



**ADDENDUM No. 1
to
BID DOCUMENTS
for
WRTA
Invitation to Bid # 2021-7
Light Transit Vehicles
Youngstown, Ohio
July 16, 2021**

The original bidding documents for the above referenced project are hereby amended as noted in Addendum No. 1.

Bidders shall verify and acknowledge receipt of this Addendum on the Form provided in the Invitation to Bid (ITB). Failure to acknowledge the Addendum may subject the bidder to disqualification.

Clarifications/Questions:

Q1: Does the proposal need to include all 3 body types in the ITB? Or can a proposal only have 1 body type?

A1: A vendor may bid on a single bus type up to all three bus types. The ITB may result in multiple awards being made.

Q2: Page 10, Sec. 5B. Maximum exterior Height: 10" – We believe that likely WRTA meant 10', instead of 10". Our vehicle height without a roof top condenser or roof hatch is nominally 114" or just under 10' at 120". The WRTA specification and options calls for a number of roof top devices that may chew up the 6" clearance [e.g.; branch guards, condensers]. To be safe please allow for a 10' 8" height clearance or 128".

A2: Approved. Update to Page 10, Section 5B:

5B.	Maximum exterior height: 10" 10'- 8" (ten foot- eight inches)
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Q3: Page 11, Sec. 10C. 6.8L Engine – Please note that Ford no longer offers the 6.8L engine. Today, Ford offers the 7.3 L engine in two [2] configurations, an economy [derated] and a premium version. We would recommend the premium 7.3L version which has taken the place of the 6.8L engine.

A3: Engines that meet or exceed 350 horsepower and 468 lb.-ft of torque at 3,900 rpm shall be accepted.



Q4: Page 12, Sec. 12D. Turn Signals – Please clarify, this section. We typically rely on the Ford chassis turn signals on the front. We can offer two amber turn signals on the rear just above the bumper, and we can offer two amber and we can offer two rear additional high mount amber turn signals on the rear wall. What confuses us is; “front and rear upper corners of each side of the vehicle.” Are these “front...upper corners” turn signals to be above the windshield in the bus body? Please clarify.

A4: Update to Page 12, Section 12D:

12D.	LED amber turn signals shall be provided front and rear upper corners of each side of vehicle in the bus body . These are in addition to standard front/rear turn signals.
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Q5: Page 13, Sec. 20D. Wiring – Our standard bus body electrical panel/box does not use a circuit board[s]. Instead, we use a series of buss bars, ignition hot and battery hot, that circuit breakers can rest in and provide circuit protection for the various circuits. Please allow electrical systems that do not require circuit boards. If WRTA insists we can offer an InPower Solid State Electrical System. We have found that our standard electrical system is technician friendly and much more affordable and reliable than repairing an electrical system that consists of expensive circuit boards.

A5: WRTA desires to maintain Page 13, Section 20D as specified.

Q6: Page 13, Sec. 22D. Switch Panel – We plan to offer the standard Ford E Series with its stock control console switch panel. For the body circuits that require operator control [e.g.; door, heat] we offer our standard rocker switches that are clearly labeled and lit. Please approve or clarify.

A6: Labeled and lighted rocker switches for body control circuits are acceptable. Location of switches shall be approved by WRTA prior to installation.

Q7: Page 13, Sec. 25D. Wiring Diagrams – Our wiring diagrams as standard are provided on a CD instead of a thumb drive. Please approve.

A7: WRTA desires to maintain Page 13, Section 25D as specified.



Q8: Page 14, Sec. 2F. Mat – The Ford OEM standard chassis flooring in the driver’s area is black rubber like. Please clarify if this is acceptable, or if the WRTA is requiring an additional black rubber mat that is removable.

A8: OEM black rubber type flooring in driver’s area is acceptable.

Q9: Page 16, Sec. 2G. Seat Material – Freedman offers a variety of Level 3 Prediction fabrics. Newport Ash Grey in the last sentence of this section is a Level 1 fabric. Please clarify.

A9: Page 16, Section 2G updated:

2G.	Seat Material: Seat padding shall be fire-resistant, low smoke, low toxicity and shall meet FMVSS 302. Passenger seats shall be fully padded. Passenger seats shall be upholstered with a Docket 90 approved smooth grain (no texture) vinyl 32-ounce minimum fabric. All seat backs and cushions in the vehicle shall be of the same pattern and a grey color (to be approved by WRTA prior to placing vehicle order). All seats shall be fully encapsulated with flame blocker.
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Q10: Page 18, Sec. 1J. Floor Construction – Please approve our floor construction which is a superior design than specified that improves crashworthiness and longevity. Floor design has been approved by ODOT and many large transit agencies [e.g.; NY MTA, Pace Suburban Bus, TARTA {Toledo}, Metro RTA {Akron}].

Floor frame is constructed of high strength low alloy 11-gauge steel “Z” members with 50,000 PSI yield strength, equaling a 66.7% increase in yield strength with a .06% increase in weight. Subfloor superstructure is overlaid with a metal, either steel or aluminum belly pan to protect the ¾” marine grade plywood subfloor from moisture, road debris and the elements.

A10: Approved providing requirements of Flat Floor option 12T and all other associated specifications are satisfied.

