



## CHAMPAIGN-URBANA MASS TRANSIT DISTRICT BOARD MEETING AGENDA

Wednesday, December 7, 2022 – 3:00 p.m.

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North Banquet Rm, 4<sup>th</sup> Floor, Illinois Terminal  
45 East University Avenue, Champaign

### Board of Trustees:

Dick Barnes  
Margaret Chaplan – Vice Chair  
Tomas Delgado  
Bradley Diel - Chair

Phil Fiscella  
Bruce Hannon  
Alan Nudo

### Advisory Board:

Lowa Mwilambwe/Marty Paulins  
Briana Barr

	<u>Pages</u>
1. Call to Order	
2. Roll Call	
3. Approval of Agenda	
4. Public Hearing on General Tax Levy Ordinance for 2022	
5. Audience Participation	
6. Approval of Minutes	
A. Board Meeting (Open Session) – October 26, 2022	1-4
7. Communications	
8. Reports	
A. Managing Director	
1) Operating Notes	5-7
2) Ridership Data	8-9
3) Route Performance	10-13
4) District Operating Revenue/Expenses	14
5) Statistical Summary	15
6) Budget Analysis	16-25
7) Accounts Payable/Check Disbursements	26-33
8) Bank & Investment Balances	34
B. For Discussion Only	
1) Commercial Real Estate Representation	
2) The Yards Update	

*Champaign-Urbana Mass Transit District strives to provide an environment welcoming to all persons regardless of disability, race, gender, or religion. Please call Beth Brunk at 217-384-8188 to request special accommodations at least 2 business days in advance.*



**CHAMPAIGN-URBANA MASS TRANSIT DISTRICT BOARD MEETING**

**AGENDA**

Wednesday, December 7, 2022 – 3:00 p.m.

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Page 2

	<u>Pages</u>
9. Action Items	
A. Ordinance 2022-5 – General Tax Levy Ordinance for Revenue Year 2022	35-36
B. Ratification of the Approval Action for the 2022-2023 Urbana School District #116 Transportation Agreement from the 10/26/2022 Board Meeting	37
C. Purchase of Four 60-foot Diesel Electric Hybrid Buses	38-79
D. Cooperative Purchasing Agreement with the Washington State Department of Enterprise Services	80-86
E. Purchase of Ten 40-foot Hydrogen Fuel Cell Electric Buses	87-123
F. Hydrogen Fuel Cell Project Technical Assistance Contract with Center for Transportation and the Environment (CTE)	124-130
G. Training Simulator Contract	131-146
10. Next Meeting	
A. Regular Board of Trustees Meeting – Wednesday, January 25, 2023 – 3:00 p.m. – at Illinois Terminal, 45 East University, Champaign	
11. Adjournment	



## Champaign-Urbana Mass Transit District (MTD) Board of Trustees Meeting

### MINUTES – SUBJECT TO REVIEW AND APPROVAL

DATE: Wednesday, October 26, 2022  
TIME: 3:00 p.m.  
PLACE: Illinois Terminal, 45 East University Avenue, Champaign, IL

The video of this meeting can be found at:

<https://www.youtube.com/CUMTD>

#### Trustees:

Present	Absent
Dick Barnes	
Margaret Chaplan (Vice-Chair)	
Tomas Delgado	
	Bradley Diel (Chair)
Phil Fiscella	
Bruce Hannon	
Alan Nudo	

#### Advisory Board:

Present	Absent
	Marty Paulins
Briana Barr	

MTD Staff: Karl Gnadt (Managing Director), Amy Snyder (Chief of Staff), Michelle Wright (Finance Director), Jane Sullivan and Ashlee McLaughlin (External Affairs Directors), Brendan Sennett (Safety & Training Director), Josh Berbaum (Maintenance Director), Kirk Kirkland (Facilities Director), Jacinda Crawmer (Human Resources Director), Drew Bargmann (Customer Service Director), Evan Alvarez (Special Services Manager), Alyx Parker (Legal Counsel), Beth Brunk (Clerk)

#### Others Present:

### MINUTES

1. Call to Order  
Acting Chair Chaplan called the meeting to order at 3:00 p.m.
2. Roll Call  
Present (6) – Barnes, Chaplan, Delgado, Fiscella, Hannon, Nudo  
Absent (1) – Diel  
  
A quorum was declared present.
3. Approval of Agenda  
MOTION by Mr. Fiscella to approve the agenda as distributed; seconded by Mr. Delgado. Upon vote, the MOTION CARRIED.
4. Audience Participation  
None
5. Approval of Minutes

A. Board Meeting Open Session – September 28, 2022

MOTION by Mr. Fiscella to approve the open session minutes of the September 28, 2022 MTD Board meeting as distributed; seconded by Mr. Delgado. Upon vote, the MOTION CARRIED.

6. Communications

Mr. Gnadt referenced a letter from Charlie Smyth, Chair of Champaign County Bikes thanking MTD for their sponsorship and advocacy of safe bicycling in the community.

7. Reports

A. Managing Director

Mr. Gnadt reported on September statistics. Ridership is getting closer to the 1,000,000 mark – 9% higher than September 2021. Amy Snyder graduated from the American Public Transportation Association's Leadership APTA Program in October. This is a year-long program with a capstone project.

8. Action Items

A. Resolution 2022-9 – Determining Amount of Money Necessary to be Raised by the Tax Levy

Annually, MTD complies with taxation laws by Board approval of an estimated tax levy. Mr. Gnadt noted that the proposed amount of money to be raised by the tax levy is a 17.15% increase from last year. With this amount, the District will be able to capture newly assessed value from properties coming on the tax rolls including Carle and OSF properties if they become non-tax exempt. This court case for hospital real estate tax exemption status is still being decided in the Appellate Court. If the court case is not resolved, the rate that will be used is the Consumer Price Index (CPI), which was 5.0% last year.

MOTION by Mr. Barnes to adopt the revised Resolution No. 2022-9 determining \$11,724,226 to be the amount of money necessary to be raised by the tax levy for revenue year 2022 payable in 2023; seconded by Mr. Fiscella.

Mr. Fiscella proposed a friendly amendment to cap the tax levy at 8% instead of 17.15%:

MOTION by Mr. Fiscella to approve an amendment to Resolution No. 2022-9 for an 8% increase over the amount extended upon the levy of the preceding year; seconded by Mr. Nudo.

Roll Call:

Aye (1) – Fiscella

Nay (5) – Barnes, Chaplan, Delgado, Hannon, Nudo

The MOTION FAILED.

Voting on the original motion:

Roll Call:

Aye (5) – Barnes, Chaplan, Delgado, Hannon, Nudo

Nay (1) – Fiscella

The MOTION CARRIED.

B. Urbana School District 116 Transportation Agreement for 2022-2023

Mr. Gnadt explained that this contract is our annual agreement with the Urbana School District 116 to transport the middle and high school students for the 2022-23 school year.

Upon voice vote, all Trustees voted to approve the MTD and Urbana School District 116 transportation agreement for 2022-23 school year.

C. Village of Rantoul Eagle Express Transportation Service (C-CARTS) Agreement

Mr. Alvarez explained that Champaign County owns the Champaign County Area Rural Transit System (C-CARTS) and contracts with MTD to operate it. In the Village of Rantoul, one C-CARTS service is a fixed-route system that runs at peak hours in the morning and evening for factory workers. This agreement renews that service for one year.



MOTION by Mr. Hannon to authorize the Managing Director to execute the Village of Rantoul Eagle Express Transportation Service (C-CARTS) agreement from 11/1/2022 to 10/31/2023; seconded by Mr. Barnes. Upon vote, the MOTION CARRIED.

**D. Vehicle Lifts Contract**

Maintenance currently has seven out of twelve work bays that are equipped with in-ground vehicle lifts to access the underside of vehicles. With the addition of five in-ground vehicle lifts, Maintenance will gain efficiency as technicians will not need to shuffle buses around to access lifts. This contract with Safetylane Equipment Corporation for the purchase and installation of five in-ground vehicle lifts totals \$1,240,662.97. MTD will pay for this project through 100% federal funding from the American Rescue Plan Act of 2021 (ARPA).

MOTION by Mr. Hannon to authorize the Managing Director to execute a contract with Safetylane Equipment Corporation in the amount of \$1,240,662.97 for five in-ground vehicle lifts; seconded by Mr. Fiscella. Upon vote, the MOTION CARRIED.

**E. Underground Storage Tanks (UST) Replacement Contract**

The District had two 15,000-gallon double-walled underground fuel storage tanks installed in 1993. One of the tanks has been decommissioned due to a small leak from the inner tank into the outer interstitial tank. Testing has indicated that no fuel escaped into the environment. MTD released an invitation for bid on September 1, 2022, and one bid was received from Illinois Oil Marketing Equipment, Inc. for \$1,144,971.14. MTD will pay for this project through 100% federal funding from the American Rescue Plan Act of 2021 (ARPA).

MOTION by Mr. Fiscella to authorize the Managing Director to execute a contract with Illinois Oil Marketing Equipment, Inc. in the amount of \$1,144,971.14 for the replacement of two diesel fuel underground storage tanks; seconded by Mr. Hannon. Upon vote, the MOTION CARRIED.

**F. 803 Solar Array Expansion Design and Engineering Contract**

In February 2022, the State awarded MTD \$2,109,000 in funding from the Rebuild Illinois Capital Assistance Grant Round 2 to expand the rooftop solar array at the Maintenance Facility located at 803 East University. Dewberry Engineers Inc. completed the preliminary design and engineering last year for the grant application. Dewberry Engineers will be contracted to develop the final construction drawings and specifications to be used for competitive bidding of the solar array installation. MTD will fund this \$184,000 contract with 100% local funds.

MOTION by Mr. Fiscella to authorize the Managing Director to execute a contract with Dewberry Engineers Inc. in the amount of \$184,000 for the design and engineering of the 803 East University solar array expansion; seconded by Mr. Barnes. Upon vote, the MOTION CARRIED.

**9. Next Meetings**

- A. Public Hearing for Tax Levy and Regular Board of Trustees Meeting – Wednesday, December 7, 2022, at 3:00 p.m., Illinois Terminal, 4<sup>th</sup> Floor, 45 East University, Champaign

Mr. Nudo asked that the December agenda include a discussion for the appointment of a commercial realtor to represent MTD in future real estate transactions and an update on the Illinois Terminal Expansion project.

**10. Adjournment**

MOTION by Mr. Fiscella to adjourn the meeting; seconded by Mr. Hannon. Upon vote, the MOTION CARRIED.

Ms. Chaplan adjourned the meeting at 4:01 p.m.

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Submitted by:

\_\_\_\_\_  
Clerk

Approved:

\_\_\_\_\_  
Board of Trustees Chair



Champaign-Urbana Mass Transit District

MTD MISSION

Leading the way to greater mobility

MTD VISION

MTD goes beyond traditional boundaries to promote excellence in transportation.

## MTD MANAGING DIRECTOR OPERATING NOTES

*December, 2022*

### RIDERSHIP

#### Monthly Ridership

■ FY2022  
■ FY2023  
■ 5 Year Average

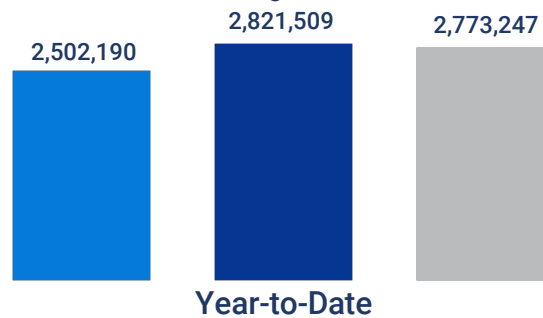
↑ 15.42%  
↓ -1.84%



#### Year-to-Date Ridership

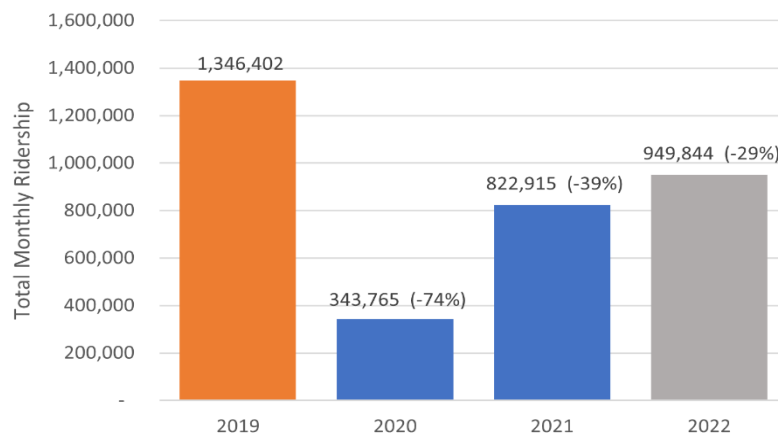
■ FY2022  
■ FY2023  
■ 5 Year Average

↑ 12.76%  
↑ 1.74%



In October 2022, there were 949,844 rides. This is up 15% from last October (~127,000 rides) but down 29% from October 2019 (~397,000 rides). Note October 2019 ridership and hours were especially high because there were 2 more weekdays than this October. Ridership this October was higher than September, returning to monthly pre-pandemic trends where October was the highest ridership month. Revenue hours in October were down by about 22% compared to pre-pandemic. This October's hours were slightly less last year because the second round of service cuts went into effect January 2022. The coupling of higher ridership and fewer vehicles on the street led to greater passenger loads—especially on campus during class changes and on Saturday nights. It has also had a negative affect on schedule adherence and Ops is looking into ways to remedy this.

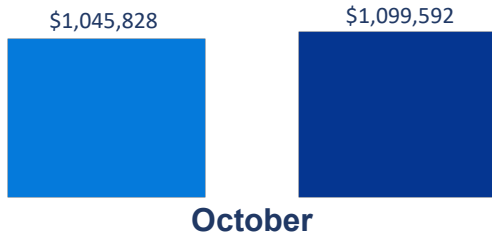
#### October Ridership by Year



## OPERATING REVENUE

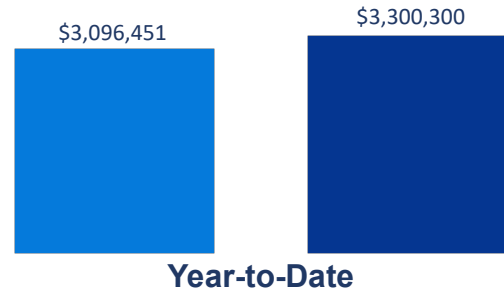
### Monthly Operating Revenue

■ FY2022 ■ FY2023



### Year-to-Date Operating Revenue

■ FY2022 ■ FY2023

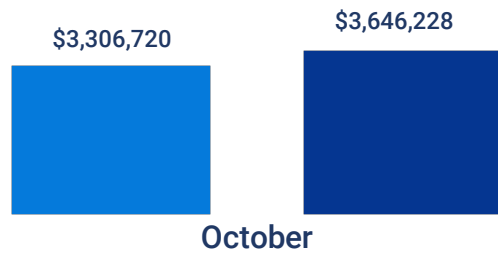


October 2022 operating revenue was 5.10% above October 2021, and year-to-date operating revenue was 6.60% above FY2022.

## OPERATING EXPENSES

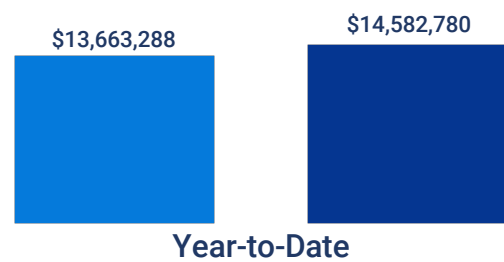
### Monthly Operating Expenses

■ FY2022 ■ FY2023



### Year-to-Date Operating Expenses

■ FY2022 ■ FY2023

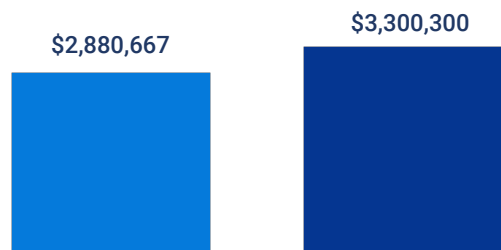


October operating expenses were 10.30% above October 2021. Year-to-date operating expenses were 6.70% above FY2022.

## YEAR-TO-DATE REVENUE & EXPENSES

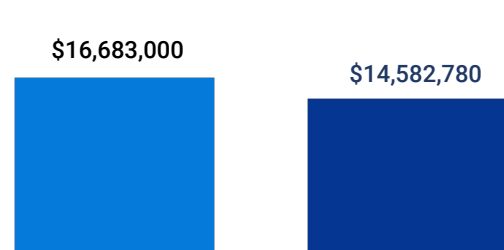
### FY2023 Operating Revenue Budget vs Actual

■ Budget ■ Actual



### FY2023 Operating Expenses Budget vs Actual

■ Budget ■ Actual



Year-to-date operating revenues were \$419,634 above budget while operating expenses were \$2,100,220 below budget.

## MANAGING DIRECTOR'S NOTES

- 1) Saturday, October 22, Special Services Manager Evan Alvarez and Mentor Program Coordinator Valerie Campo attended the annual disABILITY Resource Expo at Market Place Mall. They brought materials on MTD's fixed-route service, ADA Paratransit, and C-CARTS and answered questions for community members about accessibility options. Our community has so many resources, but it can be difficult to understand the full extent of what services are available. The Expo is an important event because it brings those service providers and vendors to one place to help community members with disabilities and their families understand the full network of support that they have.
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- 2) One of the many benefits that MTD derives from its membership with the American Public Transportation Association (APTA) is the ability to join in with the collective effort to advocate for good public policies relating to transit. A current effort by APTA that MTD supports will have significant benefits for us. APTA is having meetings with the U.S. Department of the Treasury to discuss implementation of the Inflation Reduction Act (IRA), and specifically tax credits that benefit public transportation. In implementing the IRA, APTA urges the U.S. Department of the Treasury to:
  - A. Continue to provide direct payments to public transit agencies that file claims for alternative fuels, biodiesel, and renewable diesel excise tax credits (26 U.S.C. §§ 40A, 6426, 6427);
  - B. Ensure that public transit agencies, as tax-exempt entities, receive the new qualified commercial clean vehicle tax credit and provide direct elective payments to transit agencies that file claims for such credits (26 U.S.C. §§ 45W, 6417); and
  - C. Ensure that public transit agencies, as tax-exempt entities, receive the restructured alternative fuel vehicle refueling property credit; issue guidance on implementing this credit; and provide direct elective payments to transit agencies that file claims for such credits (26 U.S.C. § 30C, 6417).

Moreover, these important IRA tax credits should be available to be used in tandem with grants made available under the Infrastructure Investment and Jobs Act.

