVERED TO MATCH PASSENGER SEATS			
	FREEDMAN SHIELD & LO CAM DRIVER SEAT FABRICS				
		EUROPEAN OR AMERICAN WOOL QUOTED AT TIME OF ORDER			
ORDOT Base	1	Driver Seat Cover - Level 3	color # & name		
	•	PASSENGER SEAT FABRIC			
		EUROPEAN OR AMERICAN WOOL QUOTED AT TIME OF ORDER			
ORDOT Base	12	Seat Cover - Level 3	color # & name		
Į.		PASSENGER SEATING			
		FREEDMAN FEATHERWEIGHT STANDAR	D RIGID SEATS		
ORDOT Base	6	Featherweight Mid-High Double Seat			
*		SEAT OPTIONS			
ORDOT Base	6	AV Grab Handle, Black - Each on:	Aisle		
ORDOT Base	6	Flip-Up US Armrest, Black - Each on:	Specify Location		
-		SEAT BELTS			
ORDOT Base	4	Seat Belt, Non-Retractable (SPECIFY QUANTITY)			
ORDOT Base	8	Seat Belt, USR Freedman Retractable (Per Person) N/A Foldaway	or Flip Seats		
ORDOT Base	3	Seat Belt Extension, 12"			
ORDOT Base	1	Non-Retractable belts along rear wall			
-		-			
		OTHER OPTIONAL EQUIPMENT & F	EATURES		
ORDOT Base	1	Minimum 27" Knee to Hip			
ORDOT Base	1	Weight Slip included with bus			
ORDOT Base	1	Alignment printout included with bus			
ORDOT Base	1	Redundant Ground between chassis and power unit			
ORDOT Base	1	Circuit panel legend on access door			
ORDOT Base	1	Water test; 2gpm@40psi for 15 minutes, report included with bus			
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		PRODUCTION NOTES / INS	STRUCTIONS		

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DEALER 58W 653

E45F SD COMMERCIAL CUTAWAY VAN SPECIAL DEALER ACCOUNT ADJUSTM SPECIAL FLEET ACCOUNT CREDIT 158 INCH WHEELBASE 2021 MODEL YEAR YZ OXFORD WHITE XE MEDIUM FLINT NO UPHOLSTERY PREFERRED EQUIPMENT PKG.782A .STANDARD TRIM 572 .AIR COND FRT ONLY-CFC FREE 587 .ELEC AM/FM STEREO W/CLOCK 646 .16X6 WHITE PAINTED STEEL WHLS 99N 7.3L V8 PREMIUM-RATED ENG. 44P ELEC 6-SPD AOD W/TOW-HAUL T68 .LT225/75R16E DRW HANKOOK X83 4.56 RATIO REGULAR AXLE X83 516 SPARE TIRE/WHEEL NOT INCLUDED 47B SHUTTLE BUS PREP PACKAGE .FRONT LICENSE PLATE BRACKET .ENGINE BLOCK HEATER .FRAME PUCKS (ISOLATORS) 18A HIGH-SERIES EXT UPGRADE PKG JOB #2 ORDER FORD FLEET SPECIAL ADJUSTMENT SHUT BUS DIS-158/176 99L/S 162 VINYL FLOOR COVERING, FRONT 20F 14500# GVWR PACKAGE 21S DRIVER CAPTAIN CHAIR W/O TRIM 425 50 STATE EMISSIONS 43D DRIVESHAFT UPGRADE 525 CRUISE CONTROL 54F EXTERIOR MIRROR DELETE 57J AUX HEATER CONNECTOR PKG 60X RIGHT HAND DOOR NOT INCLUDED .PASSENGER AIR BAG DELETE 625 INSIDE REARVIEW MIRROR 630 ALTERNATOR (240 AMP) 656 FUEL TANK 55 GALLON CAPACITY 672 FRONT MAX GAWR X NO TRIM 942 DAYTIME RUNNING LIGHTS 981 GASEOUS ENGINE PREP PACKAGE ******** NOT FOR AMBULANCE USE. * FORD WARRANTY IS VOID IF USED AS AN AMBULANCE

This Invoice may not reflect the final cost of the vehicle in view of the possibility of future rebates, allowances, discounts and incentive awards from Ford Motor Company to the dealer.

Sold to								
			1	Order Type	Ramp Co	de	Batch ID	Price Level
Ship to (if other than abov		Date Inv. Prepared Item Nu		lumber Transit Days				
			Ship Through	•	•	•		
Invoice & Unit Identification NO. Final Assembly Point			F	Finance Company and/or Bank				
НВ	Invoice Total	A & Z Plan	D Plan	х	Plan		FPA	AA



Northwest Bus Sales, Inc 33207 Pacific Highway South Federal Way, WA 98003 Phone (253) 841-9997 Fax (253) 845-9384 www.nwbus.com

To: Kristina Babcock Clackamas County

From: Tyler Todhunter – Northwest Bus Sales
Re: RFQ for Category D shuttle buses – References

Hi Kristina,

Thank you for the opportunity to participate in your RFQ for Category D buses. Please find, below, references for the Endera (Formerly Metro Link) shuttle bus sold to Oregon agencies

Curry Public Transit Dana Hall 541-412-8806	Mid Columbia Economic Development District Jessica Metta 541-296-2266 x 1001			
Star of Hope Activity Center	Central Oregon Intergovernmental Council			
Theresa Collins	Drew Orr			
541-888-8893	541-771-9909			

If you have any questions regarding our response, please do not hesitate to call me at 253-841-9997.

Best Regards,

Tyler Todhunter Northwest Bus Sales tyler@nwbus.com www.nwbus.com

Oil Dipstick Locations

Old New



COVER SHEET

☐ New Agreement/Contract					
☐ Amendment/Change/Extension to					
□ Other					
Originating County Department:					
Other party to contract/agreement:					
Document Title:					
After filing please return to:					
]	☐ County Admin				
	Procurement				
If applicable, complete the following:					
Board Agenda Date/Item Number:					