Q11: Page 21, Sec. 6L. Tracks: As we read it, this section specifies three different securements: 1) Transverse L track [side to side], 2) Longitudinal L track [front to back] and 3) Slide-N-Click [single point]. Transverse L track and Slide-N-Click securements are close in pricing, but not identical. Longitudinal track is significantly more expensive than the other two securements because of the increased length and number of track required. Which of the three is for base bid pricing? We did not see on the price sheet option pricing for two of these securements, assuming one is to be base proposal. We only saw the option for pricing additional lengths of track. Perhaps, a solution is, at time of order a customer can choose either transverse L-track or Slide-N-Click since these two are close in pricing; but if the customer wants longitudinal track the additional pricing could be determined by using the “Optional L-Track per foot” pricing on the WRTA price sheets. Please clarify.

A11: Slide-N-Click, AMF Bruns Smart Fitting or equivalent shall be used for base bid pricing.



Q12: Page 21, Sec. 7L. Securement Storage: Regarding; “An approved storage pouch or under seat storage if Slide n Click anchorages are chosen, must be supplied to secure the retractors when not in use.” Is securement storage required if one of the two L-track systems is ordered. What does “approved” mean? Can the manufacturer provide either a pouch or the Freedman TDSS system, or is this customer choice? Please clarify.

A12: A wall track or Freedman TDSS storage system shall be used for anchor storage. A Freedman TDSS system in combination with a wall storage rail is acceptable.

Q13: Page 21, Sec. 8L. Lift Door Lock: Instead of a stainless-steel handle, please allow our standard lift door handle and lock, which is anodized black handle with push button lock. This handle has been approved by ODOT in recent previous solicitations. This handle is used by many transit agencies across the country.

A13: WRTA desires to maintain the stainless-steel handle specification. Push button lock is acceptable.

Q14: Page 22, Sec. 12L. - Please increase 50 to 100 cycles. Rarely, anything close to 50 is realized, but on rare occasions a lift may be cycled more than 50 times if during manufacturer or during dealer preparation and inspection, a lift requires attention.

A14: WRTA desires to maintain Page 22, Section 12L as specified.

Q15: Page 24, Sec. 8Q: Please change first sentence to read; “Vendor(s) will deliver vehicle within 180 days of receipt of chassis.” As we are sure, WRTA is aware, there is an automotive industrywide computer chip shortage. This chip shortage has virtually shut-down chassis manufacturers’ ability to deliver chassis to bus manufacturers.

A15: Vendor(s) will deliver vehicle within 180 days of purchase order. WRTA will consider alternate delivery time periods considering the current chassis shortage. Should a chassis not be available at the time a purchase order is issued WRTA may choose to cancel the purchase order or be placed on the bus body manufactures production schedule. The schedule shall be made available for viewing prior to WRTA accepting a position on the production schedule. The production schedule shall be made available for review at the request of WRTA. The review will be to ensure the distribution of chassis follows schedule as indicated at time of issuing purchase order. Should a chassis not become available in a reasonable timeframe the purchase order may be canceled.

Q16: Page 25, Sec. 1T thru 4T: Please provide contact information for the Avail representative that is familiar with the WRTA account. Since detailed specifications are not provided, we will need to be sure to speak to the right person at Avail to source your specific equipment.

A16: Thomas Nodell: tnodell@availtec.com or oemproposals@availtec.com



Q17: Page 25, Sec. 6T Hanover Destination Sign System: Please confirm that WRTA wants an amber sign as listed under 5T for Luminator, or clarify. Hanover offers white, amber and color signs in the models specified and pricing varies widely depending on choice.

A17: Luminator and Hanover destination signs shall be amber.

Q18: Page 26, Sec. 8T Antenna Access Port: Our standard access is a square framed lockable hinged access door about the same size as the specified port. Please approve as equal.

A18: Square framed lockable hinged access is acceptable providing the frame is no larger than 64 square inches.

Q19: Page 26, Sec. 11T: This section lists the Romeo Rim type help bumper as an option, and it is listed on the pricing pages at the end of the solicitation document as an optional equipment item. Page 20, Section 18J appears to list the help style bumper as an equipment item to be included in the base bid vehicle price. Please clarify, what type of rear bumper is required for the base bid vehicle.

A19: The base bid shall include an energy absorbing rear bumper such as the HELP (Romeo Rim), SMI, or equivalent, black in color.

Q20: Page 26, Sec. 12T: The LTV 12/3 seating plan on page 43, which we understand is the base bid seating plan shows three [3] wheelchair positions. To maintain the specified aisle width with three [3] wheelchair positions, a flat floor is required. Should base bid pricing include the cost of a flat floor so to accommodate the three [3] wheelchairs, or is the cost of the flat floor to be excluded from base vehicle pricing with the flat floor being a mandatory option that must be selected by the customer to allow for the third wheelchair. Please clarify.

A20: Exclude flat floor cost in base bid and consider the flat floor as a mandatory option. Indicate the cost for the flat floor option as requested on the cost proposal forms.

Q21: Page 27, Sec. 18T & 19T: We reviewed sections 2.8 Fixed Route Graphics and 2.9 Para-Transit Graphics. From the photos provided it appears that Fixed Route Graphics is used on the LTL [low floor bus] and Para-Transit Graphics is used on the LTV. Is it possible that the two graphics could be used on either the LTL or LTV? The reason we ask is that for the LTV; on page 86 only 2.9 paratransit graphics pricing is requested, on page 91 pricing asks for fixed route 2.8 pricing only, and not paratransit 2.9 pricing, and on page 96 pricing for both 2.8 and 2.9 graphics are requested for the LTL. Please clarify.

A21: Fixed Route Graphics and Para Transit Graphics may be used on both LTL and LTV vehicle types.