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- 3) The Safety & Training Department has posted a new position of Safety Program Manager. This is a new position that will fulfill many of the duties once held under the umbrella of the Assistant Safety & Training Director of Compliance, who has retired. The Safety Program Manager will be tasked with managing the various regulatory compliance programs administered by the FTA.
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- 4) On November 8 and November 9, two representatives from Via were on site to do training and testing for the upcoming launch of the new Paratransit (MTD Access) and Microtransit (MTD Connect) software platforms. We held some initial training sessions to expose some frontline employees, including some ADA Operators, Information Assistants, and SafeRides Operators. Service Managers, Supervisors, and Dispatchers were also in attendance. We also did on-street field testing with a SafeRides vehicle, where we scheduled trips as if in service. The testing was generally successful, although not perfect. We were able to successfully book trips and get a feel for the functionality, while finding some issues that Via needs to go back and troubleshoot. The training also gave an insight into the questions and concerns of the frontline employees with regard to a transition from our current software to the new. These insights will help us roll the service out and offer more training so that everyone is comfortable navigating the menus and data fields prior to launch. We hope for a smooth transition with a more modern software that will benefit our customers and employees.

# Champaign-Urbana Mass Transit District

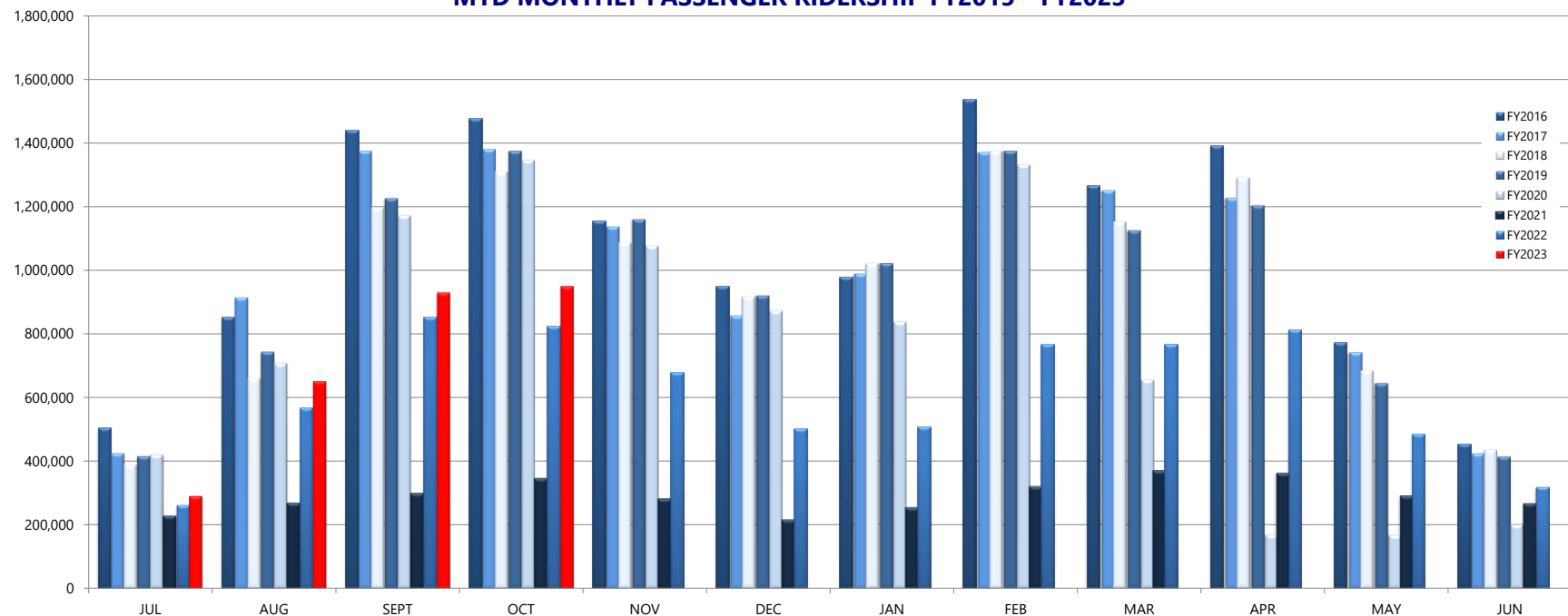
## Fiscal-Year-to-Date Ridership Comparison

	Oct-22	Oct-21	% Change	FY23 YTD	FY22 YTD	% Change
Adult Rides	18,932	20,056	-5.6%	74,981	74,849	0.2%
School Rides	41,529	34,026	22.1%	105,447	81,071	30.1%
DASH/Senior - E & D Rides	30,981	30,474	1.7%	123,970	82,135	50.9%
U of I Faculty/Staff Rides	39,429	20,932	88.4%	119,626	75,714	58.0%
Annual Pass	36,479	31,051	17.5%	152,619	80,832	88.8%
U of I Student Rides	751,298	661,067	13.6%	2,137,617	2,036,500	5.0%
All Day Passes	216	713	-69.7%	796	1,943	-59.0%
Transfers	6,285	6,041	4.0%	25,129	16,530	52.0%
Saferides	3,922	2,114	85.5%	7,563	3,913	93.3%
West Connect	0	18	-100.0%	0	528	-100.0%
Monthly Pass	8,177	7,033	16.3%	27,911	19,646	42.1%
Veterans Pass	2,697	2,392	12.8%	10,250	5,844	75.4%
<b>Total Unlinked Passenger Rides</b>	<b>939,945</b>	<b>815,917</b>	<b>15.2%</b>	<b>2,785,909</b>	<b>2,479,506</b>	<b>12.4%</b>
Half-Fare Cab Subsidy Rides	132	120	10.0%	670	537	24.8%
ADA Rides	9,767	6,878	42.0%	34,930	22,147	57.7%
<b>TOTAL</b>	<b>949,844</b>	<b>822,915</b>	<b>15.4%</b>	<b>2,821,509</b>	<b>2,502,190</b>	<b>12.8%</b>

	Oct-22	Oct-21
Weekdays	21	21
UI Weekdays	21	21
Saturdays	5	5
UI Saturdays	5	5
Sundays	5	5
UI Sundays	5	5
Champaign Schools Days	18	19
Urbana School Days	21	21
Holidays	0	0
Average Temperature	53.6	59.8
Total Precipitation	2.33	5.39
Average Gas Price	\$4.00	\$3.38

	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023
JUL	529,018	503,481	424,915	389,398	415,476	420,729	226,004	260,815	290,301
AUG	848,165	851,098	914,496	661,178	743,728	708,465	266,497	567,618	651,458
SEPT	1,514,019	1,439,491	1,375,803	1,197,928	1,226,527	1,172,335	297,090	850,842	929,906
OCT	1,606,340	1,478,275	1,380,990	1,310,380	1,375,516	1,346,402	343,765	822,915	949,844
NOV	1,236,071	1,153,897	1,137,573	1,087,343	1,160,184	1,076,993	279,977	678,231	
DEC	1,068,608	949,030	857,837	917,782	920,718	873,429	214,183	501,741	
JAN	996,469	977,223	989,700	1,022,713	1,022,403	838,969	252,336	506,560	
FEB	1,576,687	1,537,540	1,371,778	1,375,553	1,375,560	1,331,716	318,071	766,403	
MAR	1,305,425	1,266,676	1,251,352	1,153,015	1,125,644	656,224	368,540	766,766	
APR	1,402,475	1,391,286	1,228,127	1,292,424	1,203,603	169,747	360,134	813,280	
MAY	940,147	770,860	742,253	684,678	645,383	168,484	289,030	485,172	
JUN	528,360	451,663	424,219	435,993	414,421	201,092	264,733	317,937	
<b>TOTAL</b>	<b>13,551,784</b>	<b>12,770,520</b>	<b>12,099,043</b>	<b>11,528,385</b>	<b>11,629,163</b>	<b>8,964,585</b>	<b>3,480,360</b>	<b>7,338,280</b>	<b>2,821,509</b>

MTD MONTHLY PASSENGER RIDERSHIP FY2015 - FY2023



## Route Performance Report

October 2022

Weekdays

	Passengers	Revenue Hours	Passengers Per Revenue Hour	Revenue Hour Performance Comparison +	Revenue Miles	Passengers Per Revenue Mile	Revenue Mile Performance Comparison +
<b>Daytime Campus Fixed Route</b>	<b>334,373</b>	<b>3,356.53</b>	<b>99.62</b>		<b>36,805.47</b>	<b>9.08</b>	
<b>1 Yellow Hopper</b>	15,769	201.28	78.34	0.79	1,931.94	8.16	0.90
<b>10 Gold Hopper</b>	11,945	172.55	69.23	0.69	2,156.95	5.54	0.61
<b>12 Teal</b>	64,656	656.77	98.45	0.99	6,997.69	9.24	1.02
<b>13 Silver</b>	57,867	464.55	124.57	1.25	5,389.44	10.74	1.18
<b>21 Raven</b>	9,201	199.50	46.12	0.46	2,109.00	4.36	0.48
<b>22 Illini</b>	155,372	1,254.98	123.80	1.24	13,305.16	11.68	1.29
<b>24 Link</b>	19,563	406.90	48.08	0.48	4,915.29	3.98	0.44
<b>Daytime Community Fixed Route</b>	<b>344,069</b>	<b>10,524.21</b>	<b>32.69</b>		<b>144,706.02</b>	<b>2.38</b>	
<b>1 Yellow</b>	49,364	1,110.42	44.46	1.36	14,516.95	3.40	1.43
<b>2 Red</b>	33,782	1,080.42	31.27	0.96	14,230.62	2.37	1.00
<b>3 Lavender</b>	17,284	625.41	27.64	0.85	8,502.96	2.03	0.85
<b>4 Blue</b>	19,128	518.40	36.90	1.13	6,422.09	2.98	1.25
<b>5 Green</b>	49,694	1,206.45	41.19	1.26	16,139.12	3.08	1.29
<b>5 Green Express</b>	12,449	325.45	38.25	1.17	4,992.40	2.49	1.05
<b>5 Green Hopper</b>	25,886	548.38	47.20	1.44	7,257.94	3.57	1.50
<b>6 Orange</b>	15,397	722.29	21.32	0.65	9,240.50	1.67	0.70
<b>6 Orange Hopper</b>	6,252	271.25	23.05	0.71	3,148.87	1.99	0.84
<b>7 Grey</b>	25,162	969.66	25.95	0.79	13,245.72	1.90	0.80
<b>8 Bronze</b>	7,436	305.66	24.33	0.74	4,526.08	1.64	0.69
<b>9 Brown</b>	34,975	1,196.77	29.22	0.89	16,647.46	2.10	0.88
<b>10 Gold</b>	36,072	942.61	38.27	1.17	13,076.23	2.76	1.16
<b>11 Ruby</b>	391	112.80	3.47	0.11	2,145.01	0.18	0.08
<b>14 Navy</b>	3,847	220.50	17.45	0.53	4,206.94	0.91	0.38
<b>16 Pink</b>	6,950	367.76	18.90	0.58	6,407.14	1.08	0.46

\* The Percent of Group Ridership shows how the ridership for the route compares to the group

+ Performance Comparison shows each Route's Passengers Per Revenue Hour or Mile compared to the Route Group's average  
Routes that are continually above 1.5 or below 0.5 may need to be examined as they are not performing within the Group Standards.



	Passengers	Revenue Hours	Passengers Per Revenue Hour	Revenue Hour Performance Comparison +	Revenue Miles	Passengers Per Revenue Mile	Revenue Mile Performance Comparison +
<b>Evening Campus Fixed Route</b>	<b>70,349</b>	<b>920.83</b>	<b>76.40</b>		<b>10,874.76</b>	<b>6.47</b>	
120 Teal	17,896	290.08	61.69	0.81	3,391.10	5.28	0.82
130 Silver	6,495	143.50	45.26	0.59	1,703.41	3.81	0.59
220 Illini	45,958	487.25	94.32	1.23	5,780.24	7.95	1.23
<b>Evening Community Fixed Route</b>	<b>41,010</b>	<b>1,528.67</b>	<b>26.83</b>		<b>21,820.16</b>	<b>1.88</b>	
50 Green	16,059	439.05	36.58	1.36	6,180.83	2.60	1.38
50 Green Hopper	6,076	159.25	38.15	1.42	2,138.57	2.84	1.51
70 Grey	3,481	253.75	13.72	0.51	3,615.31	0.96	0.51
100 Yellow	13,849	521.97	26.53	0.99	7,023.03	1.97	1.05
110 Ruby	1,085	73.15	14.83	0.55	1,220.23	0.89	0.47
180 Lime	460	81.50	5.64	0.21	1,642.20	0.28	0.15
<b>Total</b>	<b>789,801</b>	<b>16,330.25</b>	<b>48.36</b>		<b>214,206.42</b>	<b>3.69</b>	

\* The Percent of Group Ridership shows how the ridership for the route compares to the group  
+ Performance Comparison shows each Route's Passengers Per Revenue Hour or Mile compared to the Route Group's average  
Routes that are continually above 1.5 or below 0.5 may need to be examined as they are not performing within the Group Standards.

## Route Performance Report

October 2022

Weekends

	Passengers	Revenue Hours	Passengers Per Revenue Hour	Revenue Hour Performance Comparison +	Revenue Miles	Passengers Per Revenue Mile	Revenue Mile Performance Comparison +
<b>Saturday Daytime Campus Fixed</b>	<b>24,116</b>	<b>293.68</b>	<b>82.12</b>		<b>3,281.65</b>	<b>7.35</b>	
120 Teal	8,845	118.60	74.58	0.91	1,293.31	6.84	0.93
130 Silver	6,134	77.17	79.49	0.97	915.42	6.70	0.91
220 Illini	9,137	97.92	93.31	1.14	1,072.91	8.52	1.16
<b>Saturday Daytime Community</b>	<b>32,165</b>	<b>947.10</b>	<b>33.96</b>		<b>13,100.15</b>	<b>2.46</b>	
20 Red	3,898	124.00	31.44	0.93	1,621.07	2.40	0.98
30 Lavender	2,193	108.90	20.14	0.59	1,686.52	1.30	0.53
50 Green	9,783	187.03	52.31	1.54	2,412.44	4.06	1.65
70 Grey	5,000	196.67	25.42	0.75	2,643.77	1.89	0.77
100 Yellow	9,977	221.15	45.11	1.33	2,920.64	3.42	1.39
110 Ruby	848	52.58	16.13	0.47	887.19	0.96	0.39
180 Lime	466	56.77	8.21	0.24	928.53	0.50	0.20
<b>Saturday Evening Campus Fixed</b>	<b>27,246</b>	<b>312.52</b>	<b>87.18</b>		<b>3,643.83</b>	<b>7.48</b>	
120 Teal	5,061	74.17	68.24	0.78	813.79	6.22	0.83
130 Silver	3,907	72.25	54.08	0.62	849.99	4.60	0.61
220 Illini	18,278	166.10	110.04	1.26	1,980.05	9.23	1.23
<b>Saturday Evening Community</b>	<b>14,728</b>	<b>420.06</b>	<b>35.06</b>		<b>5,722.91</b>	<b>2.57</b>	
50 Green	5,698	111.23	51.23	1.46	1,523.95	3.74	1.45
50 Green Hopper	3,449	50.00	68.98	1.97	645.05	5.35	2.08
70 Grey	938	66.58	14.09	0.40	909.16	1.03	0.40
100 Yellow	4,426	159.08	27.82	0.79	2,088.29	2.12	0.82
110 Ruby	141	15.67	9.00	0.26	266.75	0.53	0.21
180 Lime	76	17.50	4.34	0.12	289.70	0.26	0.10

\* The Percent of Group Ridership shows how the ridership for the route compares to the group

+ Performance Comparison shows each Route's Passengers Per Revenue Hour or Mile compared to the Route Group's average  
Routes that are continually above 1.5 or below 0.5 may need to be examined as they are not performing within the Group Standards.

	Passengers	Revenue Hours	Passengers Per Revenue Hour	Revenue Hour Performance Comparison +	Revenue Miles	Passengers Per Revenue Mile	Revenue Mile Performance Comparison +
<b>Sunday Daytime Campus Fixed Route</b>	<b>13,449</b>	<b>173.40</b>	<b>77.56</b>		<b>1,942.13</b>	<b>6.92</b>	
120 Teal	3,877	45.65	84.93	1.09	502.03	7.72	1.12
130 Silver	4,030	44.42	90.73	1.17	527.29	7.64	1.10
220 Illini	5,542	83.33	66.50	0.86	912.82	6.07	0.88
<b>Sunday Daytime Community Fixed Route</b>	<b>20,881</b>	<b>714.40</b>	<b>29.23</b>		<b>10,164.89</b>	<b>2.05</b>	
30 Lavender	1,398	89.33	15.65	0.54	1,381.15	1.01	0.49
50 Green	7,771	170.20	45.66	1.56	2,192.00	3.55	1.73
70 Grey	3,343	173.03	19.32	0.66	2,339.96	1.43	0.70
100 Yellow	7,477	166.67	44.86	1.53	2,206.32	3.39	1.65
110 Ruby	473	40.08	11.80	0.40	680.47	0.70	0.34
180 Lime	419	75.08	5.58	0.19	1,364.99	0.31	0.15
<b>Sunday Evening Campus Fixed Route</b>	<b>13,662</b>	<b>282.08</b>	<b>48.43</b>		<b>3,263.10</b>	<b>4.19</b>	
120 Teal	4,452	87.25	51.03	1.05	946.81	4.70	1.12
130 Silver	1,820	64.75	28.11	0.58	761.42	2.39	0.57
220 Illini	7,390	130.08	56.81	1.17	1,554.87	4.75	1.14
<b>Sunday Evening Community Fixed Route</b>	<b>3,608</b>	<b>70.83</b>	<b>50.94</b>		<b>951.02</b>	<b>3.79</b>	
50 Green	2,189	35.00	62.54	1.23	456.24	4.80	1.26
100 Yellow	1,419	35.83	39.60	0.78	494.78	2.87	0.76
<b>Total</b>	<b>149,855</b>	<b>3,214.07</b>	<b>46.62</b>		<b>42,069.67</b>	<b>3.56</b>	

\* The Percent of Group Ridership shows how the ridership for the route compares to the group

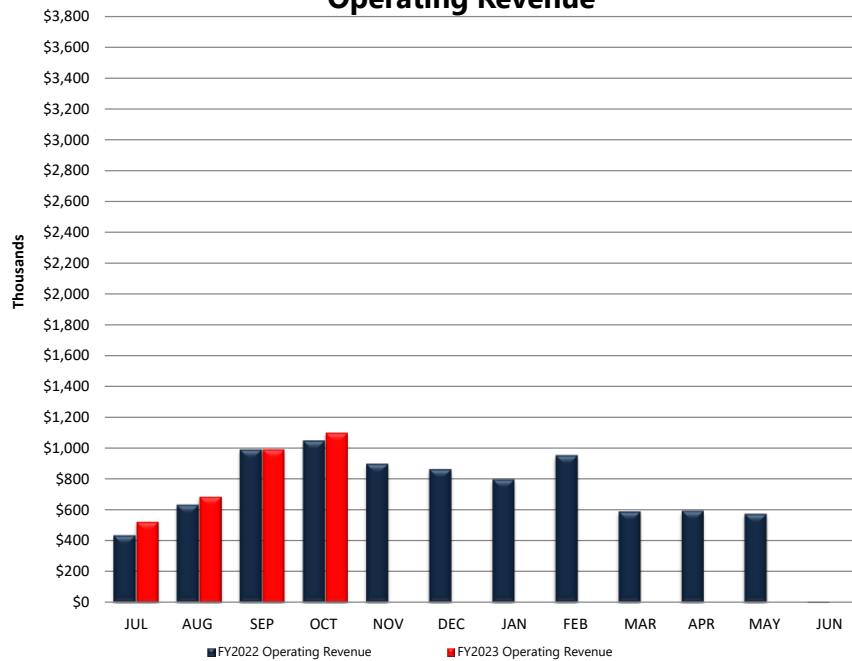
+ Performance Comparison shows each Route's Passengers Per Revenue Hour or Mile compared to the Route Group's average  
Routes that are continually above 1.5 or below 0.5 may need to be examined as they are not performing within the Group Standards.