Q22: Page 28, Sec. 40T: Please approve as an equal to the specified Thermo King unit, the Mobile Climate Control AC-8W1R1MAX. This MCC unit consists of a roof mounted condenser, a rear wall mounted evaporator, adds the QP-21 compressor to provide a total of two compressors and combined with the Ford OEM chassis HVAC system is rated at 75,000 BTU.

A22: Mobile Climate Control AC-8W1R1MAX with QP-21 shall be an approved equal and accepted as an option. The LTV Cost Proposal forms have been updated to reflect this option.

Q23: Page 44, Sec. 2.13 and Page 58, 5.17: We wish to preference this request by noting that disputes are few and far between in our decades of business and those that have occurred have virtually all been resolved without formal remedies, but have been resolved with a dialogue between project team members from both parties. Contract provisions however that contain language to resolve disputes that are determined by one party only without any appeal to another impartial unbiased party are extremely unbalanced. We would ask that WRTA reconsider this language or delete it and rely solely on Section 5.17 on page 58 to allow for more common dispute resolution language [e.g.; arbitrator, court] that allows for an impartial review.

A23: Performance Disputes that may arise from this contract will follow language as described in Section 5.17 on Page 58.

Q24: Page 46, Sec. 3.5: Last paragraph: Please clarify, or provide some indication of which options that WRTA is considering since this is the defined basis of award as we understand this section. Also, please clarify, since it seems that WRTA may be willing to transfer option buses, if the basis of award will be impacted by other agencies that may purchase off this contract with slightly different option packages. Please also clarify for basis of award the meaning of the first paragraph in this section wherein WRTA reserves the right to award to other than the low bidder, yet this last paragraph indicates that basis of award is to lowest responsive and responsible bidder considering the bus price and selected options. Is this a negotiated procurement or a low bid style procurement? It appears to be low bid to us since the solicitation is entitled Invitation to Bid and much of the language seems to indicate it. Please clarify.

A24: The non-shaded items in the column named Cost Proposal Evaluation Items column strongly reflect current WRTA bus specifications. The items being evaluated are commonly utilized by WRTA.

This is not a Joint Procurement and basis of award will not be impacted by other agencies.

This procurement will be awarded to low bid providing (1) the bid submitted is responsive to the requirements set forth in the bid documents including all addendums, (2) the completeness of the cost proposal and (3) the bidder is deemed responsible determined by one and up to all the following: financial records review, references, Federal Government Debarment, proposed



manufacturers' factory evaluation or other accepted method to deem responsibility may be utilized.

Q25: Page 46, Sec. 3.7: Paragraph 1: The ten-day period in this section appears to be in conflict with the 1.3 Timeline on page 7. If WRTA decides to consider additional questions up to 10 days before bids are due, then Please allow at least two weeks, preferably three weeks, after WRTA issues answers to final requests for approved equals and questions from all prospective bidders for bids to be due. WRTA has asked for a technical proposal and is requesting many optional equipment items, some fairly sophisticated [e.g.; Avail]. After WRTA responds to bidders' requests, it will take time to work with suppliers and bus manufacturers to prepare technical proposals and pricing. Ten days before bid opening in this section for submitting questions and then considering the time it would take for WRTA to review questions and issue a response would mean there could be less than one business week to prepare and deliver bids.

A25: All questions and requests for approved equals are due by 12:00 p.m. EST July 21, 2021.

Q26: Page 48, Sec. 4.5: Please confirm that bids shall be publicly opened as this section indicates. What are WRTA requirements for attending public bid openings? Please clarify.

A26: Proposals must be received in the offices of WRTA on or before Friday August 13, 2021 by 9:00 AM where proposals will be promptly opened a read aloud. The bid opening will be held outside of the offices. At this time if you are vaccinated for COVID 19 a mask is not required. The *apparent* low bidder for each vehicle type will be announced at the opening.

Q27: Page 66, Sec. 6: Regarding DBE items 9 through 11, Forms A & B and Schedule C: Our manufacturer is an FTA TVM and we can provide an FTA letter substantiating same. This solicitation according to the legal notice states there isn't a specific DBE goal. As a dealer we will rely on the manufacturer to meet FTA TVM requirements and as a dealer have little if any opportunity to add to the vehicle that would permit DBE participation. How should we complete each of these rather comprehensive forms that are more suited to non TVM procurements? May we just note on the forms that required details are not applicable for a TVM and sign? Can example of completed bus procurements in the past be provided? Please clarify.

A27: WRTA encourages DBE participation. Complete the forms as applicable to your company. If no forms apply to your company indicate appropriately "Approved TVM" on the forms.

Q28: Pages 84-98, Pricing: Please clarify, why the two columns on each of the pricing pages, one entitled "Unit Price (Include Price for all Available Options) and the other entitled "Cost Proposal Evaluation Items (non-shaded). Does this answer part of the question raised in our Question 23 above, the second column being basis of award items and the first column the entire list of options? Does WRTA want pricing for every listed optional equipment item in the first column, and then again for bidders to list the same corresponding prices for non-shaded



equipment items in column 2 so WRTA can determine basis of award? As a couple of examples, on page 89:

1. Item 1T, Avail paratransit system prewire, should a price be recorded in the first column or is this option not required for the LTV, since column two is shaded? It appears to us that after reviewing Sections 2.8 and 2.9 graphics that the LTV is WRTA's paratransit model?
2. Item 2T, Avail fixed route system prewire, should bidders record the same price in both columns? Graphic Section 2.9 seems to indicate that the LTV is a paratransit bus and the LTL fixed route as depicted in Section 2.8.

A28: The first column requests the cost of each option listed. The second column is the basis of award items. Pricing is requested for ALL options in the Unit Price (Include Price for all Available Options) column. Non-shaded cells in Cost Proposal Evaluation Items (non-shaded items) pricing are requested for proposal evaluation. Proposal Evaluation items shall be the same cost as identified in the Unit Price column.

C29: LTV Flat Floor Construction Specification Update (applies to honeycomb and steel cage LTV's):

12T.	Flat Floor Construction: In addition to the floor described elsewhere in this document, the floor shall be completely flat from the rear of the vehicle to just behind the driver. Must be constructed to not interfere with the forward and backward travel of the driver's seat. The height of the lengthwise and cross-sectional members shall be approximately equal with the intent of bringing the top of the composite floor structure to the same elevation as the top of the rear wheel well housings. All steps shall be placed consecutively in the step well. Maximum four (4) step entry is acceptable.
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Q30: We are respectfully requesting an approved equal for the wheelchair & occupant securement system, **Reference ITB# 2021-7**. We are asking if the specification may be modified to include our systems as well.

A30: AMF-Bruns shall be an approved equal as appropriate throughout this ITB. Update to Page 21, Section 6L:

6L.	Tracks: L-Track, Sure-Loc, Q-Straint, AMF-Bruns Platinum Series or approved equal, to secure wheelchairs in forward facing positions, flush mounted, with no gaps at ends or sides of track and floor covering. Four pieces of L-Track shall be used in larger vehicles running front to back of vehicle. When this method is used, the 2 outside tracks must be a minimum of 30" apart, and the 2 inside tracks must be a minimum of 13" apart. Where "L" track is utilized running side to side in the vehicle, recommended for smaller vehicles, the front to rear anchorage measurements shall be a minimum
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	<p>of 52" as per WC18 recommendation and securement suppliers recommended installation instructions. 54" is desirable if possible, and the length of track shall be NO less than 30" as to accommodate the majority of mobility devices. If there are 2 WC positions, one behind the other, the center run of track may share the securement of both chairs. In the event both locations cannot accommodate the 54" recommended spacing, the second location may be 48" to 52" in length and should be noted as such in the bid. Largest location should be closest to the lift.</p> <p>Q-Straint Slide n Click or AMF-Bruns Smart Fitting type floor anchorage is required, the 2 front anchorages must be a minimum of 30" apart and the 2 rear anchorages must be a minimum of 13" apart. The distance between the front and rear anchorages shall be a minimum of 52" as per WC18 recommendation and securement suppliers recommended installation instructions.</p>
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C31: Updated Cost Proposal Pages are included with Addendum 1 at end of questions.

C32: A pre-bid meeting was not scheduled for this ITB.

C33: Avail Technologies System Components shall be installed at the factory during the factory build process.

Q34a: Please approve the use of Docket 90 in addition to FMVSS 302be required for seating materials.

Q34b: Please approve Camira RHINO as an example of a source of upholstery with Freedman Seating.

Q34c: Please require a 5-year warranty for all seating upholstery materials.

A34a: (LTV) Seat Specification Page 16, Section 2G updated as follows:

2G.	<p>Seat Material: Seat padding shall be fire-resistant, low smoke, low toxicity and shall meet FMVSS 302. Passenger seats shall be fully padded. Passenger seats shall be upholstered with a Docket 90 approved smooth grain (no texture) vinyl 32-ounce minimum fabric. All seat backs and cushions in the vehicle shall be of the same pattern and a grey color (to be approved by WRTA prior to placing vehicle order). All seats shall be fully encapsulated with flame blocker.</p>
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(LTL) Seat Specification Page 34, Section 2H updated as follows:

2H.	<p>Seat Material: Seat padding shall be fire-resistant, low smoke, low toxicity and shall meet FMVSS 302. Passenger seats shall be fully padded. Passenger seats shall be upholstered with a Docket 90 approved smooth grain (no texture) vinyl</p>
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	32-ounce minimum fabric. All seat backs and cushions in the vehicle shall be of the same pattern and a grey color (to be approved by WRTA prior to placing vehicle order). All seats shall be fully encapsulated with flame blocker.
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A34b: All referenced upholstery manufactures removed from the specification.

A34c: Not approved. Standard seating and manufacturer warranties shall be accepted.

Updated Cost Proposal on following pages. Excel version of cost proposals accompanied Addendum 1.



COST PROPOSAL HONEYCOMB LTV

Light Transit Vehicle-Wide Body			
Honeycomb Fiberglass Construction			
Vendor Name			
Vehicle Chassis Manufacturer			
Model Year			
Body Manufacturer			
Body Manufacturer Plant Location			
Vehicle Pricing			
Light Transit Vehicle-Honeycomb	Floorplan	Unit Price (Include Price for all Available Options)	Cost Proposal Evaluation Items (non shaded items)
LTV- (ITEMS A-S)	LTV-12-3		
T. OPTIONAL ITEMS			
1T.	ITS: Avail Technologies pre-wire, paratransit configuration		
2T.	ITS: Avail Technologies pre-wire, fixed route configuration		
3T.	ITS: Avail Technologies complete turn-key installation, paratransit configuration		
4T.	ITS: Avail Technologies complete turn-key installation, fixed route configuration		
5T.	Destination Sign System: Luminator Horizon SMT <ul style="list-style-type: none"> ◦ Front: 14 row x 112 column, Amber ◦ Side: minimum 8 row x 64 column, Amber ◦ MCU: P/N 510632344 		
6T.	Destination Sign System: Hanover <ul style="list-style-type: none"> ◦ DD054 Front Sign 112 x 15 ◦ DD139 Side Sign 96 x 15 ◦ EG3 controller 		