**Champaign-Urbana Mass Transit District**  
Comparison of FY2023 vs FY2022 Revenue and Expenses

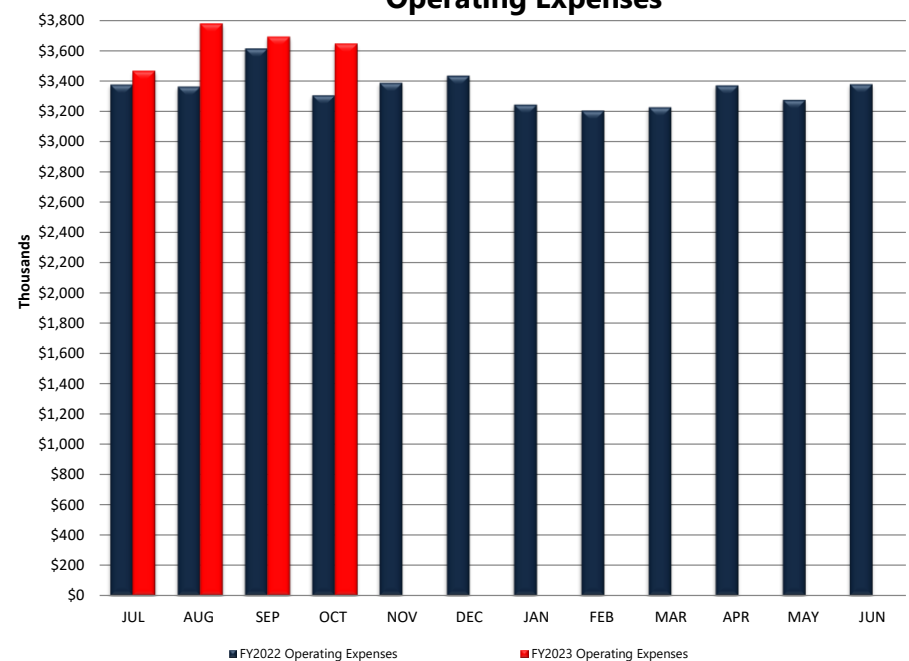
November 30, 2022

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
<b>FY2022 Operating Revenue</b>	\$431,925	\$630,757	\$987,941	\$1,045,828	\$896,190	\$860,757	\$795,610	\$951,191	\$585,943	\$591,962	\$570,813	-\$392,222
<b>FY2023 Operating Revenue</b>	\$523,740	\$685,651	\$991,317	\$1,099,592								
<b>FY2022 Operating Expenses</b>	\$3,376,362	\$3,364,007	\$3,616,199	\$3,306,720	\$3,389,381	\$3,436,470	\$3,244,660	\$3,205,061	\$3,226,832	\$3,372,214	\$3,275,499	\$3,379,302
<b>FY2023 Operating Expenses</b>	\$3,465,500	\$3,778,872	\$3,692,179	\$3,646,228								
<b>FY2022 Operating Ratio</b>	12.79%	18.75%	27.32%	31.63%	26.44%	25.05%	24.52%	29.68%	18.16%	17.55%	17.43%	-11.61%
<b>FY2023 Operating Ratio</b>	15.11%	18.14%	26.85%	30.16%								

**Champaign-Urbana Mass Transit District**  
**Comparison of FY2023 vs. FY2022**  
**Operating Revenue**



**Champaign-Urbana Mass Transit District**  
**Comparison of FY2023 vs. FY2022**  
**Operating Expenses**



<b>HOURS</b>	Oct 2021	Oct 2022	% Change	FY2021 to Date	FY2022 to Date	% Change
Passenger Revenue	22,747.40	<b>21,867.40</b>	-3.9%	87,139.70	<b>79,783.40</b>	-8.4%
Vacation/Holiday/Earned Time	4,468.40	<b>4,656.69</b>	4.2%	27,517.41	<b>25,348.45</b>	-7.9%
Non-Revenue	4,771.98	<b>4,778.07</b>	0.1%	20,192.99	<b>20,712.92</b>	2.6%
<b>TOTAL</b>	31,987.78	<b>31,302.16</b>	<b>-2.14%</b>	134,850.10	<b>125,844.77</b>	<b>-6.68%</b>

<b>REVENUE/EXPENSES</b>	Oct 2021	Oct 2022	% Change	FY2021 to Date	FY2022 to Date	% Change
Operating Revenue	\$1,045,828.09	<b>\$1,099,591.83</b>	5.1%	\$3,096,451.01	<b>\$3,300,300.16</b>	6.6%
Operating Expenses	\$3,306,719.76	<b>\$3,646,228.14</b>	10.3%	\$13,663,287.63	<b>\$14,582,779.71</b>	6.7%
Operating Ratio	31.63%	30.16%	-4.6%	22.66%	<b>22.63%</b>	-0.1%
Passenger Revenue/Revenue Vehicle Hour	\$41.63	<b>\$44.51</b>	6.9%	\$30.64	<b>\$35.56</b>	16.1%

<b>RIDERSHIP</b>	Oct 2021	Oct 2022	% Change	FY2021 to Date	FY2022 to Date	% Change
Revenue Passenger	340,916	<b>933,660</b>	173.9%	1,994,016	<b>2,760,780</b>	38.5%
Transfers	6,041	<b>6,285</b>	4.0%	16,530	<b>25,129</b>	52.0%
Total Unlinked	815,917	<b>939,945</b>	15.2%	2,479,506	<b>2,785,909</b>	12.4%
ADA Riders	6,878	<b>9,767</b>	42.0%	22,147	<b>34,930</b>	57.7%
Half Fare Cab	120	<b>132</b>	10.0%	537	<b>670</b>	24.8%
<b>TOTAL</b>	822,915	<b>949,844</b>	15.42%	2,502,190	<b>2,821,509</b>	12.76%

<b>PASSENGERS/REVENUE HOUR</b>	Oct 2021	Oct 2022	% Change	FY2021 to Date	FY2022 to Date	% Change
Hour	35.87	<b>42.98</b>	19.8%	28.45	<b>34.92</b>	22.7%

# Champaign Urbana Mass Transit District

## Budget Analysis Report

From Fiscal Year: 2023		From Period 4		Division: 00 Champaign Urbana Mass Transit District				As of: 10/31/2022	
Thru Fiscal Year: 2023		Thru Period 4							
Oct-2022	Budget This Period	Oct-2021	Act/Bgt Var %	Jul-2022 thru Oct-2022					Act/Bgt Var %
				Actual Ytd	Budget Ytd	Last Ytd			
4000000000 * * * * R E V E N U E * * * *									
4000000099 ** TRANSPORTATION REVENUE									
4010000000 * PASSENGER FARES									
34,741.94	33,333.33	29,454.45	4.23%	4010100000 FULL ADULT FARES	120,090.99	133,333.32	87,031.24	-9.93%	
325.00	833.33	140.00	-61.00%	4010300000 STUDENT FARES	1,957.00	3,333.32	1,515.00	-41.29%	
-59.00	0.00	0.00	-100.00%	4010700000 FARE REFUNDS	-580.00	0.00	-125.00	-100.00%	
8,651.00	12,500.00	6,893.00	-30.79%	4010800000 ANNUAL PASS REVENUE	40,191.00	50,000.00	15,886.00	-19.62%	
847.00	2,916.67	770.50	-70.96%	4011000000 HALF FARE CAB	4,932.50	11,666.68	3,439.00	-57.72%	
4,216.00	3,333.33	3,785.00	26.48%	4011100000 ADA TICKETS & FARES	16,414.00	13,333.32	8,817.00	23.11%	
48,721.94	52,916.66	41,042.95	-7.93%	4019900099 * TOTAL PASSENGER FARES	183,005.49	211,666.64	116,563.24	-13.54%	
4020000000 * SPECIAL TRANSIT & SCHOOL FARE									
796,481.00	483,333.33	779,500.00	64.79%	4020300000 U OF I CAMPUS SERVICE	2,386,890.00	1,933,333.32	2,290,045.00	23.46%	
26,882.17	27,083.33	25,546.25	-0.74%	4020500000 ADA - U I & DSC CONTRACTS	107,528.68	108,333.32	102,185.00	-0.74%	
101,906.12	62,083.33	101,694.12	64.14%	4030100000 SCHOOL SERVICE FARES	163,951.12	248,333.32	164,260.12	-33.98%	
925,269.29	572,499.99	906,740.37	61.62%	4039999999 * TOTAL SPECIAL TRANSIT & SCHOO	2,658,369.80	2,289,999.96	2,556,490.12	16.09%	
4060000000 *AUXILIARY TRANSPORTATION REVE									
2,116.32	2,083.33	1,965.25	1.58%	4060100000 I.T. COMMISSIONS	7,517.66	8,333.32	7,374.95	-9.79%	
41,122.50	25,000.00	27,562.66	64.49%	4060300000 ADVERTISING REVENUE	137,533.00	100,000.00	100,361.89	37.53%	
43,238.82	27,083.33	29,527.91	59.65%	4069900098 *TOTAL AUXILIARY TRANSPORTATIO	145,050.66	108,333.32	107,736.84	33.89%	
1,017,230.05	652,499.98	977,311.23	55.90%	4069900099 ** TOTAL TRANSPORTATION REVEN	2,986,425.95	2,609,999.92	2,780,790.20	14.42%	
4070000000 ** NON-TRANSPORTATION REVENUE									
1,372.53	1,833.33	5,789.92	-25.13%	4070100000 SALE OF MAINTENANCE SERVICES	6,448.32	7,333.32	9,186.32	-12.07%	
0.00	0.00	0.00	0.00%	4070200000 RENTAL OF REVENUE VEHICLES	0.00	0.00	0.00	0.00%	
35,176.89	35,416.67	34,587.27	-0.68%	4070300000 BUILDING RENTAL - IL TERMINAL	155,197.56	141,666.68	144,869.08	9.55%	
17,924.38	17,916.67	17,924.38	0.04%	4070300002 BUILDING RENTAL - 801 & 1101	71,722.52	71,666.68	71,697.52	0.08%	
28,944.07	12,500.00	8,391.91	131.55%	4070400000 INVESTMENT INCOME	69,521.14	50,000.00	50,178.80	39.04%	
-934.41	0.00	-4,495.10	-100.00%	4070400002 +/- FAIR VALUE OF INVESTMENT	-2,989.41	0.00	-18,744.95	-100.00%	
111.47	0.00	26.51	100.00%	4070800000 OVER OR SHORT	440.19	0.00	240.37	100.00%	
0.00	0.00	4,238.00	0.00%	4079800000 GAIN ON FIXED ASSET DISPOSAL	2,500.00	0.00	4,238.00	100.00%	

# Champaign Urbana Mass Transit District

## Budget Analysis Report

From Fiscal Year: 2023 From Period 4  
Thru Fiscal Year: 2023 Thru Period 4

Division: 00 Champaign Urbana Mass Transit District

As of: 10/31/2022

Oct-2022	Budget This Period	Oct-2021	Act/Bgt Var %		Actual Ytd	Jul-2022 thru Oct-2022 Budget Ytd	Last Ytd	Act/Bgt Var %
-233.15	0.00	2,053.97	-100.00%	4079900001 OTHER NON-TRANSPORTATION REV	11,033.89	0.00	53,995.67	100.00%
82,361.78	67,666.67	68,516.86	21.72%	4079900099 ** TOTAL NON-TRANSPORTATION RE	313,874.21	270,666.68	315,660.81	15.96%
1,099,591.83	720,166.65	1,045,828.09	52.69%	4079999999 *** TOTAL TRANS & NON-TRANS REV	3,300,300.16	2,880,666.60	3,096,451.01	14.57%
<b>4080000000 ** TAX REVENUE</b>								
816,666.00	816,666.67	784,600.00	0.00%	4080100000 PROPERTY TAX REVENUE	3,266,664.00	3,266,666.68	3,138,400.00	0.00%
0.00	0.00	0.00	0.00%	4080100001 PROPERTY TAX - UNCOLLECTIBLE R	0.00	0.00	0.00	0.00%
0.00	16,666.67	0.00	-100.00%	4080600000 REPLACEMENT TAX REVENUE	164,083.63	66,666.68	106,356.90	146.13%
0.00	0.00	0.00	0.00%	4089900001 MISCELLANEOUS PROPERTY TAXES	6,025.00	0.00	0.00	100.00%
816,666.00	833,333.34	784,600.00	-2.00%	4089999999 ** TOTAL TAX REVENUE	3,436,772.63	3,333,333.36	3,244,756.90	3.10%
<b>4110000000 ** STATE GRANTS &amp; REIMBURSEME</b>								
2,340,000.00	2,819,754.17	2,140,000.00	-17.01%	4110100000 OPERATING ASSISTANCE - STATE	9,465,500.00	11,279,016.68	8,871,400.00	-16.08%
0.00	0.00	0.00	0.00%	4110100001 OPERATING ASSIST - DEBT SERVICE	6,078.80	0.00	0.00	100.00%
0.00	175,750.00	0.00	-100.00%	4111000000 STATE GRANT REVENUE	0.00	703,000.00	0.00	-100.00%
0.00	0.00	0.00	0.00%	4111000001 STATE GRANT REVENUE - PASS TH	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	4119900000 STATE REIMBURSEMENTS	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	4119900001 STATE REIMB - PASS THRU \$	0.00	0.00	0.00	0.00%
2,340,000.00	2,995,504.17	2,140,000.00	-21.88%	4119999999 ** TOTAL STATE GRANTS & REIMB	9,471,578.80	11,982,016.68	8,871,400.00	-20.95%
<b>4130000000 ** FEDERAL GRANTS &amp; REIMBURSE</b>								
0.00	250,000.00	0.00	-100.00%	4130100000 OPERATING ASSISTANCE - FEDERAL	0.00	1,000,000.00	0.00	-100.00%
0.00	6,192,083.33	0.00	-100.00%	4130500000 FEDERAL GRANT REVENUE	2,146,350.93	24,768,333.32	809,368.00	-91.33%
0.00	0.00	0.00	0.00%	4130600000 FEDERAL GRANT PASS THRU \$	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	4139900000 FEDERAL REIMBURSEMENTS	0.00	0.00	0.00	0.00%
0.00	6,442,083.33	0.00	-100.00%	4139999999 ** TOTAL FEDERAL GRANTS & REIM	2,146,350.93	25,768,333.32	809,368.00	-91.67%
<b>4150000000 **OTHER AGENCY REVENUES</b>								
0.00	0.00	0.00	0.00%	4150130000 CONTRIBUTED CAPITAL - GOV'T	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	4150130010 CONTRIBUTED CAPITAL - NON-GOV'T	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	4159999999 ***TOTAL OTHER AGENCY REVENUE	0.00	0.00	0.00	0.00%
4,256,257.83	10,991,087.49	3,970,428.09	-61.28%	4999900099 **** TOTAL REVENUE ****	18,355,002.52	43,964,349.96	16,021,975.91	-58.25%

# Champaign Urbana Mass Transit District

## Budget Analysis Report

From Fiscal Year: 2023      From Period 4  
Thru Fiscal Year: 2023      Thru Period 4

Division: 00 Champaign Urbana Mass Transit District

As of: 10/31/2022

Oct-2022	Budget This Period	Oct-2021	Act/Bgt Var %		Actual Ytd	Jul-2022 thru Oct-2022 Budget Ytd	Last Ytd	Act/Bgt Var %
<b>5000000000 **** E X P E N S E S ***</b>								
<b>5010000000 ** LABOR</b>								
1,034,345.71	916,666.67	834,988.57	12.84%	5010101000 OPERATORS WAGES	3,673,504.33	3,666,666.68	3,206,383.86	0.19%
119,487.75	150,000.00	120,298.27	-20.34%	5010204000 MECHANICS WAGES - MAINT	512,656.12	600,000.00	492,865.62	-14.56%
75,330.09	91,666.67	63,462.42	-17.82%	5010304000 MAINTENANCE WAGES - MAINT	329,221.27	366,666.68	260,421.24	-10.21%
114,220.90	133,333.33	110,442.52	-14.33%	5010401000 SUPERVISORS SALARIES - OPS	459,629.70	533,333.32	459,376.80	-13.82%
18,501.64	22,083.33	18,349.85	-16.22%	5010404000 SUPERVISORS SALARIES - MAINT	88,226.89	88,333.32	77,927.15	-0.12%
77,456.20	95,833.33	67,845.40	-19.18%	5010501000 OVERHEAD SALARIES - OPS	341,189.54	383,333.32	334,634.95	-10.99%
42,416.18	45,416.67	30,142.78	-6.61%	5010504000 OVERHEAD SALARIES - MAINT	176,509.57	181,666.68	144,016.13	-2.84%
126,548.14	151,416.67	108,090.33	-16.42%	5010516000 OVERHEAD SALARIES - G&A	598,871.04	605,666.68	506,360.86	-1.12%
17,368.67	22,916.67	15,018.86	-24.21%	5010516200 OVERHEAD SALARIES - IT	69,196.63	91,666.68	63,710.51	-24.51%
17,791.59	27,083.33	14,028.99	-34.31%	5010601000 CLERICAL WAGES - OPS	65,951.72	108,333.32	56,046.98	-39.12%
0.00	0.00	0.00	0.00%	5010604000 CLERICAL WAGES - MAINT	0.00	0.00	0.00	0.00%
36,786.12	37,500.00	25,400.54	-1.90%	5010616000 CLERICAL WAGES - G&A	150,104.93	150,000.00	138,978.07	0.07%
12,276.10	11,833.33	9,739.61	3.74%	5010616200 CLERICAL WAGES - IT	45,307.68	47,333.32	35,911.51	-4.28%
17,967.65	17,500.00	11,695.92	2.67%	5010716200 SECURITY WAGES - IT	62,876.55	70,000.00	40,225.84	-10.18%
-3,339.78	0.00	-1,389.49	-100.00%	5010801000 LABOR CREDIT - OPS	-14,162.70	0.00	-4,782.25	-100.00%
-3,763.26	0.00	-2,343.59	-100.00%	5010804000 LABOR CREDIT - MAINT	-16,616.18	0.00	-10,024.80	-100.00%
-1,299.56	0.00	-5,087.54	-100.00%	5010806000 LABOR CREDIT - G&A	-7,294.01	0.00	-8,509.08	-100.00%
9,052.08	14,166.67	10,316.29	-36.10%	5010816200 MAINTENANCE WAGES - IT	43,962.23	56,666.68	45,795.92	-22.42%
0.00	0.00	0.00	0.00%	5010901000 REDUCED/REASSIGNMNT PAY - OPS	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5010904000 REDUCED/REASSIGNMNT PAY - MAI	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5010916000 REDUCED/REASSIGNMNT PAY - G&A	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5010916200 REDUCED/REASSIGNMNT PAY - IT	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5011001000 MEAL DELIVERY WAGES - OPS (NON-	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5012001000 U OF I COVID ROUTE WAGES	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5013001000 COVID VACCINE INCENTIVE WAGES	0.00	0.00	5,000.00	0.00%
0.00	0.00	0.00	0.00%	5013016000 COVID TESTING WAGES	0.00	0.00	0.00	0.00%
<b>1,711,146.22</b>	<b>1,737,416.67</b>	<b>1,430,999.73</b>	<b>-1.51%</b>	<b>5019999000 ** TOTAL LABOR</b>	<b>6,579,135.31</b>	<b>6,949,666.68</b>	<b>5,844,339.31</b>	<b>-5.33%</b>
<b>5020000000 ** FRINGE BENEFITS</b>								
97,211.22	112,500.00	88,116.53	-13.59%	5020101000 FICA - OPS	386,813.28	450,000.00	371,664.87	-14.04%
24,047.10	24,166.67	20,261.55	-0.49%	5020104000 FICA - MAINT	96,882.61	96,666.68	87,466.43	0.22%
9,841.11	13,333.33	7,753.04	-26.19%	5020116000 FICA - G&A	47,117.26	53,333.32	40,893.93	-11.66%
4,741.64	4,583.33	3,697.33	3.45%	5020116200 FICA - IT	18,360.29	18,333.32	15,105.91	0.15%
208,665.72	195,833.33	198,679.91	6.55%	5020201000 IMRF - OPS	621,594.26	783,333.32	771,158.61	-20.65%
30,935.29	43,750.00	46,990.39	-29.29%	5020204000 IMRF - MAINT	136,881.24	175,000.00	274,917.47	-21.78%



# Champaign Urbana Mass Transit District

## Budget Analysis Report

From Fiscal Year: 2023 From Period 4  
Thru Fiscal Year: 2023 Thru Period 4

Division: 00 Champaign Urbana Mass Transit District

As of: 10/31/2022

Oct-2022	Budget This Period	Oct-2021	Act/Bgt Var %		Actual Ytd	Jul-2022 thru Oct-2022 Budget Ytd	Last Ytd	Act/Bgt Var %
15,761.30	19,583.33	23,099.17	-19.52%	5020216000 IMRF - G&A	79,391.30	78,333.32	78,006.96	1.35%
5,924.96	6,250.00	8,280.12	-5.20%	5020216200 IMRF - IT	26,020.48	25,000.00	24,570.23	4.08%
295,441.11	333,333.33	302,850.46	-11.37%	5020301000 MEDICAL INSURANCE - OPS	1,208,259.63	1,333,333.32	1,189,587.71	-9.38%
74,049.26	75,000.00	69,932.20	-1.27%	5020304000 MEDICAL INSURANCE - MAINT	291,090.68	300,000.00	275,253.32	-2.97%
40,456.90	40,000.00	29,466.20	1.14%	5020316000 MEDICAL INSURANCE - G&A	155,438.60	160,000.00	128,756.80	-2.85%
18,406.00	18,750.00	15,492.00	-1.83%	5020316200 MEDICAL INSURANCE - IT	76,009.00	75,000.00	61,968.00	1.35%
0.00	0.00	0.00	0.00%	5020401000 DENTAL INSURANCE - OPS	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5020404000 DENTAL INSURANCE - MAINT	-9.80	0.00	0.00	-100.00%
0.00	0.00	0.00	0.00%	5020416000 DENTAL INSURANCE - G&A	0.00	0.00	0.00	0.00%
1,600.34	2,083.33	3,288.88	-23.18%	5020501000 LIFE INSURANCE - OPS	6,232.31	8,333.32	5,316.20	-25.21%
506.17	500.00	1,051.54	1.23%	5020504000 LIFE INSURANCE - MAINT	2,044.28	2,000.00	1,538.11	2.21%
202.37	583.33	326.34	-65.31%	5020516000 LIFE INSURANCE - G&A	806.05	2,333.32	3,134.31	-65.45%
137.20	166.67	254.80	-17.68%	5020516200 LIFE INSURANCE - IT	568.40	666.68	382.20	-14.74%
0.00	0.00	0.00	0.00%	5020601000 OPEB EXPENSE - OPS	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5020604000 OPEB EXPENSE - MAINT	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5020616000 OPEB EXPENSE - G&A	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5020616200 OPEB EXPENSE - IT	0.00	0.00	0.00	0.00%
1,314.31	4,166.67	-123.63	-68.46%	5020701000 UNEMPLOYMENT INSURANCE - OPS	2,138.36	16,666.68	3,136.37	-87.17%
326.90	833.33	191.00	-60.77%	5020704000 UNEMPLOYMENT INSURANCE - MAIN	557.77	3,333.32	761.00	-83.27%
111.50	250.00	298.00	-55.40%	5020716000 UNEMPLOYMENT INSURANCE - G&A	308.00	1,000.00	448.00	-69.20%
137.14	250.00	-366.00	-45.14%	5020716200 UNEMPLOYMENT INSURANCE - IT	543.89	1,000.00	134.00	-45.61%
-382.00	15,416.67	-1,156.69	-102.48%	5020801000 WORKERS COMP INSURANCE - OPS	73,011.58	61,666.68	174,987.48	18.40%
0.00	10,416.67	3,587.00	-100.00%	5020804000 WORKERS COMP INSURANCE - MAIN	14,078.00	41,666.68	7,026.77	-66.21%
0.00	1,666.67	1,958.00	-100.00%	5020816000 WORKERS COMP INSURANCE - G&A	6,641.63	6,666.68	5,779.27	-0.38%
0.00	2,083.33	651.00	-100.00%	5020816200 WORKERS COMP INSURANCE - IT	2,416.00	8,333.32	1,895.85	-71.01%
5,430.47	17,083.33	125.04	-68.21%	5021001000 HOLIDAYS - OPS	39,456.73	68,333.32	39,128.96	-42.26%
760.40	5,416.67	0.00	-85.96%	5021004000 HOLIDAYS - MAINT	27,575.21	21,666.68	13,971.68	27.27%
493.15	0.00	0.00	100.00%	5021016000 HOLIDAYS - G&A	3,134.09	0.00	0.00	100.00%
88.00	833.33	0.00	-89.44%	5021016200 HOLIDAYS - IT	5,242.24	3,333.32	2,313.12	57.27%
8,496.60	55,000.00	19,117.52	-84.55%	5021101000 VACATIONS - OPS	197,491.28	220,000.00	191,120.25	-10.23%
22,152.19	15,000.00	12,978.88	47.68%	5021104000 VACATIONS - MAINT	60,954.43	60,000.00	49,162.32	1.59%
0.00	0.00	0.00	0.00%	5021116000 VACATION - G&A	0.00	0.00	0.00	0.00%
3,236.88	1,666.67	0.00	94.21%	5021116200 VACATIONS - IT	7,918.88	6,666.68	4,887.20	18.78%
10,273.17	5,416.67	5,277.55	89.66%	5021201000 OTHER PAID ABSENCES - OPS	16,954.81	21,666.68	16,238.83	-21.75%
756.32	1,250.00	261.12	-39.49%	5021204000 OTHER PAID ABSENCES - MAINT	3,805.38	5,000.00	3,620.80	-23.89%
0.00	83.33	0.00	-100.00%	5021216000 OTHER PAID ABSENCES - G&A	0.00	333.32	480.96	-100.00%
0.00	166.67	0.00	-100.00%	5021216200 OTHER PAID ABSENCES - IT	313.92	666.68	256.32	-52.91%
5,703.50	5,416.67	4,335.66	5.30%	5021301000 UNIFORM ALLOWANCES - OPS	13,230.21	21,666.68	25,158.29	-38.94%

# Champaign Urbana Mass Transit District

## Budget Analysis Report

From Fiscal Year: 2023      From Period 4      Division: 00 Champaign Urbana Mass Transit District      As of: 10/31/2022  
 Thru Fiscal Year: 2023      Thru Period 4

Oct-2022	Budget This Period	Oct-2021	Act/Bgt Var %		Actual Ytd	Jul-2022 thru Oct-2022 Budget Ytd	Last Ytd	Act/Bgt Var %
3,070.12	2,250.00	78.19	36.45%	5021304000 UNIFORM ALLOWANCES - MAINT	10,412.22	9,000.00	5,646.56	15.69%
206.77	500.00	193.13	-58.65%	5021316200 UNIFORM ALLOWANCES - IT	525.76	2,000.00	1,014.42	-73.71%
120.00	416.67	0.00	-71.20%	5021401000 OTHER FRINGE BENEFITS - OPS	800.00	1,666.68	0.00	-52.00%
0.00	833.33	0.00	-100.00%	5021404000 OTHER FRINGE BENEFITS - MAINT	632.95	3,333.32	350.00	-81.01%
1,495.00	5,000.00	4,020.00	-70.10%	5021416000 OTHER FRINGE BENEFITS - G&A	7,593.25	20,000.00	12,618.00	-62.03%
0.00	208.33	0.00	-100.00%	5021416200 OTHER FRINGE BENEFITS - IT	0.00	833.32	0.00	-100.00%
34,985.79	162,500.00	100,941.80	-78.47%	5021501000 EARNED TIME - OPS	358,779.96	650,000.00	526,999.08	-44.80%
45,496.84	29,166.67	26,253.26	55.99%	5021504000 EARNED TIME - MAINT	121,298.24	116,666.68	127,197.76	3.97%
3,859.47	2,916.67	2,843.15	32.32%	5021516200 EARNED TIME - IT	14,316.72	11,666.68	9,030.89	22.71%
0.00	1,500.00	0.00	-100.00%	5021604000 TOOL ALLOWANCE - MAINT	0.00	6,000.00	11,026.41	-100.00%
7,423.76	3,750.00	7,538.05	97.97%	5021701000 DISABILITY - OPS	10,712.69	15,000.00	16,026.97	-28.58%
0.00	416.67	0.00	-100.00%	5021704000 DISABILITY - MAINT	1,669.50	1,666.68	0.00	0.17%
0.00	83.33	0.00	-100.00%	5021716200 DISABILITY - IT	0.00	333.32	0.00	-100.00%
0.00	0.00	176.49	0.00%	5021801000 WORKERS COMP - PAYROLL - OPS	0.00	0.00	176.49	0.00%
0.00	0.00	0.00	0.00%	5021804000 WORKERS COMP - PAYROLL - MAINT	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5021816200 WORKERS COMP - PAYROLL - IT	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5021901000 ROTATION BOARD PAY - OPS	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5021904000 ROTATION BOARD PAY - MAINT	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5021916000 ROTATION BOARD PAY - G&A	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5021916200 ROTATION BOARD PAY - IT	0.00	0.00	0.00	0.00%
0.00	16,666.67	0.00	-100.00%	5022001000 EARLY RETIREMENT PLAN - OPS	0.00	66,666.68	11,346.00	-100.00%
0.00	2,916.67	0.00	-100.00%	5022004000 EARLY RETIREMENT PLAN - MAINT	0.00	11,666.68	0.00	-100.00%
0.00	2,083.33	0.00	-100.00%	5022016000 EARLY RETIREMENT PLAN - G&A	0.00	8,333.32	0.00	-100.00%
0.00	0.00	0.00	0.00%	5022016200 EARLY RETIREMENT PLAN - IT	0.00	0.00	0.00	0.00%
0.00	0.00	2,978.46	0.00%	5023001000 "SICK BANK" EXPENSES - OPS	0.00	0.00	54,999.58	0.00%
0.00	0.00	222.24	0.00%	5023004000 "SICK BANK" EXPENSES - MAINT	0.00	0.00	6,040.28	0.00%
0.00	0.00	0.00	0.00%	5023016000 "SICK BANK" EXPENSES - G&A	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5023016200 "SICK BANK" EXPENSES - IT	0.00	0.00	954.16	0.00%
<b>983,483.97</b>	<b>1,264,041.67</b>	<b>1,011,919.68</b>	<b>-22.20%</b>	<b>5029999900 ** TOTAL FRINGE BENEFITS</b>	<b>4,156,013.57</b>	<b>5,056,166.68</b>	<b>4,653,655.13</b>	<b>-17.80%</b>
<b>5030000000 ** SERVICES</b>								
30,840.66	68,750.00	51,514.79	-55.14%	5030316000 PROFESSIONAL SERVICES - G&A	219,652.75	275,000.00	181,047.01	-20.13%
1,875.50	208.33	0.00	800.25%	5030316200 PROFESSIONAL SERVICES - IT	3,323.89	833.32	60.53	298.87%
0.00	833.33	11,186.58	-100.00%	5030316300 PROFESSIONAL SERVICES - IT - NON	0.00	3,333.32	11,186.58	-100.00%
16,300.00	16,666.67	8,642.00	-2.20%	5030316400 PROFESSIONAL SERVICES - G&A - N	36,355.00	66,666.68	28,366.00	-45.47%
0.00	0.00	0.00	0.00%	5030404000 TEMPORARY HELP - MAINT	0.00	0.00	0.00	0.00%
0.00	4,166.67	0.00	-100.00%	5030416000 TEMPORARY HELP - G&A	0.00	16,666.68	0.00	-100.00%
2,170.40	6,666.67	890.27	-67.44%	5030501000 CONTRACT MAINTENANCE - OPS	8,134.67	26,666.68	1,299.14	-69.50%

# Champaign Urbana Mass Transit District

## Budget Analysis Report

From Fiscal Year: 2023      From Period 4      Division: 00 Champaign Urbana Mass Transit District      As of: 10/31/2022  
 Thru Fiscal Year: 2023      Thru Period 4

Oct-2022	Budget This Period	Oct-2021	Act/Bgt Var %		Actual Ytd	Jul-2022 thru Oct-2022 Budget Ytd	Last Ytd	Act/Bgt Var %
10,218.57	13,333.33	13,551.51	-23.36%	5030504000 CONTRACT MAINTENANCE - MAINT	47,776.74	53,333.32	65,762.74	-10.42%
48,258.02	50,833.33	17,768.57	-5.07%	5030516000 CONTRACT MAINTENANCE - G&A	187,015.99	203,333.32	141,528.54	-8.02%
1,150.05	2,916.67	1,016.08	-60.57%	5030516200 CONTRACT MAINTENANCE - IT	3,858.82	11,666.68	6,156.07	-66.92%
56.46	0.00	0.00	100.00%	5030516300 CONTRACT MAINTENANCE - IT - NON	154.22	0.00	0.00	100.00%
0.00	0.00	0.00	0.00%	5030604000 CUSTODIAL SERVICES - MAINT	0.00	0.00	0.00	0.00%
10,000.00	3,750.00	0.00	166.67%	5030801000 PRINTING SERVICES - OPS	24,480.42	15,000.00	894.06	63.20%
0.00	83.33	0.00	-100.00%	5030804000 PRINTING SERVICES - MAINT	0.00	333.32	0.00	-100.00%
338.00	416.67	0.00	-18.88%	5030816000 PRINTING SERVICES - G&A	338.00	1,666.68	25,621.14	-79.72%
0.00	83.33	0.00	-100.00%	5030816200 PRINTING SERVICES - IT	0.00	333.32	0.00	-100.00%
0.00	0.00	0.00	0.00%	5030816300 PRINTING SERVICES - IT - NON-REIM	0.00	0.00	0.00	0.00%
1,694.00	8,333.33	1,541.00	-79.67%	5031216000 CABS	9,865.00	33,333.32	6,878.00	-70.40%
7,250.72	3,750.00	2,897.48	93.35%	5039901000 OTHER SERVICES - OPS	24,478.29	15,000.00	7,669.62	63.19%
755.60	1,250.00	2,667.47	-39.55%	5039904000 OTHER SERVICES - MAINT	2,968.06	5,000.00	3,800.09	-40.64%
843.50	8,333.33	354.90	-89.88%	5039916000 OTHER SERVICES - G&A	16,612.05	33,333.32	8,177.17	-50.16%
208.15	333.33	132.39	-37.55%	5039916200 OTHER SERVICES - IT	307.30	1,333.32	382.34	-76.95%
0.00	0.00	0.00	0.00%	5039916300 OTHER SERVICES - IT - NON-REIMB	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5039916400 OTHER SERVICES - G&A - NON-REIM	0.00	0.00	0.00	0.00%
<b>131,959.63</b>	<b>190,708.32</b>	<b>112,163.04</b>	<b>-30.81%</b>	<b>5039999900 ** TOTAL SERVICES</b>	<b>585,321.20</b>	<b>762,833.28</b>	<b>488,829.03</b>	<b>-23.27%</b>
<b>5040000000 ** MATERIALS &amp; SUPPLIES CONSUM</b>								
199,898.32	229,166.67	134,768.96	-12.77%	5040101000 FUEL & LUBRICANTS - OPS	772,958.16	916,666.68	501,517.94	-15.68%
19,565.46	14,583.33	13,070.00	34.16%	5040104000 FUEL & LUBRICANTS - MAINT	75,416.73	58,333.32	51,154.10	29.29%
13,869.22	13,750.00	13,920.65	0.87%	5040201000 TIRES & TUBES - OPS - MB DO	47,803.80	55,000.00	53,095.10	-13.08%
1,362.43	916.67	668.67	48.63%	5040204000 TIRES & TUBES - MAINT - DR DO	3,312.49	3,666.68	2,035.06	-9.66%
0.00	0.00	0.00	0.00%	5040206000 TIRES & TUBES - NON-REVENUE VEH	0.00	0.00	0.00	0.00%
2,142.75	4,166.67	1,159.19	-48.57%	5040304000 GARAGE EQUIPMENT REPAIRS - MAI	2,142.75	16,666.68	3,543.42	-87.14%
18,304.57	14,583.33	21,882.46	25.52%	5040404000 BLDG & GROUND REPAIRS - MAINT -	72,965.84	58,333.32	37,071.28	25.08%
334.68	4,166.67	256.18	-91.97%	5040404001 BLDG & GROUND REPAIRS - MAINT -	782.18	16,666.68	2,499.85	-95.31%
0.00	83.33	0.00	-100.00%	5040404002 BLDG & GROUND REPAIRS - MAINT -	0.00	333.32	0.00	-100.00%
8,600.14	10,833.33	7,123.28	-20.61%	5040416200 BLDG & GROUND REPAIRS - IT	25,867.97	43,333.32	19,264.21	-40.30%
8,998.18	1,250.00	8,238.95	619.85%	5040416300 BLDG & GROUND REPAIRS - IT - NON	10,155.42	5,000.00	10,569.77	103.11%
0.00	416.67	178.50	-100.00%	5040416400 BLDG & GROUND REPAIRS - G&A - N	0.00	1,666.68	5,616.21	-100.00%
0.00	0.00	15.70	0.00%	5040500001 REVENUE VEHICLE REPAIRS - CORE	158.96	0.00	-14.30	100.00%
127,601.71	200,000.00	241,047.90	-36.20%	5040504000 REVENUE VEHICLE REPAIRS	541,036.81	800,000.00	606,289.04	-32.37%
4,322.16	2,083.33	2,070.92	107.46%	5040604000 NON-REVENUE VEHICLE REPAIRS	43,896.36	8,333.32	4,200.30	426.76%
10,796.88	8,333.33	4,341.33	29.56%	5040704000 SERVICE SUPPLIES - MAINT	30,389.37	33,333.32	25,147.43	-8.83%
1,941.88	2,333.33	279.49	-16.78%	5040716200 SERVICE SUPPLIES - IT	9,033.00	9,333.32	6,162.17	-3.22%
4,191.81	3,750.00	9,838.46	11.78%	5040801000 OFFICE SUPPLIES - OPS	9,119.31	15,000.00	16,205.55	-39.20%