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7T.	Radio Ground Plane: Grounded metal plate measuring at least 30"x 30" shall be provided in the center of the vehicle roof for the purpose of grounding a two-way FM radio antenna. In addition, conduit with draw string shall be provided from the plate to an area under the center portion of the dashboard for wiring the antenna to the radio unit. Aluminum foil backed tape will not be approved.		
8T.	Antenna Access Port: Threaded plastic, white		
9T.	Bicycle Rack: sportworks s/s NP DL2 – anti-glare		
10T.	Bicycle Rack: sportworks s/s DL2 – anti-glare		
11T.	Optional Rear Bumper: Energy absorbing bumper such as the HELP (Romeo Rim), SMI, or equivalent.		
12T.	Flat Floor Construction: In addition to the floor described elsewhere in this document, the floor shall be completely flat from the rear of the vehicle to just behind the driver. Must be constructed to not interfere with the forward and backward travel of the driver's seat. The height of the lengthwise and cross-sectional members shall be approximately equal with the intent of bringing the top of the composite floor structure to the same elevation as the top of the rear wheel well housings. All steps shall be placed consecutively in the step well. Maximum four (4) step entry is acceptable.		
13T.	Ceiling Handrails: Handrails meeting current bus regulations for size, extending from front stanchions to last row of passenger seats.		
14T.	Farebox Base & Prewire: Odyssey base w/power cable, power on/off with ignition		
15T.	Farebox ODYSSEY w/Base & Prewire <ul style="list-style-type: none"> ◦ Height 30" ◦ OCU Cable Orientation: Verify for each vehicle ◦ Cashbox ◦ Trim ◦ Swipe Card Reader ◦ Smart Card Reader ◦ Control Unit ◦ OCU ◦ OCU Cable FB to OCU 4' - 90° Connector 		
16T.	Farebox ODYSSEY w/Base & Prewire <ul style="list-style-type: none"> ◦ Height 36" 		



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	<ul style="list-style-type: none"> ◦ OCU Cable Orientation: Verify for each vehicle ◦ Cashbox ◦ Trim ◦ Swipe Card Reader ◦ Smart Card Reader ◦ Control Unit ◦ OCU ◦ OCU Cable FB to OCU 4' - 90° Connector 		
17T.	<p>Farebox ODYSSEY w/Base & Prewire</p> <ul style="list-style-type: none"> ◦ Height 41" ◦ OCU Cable Orientation: Verify for each vehicle ◦ Cashbox ◦ Trim ◦ Swipe Card Reader ◦ Smart Card Reader ◦ Control Unit ◦ OCU ◦ OCU Cable FB to OCU 4' - 90° Connector 		
18T.	<p>Fixed Route Bus Graphics Package: Custom see Section 2.8</p>		
19T.	<p>Paratransit Bus Graphics Package: Custom see Section 2.9</p>		
20T.	<p>Storage area for medical walkers, between lift and rear seat, with securement device</p>		
21T.	<p>Surveillance System: SEON Camera System (latest version meeting requirements will be accepted)</p> <ul style="list-style-type: none"> ◦ HD – TH8 recorder ◦ 4 Interior cameras – HD3Q series AHD camera ◦ 1 Interior forward facing - HD3Q series AHD camera ◦ Curbside exterior camera – HD3W series AHD camera ◦ Rear exterior camera – HD3W series AHD camera ◦ Rear camera monitor mounted for driver (location to be approved by WRTA) – Part #: DAM-1-07-MF (Rear Vision LCD Monitor, 7" Display, Four Trigger Inputs, Four Looping Video Inputs (SD Analog, AHD 720P, and AHD 1080P Supported), Harness Supports 2x3 MicroFit Connectors, Includes U-Bracket Mount and Sunshade) ◦ Wireless bridge SRLN07NP ◦ Panic Button 		



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22T.	Surveillance System: Additional interior camera - Seon		
23T.	Surveillance System: Additional exterior camera - Seon		
24T.	Surveillance System: Safety Vision System (latest version meeting requirements will be accepted) <ul style="list-style-type: none"> ◦ 4816 NVR – 4TB ◦ 4 Interior cameras – 35 Series ◦ 1 Interior forward facing – 35 series ◦ Curbside rear exterior camera – 36 series ◦ Rear exterior camera - 36 series ◦ Rear camera monitor mounted for driver (location to be approved by WRTA) – CP4 Hybrid ◦ Wireless ready 		
25T.	Surveillance System: Additional interior camera – Safety Vision		
26T	Surveillance System: Additional exterior camera – Safety Vision		
27T.	Securement device for oxygen tanks Q-Straint or equivalent to be track mounted.		
28T.	Two-way Radio (latest version meeting requirements will be accepted) <ul style="list-style-type: none"> ◦ ICOM Radio Model: IC-F6061D ◦ Laird B4502N 		
29T.	Three-Step Foldaway Seats (add or deduct): Single & double, Freedman 35" AM2 Foldaway or C.E. White ADA35 or equivalent		
30T.	Standard Double Passenger Seat w/Grabrail (add or deduct): Single, Double, Freedman (or approved equal).		
31T.	Jump Seats: Single, Double, Freedman (Featherweight Mid/Hi flip single or double or approved equal). Jump seats covers shall be the same as the regular passenger seats - option		
32T.	Jump Seats: Single, Double, Freedman (Featherweight Mid/Hi flip single or double or approved equal). Jump seats covers shall be the same as the regular passenger seats - option		
33T.	Single Integrated child seat: Freedman (I.C.S. or C.E. White Model LCR-35-1MB) or equivalent.		
34T.	Single Integrated Child Seat with adult companion seat		