# Champaign Urbana Mass Transit District

## Budget Analysis Report

From Fiscal Year: 2023      From Period 4      Division: 00 Champaign Urbana Mass Transit District      As of: 10/31/2022  
 Thru Fiscal Year: 2023      Thru Period 4

Oct-2022	Budget This Period	Oct-2021	Act/Bgt Var %		Actual Ytd	Jul-2022 thru Oct-2022 Budget Ytd	Last Ytd	Act/Bgt Var %
686.78	1,416.67	546.50	-51.52%	5040804000 OFFICE SUPPLIES - MAINT	5,136.04	5,666.68	6,049.22	-9.36%
2,461.94	1,333.33	1,187.91	84.65%	5040816000 OFFICE SUPPLIES - G&A	3,839.73	5,333.32	2,363.72	-28.00%
620.56	416.67	221.06	48.93%	5040816200 OFFICE SUPPLIES - IT	653.81	1,666.68	579.73	-60.77%
193.28	1,666.67	0.00	-88.40%	5040901000 COMPUTER & SERVER - MISC EXP'S -	832.01	6,666.68	80.00	-87.52%
0.00	1,666.67	0.00	-100.00%	5040904000 COMPUTER & SERVER - MISC EXP'S -	0.00	6,666.68	14,367.90	-100.00%
6,904.34	7,500.00	3,928.27	-7.94%	5040916000 COMPUTER & SERVER - MISC EXP'S -	101,389.27	30,000.00	31,565.57	237.96%
0.00	416.67	0.00	-100.00%	5040916200 COMPUTER & SERVER - MISC EXP'S -	0.00	1,666.68	0.00	-100.00%
942.48	833.33	49.58	13.10%	5041001000 SAFETY & TRAINING - OPS	1,362.17	3,333.32	567.44	-59.13%
515.85	833.33	88.34	-38.10%	5041004000 SAFETY & TRAINING - MAINT	1,910.85	3,333.32	88.34	-42.67%
7,348.10	7,083.33	1,656.04	3.74%	5041104000 PASSENGER SHELTER REPAIRS	29,416.81	28,333.32	18,526.73	3.82%
298.88	833.33	825.88	-64.13%	5041201000 SMALL TOOLS & EQUIP - OPS	329.13	3,333.32	825.88	-90.13%
3,595.74	5,416.67	3,516.52	-33.62%	5041204000 SMALL TOOLS & EQUIP - MAINT	6,771.03	21,666.68	9,717.25	-68.75%
0.00	6,250.00	0.00	-100.00%	5041216000 SMALL TOOLS & EQUIP - G&A	0.00	25,000.00	0.00	-100.00%
0.00	833.33	324.12	-100.00%	5041216200 SMALL TOOLS & EQUIP - IT	111.33	3,333.32	447.24	-96.66%
0.00	0.00	0.00	0.00%	5041216300 SMALL TOOLS & EQUIP - IT - NON-RE	0.00	0.00	0.00	0.00%
0.00	0.00	0.00	0.00%	5041216400 SMALL TOOLS & EQUIP - G&A - NON-	0.00	0.00	0.00	0.00%
0.00	83.33	0.00	-100.00%	5041304000 FAREBOX REPAIRS	0.00	333.32	0.00	-100.00%
4,008.51	5,416.67	4,979.53	-26.00%	5041404000 CAD/AVL,CAMERA,RADIO REPAIRS -	30,487.88	21,666.68	19,142.94	40.71%
454.97	1,250.00	683.01	-63.60%	5041504000 ADA VEHICLE REPAIRS - MAINT	17,360.33	5,000.00	5,048.14	247.21%
<b>449,961.62</b>	<b>553,666.66</b>	<b>476,867.40</b>	<b>-18.73%</b>	<b>5049999900 ** TOTAL MATERIAL &amp; SUPPLIES</b>	<b>1,844,639.54</b>	<b>2,214,666.64</b>	<b>1,453,727.23</b>	<b>-16.71%</b>
<b>5050000000 **UTILITIES</b>								
52,813.30	75,000.00	41,597.19	-29.58%	5050216000 ** UTILITIES - G&A	298,970.84	300,000.00	167,600.25	-0.34%
9,007.40	12,500.00	3,812.44	-27.94%	5050216200 ** UTILITIES - IT	63,294.57	50,000.00	34,783.33	26.59%
4,027.39	5,416.67	1,202.85	-25.65%	5050216300 ** UTILITIES - IT - NON-REIMB	31,767.76	21,666.68	16,307.18	46.62%
7,648.74	416.67	271.56	> 999.99%	5050216400 ** UTILITIES - G&A - NON-REIMB	8,387.55	1,666.68	1,132.71	403.25%
<b>73,496.83</b>	<b>93,333.34</b>	<b>46,884.04</b>	<b>-21.25%</b>	<b>5059999900 **TOTAL UTILITIES</b>	<b>402,420.72</b>	<b>373,333.36</b>	<b>219,823.47</b>	<b>7.79%</b>
<b>5060000000 ** CASUALTY &amp; LIABILITY COSTS</b>								
8,307.86	7,916.67	7,429.28	4.94%	5060104000 PHYSICAL DAMAGE PREMIUMS - MAI	32,262.44	31,666.68	29,717.12	1.88%
0.00	0.00	0.00	0.00%	5060116200 PHYSICAL DAMAGE PREMIUMS - IT	0.00	0.00	0.00	0.00%
-13,071.69	-2,916.67	-3,005.92	348.17%	5060204000 PHYSICAL DAMAGE RECOVERIES - M	-13,855.82	-11,666.68	-16,392.36	18.76%
54,925.61	50,000.00	33,626.26	9.85%	5060316000 PL & PD INSURANCE PREMIUMS - G&	162,557.48	200,000.00	135,524.04	-18.72%
0.00	0.00	0.00	0.00%	5060316200 PL & PD INSURANCE PREMIUMS - IT	0.00	0.00	0.00	0.00%
28,981.08	50,000.00	28,328.13	-42.04%	5060416000 UNINSURED PL & PD PAYOUTS - G&A	117,583.59	200,000.00	114,768.44	-41.21%
3,766.98	4,166.67	3,710.65	-9.59%	5060816000 PREMIUMS-OTHER COPORATE INS.	16,120.92	16,666.68	14,842.60	-3.27%
<b>82,909.84</b>	<b>109,166.67</b>	<b>70,088.40</b>	<b>-24.05%</b>	<b>5069999900 ** TOTAL CASUALTY &amp; LIABILITY</b>	<b>314,668.61</b>	<b>436,666.68</b>	<b>278,459.84</b>	<b>-27.94%</b>

# Champaign Urbana Mass Transit District

## Budget Analysis Report

From Fiscal Year: 2023      From Period 4      Division: 00 Champaign Urbana Mass Transit District      As of: 10/31/2022  
 Thru Fiscal Year: 2023      Thru Period 4

Oct-2022	Budget This Period	Oct-2021	Act/Bgt Var %		Actual Ytd	Jul-2022 thru Oct-2022 Budget Ytd	Last Ytd	Act/Bgt Var %
<b>5070000000 ** TAXES</b>								
0.00	416.67	1,500.00	-100.00%	5070316000 PROPERTY TAXES	0.00	1,666.68	6,000.00	-100.00%
312.50	333.33	312.50	-6.25%	5070316400 PROPERTY TAXES - NON-REIMB	1,250.00	1,333.32	1,250.00	-6.25%
0.00	250.00	948.00	-100.00%	5070401000 VEHICLE LICENSING FEES - OPS	23.00	1,000.00	948.00	-97.70%
0.00	0.00	0.00	0.00%	5070416000 VEHICLE LICENSING FEES - G&A	0.00	0.00	0.00	0.00%
2,646.17	3,333.33	2,633.40	-20.61%	5070501000 FUEL TAX	9,438.97	13,333.32	10,536.37	-29.21%
<b>2,958.67</b>	<b>4,333.33</b>	<b>5,393.90</b>	<b>-31.72%</b>	<b>5079999900 ** TOTAL TAXES</b>	<b>10,711.97</b>	<b>17,333.32</b>	<b>18,734.37</b>	<b>-38.20%</b>
<b>5080100000 ** PURCHASED TRANSPORTATION</b>								
0.00	0.00	0.00	0.00%	5080116000 CABS (Closed - See GL 5031216000)	0.00	0.00	0.00	0.00%
76,805.83	77,500.00	72,988.83	-0.90%	5080216000 ADA CONTRACTS	307,226.32	310,000.00	291,960.32	-0.89%
<b>76,805.83</b>	<b>77,500.00</b>	<b>72,988.83</b>	<b>-0.90%</b>	<b>5089999900 **TOTAL PURCHASED TRANSPORTA</b>	<b>307,226.32</b>	<b>310,000.00</b>	<b>291,960.32</b>	<b>-0.89%</b>
<b>5090000000 ** MISCELLANEOUS EXPENSES</b>								
14,598.64	9,166.67	5,906.67	59.26%	5090116000 DUES & SUBSCRIPTIONS - G&A	45,485.52	36,666.68	27,350.69	24.05%
6,807.79	10,416.67	7,950.86	-34.65%	5090216000 TRAVEL & MEETINGS - G&A	35,691.91	41,666.68	99,982.01	-14.34%
0.00	0.00	0.00	0.00%	5090716000 BAD DEBT EXPENSE	0.00	0.00	0.00	0.00%
7,437.92	16,666.67	15,985.47	-55.37%	5090816000 ADVERTISING EXPENSES - G&A	54,081.72	66,666.68	67,970.41	-18.88%
0.00	0.00	0.00	0.00%	5090816200 ADVERTISING EXPENSES - IT	0.00	0.00	0.00	0.00%
1,300.00	666.67	0.00	95.00%	5090916000 TRUSTEE COMPENSATION	3,800.00	2,666.68	0.00	42.50%
63.52	583.33	0.00	-89.11%	5091016000 POSTAGE	1,803.38	2,333.32	1,714.00	-22.71%
0.00	0.00	0.00	0.00%	5091516000 LOSS/DISPOSAL FIXED ASSETS	0.00	0.00	0.00	0.00%
2,166.00	8,333.33	7,011.00	-74.01%	5091616000 ADVERTISING SERVICES EXPENSE	19,901.00	33,333.32	29,830.75	-40.30%
0.00	0.00	0.00	0.00%	5091716000 SUBSTANCE ABUSE PROGRAM	0.00	0.00	0.00	0.00%
205.00	1,666.67	426.85	-87.70%	5099901000 OTHER MISC EXPENSES - OPS	920.35	6,666.68	3,240.85	-86.19%
352.93	1,666.67	923.75	-78.82%	5099904000 OTHER MISC EXPENSES - MAINT	5,580.83	6,666.68	1,617.65	-16.29%
6,320.50	8,333.33	4,900.60	-24.15%	5099916000 OTHER MISC EXPENSES - G&A	18,506.42	33,333.32	14,675.53	-44.48%
1,553.01	1,250.00	847.99	24.24%	5099916200 OTHER MISC EXPENSES - IT	3,973.48	5,000.00	3,204.96	-20.53%
0.00	83.33	2,109.20	-100.00%	5099916300 OTHER MISC EXPENSES - IT - NON-R	0.00	333.32	2,109.20	-100.00%
3,200.30	2,083.33	1,993.90	53.61%	5099916400 OTHER MISC EXPENSES - G&A - NON	10,496.58	8,333.32	6,499.93	25.96%
39,194.02	0.00	-5,119.66	100.00%	5099926000 UNALLOCATED EXPENSES	21,012.68	0.00	2,784.88	100.00%
<b>83,199.63</b>	<b>60,916.67</b>	<b>42,936.63</b>	<b>36.58%</b>	<b>5099999900 ** TOTAL MISCELLANEOUS EXPENS</b>	<b>221,253.87</b>	<b>243,666.68</b>	<b>260,980.86</b>	<b>-9.20%</b>

**5110000000 \*\* INTEREST EXPENSES**

# Champaign Urbana Mass Transit District

## Budget Analysis Report

From Fiscal Year: 2023		From Period 4		Division: 00 Champaign Urbana Mass Transit District				As of: 10/31/2022	
Thru Fiscal Year: 2023		Thru Period 4							
Oct-2022	Budget This Period	Oct-2021	Act/Bgt Var %			Jul-2022 thru Oct-2022		Last Ytd	Act/Bgt Var %
				Actual Ytd	Budget Ytd				
0.00	0.00	0.00	0.00%	5110116000 INTEREST - LONG-TERM DEBTS	0.00	0.00	0.00	0.00%	
109.37	4,166.67	9,199.20	-97.38%	5110216000 INTEREST - SHORT-TERM DEBTS	258.84	16,666.68	30,336.63	-98.45%	
109.37	4,166.67	9,199.20	-97.38%	5119999900 ** TOTAL INTEREST	258.84	16,666.68	30,336.63	-98.45%	
5120000000 ** LEASE & RENTALS									
15,565.73	12,500.00	3,164.70	24.53%	5120401000 PASSENGER REVENUE VEHICLES -	28,385.21	50,000.00	12,658.80	-43.23%	
706.04	4,166.67	706.04	-83.06%	5120516000 SERVICE VEHICLE LEASES	2,824.16	16,666.68	2,824.16	-83.06%	
0.00	8,333.33	805.99	-100.00%	5120704000 GARAGE EQUIPMENT LEASES - MAIN	0.00	33,333.32	3,223.96	-100.00%	
0.00	0.00	0.00	0.00%	5120901000 RADIO EQUIPMENT LEASES - OPS	0.00	0.00	0.00	0.00%	
12,638.93	12,500.00	15,552.32	1.11%	5121216000 G&A FACILITIES LEASES	53,469.11	50,000.00	62,209.28	6.94%	
83.30	18,750.00	11,338.03	-99.56%	5121301000 MISC LEASES - OPS	2,212.09	75,000.00	44,756.23	-97.05%	
17,812.50	18,750.00	3,333.33	-5.00%	5121304000 MISC LEASES - MAINT	66,800.43	75,000.00	18,970.32	-10.93%	
1,332.77	3,333.33	1,419.24	-60.02%	5121316000 MISC LEASES - G&A	5,331.08	13,333.32	5,676.96	-60.02%	
66.63	1,250.00	70.96	-94.67%	5121316200 MISC LEASES - IT	266.52	5,000.00	8.36	-94.67%	
0.00	0.00	0.00	0.00%	5121316300 MISC LEASES - IT - NON-REIMB	0.00	0.00	2,100.00	0.00%	
2,100.00	83.33	87.50	> 999.99%	5121316400 MISC LEASES - G&A - NON-REIMB	2,100.00	333.32	350.00	530.03%	
50,305.90	79,666.66	36,478.11	-36.85%	5129999900 ** TOTAL LEASE & RENTALS	161,388.60	318,666.64	152,778.07	-49.36%	
5130000000 ** DEPRECIATION									
23,532.21	0.00	22,193.24	100.00%	5130201000 PASSENGER SHELTER DEPRECIATIO	94,128.84	0.00	88,772.96	100.00%	
475,655.87	0.00	433,231.39	100.00%	5130401000 REVENUE VEHICLE DEPRECIATION	1,902,623.48	0.00	1,732,925.56	100.00%	
7,039.01	0.00	7,039.03	100.00%	5130516000 SERVICE VEHICLE DEPRECIATION	28,156.04	0.00	28,156.12	100.00%	
5,904.04	0.00	5,904.05	100.00%	5130704000 GARAGE EQUIP DEPRECIATION	23,616.16	0.00	23,616.20	100.00%	
926.67	0.00	4,121.53	100.00%	5130901000 REVENUE VEHICLE RADIO EQUIP DE	3,706.68	0.00	16,486.12	100.00%	
6,328.79	0.00	7,206.48	100.00%	5131016000 COMPUTER EQUIP DEPRECIATION	25,315.16	0.00	28,825.92	100.00%	
0.00	0.00	0.00	0.00%	5131116000 REVENUE COLLECTION EQUIP DEPR	0.00	0.00	0.00	0.00%	
139,872.23	0.00	129,039.62	100.00%	5131216000 G&A FACILITIES DEPRECIATION	559,488.92	0.00	516,158.48	100.00%	
3,121.70	0.00	2,820.03	100.00%	5131316000 G&A SYSTEM DEVELOPMENT DEPR	12,486.80	0.00	11,280.12	100.00%	
253.57	0.00	253.56	100.00%	5131416000 MISCELLANEOUS EQUIP DEPR	1,014.28	0.00	1,014.24	100.00%	
0.00	0.00	0.00	0.00%	5131516000 OFFICE EQUIP DEPRECIATION	0.00	0.00	0.00	0.00%	
662,634.09	0.00	611,808.93	100.00%	5139999900 ** TOTAL DEPRECIATION	2,650,536.36	0.00	2,447,235.72	100.00%	
0.00	0.00	0.00	0.00%	5170116000 DEBT SERVICE ON EQUIPMENT & FA	0.00	0.00	0.00	0.00%	
4,308,971.60	4,174,916.66	3,927,727.89	3.21%	5999990000 **** TOTAL EXPENSES ****	17,233,574.91	16,699,666.64	16,140,859.98	3.20%	

# Champaign Urbana Mass Transit District

## Budget Analysis Report

From Fiscal Year: 2023		From Period 4		Division: 00 Champaign Urbana Mass Transit District				As of: 10/31/2022	
Thru Fiscal Year: 2023		Thru Period 4							
	Budget		Act/Bgt		Jul-2022 thru Oct-2022			Act/Bgt	
Oct-2022	This Period	Oct-2021	Var %		Actual Ytd	Budget Ytd	Last Ytd	Var %	
-52,713.77	6,816,170.83	42,700.20	-100.77%	5999999800 NET SURPLUS (DEFICIT)	1,121,427.61	27,264,683.32	-118,884.07	-95.89%	



**Champaign-Urbana Mass Transit District**  
**Accounts Payable Check Disbursement List**  
**BUSEY BANK OPERATING ACCOUNT**