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35T.	Driver's Seat: Freedman Sport 2.0 w/ right-side armrest		
36T.	Extended air valves for inner dual wheels		
37T.	Solid Color Paint Scheme: The exterior of the vehicle, except the roof crown, may be painted in one solid color from those offered in the manufacturer's list of available colors. The exact color will be specified on the purchase order. Bidder(s) shall provide paint colors upon request. Roof shall be clear coated to prevent paint from running on sides of vehicle.		
38T.	Mirror Mount on Front Hood: Crossover mirror		
39T.	Idle Engine Shutoff: Shutoff engine after running idle for continuous 15 minutes.		
40T.	Backup Alert System: Vehicle must have proximity sensors to alert operator.		
41T.	Backup Camera: Camera and monitor must show the area behind the vehicle when the vehicle is in reverse.		
42T.	Wheelchair Lift: 1,000lb capacity		
43T.	Air Conditioning Option: Thermo King w/TM 21 Compressor, inwall, roof condenser		
44T.	Air Conditioning Option: ACT TM16 Compressor, inwall, roof condenser		
45T.	Air Conditioning Option: MCC w/QP 21 Compressor, inwall, roof condenser		
46T.	Passenger Call Bell System		
47T.	Optional L-Track per foot Secure Lok, Q Straint, Omni Floor Anchor System, AMF-Bruns Platinum Series		
		TOTAL	



COST PROPOSAL STEEL CAGE

Light Transit Vehicle-Wide Body				
Fiberglass over Steel Cage Construction				
Vendor Name				
Vehicle Chassis Manufacturer				
Model Year				
Body Manufacturer				
Body Manufacturer Plant Location				
Vehicle Pricing				
Light Transit Vehicle-Steel Cage	Floorplan	Unit Price (Include Price for all Available Options)	Cost Proposal Evaluation Items (non-shaded items)	
LTV- (ITEMS A-S)	LTV-12-3 FIBERGLASS OVER STEEL CAGE BASE PRICE			
T. OPTIONAL ITEMS				
1T.	ITS: Avail Technologies pre-wire, paratransit configuration			
2T.	ITS: Avail Technologies pre-wire, fixed route configuration			
3T.	ITS: Avail Technologies complete turn-key installation, paratransit configuration			
4T.	ITS: Avail Technologies complete turn-key installation, fixed route configuration			
5T.	Destination Sign System: Luminator Horizon SMT <ul style="list-style-type: none"> ◦ Front: 14 row x 112 column, Amber ◦ Side: minimum 8 row x 64 column, Amber ◦ MCU: P/N 510632344 			
6T.	Destination Sign System: Hanover <ul style="list-style-type: none"> ◦ DD054 Front Sign 112 x 15 ◦ DD139 Side Sign 96 x 15 ◦ EG3 controller 			



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7T.	Radio Ground Plane: Grounded metal plate measuring at least 30"x30" shall be provided in the center of the vehicle roof for the purpose of grounding a two-way FM radio antenna. In addition, conduit with draw string shall be provided from the plate to an area under the center portion of the dashboard for wiring the antenna to the radio unit. Aluminum foil backed tape will not be approved.		
8T.	Antenna Access Port: Threaded plastic, white		
9T.	Bicycle Rack: sportworks s/s NP DL2 – anti-glare		
10T.	Bicycle Rack: sportworks s/s DL2 – anti-glare		
11T.	Optional Rear Bumper: Energy absorbing bumper such as the HELP (Romeo Rim), SMI, or equivalent.		
12T.	Flat Floor Construction: In addition to the floor described elsewhere in this document, the floor shall be completely flat from the rear of the vehicle to just behind the driver. Must be constructed to not interfere with the forward and backward travel of the driver's seat. The height of the lengthwise and cross-sectional members shall be approximately equal with the intent of bringing the top of the composite floor structure to the same elevation as the top of the rear wheel well housings. All steps shall be placed consecutively in the step well. Maximum four (4) step entry is acceptable.		
13T.	Ceiling Handrails: Handrails meeting current bus regulations for size, extending from front stanchions to last row of passenger seats.		
14T.	Farebox Base & Prewire: Odyssey base w/power cable, power on/off with ignition		
15T.	Farebox ODYSSEY w/Base & Prewire <ul style="list-style-type: none"> ◦ Height 30" ◦ OCU Cable Orientation: Verify for each vehicle ◦ Cashbox ◦ Trim ◦ Swipe Card Reader ◦ Smart Card Reader ◦ Control Unit ◦ OCU ◦ OCU Cable FB to OCU 4' - 90° Connector 		