From Date: 10/01/2022

Thru Date: 10/31/2022

CheckNo	ReferenceDate	Reference	Payee	CheckAmount	C-CARTS Portion	MTD Portion	Voided
157923	06-Oct-22	A1934	ADVANCE AUTO PARTS	\$40.67		\$40.67	
157924	06-Oct-22	A2488	AFLAC GROUP INSURANCE	\$223.36		\$223.36	
157925	06-Oct-22	A5085	AMERENIP	\$924.61		\$924.61	
157926	06-Oct-22	A8006	AT & T MOBILITY LLC	\$180.78		\$180.78	
157927	06-Oct-22	A8007	AT & T	\$1,507.19		\$1,507.19	
157928	06-Oct-22	B2040	JOHN D. BEDIENT	\$61.30		\$61.30	
157929	06-Oct-22	B3555	BIRKEY'S FARM STORE, INC.	\$881.22		\$881.22	
157930	06-Oct-22	B8501	BUMPER TO BUMPER	\$56.89		\$56.89	
157931	06-Oct-22	C2165	CENTRAL ILLINOIS TRUCKS	\$2,574.61		\$2,574.61	
157932	06-Oct-22	C3042	CHAMPAIGN MOTORS INC	\$316.88		\$316.88	
157933	06-Oct-22	C3045	CITY OF CHAMPAIGN	\$1,408.44		\$1,408.44	
157934	06-Oct-22	C3105	CHEMICAL MAINTENANCE INC.	\$3,652.11		\$3,652.11	
157935	06-Oct-22	C4588	CLEAN UNIFORM COMPANY	\$672.85		\$672.85	
157936	06-Oct-22	C6258	COLUMBIA STREET ROASTERY	\$89.00		\$89.00	
157937	06-Oct-22	C6263	COMCAST CABLE	\$510.96		\$510.96	
157938	06-Oct-22	C6408	COUNTRY ARBORS NURSERY, INC.	\$43.80		\$43.80	
157939	06-Oct-22	C7301	JACINDA CRAWMER	\$104.73		\$104.73	
157940	06-Oct-22	C8500	CUMMINS INC.	\$276.83		\$276.83	
157941	06-Oct-22	D0423	DAVE & HARRY LOCKSMITHS	\$42.39		\$42.39	
157942	06-Oct-22	D0426	DAVIS-HOUK MECHANICAL, INC	\$2,744.32		\$2,744.32	
157943	06-Oct-22	D2012	DEAN'S GRAPHICS	\$1,642.00		\$1,642.00	
157944	06-Oct-22	D2550	TERESA DESMOND	\$27.76		\$27.76	
157945	06-Oct-22	D8520	DUNCAN SUPPLY CO. INC.	\$4,197.30		\$4,197.30	
157946	06-Oct-22	D8587	DUST & SON OF CHAMPAIGN COUNTY, INC	\$564.62		\$564.62	
157947	06-Oct-22	F0367	FASTENERS ETC., INC.	\$281.91		\$281.91	
157948	06-Oct-22	F6367	FORD CITY	\$1,118.98		\$1,118.98	
157949	06-Oct-22	G2287	GFL ENVIRONMENTAL HOLDINGS (US), INC	\$1,479.02		\$1,479.02	
157950	06-Oct-22	G4293	GLOBAL TECHNICAL SYSTEMS, INC.	\$2,340.98		\$2,340.98	
157951	06-Oct-22	G7308	GRAINGER	\$1,262.74		\$1,262.74	
157952	06-Oct-22	G73301	GRAYBAR ELECTRIC COMPANY	\$91.28		\$91.28	
157953	06-Oct-22	H9540	HYDROGEN FUEL CELL BUS COUNCIL	\$3,326.69		\$3,326.69	
157954	06-Oct-22	I1595	IDENTISYS INCORPORATED	\$1,208.47		\$1,208.47	
157955	06-Oct-22	I4747	ILLINI FS, INC.	\$23,889.94		\$23,889.94	
157956	06-Oct-22	I4790	ILLINOIS-AMERICAN WATER	\$390.24		\$390.24	
157957	06-Oct-22	I4840	ILLINOIS OIL MARKETING	\$800.00		\$800.00	
157958	06-Oct-22	I4879	IL PUBLIC TRANSIT RISK MANAGEMENT ASOC	\$323.00		\$323.00	
157959	06-Oct-22	I5562	INDIANA STANDARDS LABORATORY	\$96.00		\$96.00	
157960	06-Oct-22	I5904	INTERSTATE BATTERIES	\$156.60		\$156.60	
157961	06-Oct-22	J0320	JANITOR & MAINTENANCE SUPPLIES, INC.	\$59.43		\$59.43	
157962	06-Oct-22	K8564	KURLAND STEEL COMPANY	\$16.00		\$16.00	
157963	06-Oct-22	L2005	DONALD DAVID OWEN	\$6,825.00		\$6,825.00	
157964	06-Oct-22	M1090	MCCORMICK DISTRIBUTION & SERVICE	\$695.72		\$695.72	
157965	06-Oct-22	M1246	MCMMASTER-CARR SUPPLY CO.	\$1,266.58		\$1,266.58	
157966	06-Oct-22	M2179	MENARD'S	\$435.28		\$435.28	
157967	06-Oct-22	M3505	MINDFIRE COMMUNICATIONS, INC.	\$1,000.00		\$1,000.00	
157968	06-Oct-22	N0320	NAPA AUTO PARTS	\$254.10		\$254.10	
157969	06-Oct-22	N2292	THE AFTERMARKET PARTS COMPANY, LLC.	\$24,474.24		\$24,474.24	
157970	06-Oct-22	N2297	NEW PRAIRIE CONSTRUCTION COMPANY	\$460.08		\$460.08	
157971	06-Oct-22	O7370	O'REILLY AUTOMOTIVE, INC.	\$814.83		\$814.83	
157972	06-Oct-22	O7450	ORKIN EXTERMINATING CO.	\$250.00		\$250.00	
157973	06-Oct-22	P2256	PETTY CASH (CHANGE FUND)	\$196.00		\$196.00	
157974	06-Oct-22	P4521	CYNTHIA HOYLE	\$2,015.00		\$2,015.00	
157975	06-Oct-22	P4525	NORMA MCFARLAND	\$463.82		\$463.82	
157976	06-Oct-22	Q8300	QUADIENT LEASING USA INC	\$146.31		\$146.31	
157977	06-Oct-22	Q8455	QUILL	\$155.59		\$155.59	
157978	06-Oct-22	R6120	ROGARDS OFFICE PRODUCTS	\$1,127.79		\$1,127.79	
157979	06-Oct-22	S0060	SAFEWORKS ILLINOIS	\$110.00		\$110.00	
157980	06-Oct-22	S0078	SAFETY-KLEEN CORP.	\$943.21		\$0.00	
157981	06-Oct-22	S0270	DAN SAPHIERE	\$358.40		\$358.40	
157982	06-Oct-22	S2190	BRENDAN SENNETT	\$200.00		\$200.00	
157983	06-Oct-22	S3003	RUSSELL E SHAFFER III	\$396.00		\$396.00	
157984	06-Oct-22	S5192	S.J. SMITH WELDING SUPPLY	\$231.65		\$231.65	
157985	06-Oct-22	S6517	GREGORY SPANGLO	\$16.34		\$16.34	



**Champaign-Urbana Mass Transit District**  
**Accounts Payable Check Disbursement List**  
**BUSEY BANK OPERATING ACCOUNT**

From Date: 10/01/2022

Thru Date: 10/31/2022

CheckNo	ReferenceDate	Reference	Payee	CheckAmount	C-CARTS Portion	MTD Portion	Voided
157986	06-Oct-22	T2205	CONSOLIDATED ELECTRICAL DISTRIBUTORS, IN	\$329.04		\$329.04	
157987	06-Oct-22	T7510	TROPHYTIME	\$9.65		\$9.65	
157988	06-Oct-22	U5180	UNITED PARCEL SERVICE	\$120.16		\$120.16	
157989	06-Oct-22	U5998	UNIVERSITY OF ILLINOIS	\$32,732.83		\$32,732.83	
157990	06-Oct-22	U7385	URBANA TRUE TIRES	\$3,157.74		\$3,157.74	
157991	06-Oct-22	U7653	US BANK VENDOR SERVICES	\$1,849.94	\$183.98	\$1,665.96	
157992	06-Oct-22	V0240	THOMAS VALENCIA	\$337.50		\$337.50	
157993	06-Oct-22	V3375	V.I.D.A. BOTTEGA LLC	\$50.00		\$50.00	
157994	06-Oct-22	V3590	VITAL EDUCATION & SUPPLY, INC.	\$1,220.00		\$1,220.00	
157995	06-Oct-22	F2425	F.H. PASCHEN, S.N. NIELSEN & ASSOC LLC	\$114,360.51		\$114,360.51	
157996	06-Oct-22	I4841	ILLINOIS PUBLIC RISK FUND	\$23,218.00		\$23,218.00	
157997	06-Oct-22	R6000	ROBBINS, SCHWARTZ, NICHOLAS, LIFTON & TA	\$325.00		\$325.00	
157998	13-Oct-22	A1934	ADVANCE AUTO PARTS	\$60.01		\$60.01	
157999	13-Oct-22	A5002	AMAZON	\$5,391.42		\$5,391.42	
158000	13-Oct-22	A5085	AMERENIP	\$4,374.79		\$4,374.79	
158001	13-Oct-22	A8155	ATLAS CAB	\$2,661.00		\$2,661.00	
158002	13-Oct-22	A8576	AUTOMOTIVE EQUIPMENT SALES & SERVICE	\$0.00		\$0.00	X
158003	13-Oct-22	B0427	BARBECK COMMUNICATION	\$915.30	\$915.30	\$0.00	
158004	13-Oct-22	B3555	BIRKEY'S FARM STORE, INC.	\$699.78		\$699.78	
158005	13-Oct-22	C0340	CARDINAL INFRASTRUCTURE, LLC	\$6,500.00		\$6,500.00	
158006	13-Oct-22	C0365	CARLE PHYSICIAN GROUP	\$1,260.00	\$105.00	\$1,155.00	
158007	13-Oct-22	C2165	CENTRAL ILLINOIS TRUCKS	\$10,198.78		\$10,198.78	
158008	13-Oct-22	C2172	CMS/LGHP	\$465,659.00	\$3,710.00	\$461,949.00	
158009	13-Oct-22	C3105	CHEMICAL MAINTENANCE INC.	\$867.31		\$867.31	
158010	13-Oct-22	C4588	CLEAN UNIFORM COMPANY	\$627.96		\$627.96	
158011	13-Oct-22	C6258	COLUMBIA STREET ROASTERY	\$268.00		\$268.00	
158012	13-Oct-22	C62630	COMMERCIAL BUILDERS, INC.	\$1,990.00		\$1,990.00	
158013	13-Oct-22	C6282	CONNOR COMPANY	\$55.87		\$55.87	
158014	13-Oct-22	D0271	DANVILLE MASS TRANSIT	\$929.00		\$929.00	
158015	13-Oct-22	D2012	DEAN'S GRAPHICS	\$3,178.00		\$3,178.00	
158016	13-Oct-22	D2850	DEVELOPMENTAL SERVICES	\$44,073.00		\$44,073.00	
158017	13-Oct-22	D3575	DIRECT ENERGY BUSINESS	\$16,617.04		\$16,617.04	
158018	13-Oct-22	D3576	DIRECT ENERGY BUSINESS	\$3,246.05		\$3,246.05	
158019	13-Oct-22	D8520	DUNCAN SUPPLY CO. INC.	\$275.54		\$275.54	
158020	13-Oct-22	D8587	DUST & SON OF CHAMPAIGN COUNTY, INC	\$384.67		\$384.67	
158021	13-Oct-22	E0351	E.L. PRUITT COMPANY	\$1,062.00		\$1,062.00	
158022	13-Oct-22	E4600	ELECTRIC TIME COMPANY, INC.	\$2,646.00		\$2,646.00	
158023	13-Oct-22	F0367	FASTENERS ETC., INC.	\$300.00		\$300.00	
158024	13-Oct-22	F6367	FORD CITY	\$344.38		\$344.38	
158025	13-Oct-22	G4293	GLOBAL TECHNICAL SYSTEMS, INC.	\$194.90		\$194.90	
158026	13-Oct-22	G7308	GRAINGER	\$695.60		\$695.60	
158027	13-Oct-22	H3564	HIRERIGHT GIS INTERMEDIATE CORP, INC.	\$2,998.88	\$398.90	\$2,599.98	
158028	13-Oct-22	I5758	INIT INC.	\$11,051.04		\$11,051.04	
158029	13-Oct-22	I5904	INTERSTATE BATTERIES	\$758.10		\$758.10	
158030	13-Oct-22	J0320	JANITOR & MAINTENANCE SUPPLIES, INC.	\$173.01		\$173.01	
158031	13-Oct-22	K2166	KEMPER INDUSTRIAL EQUIP.	\$508.50		\$508.50	
158032	13-Oct-22	L6285	LOOMIS	\$205.66		\$205.66	
158033	13-Oct-22	L9642	LYNN A. UMBARGER	\$1,600.00		\$1,600.00	
158034	13-Oct-22	M0377	MARTIN ONE SOURCE	\$280.00		\$280.00	
158035	13-Oct-22	M2179	MENARD'S	\$38.04		\$38.04	
158036	13-Oct-22	M2310	MEYER CAPEL	\$3,099.00		\$3,099.00	
158037	13-Oct-22	M34035	MIDWEST FIBER RECYCLING	\$210.00		\$210.00	
158038	13-Oct-22	M9548	MYERS TIRE SUPPLY	\$68.96		\$68.96	
158039	13-Oct-22	N0320	NAPA AUTO PARTS	\$556.97		\$556.97	
158040	13-Oct-22	N2292	THE AFTERMARKET PARTS COMPANY, LLC.	\$27,470.93		\$27,470.93	
158041	13-Oct-22	O7370	O'REILLY AUTOMOTIVE, INC.	\$1,493.50		\$1,493.50	
158042	13-Oct-22	P2255	PETTY CASH (GENERAL FUND)	\$199.11		\$199.11	
158043	13-Oct-22	R0308	RAPID REPRODUCTIONS, INC.	\$303.00		\$303.00	
158044	13-Oct-22	R8583	JORDAN RUSH	\$70.51		\$70.51	
158045	13-Oct-22	S0060	SAFEWORKS ILLINOIS	\$1,757.00	\$322.00	\$1,435.00	
158046	13-Oct-22	S0078	SAFETY-KLEEN CORP.	\$953.43		\$953.43	
158047	13-Oct-22	S5192	S.J. SMITH WELDING SUPPLY	\$130.40		\$130.40	
158048	13-Oct-22	S6235	SOUTHERN BUS & MOBILITY INC	\$331.80		\$331.80	

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Thru Date: 10/31/2022

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158049	13-Oct-22	S6517	GREGORY SPANGLO	\$16.34		\$16.34	
158050	13-Oct-22	S6962	SPX CORPORATION	\$5,505.98		\$5,505.98	
158051	13-Oct-22	S8061	STERICYCLE, INC.	\$186.58		\$186.58	
158052	13-Oct-22	T7510	TROPHYTIME	\$164.05		\$164.05	
158053	13-Oct-22	T7585	TRUGREEN CHEMLAWN	\$288.75		\$288.75	
158054	13-Oct-22	T9069	TWILIO INC	\$1,367.51		\$1,367.51	
158055	13-Oct-22	T9072	TWIN CITY INDUSTRIAL RUBBER, INC.	\$26.86		\$26.86	
158056	13-Oct-22	U5180	UNITED PARCEL SERVICE	\$364.38		\$364.38	
158057	13-Oct-22	U7355	U-C SANITARY DISTRICT	\$1,038.22		\$1,038.22	
158058	13-Oct-22	U7357	CITY OF URBANA	\$2,586.28		\$2,586.28	
158059	13-Oct-22	V2233	VERIZON WIRELESS	\$553.80		\$553.80	
158060	20-Oct-22	A4804	ALPHA CONTROLS & SERVICES LLC	\$860.00		\$860.00	
158061	20-Oct-22	A85755	AUTOMOTIVE COLOR & SUPPLY CORP	\$278.83		\$278.83	
158062	20-Oct-22	A8730	AVI-SPL LLC	\$1,010.00		\$1,010.00	
158063	20-Oct-22	B0427	BARBECK COMMUNICATION	\$915.30	\$915.30	\$0.00	
158064	20-Oct-22	B0480	BATTERY SPECIALISTS + GOLF CARTS	\$87.40		\$87.40	
158065	20-Oct-22	B2005	VICTORIA BEACH	\$1,350.00		\$1,350.00	
158066	20-Oct-22	B3555	BIRKEY'S FARM STORE, INC.	\$1,684.98		\$1,684.98	
158067	20-Oct-22	C2165	CENTRAL ILLINOIS TRUCKS	\$6,429.33		VOID	
158068	20-Oct-22	C3105	CHEMICAL MAINTENANCE INC.	\$1,702.26		\$1,702.26	
158069	20-Oct-22	C3512	CINTAS FIRST AID & SAFETY	\$63.44		\$63.44	
158070	20-Oct-22	C4588	CLEAN UNIFORM COMPANY	\$1,359.18		\$1,359.18	
158071	20-Oct-22	C6258	COLUMBIA STREET ROASTERY	\$249.08		\$249.08	
158072	20-Oct-22	C6469	JENNIFER COVAL	\$57.21		\$57.21	
158073	20-Oct-22	C8450	CU HARDWARE COMPANY	\$24.26		\$24.26	
158074	20-Oct-22	D0426	DAVIS-HOUK MECHANICAL, INC	\$5,968.73		\$5,968.73	
158075	20-Oct-22	D8587	DUST & SON OF CHAMPAIGN COUNTY, INC	\$50.84		\$50.84	
158076	20-Oct-22	F2055	FEDERAL EXPRESS CORP.	\$46.98		\$46.98	
158077	20-Oct-22	F6367	FORD CITY	\$436.80		\$436.80	
158078	20-Oct-22	G7308	GRAINGER	\$105.36		\$105.36	
158079	20-Oct-22	H2154	JOEL HELMICK	\$11.54		\$11.54	
158080	20-Oct-22	I1595	IDENTISYS INCORPORATED	\$1,386.04		\$1,386.04	
158081	20-Oct-22	I4973	ILLINOIS TOLLWAY	\$42.00		\$42.00	
158082	20-Oct-22	J0320	JANITOR & MAINTENANCE SUPPLIES, INC.	\$320.20		\$320.20	
158083	20-Oct-22	J3680	JEFFREY A. WILSEY	\$532.94		\$532.94	
158084	20-Oct-22	J8850	JX ENTERPRISES, INC.	\$58.30		\$58.30	
158085	20-Oct-22	K2166	KEMPER INDUSTRIAL EQUIP.	\$169.00		\$169.00	
158086	20-Oct-22	K3515	KIMBALL MIDWEST	\$66.12		\$66.12	
158087	20-Oct-22	M0377	MARTIN ONE SOURCE	\$4,056.27		\$4,056.27	
158088	20-Oct-22	M1090	MCCORMICK DISTRIBUTION & SERVICE	\$3,029.45		\$3,029.45	
158089	20-Oct-22	M1250	JASON MCNEELY	\$61.30		\$61.30	
158090	20-Oct-22	M1269	MCS OFFICE TECHNOLOGIES	\$471.25		\$471.25	
158091	20-Oct-22	M2179	MENARD'S	\$442.76		\$442.76	
158092	20-Oct-22	M34035	MIDWEST FIBER RECYCLING	\$420.00		\$420.00	
158093	20-Oct-22	N0320	NAPA AUTO PARTS	\$174.86		\$174.86	
158094	20-Oct-22	N2292	THE AFTERMARKET PARTS COMPANY, LLC.	\$14,301.32		\$14,301.32	
158095	20-Oct-22	O7450	ORKIN EXTERMINATING CO.	\$250.00		\$250.00	
158096	20-Oct-22	P8360	PUBLIC ART LEAGUE	\$2,100.00		\$2,100.00	
158097	20-Oct-22	R0272	JOSEPH S. RANK	\$1,345.75		\$1,345.75	
158098	20-Oct-22	R2175	RELIABLE PLUMBING & HEATING COMPANY	\$1,397.00		\$1,397.00	
158099	20-Oct-22	R6120	ROGARDS OFFICE PRODUCTS	\$239.98		\$239.98	
158100	20-Oct-22	R6130	ROGERS SUPPLY COMPANY INC	\$61.35		\$61.35	
158101	20-Oct-22	S0254	SAM'S CLUB	\$341.96		\$341.96	
158102	20-Oct-22	S1148	MICHAEL D. SCHLOSSER	\$1,875.50		\$1,875.50	
158103	20-Oct-22	S2215	SOUTH PARK AUTOMOTIVE, LLC	\$136.90		\$136.90	
158104	20-Oct-22	S2216	CHAMPAIGN AUTOMOTIVE LLC	\$2,599.00		\$2,599.00	
158105	20-Oct-22	S3000	WANDA KAY SHADE	\$90.31		\$90.31	
158106	20-Oct-22	S3086	SHERWIN-WILLIAMS	\$34.49		\$34.49	
158107	20-Oct-22	S5181	COREY SMITH	\$73.56		\$73.56	
158108	20-Oct-22	S6235	SOUTHERN BUS & MOBILITY INC	\$3,195.31		\$3,195.31	
158109	20-Oct-22	S6962	SPX CORPORATION	\$694.37		\$694.37	
158110	20-Oct-22	T0474	TAYLOR & BLACKBURN	\$1,628.55		\$1,628.55	
158111	20-Oct-22	T2064	TEE JAY CENTRAL, INC.	\$266.25		\$266.25	

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CheckNo	ReferenceDate	Reference	Payee	CheckAmount	C-CARTS Portion	MTD Portion	Voided
158112	20-Oct-22	T7335	TRAPEZE SOFTWARE GROUP, INC.	\$51,038.00		\$51,038.00	
158113	20-Oct-22	T7510	TROPHYTIME	\$19.30		\$19.30	
158114	20-Oct-22	T7585	TRUGREEN CHEMLAWN	\$287.44		\$287.44	
158115	20-Oct-22	U5180	UNITED PARCEL SERVICE	\$185.70		\$185.70	
158116	20-Oct-22	U7355	U-C SANITARY DISTRICT	\$2,390.41		\$2,390.41	
158117	20-Oct-22	U7357	CITY OF URBANA	\$709.00		\$709.00	
158118	20-Oct-22	W8564	WURTH USA MIDWEST, INC.	\$2,885.44		\$2,885.44	
158119	27-Oct-22	A1930	MARISSA ADAMS	\$80.00		\$80.00	
158120	27-Oct-22	A1934	ADVANCE AUTO PARTS	\$15.74		\$15.74	
158121	27-Oct-22	A5002	AMAZON	\$7,768.88		\$7,768.88	
158122	27-Oct-22	A5085	AMERENIP	\$437.87		\$437.87	
158123	27-Oct-22	A8007	AT & T	\$589.23		\$589.23	
158124	27-Oct-22	A8011	AT&T MOBILITY-CC	\$897.22		\$897.22	
158125	27-Oct-22	A8012	AT&T	\$157.05		\$157.05	
158126	27-Oct-22	B3555	BIRKEY'S FARM STORE, INC.	\$902.96		\$902.96	
158127	27-Oct-22	B43301	RICHARD W. BARNES	\$100.00		\$100.00	
158128	27-Oct-22	C0340	CARDINAL INFRASTRUCTURE, LLC	\$6,500.00		\$6,500.00	
158129	27-Oct-22	C0350	CARDMEMBER SERVICE	\$16,806.02		\$16,806.02	
158130	27-Oct-22	C2156	CENTER FOR TRANSPORTATION & THE ENVIRONM	\$23,611.05		VOID	
158131	27-Oct-22	C2165	CENTRAL ILLINOIS TRUCKS	\$311.26		\$311.26	
158132	27-Oct-22	C3074	MARGARET A. CHAPLAN	\$300.00		\$300.00	
158133	27-Oct-22	C3100	CHELSEA FINANCIAL GROUP, LTD.	\$9,075.65		\$9,075.65	
158134	27-Oct-22	C3105	CHEMICAL MAINTENANCE INC.	\$710.64		\$710.64	
158135	27-Oct-22	C4588	CLEAN UNIFORM COMPANY	\$591.29		\$591.29	
158136	27-Oct-22	C6259	COMMERCE BANK CREDIT CARD	\$5,930.60		\$5,930.60	
158137	27-Oct-22	C6263	COMCAST CABLE	\$620.14		\$620.14	
158138	27-Oct-22	D2012	DEAN'S GRAPHICS	\$72.00		\$72.00	
158139	27-Oct-22	D2110	DE LAGE LANDEN FINANCIAL SERVICES, INC.	\$1,878.89		\$1,878.89	
158140	27-Oct-22	D2123	TOMAS DELGADO	\$150.00		\$150.00	
158141	27-Oct-22	D3404	BRADLEY S. DIEL	\$250.00		\$250.00	
158142	27-Oct-22	D3630	DIXON GRAPHICS	\$338.00		\$338.00	
158143	27-Oct-22	D8520	DUNCAN SUPPLY CO. INC.	\$204.13		\$204.13	
158144	27-Oct-22	D8587	DUST & SON OF CHAMPAIGN COUNTY, INC	\$1,591.22		\$1,591.22	
158145	27-Oct-22	F3800	PHILIP FISCELLA	\$200.00		\$200.00	
158146	27-Oct-22	F6367	FORD CITY	\$671.63		\$671.63	
158147	27-Oct-22	F6376	KRISTEN FOSS	\$150.25		\$150.25	
158148	27-Oct-22	G6300	GOODYEAR TIRE & RUBBER CO	\$13,869.22		\$13,869.22	
158149	27-Oct-22	G7329	EARL J GRAY	\$77.24		\$77.24	
158150	27-Oct-22	H0300	BRUCE M. HANNON	\$150.00		\$150.00	
158151	27-Oct-22	H1000	HDR ENGINEERING, INC.	\$23,666.62		\$23,666.62	
158152	27-Oct-22	H9575	HY-SAFE TECHNOLOGY	\$58,351.00		\$58,351.00	
158153	27-Oct-22	I4745	ILLINI CONTRACTORS SUPPLY	\$1,046.10		\$1,046.10	
158154	27-Oct-22	I4790	ILLINOIS-AMERICAN WATER	\$2,616.34		\$2,616.34	
158155	27-Oct-22	I4840	ILLINOIS OIL MARKETING	\$989.00		\$989.00	
158156	27-Oct-22	I7667	ISAKSEN GLERUM WACHTER, LLC	\$11,107.28		\$11,107.28	
158157	27-Oct-22	J0375	JASPER ENGINES & TRANSMISSIONS	\$4,438.00		\$4,438.00	
158158	27-Oct-22	J3680	JEFFREY A. WILSEY	\$1,654.96		\$1,654.96	
158159	27-Oct-22	L0345	CHRISTOPHER LAROE	\$71.12		\$71.12	
158160	27-Oct-22	M0059	MACK'S AUTO RECYCLING	\$100.00		\$100.00	
158161	27-Oct-22	M0375	MARTIN HOOD	\$18,500.00		\$18,500.00	
158162	27-Oct-22	M0452	MATTEX SERVICE CO., INC.	\$9,838.01		\$9,838.01	
158163	27-Oct-22	M1246	MCMaster-CARR SUPPLY CO.	\$92.82		\$92.82	
158164	27-Oct-22	M1269	MCS OFFICE TECHNOLOGIES	\$6,820.00		\$6,820.00	
158165	27-Oct-22	M2179	MENARD'S	\$162.20		\$162.20	
158166	27-Oct-22	M2320	DOUGLAS MEYERS	\$101.21		\$101.21	
158167	27-Oct-22	M3015	MH EQUIPMENT COMPANY	\$1,879.00		\$1,879.00	
158168	27-Oct-22	M3505	MINDFIRE COMMUNICATIONS, INC.	\$363.16		\$363.16	
158169	27-Oct-22	M6162	MOHAWK MFG. & SUPPLY CO.	\$288.00		\$288.00	
158170	27-Oct-22	N2292	THE AFTERMARKET PARTS COMPANY, LLC.	\$29,777.56		\$29,777.56	
158171	27-Oct-22	N6450	ALAN NUDO	\$150.00		\$150.00	
158172	27-Oct-22	O7370	O'REILLY AUTOMOTIVE, INC.	\$670.34		\$670.34	
158173	27-Oct-22	O7465	DON ORR	\$432.50		\$432.50	
158174	27-Oct-22	P8690	PYROLYX TIRE RECYCLING, LLC	\$584.00		\$584.00	

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CheckNo	ReferenceDate	Reference	Payee	CheckAmount	C-CARTS Portion	MTD Portion	Voided
158175	27-Oct-22	R6120	ROGARDS OFFICE PRODUCTS	\$41.27		\$41.27	
158176	27-Oct-22	S0078	SAFETY-KLEEN CORP.	\$1,475.03		\$1,475.03	
158177	27-Oct-22	S0270	DAN SAPHIERE	\$22.81		\$22.81	
158178	27-Oct-22	S2190	BRENDAN SENNETT	\$502.40		\$502.40	
158179	27-Oct-22	S3115	DANIEL J. HARTMAN	\$120.00		\$120.00	
158180	27-Oct-22	S6235	SOUTHERN BUS & MOBILITY INC	\$167.64		\$167.64	
158181	27-Oct-22	U5180	UNITED PARCEL SERVICE	\$32.85		\$32.85	
158182	27-Oct-22	U7385	URBANA TRUE TIRES	\$2,327.90		\$2,327.90	
158183	27-Oct-22	V2233	VERIZON WIRELESS	\$360.10	\$360.10	\$0.00	
158184	27-Oct-22	W2023	WEBSTER & ASSOCIATES, INC.	\$6,000.00		\$6,000.00	
158185	27-Oct-22	W7420	DEMARCO WRIGHT	\$218.30		\$218.30	
158186	27-Oct-22	W8564	WURTH USA MIDWEST, INC.	\$22.06		\$22.06	
10012022	01-Oct-22	S8020	STANDARD INSURANCE COMPANY	\$2,465.68	\$19.60	\$2,446.08	
10032022	03-Oct-22	C3560	CIRCLE K FLEET	\$28,079.25	\$9,186.80	\$18,892.45	
10042022	03-Oct-22	A2487	AFLAC	\$5,375.54		\$5,375.54	
10082022	08-Oct-22	I0025	VANTAGEPOINT TRANSFER AGENTS - 301281	\$10,537.59		\$10,537.59	
10092022	08-Oct-22	I0025	VANTAGEPOINT TRANSFER AGENTS - 301281	\$21,620.90		\$21,620.90	
10122022	12-Oct-22	I4830	I.M.R.F.	\$380,745.52		\$380,745.52	
10122210	12-Oct-22	I4830	I.M.R.F.	\$6,605.48	\$4,621.19	\$1,984.29	
10132022	12-Oct-22	I0025	VANTAGEPOINT TRANSFER AGENTS - 301281	\$7,536.21		\$7,536.21	
10142022	14-Oct-22	U7359	URBANA MUNICIPAL EMPL. CREDIT UNION	\$42,681.93		\$42,681.93	
10152022	15-Oct-22	D3100	DIVVY	\$6,677.14		\$6,677.14	
10162022	14-Oct-22	I0025	VANTAGEPOINT TRANSFER AGENTS - 301281	\$19,559.04		\$19,559.04	
10172022	14-Oct-22	I0025	VANTAGEPOINT TRANSFER AGENTS - 301281	\$10,710.30		\$10,710.30	
10182022	14-Oct-22	I0025	VANTAGEPOINT TRANSFER AGENTS - 301281	\$7,593.90		\$7,593.90	
10272022	28-Oct-22	U7359	URBANA MUNICIPAL EMPL. CREDIT UNION	\$42,753.13		\$42,753.13	
10282022	28-Oct-22	I0025	VANTAGEPOINT TRANSFER AGENTS - 301281	\$10,684.19		\$10,684.19	
10292022	28-Oct-22	I0025	VANTAGEPOINT TRANSFER AGENTS - 301281	\$19,541.54		\$19,541.54	
10302022	28-Oct-22	I0025	VANTAGEPOINT TRANSFER AGENTS - 301281	\$7,593.90		\$7,593.90	
				\$1,954,792.10	\$20,738.17	\$1,934,053.93	

**Champaign-Urbana Mass Transit District  
Accounts Payable ACH Disbursement List  
BUSEY BANK OPERATING ACCOUNT**

**From Date: 10/01/2022    Thru Date: 10/31/2022**

CheckNo	ReferenceDate	Reference	Payee	Check Amount	C-CARTS Portion	MTD Portion
ACH	07-Oct-22	244152-E3390	EIGHT 22, LLC	\$6,000.00		\$6,000.00
ACH	07-Oct-22	244152-K2190	KEN'S OIL SERVICE, INC.	\$53,808.60		\$53,808.60
ACH	07-Oct-22	244152-S2046	SECURITAS ELECTRONIC SECURITY INC.	\$228.39		\$228.39
ACH	07-Oct-22	244152-T2225	TERMINAL SUPPLY COMPANY	\$444.08		\$444.08
ACH	06-Oct-22	244190-B8560	BURWOOD GROUP, INC.	\$69,379.95		\$69,379.95
ACH	13-Oct-22	244459-C0275	CCMSI	\$35.00		\$35.00
ACH	13-Oct-22	244459-C2231	CERTIFIED LABORATORIES	\$960.80		\$960.80
ACH	13-Oct-22	244459-J6136	JOHNSON CONTROLS FIRE PROTECTION LP	\$420.00		\$420.00
ACH	13-Oct-22	244459-K2190	KEN'S OIL SERVICE, INC.	\$64,145.94		\$64,145.94
ACH	13-Oct-22	244459-K3575	KIRK'S AUTOMOTIVE	\$5,450.00		\$5,450.00
ACH	13-Oct-22	244459-P2210	PERKINS SCHOOL FOR THE BLIND	\$187.50		\$187.50
ACH	13-Oct-22	244459-S8190	STRONG TOWNS	\$1,500.00		\$1,500.00
ACH	24-Oct-22	244755-A5116	AMERICAN SEATING	\$240.65		\$240.65
ACH	24-Oct-22	244755-B2180	BENEFIT PLANNING CONSULTANTS, INC.	\$663.00		\$663.00
ACH	24-Oct-22	244755-K2190	KEN'S OIL SERVICE, INC.	\$39,627.84		\$39,627.84
ACH	24-Oct-22	244755-K3575	KIRK'S AUTOMOTIVE	\$3,477.00		\$3,477.00
ACH	27-Oct-22	245002-C0275	CCMSI	\$7,500.00		\$7,500.00
ACH	27-Oct-22	245002-G7375	GRIMCO, INC	\$1,221.85		\$1,221.85
ACH	27-Oct-22	245002-J6136	JOHNSON CONTROLS FIRE PROTECTION LP	\$660.00		\$660.00
ACH	27-Oct-22	245002-K2190	KEN'S OIL SERVICE, INC.	\$36,169.29		\$36,169.29
ACH	27-Oct-22	245002-L9665	LYONS ELECTRIC COMPANY, INC	\$294,772.49		\$294,772.49
ACH	27-Oct-22	245002-T2225	TERMINAL SUPPLY COMPANY	\$216.50		\$216.50
				\$587,108.88	\$0.00	\$587,108.88

**Champaign Urbana Mass Transit District**  
**Accounts Payable Check Disbursement List**

Checking Account #: 011-8189-0

FLEX CHECKING-BUSEY BANK

From Date: 10/31/2022

Thru Date: 10/31/2022

Check #	Check Date	Ref #	Name	Amount	Voided
10312022	10/31/2022	F4640	FLEX-EMPLOYEE REIMB.	\$26,165.65	
Total:				\$26,165.65	

**Champaign Urbana Mass Transit District**  
**Accounts Payable Check Disbursement List**

Checking Account #: 5730300

PROSPECT BANK - MUNIWISE FUNDS

From Date: 10/6/2022

Thru Date: 10/6/2022

Check #	Check Date	Ref #	Name	Amount	Voided
2783	10/6/2022	A4804	ALPHA CONTROLS & SERVICES LLC	\$10,873.00	
Total:				\$10,873.00	

## MTD - Bank & Investment Balances

Financial Institution	Bank Bal @ 10/31/22	Interest Rate	Maturity
<b>Busey Bank</b>			
Payroll	\$5,000.00	-	-
Illinois Terminal - Square POS	\$9,797.15	-	-
Operating	\$350,000.00	-	-
C-CARTS	\$68,660.31	-	-
Sec 125 Flexible Spending Plan	\$61,412.86	-	-
ATM	\$31,804.82	-	-
Money Market	\$20,527,686.90	0.31%	-
<b>First Mid Bank</b>	\$12,915,741.12	1.50%	-
<b>Prospect Bank</b>			-
MuniWise	\$2,481,284.32	0.50%	
MuniWise Flex	\$5,003,428.43	3.18%	
<b>Morgan Stanley</b>			
Cash	\$1,985,847.59	0.15%	-
<b>Total</b>	<b>\$43,440,663.50</b>		



ORDINANCE NO. 2022-5  
GENERAL TAX LEVY ORDINANCE OF THE  
CHAMPAIGN-URBANA MASS TRANSIT DISTRICT  
CHAMPAIGN COUNTY, ILLINOIS  
FOR THE FISCAL YEAR BEGINNING JULY 1, 2022  
AND ENDING JUNE 30, 2023

WHEREAS, the current fiscal year of the Champaign-Urbana Mass Transit District Champaign County, Illinois, begins July 1, 2022 and ends on June 30, 2023, and the said District is required by law to adopt its Budget and Appropriation Ordinance prior to or in the first quarter of such fiscal year, and the Board of Trustees has adopted such Ordinance after due notice and public hearing as required by law on June 30, 2022, and

WHEREAS, said Budget and Appropriation Ordinance appropriated a total amount of money in the amount of Fifty-Three Million Four Hundred Twenty-Eight Thousand and No/100 Dollars (\$53,428,000), all as detailed and set forth therein.

NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF TRUSTEES OF THE CHAMPAIGN-URBANA MASS TRANSIT DISTRICT, Champaign County, Illinois, that:

Section 1. For the following corporate purposes of the Champaign-Urbana Mass Transit District and in the stated amounts, to wit:

	AMOUNT APPROPRIATED	AMOUNT LEVIED
General Fund	\$46,731,000	\$8,241,151
Illinois Municipal Retirement Fund	3,185,000	1,600,000
Audit	36,000	23,075
Liability Insurance	1,200,000	700,000
Social Security	1,855,000	1,020,000
Unemployment Insurance	66,000	40,000
Workers Compensation	355,000	100,000
Total	<u>\$53,428,000</u>	<u>\$11,724,226</u>

There is hereby levied in the aggregate, a general tax upon all taxable property within the Champaign-Urbana Mass Transit District, Champaign County, Illinois, as the same is assessed and equalized for State and County purposes for the year 2022 to be levied and assessed in the year 2023, the aggregate sum of Eleven Million Seven Hundred Twenty-Four Thousand Two Hundred Twenty-Six and No/100 Dollars (\$11,724,226), comprised as follows:

a. For general corporate purposes, the sum of Eight Million Two Hundred Forty-One Thousand One Hundred Fifty-One and No/100 Dollars (\$8,241,151).

b. There is further levied, in addition to all other taxes and exclusive of and in addition to the amount of taxes levied for general purposes, the amount of One Million Six Hundred Thousand and No/100 Dollars (\$1,600,000) for the purpose of providing monies for the Champaign-Urbana Mass Transit District's contributions required for Illinois Municipal Retirement Fund contributions.