16T.	Farebox ODYSSEY w/Base & Prewire <ul style="list-style-type: none"> ◦ Height 36" ◦ OCU Cable Orientation: Verify for each vehicle ◦ Cashbox ◦ Trim ◦ Swipe Card Reader ◦ Smart Card Reader ◦ Control Unit ◦ OCU ◦ OCU Cable FB to OCU 4' - 90° Connector 		
17T.	Farebox ODYSSEY w/Base & Prewire <ul style="list-style-type: none"> ◦ Height 41" ◦ OCU Cable Orientation: Verify for each vehicle ◦ Cashbox ◦ Trim ◦ Swipe Card Reader ◦ Smart Card Reader ◦ Control Unit ◦ OCU ◦ OCU Cable FB to OCU 4' - 90° Connector 		
18T.	Fixed Route Bus Graphics Package: Custom see Section 2.8		
19T.	Paratransit Bus Graphics Package: Custom see Section 2.9		
20T.	Storage area for medical walkers, between lift and rear seat, with securement device		
21T.	Surveillance System: SEON Camera System (latest version meeting requirements will be accepted) <ul style="list-style-type: none"> ◦ HD – TH8 recorder ◦ 4 Interior Cameras – HD3Q series AHD camera ◦ 1 Interior Forward Facing - HD3Q series AHD camera ◦ Curbside exterior camera – HD3W series AHD camera ◦ Rear exterior camera – HD3W series AHD camera ◦ Rear camera monitor mounted for driver (location to be approved by WRTA) – Part #: DAM-1-07-MF (Rear Vision LCD Monitor, 7" Display, Four Trigger Inputs, Four Looping Video Inputs (SD Analog, AHD 720P, and AHD 1080P Supported), Harness Supports 2x3 MicroFit Connectors, Includes U-Bracket 		



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	Mount and Sunshade) ◦ Wireless bridge SRLN07NP		
22T.	Surveillance System: Additional interior camera - Seon		
23T.	Surveillance System: Additional exterior camera - Seon		
24T.	Surveillance System: Safety Vision System (latest version meeting requirements will be accepted) ◦ 4816 NVR – 4TB ◦ 4 Interior cameras – 35 Series ◦ 1 Interior forward facing – 35 series ◦ Curbside rear exterior camera – 36 series ◦ Rear exterior camera - 36 series ◦ Rear camera monitor mounted for driver (location to be approved by WRTA) – CP4 Hybrid ◦ Wireless ready		
25T.	Surveillance System: Additional interior camera – Safety Vision		
26T	Surveillance System: Additional exterior camera – Safety Vision		
27T.	Securement device for oxygen tanks Q-Straint or equivalent to be track mounted.		
28T.	Two-way Radio (latest version meeting requirements will be accepted) ◦ ICOM Radio Model: IC-F6061D ◦ Laird B4502N		
29T.	Three-Step Foldaway Seats (add or deduct): Single & double, Freedman 35" AM2 Foldaway or C.E. White ADA35 or equivalent		
30T.	Standard Double Passenger Seat w/Grabrail (add or deduct): Single, Double, Freedman (or approved equal).		
31T.	Jump Seats: Single, Double, Freedman (Featherweight Mid/Hi flip single or double or approved equal). Jump seats covers shall be the same as the regular passenger seats - option		
32T.	Jump Seats: Single, Double, Freedman (Featherweight Mid/Hi flip single or double or approved equal). Jump seats covers shall be the same as the regular passenger seats - option		



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33T.	Single Integrated child seat: Freedman (I.C.S. or C.E. White Model LCR-35-1MB) or equivalent.		
34T.	Single Integrated Child Seat with adult companion seat		
35T.	Driver's Seat: Freedman Sport 2.0 w/ right-side armrest		
36T.	Extended air valves for inner dual wheels		
37T.	Solid Color Paint Scheme: The exterior of the vehicle, except the roof crown, may be painted in one solid color from those offered in the manufacturer's list of available colors. The exact color will be specified on the purchase order. Bidder(s) shall provide paint colors upon request. Roof shall be clear coated to prevent paint from running on sides of vehicle.		
38T.	Mirror Mount on Front Hood: Crossover mirror		
39T.	Idle Engine Shutoff: Shutoff engine after running idle for continuous 15 minutes.		
40T.	Backup Alert System: Vehicle must have proximity sensors to alert operator.		
41T.	Backup Camera: Camera and monitor must show the area behind the vehicle when the vehicle is in reverse.		
42T.	Wheelchair Lift: 1,000lb capacity		
43T.	Air Conditioning Option: Thermo King w/TM 21 Compressor, inwall, roof condenser		
44T.	Air Conditioning Option: ACT TM16 Compressor, inwall, roof condenser		
45T.	Air Conditioning Option: MCC w/QP 21 Compressor, inwall, roof condenser		
46T.	Passenger Call Bell System		
47T.	Optional L-Track per foot Secure Lok, Q Straint, Omni Floor Anchor System, AMF-Bruns Platinum Series		
		TOTAL	



LTL COST PROPOSAL

Light Transit Vehicle-Low Floor			
LTL			
Vendor Name			
Vehicle Chassis Manufacturer			
Model Year			
Body Manufacturer			
Body Manufacturer Plant Location			
Vehicle Pricing			
Light Transit Vehicle-Low Floor	Floorplan	Unit Price (Include Price for all Available Options)	Cost Proposal Evaluation Items (non shaded items)
LTV- (ITEMS A-R)	LTL 14-2		
S. OPTIONAL ITEMS			
1S.	ITS: Avail Technologies pre-wire, paratransit configuration		
2S.	ITS: Avail Technologies pre-wire, fixed route configuration		
3S.	ITS: Avail Technologies complete turn-key installation, paratransit configuration		
4S.	ITS: Avail Technologies complete turn-key installation, fixed route configuration		
5S.	Destination Sign System: Luminator Horizon SMT <ul style="list-style-type: none"> ◦ Front: 14 row x 112 column, Amber ◦ Side: minimum 8 row x 64 column, Amber ◦ MCU: P/N 510632344 		
6S.	Destination Sign System: Hanover <ul style="list-style-type: none"> ◦ DD054 Front Sign 112 x 15 ◦ DD139 Side Sign 96 x 15 ◦ EG3 controller 		
7S.	Radio Ground Plane: Grounded metal plate measuring at least 30"x30" shall be provided in the center of the vehicle roof for the purpose of grounding a two-way FM radio antenna. In addition, conduit with draw string shall be provided from the plate to an area under the center portion of the dashboard for		



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	wiring the antenna to the radio unit. Aluminum foil backed tape will not be approved.		
8S.	Antenna Access Port: Threaded plastic, white		
9S.	Bicycle Rack: sportworks s/s NP DL2 – anti-glare		
10S.	Bicycle Rack: sportworks s/s DL2 – anti-glare		
11S.	Optional Rear Bumper: Energy absorbing bumper such as the HELP (Romeo Rim), SMI, or equivalent.		
12S.	Ceiling Handrails: Handrails meeting current bus regulations for size, extending from front stanchions to last row of passenger seats.		
13S.	Farebox Base & Prewire: Odyssey base w/power cable, power on/off with ignition		
14S.	Farebox ODYSSEY w/Base & Prewire <ul style="list-style-type: none"> ◦ Height 30" ◦ OCU Cable Orientation: Verify for each vehicle ◦ Cashbox ◦ Trim ◦ Swipe Card Reader ◦ Smart Card Reader ◦ Control Unit ◦ OCU ◦ OCU Cable FB to OCU 4' - 90° Connector 		
15S.	Farebox ODYSSEY w/Base & Prewire <ul style="list-style-type: none"> ◦ Height 36" ◦ OCU Cable Orientation: Verify for each vehicle ◦ Cashbox ◦ Trim ◦ Swipe Card Reader ◦ Smart Card Reader ◦ Control Unit ◦ OCU ◦ OCU Cable FB to OCU 4' - 90° Connector 		



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16S.	<p>Farebox ODYSSEY w/Base & Prewire</p> <ul style="list-style-type: none"> ◦ Height 41" ◦ OCU Cable Orientation: Verify for each vehicle ◦ Cashbox ◦ Trim ◦ Swipe Card Reader ◦ Smart Card Reader ◦ Control Unit ◦ OCU ◦ OCU Cable FB to OCU 4' - 90° Connector 		
17S.	Fixed Route Bus Graphics Package: Custom see Section 2.8		
18S.	Paratransit Bus Graphics Package: Custom see Section 2.9		
19S.	Storage area for medical walkers with securement device		
20S.	<p>Surveillance System: SEON Camera System (latest version meeting requirements will be accepted)</p> <ul style="list-style-type: none"> ◦ HD – TH8 recorder ◦ 4 Interior Cameras – HD3Q series AHD camera ◦ 1 Interior Forward Facing - HD3Q series AHD camera ◦ Curbside exterior camera – HD3W series AHD camera ◦ Rear exterior camera – HD3W series AHD camera ◦ Rear camera monitor mounted for driver (location to be approved by WRTA) – Part #: DAM-1-07-MF (Rear Vision LCD Monitor, 7" Display, Four Trigger Inputs, Four Looping Video Inputs (SD Analog, AHD 720P, and AHD 1080P Supported), Harness Supports 2x3 MicroFit Connectors, Includes U-Bracket Mount and Sunshade) ◦ Wireless bridge SRLN07NP 		
21S.	Surveillance System: Additional interior camera - Seon		
22S.	Surveillance System: Additional exterior camera - Seon		



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23S.	<p>Surveillance System: Safety Vision System (latest version meeting requirements will be accepted)</p> <ul style="list-style-type: none"> ◦ 4816 NVR – 4TB ◦ 4 Interior cameras – 35 Series ◦ 1 Interior forward facing – 35 series ◦ Curbside rear exterior camera – 36 series ◦ Rear exterior camera - 36 series ◦ Rear camera monitor mounted for driver (location to be approved by WRTA) – CP4 Hybrid ◦ Wireless ready 		
24S.	Surveillance System: Additional interior camera – Safety Vision		
25S.	Surveillance System: Additional exterior camera – Safety Vision		
26S.	Securement device for oxygen tanks Q-Straint or equivalent to be track mounted.		
27S.	<p>Two-way Radio (latest version meeting requirements will be accepted)</p> <ul style="list-style-type: none"> ◦ ICOM Radio Model: IC-F6061D ◦ Laird B4502N 		
28S.	<p>Solid Color Paint Scheme: The exterior of the vehicle, except the roof crown, may be painted in one solid color from those offered in the manufacturer's list of available colors. The exact color will be specified on the purchase order. Bidder(s) shall provide paint colors upon request. Roof shall be clear coated to prevent paint from running on sides of vehicle.</p>		
29S.	Idle Engine Shutoff: Shutoff engine after running idle for continuous 15 minutes.		
30S.	Backup Alert System: Vehicle must have proximity sensors to alert operator.		
31S.	Backup Camera: Camera and monitor must show the area behind the vehicle when the vehicle is in reverse.		
32S.	Passenger Call Bell System		
33S.	Optional L-Track per foot Secure Lok, Q Straint, Omni Floor Anchor System, AMF-Bruns Platinum Series		
34S.	Option for electric wheelchair ramp.		



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35S.	Option for Passenger entry door weatherproof exterior LED- lit touch button.		
		TOTAL	