- c. There is further levied, in addition to all other taxes levied for general purposes, the amount of One Million Twenty Thousand and No/100 Dollars (\$1,020,000) for the purpose of providing monies for the Champaign-Urbana Mass Transit District's contribution required for Social Security System contributions.
- d. There is further levied, in addition to all other taxes levied for general purposes, the amount of One Hundred Thousand and No/100 Dollars (\$100,000) for protection of the Champaign- Urbana Mass Transit District under the Worker's Compensation Act.
- e. There is further levied, in addition to all other taxes levied for general purposes, the amount of Seven Hundred Thousand and No/100 Dollars (\$700,000) for liability insurance, claims service and claims.
- f. There is further levied, in addition to all other taxes levied for general purposes, the amount of Forty Thousand and No/100 Dollars (\$40,000) for unemployment insurance.
- g. There is further levied, in addition to all other taxes levied for general purposes, the amount of Twenty-Three Thousand Seventy-Five and No/100 Dollars (\$23,075) for auditing.

Section 2. This Ordinance shall be effective upon its passage.

Section 3. The Secretary of the Board of Trustees is directed to file a certified copy of this ordinance with the County Clerk of Champaign County, Illinois.

This Ordinance is hereby passed by the affirmative vote, the "Ayes" and "Nays" being called, of a majority of the members of the Board of Trustees of the Champaign-Urbana Mass Transit District, at a duly called regular meeting of the said Board of Trustees on the 7th day of December, 2022.

CHAMPAIGN-URBANA MASS TRANSIT DISTRICT

BY: \_\_\_\_\_  
Chair, Board of Trustees

APPROVED by the Board of Trustees of the Champaign-Urbana Mass Transit District this 7th day of December, 2022.

CHAMPAIGN-URBANA MASS TRANSIT DISTRICT

BY: \_\_\_\_\_  
Secretary



To: Board of Trustees  
From: Karl Gnadt, Managing Director  
Date: December 7, 2022  
Subject: Ratification of the Approval Action for the 2022-2023 Urbana School District #116 Contract from the 10/26/2022 Board Meeting

---

- A. Introduction – The purpose of this action item is to ratify the unanimous vote at the 10/26/2022 Board meeting to approve the transportation agreement between MTD and the Urbana School District #116 for the 2022-2023 school year.
- B. Recommended Action – Staff recommends that the Board of Trustees ratify the approval of the 2022-2023 Urbana School District #116 Contract from the 10/26/2022 Board Meeting.
- C. Summary – At the October 26, 2022 Board meeting, Mr. Gnadt discussed the Urbana School District #116 transportation contract. The Chair asked for a voice vote on this action item. Upon vote, the agreement was unanimously approved. Inadvertently, the Trustees did not make a formal motion or second. This ratification will confirm the approval of the transportation agreement between MTD and the Urbana School District for the 2022-2023 school year.



To: Karl Gnadt, Managing Director/CEO  
From: Ashlee McLaughlin, External Affairs Director  
Date: December 7, 2022  
Subject: Approval of Bus Procurement Purchase Order

---

- A. Introduction:** The District will utilize Federal and local funding to purchase four 60-foot hybrid buses to replace four 14-year-old 60-foot hybrid buses.
- B. Recommended Action:** Staff recommend authorization of the Managing Director to issue a purchase order to New Flyer in the amount of \$5,077,032 for four 60-foot diesel electric hybrid buses.
- C. Prior Trustee Action:** On January 27, 2021, the Board of Trustees provided approval to enter into a five-year bus procurement contract with New Flyer of America.
- D. Summary:** MTD's current contract with New Flyer gives the District the ability to purchase 40-foot and 60-foot diesel-electric hybrid buses through March 2026. Staff requests approval to exercise options on the contract by issuing a purchase order to New Flyer for four 60-foot diesel electric hybrid buses. The 60-foot buses are \$1,269,258 each, totaling \$5,077,032 for four buses.
- E. Background:** The four existing 60-foot buses to be replaced with this procurement were purchased in 2009 and will be 14 years old at the time of replacement. With the Board's commitment to only purchasing low- and zero-emission buses, the District has not purchased a standard diesel bus since 2003. Cummins is the only supplier of the 60-foot hybrid certified engine, which they will no longer produce after 2023. Thus, the District's only options to replace the 2009 60-foot buses are to purchase hybrids now or hydrogen in the future. With the next order of 10 40-foot hydrogen buses, we will have reached the capacity of our onsite hydrogen production station. This makes hybrid the right choice for this procurement. The table below shows the purchases to date on the current contract.

	Vehicles Purchased			Vehicles Replaced		
	Year	# of buses	Type	Age (years)	# of buses	Type
1)	2021	3	60-ft hybrid	20	3	60ft diesel
2)	2022	4	60-ft hybrid	21	4	60ft diesel
3)	2022	4	40-ft hybrid	Expansion		
4)	2023	4	60-ft hybrid	14	4	60ft hybrid

**F. Alternatives – advantages/disadvantages**

1. Authorizing the Managing Director to issue a purchase order allows the District to replace buses that are beyond their useful life. This is the last opportunity to obtain 60-foot articulated hybrid buses due to discontinuation of the Cummins hybrid engine.
2. Not authorizing the Managing Director to issue a purchase order would result in the inability to purchase 60-foot articulated hybrid buses from New Flyer.

**G. Budget & Staffing Impacts:** This project is included in the FY 2023 budget. The District will utilize 80% (~\$4,061,626) Federal 5307 funding and 20% (~\$1,015,406) local funding for the purchase of four 60-foot diesel-electric hybrid buses.



**Champaign-Urbana  
Mass Transit District**

**Option Proposal for four (4)  
60' Heavy Duty Diesel Hybrid Electric  
Buses**

## **Proposal Table of Contents**

**Tab 1, Letter of Transmittal**

**Tab 2, Price Summary**

**Tab 3, Price Change Detail**

**Tab 4, Warranty Proposal**

**Tab 5, Publications Proposal**

**Tab 6, Training Proposal**

**Tab 7, Tools and Diagnostics Proposal**

**Tab 8, Delivery Schedule**

**Tab 9, Technical Summary**

## **Tab 1, Letter of Transmittal**

### **Solicitation Requirements:**

N/A

### **New Flyer Response:**

Please see attached our **Letter of Transmittal** to Champaign-Urbana Mass Transit District.

Please indicate your acceptance by providing a Purchase Order to New Flyer, attention:

Stephanie Laubenstein, Director, Sales & Business Development

204.391.1788

[Stephanie\\_Laubenstein@newflyer.com](mailto:Stephanie_Laubenstein@newflyer.com)





November 9, 2022

Jane Sullivan  
Grants & Governmental Affairs Director  
Champaign-Urbana Mass Transit District (MTD)  
1101 E. University Ave.  
Urbana, Illinois 61802

Subject: **Quotation for Four (4) 60' Diesel Hybrid Transit Buses.**

Dear Jane,

New Flyer of America is pleased to submit an option price quotation for the production and delivery of four (4) 60'-foot heavy-duty diesel-hybrid transit buses based on New Flyer's contract with Champaign-Urbana Mass Transit District (MTD).

The proposed buses are technically configured to match SR-2729.

- The price for up to four (4) XDE60 buses is **\$1,269,258.06** and includes Warranty, Publications,

We would like to highlight key elements of our proposal:

**Warranty:** New Flyer exceeds the industry standard warranties in many areas such as our 5 year / 300,000 miles axle warranty (standard warranty is 2 years) and our 3 years / 150,000 miles multiplex warranty (standard competitor warranty is 1 year / 50,000 miles). Please see our Warranty Proposal for more information. Please note that warranty is included in the bus price.

**Publications:** The New Flyer Publications team combines extensive, hands-on technical experience with exceptional writing, illustrating, and publishing skills to create the industry's benchmark in maintenance manuals. They supply accurate information in a timely manner, assisting the customer in the performance of proper bus maintenance, which adds to the overall reliability and lifetime value of each New Flyer bus on the road. Please see our Publications Proposal for more information. Please note that publications are included in the bus price.

**Training:** New Flyer Training is an organization within the New Flyer Customer Services group, a division of New Flyer Industries. As a part of the leading manufacturer of heavy-duty transit buses in the United States and Canada, we have access to top design, engineering, propulsion technology, and electrical systems professionals. This allows us to offer the service and expertise to maximize the lifetime value of your fleet. Please see our Training Proposal for more information. Please note that optional training is not included in the bus price.

**Tooling and Diagnostics:** Please see our Tools and Diagnostics Proposal for more information. Please note that tooling and diagnostics are not included in the bus price.

**Delivery Proposal:** New Flyer is proposing a complete delivery by Q4 of 2023 based on a receipt of a Notice to Proceed within 30 days of this submission. Please note that delivery is included in the bus price.



**Delivery Proposal:** New Flyer is proposing a complete delivery by Q4 of 2023.

**Payment Terms:** Payment terms will follow the current terms in our Contract with Champaign-Urbana Mass Transit District (MTD).

- Payment terms are Net 30 days from delivery and acceptance.

New Flyer of America values the long-term strategic partnership it has shared with Champaign-Urbana Mass Transit District, and we are pleased to further develop our business relationship. This latest project will allow us to deliver to you once again, some of the most advanced vehicles available in North America. We thank you for your continued interest in New Flyer products and look forward to working with you again in the near future.

The quotation is open for acceptance for one hundred and twenty (120) days. Please indicate your acceptance by providing a Purchase Order, sent by email to [Stephanie Laubenstein@newflyer.com](mailto:Stephanie.Laubenstein@newflyer.com) – Director of Sales and Business Development. If you have questions related to this price proposal please contact Barry Karlenzig at [Barry Karlenzig@newflyer.com](mailto:Barry.Karlenzig@newflyer.com).

Sincerely,

**NEW FLYER OF AMERICA INC.**

Barry Karlenzig  
Technical Sales Manager  
W 204.594.6875  
[Barry.Karlenzig@newflyer.com](mailto:Barry.Karlenzig@newflyer.com)

CC: Adrian Graca – Business Segment Director, Technical Sales  
Jeff Butler – Regional Sales Manager  
Palmer Anderson – Technical Sales Analyst

## **Tab 2, Price Summary**

### **Solicitation Requirements:**

N/A

### **New Flyer Response:**

Please see attached New Flyer's **Price Summary** for four (4) – 60' Heavy Duty Diesel Hybrid Electric buses for Champaign-Urbana Mass Transit District.



## Price Change Summary

<b>Property:</b>	Champaign Urbana MTD
<b>Option Origin:</b>	2021-114
<b>Sales Release No.:</b>	SR2816
<b>Quantity:</b>	4
<b>Type:</b>	XDE60
<b>Price Change No.:</b>	1
<b>Revision:</b>	L
<b>Date:</b>	03-Nov-22

	Each	Total
<b>Original Contract Price Base Coach</b>	\$ 1,019,104.00	\$ 4,076,416.00
Base Bus Price Change Total	\$ 250,154.06	\$ 1,000,616.24
Contract Spares Base Bus Price Change Total	\$ -	\$ -
<b>Revised Price Base Bus (including ADA &amp; delivery)</b>	<b>\$ 1,269,258.06</b>	<b>\$ 5,077,032.24</b>
<b>Original Contract Price for Contract Spares (If priced separately)</b>		\$ -
Contract Spares Changes (Priced Separately) Total	\$ -	\$ -
<b>Revised Contract Spares Priced Separately</b>		<b>\$ -</b>
<b>Original Contract Price for Miscellaneous (If priced separately)</b>		\$ -
Miscellaneous Price Change Total	\$ -	\$ -
<b>Revised Miscellaneous Priced Separately</b>		<b>\$ -</b>
<b>Original Total Contract Price</b>		\$ 4,076,416.00
Total Contract Price Changes		\$ 1,000,616.24
<b>Revised Total Contract Price</b>		<b>\$ 5,077,032.24</b>

### Authorized Signatures:

New Flyer Authorization:

Signature: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Date: \_\_\_\_\_

Property Authorization:

Signature: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Date: \_\_\_\_\_

## **Tab 3, Price Change Detail**

### **Solicitation Requirements:**

N/A

### **New Flyer Response:**

Please see attached New Flyer's [Price Detail Sheet](#).

This sheet includes all price changes that are required to go from the base bus to the proposed configuration, as requested.



Price Change Detail

Property:	Champaign Urbana MTD
Option Origin:	2021-114
Sales Release No.:	SR2816
Quantity:	4
Bus Type:	XDE60

Price per coach						
Price Change Type	Reference No.	Option No.	Option Group	SRCR No.	Description	Total
Base Bus Price Change	1	PPI	Producer Price Index		Add PPI (from Base Bid contract 20-144 XDE60 to latest PPI mth Sept 2022)	224,490.27
	2	Delivery	Deliverable		Add updated Delivery Charge	2,251.55
	3				SRCRs from SR2729 (less 3% surcharge)	23,412.24
Base Bus Price Change Total						250,154.05
Grand Total						250,154.05
						1,000,616.22
						1,000,616.22

## **Tab 4, Warranty Proposal**

### **Solicitation Requirements:**

N/A

### **New Flyer Response:**

Please see the attached New Flyer [Warranty Proposal](#).

Please note that Warranty Pricing is included as part of the Bus Price.



NEW FLYER OF AMERICA

CONTRACT DELIVERABLES LIST		Warranty
CUSTOMER NAME	Champaign	
BID NUMBER	2022-114	
BUS MODEL	XDE60	
QUANTITY	4	

MAJOR COMPONENT DESCRIPTION	BASE AND EXTENDED WARRANTY			COMMENTS
	PROVIDER	YEARS	MILEAGE	
Base Bus Warranty	New Flyer of America	1	50,000	Excluding scheduled maintenance items, acts of nature, or normal consumables
Basic Bus Structure	New Flyer of America	3	150,000	Body, and body structure shall consist of the components that are mechanically fastened or adhesively bonded or glued as part of the structure.
Chassis Structure (Integrity)	New Flyer of America	12	500,000	Consists of all components that are welded together to form the main frame (skeleton) and body construction. The structural integrity guarantee covers against a significant loss of structural integrity of the assembly or its functional performance due to non corrosion related failures.
Chassis Structure (Corrosion)	New Flyer of America	12	500,000	Consists of all components that are welded together to form the main frame (skeleton) and body construction. The corrosion guarantee covers against a significant loss of structural integrity of the assembly or its functional performance, resulting from a pertinent loss of cross-section due to corrosion caused by normal environmental elements but excludes corrosion caused by aggressive road de-icers such as Magnesium Chloride or equivalents, unless New Flyer approved preventative measures are taken. The warranty shall be void if the Agency fails to conduct corrosion inspections and scheduled preventive maintenance procedures as specified in the Contractor's maintenance manuals. The Agency shall maintain documentation, auditable by the Contractor, verifying service activities in conformance with the Contractor's maintenance manuals.
Engine	Cummins	2	Unlimited	All repairs/warranty claims need to be handled through the local authorized repair facility. When the 3 year extended warranty is purchased (5 years total) the following applies: Two Year Base (Full Coverage), years 3,4 & 5 covers components only as per manufacturer's warranty document.
Transmission	BAE	2	Unlimited	All repairs/warranty claims need to be handled through the local authorized repair facility. When the 3 year extended warranty is purchased (5 years total) the following applies: Two Year Base (Full Coverage), years 3,4 & 5 covers components only as per manufacturer's warranty document.
Axle (Front and Rear)	MAN	5	300,000	Excluding maintenance items & items that are not covered by the OEM's warranty. All friction materials are excluded from this limited warranty. Wear and third party items supplied with the axle (e.g. slack adjuster, seals and bearings, shocks, air bellows, radius rods, brake chambers) are not included in the 5 year warranty. Please see manufacturer's warranty document.
A/C	Thermo King	2	Unlimited	Some limitations and exclusions may apply - Please see manufacturer's warranty document. All repairs/warranty claims need to be handled through the local authorized repair facility.
Brake System	New Flyer of America	1	50,000	Friction Material Excluded
Destination Signs	Twin Vision	6	Unlimited	Some limitations and exclusions may apply - Please see manufacturer's warranty document. All repairs/warranty claims need to be handled through the local authorized repair facility.
Door Systems	Vapor	3	150,000	Excluding maintenance items & items that are not covered by the OEM's warranty
Air Compressor	Powerex	2	Unlimited	
Wheelchair Ramp	New Flyer of America	2	100,000	
Electrical System	Parker	3	150,000	Excluding maintenance items & items that are not covered by the OEM's warranty
LED Headlights	J.W.Speaker	6	Unlimited	Warranty covers parts only after first year
Paint	Axalta	5	Unlimited	





NEW FLYER OF AMERICA

MAJOR COMPONENT DESCRIPTION	BASE AND EXTENDED WARRANTY			COMMENTS
	PROVIDER	YEARS	MILEAGE	
Air Dryer	Bendix	1	100,000	
Articulated Joint	ATG	1	Unlimited	
Center Axle	ZF	5	300,000	Excluding maintenance items & items that are not covered by the OEM's warranty. All friction materials are excluded from this limited warranty. Wear and third party items supplied with the axle (e.g. slack adjuster, seals and bearings, shocks, air bellows, radius rods, brake chambers) are not included in the 5 year warranty. Please see manufacturer's warranty document.
Emission Control System	Cummins	5	100,000	Some limitations and exclusions may apply - Please see manufacturer's warranty document. All repairs/warranty claims need to be handled through the local authorized repair facility for Cummins components. Warranty includes Particulate Filter, DEF Components and Aftertreatment devices which should be submitted direct to New Flyer.
Towing	New Flyer of America	1	50,000	
Handling (15%)	New Flyer of America	1	50,000	
Starter	New Flyer of America	2	100,000	
Body Leaks	New Flyer of America	3	150,000	
Tires	New Flyer of America	2	24,000	New Flyer Industries Limited warrants the tires installed as original equipment on this vehicle only against defects in materials and workmanship which cause the vehicle to fail to comply with applicable U.S. and Canadian greenhouse gas emission limits ("Warrantable Emissions Failures"). This vehicle emissions limited express warranty relating to original equipment tires is valid for two (2) years or 24,000 miles whichever occurs first.
Greenhouse Gas Emissions-Related Warranty (Idle Reduction Systems)	New Flyer of America	5	100,000	Aluminum Wheels, Emissions-related warranty on Neutral-Idle or Start/Stop idle reduction systems, as defined by the U.S. EPA (not including Allison Standard FuelSense 2.0, Restricted Neutral-at-Stop (NAS), and "Auto-Neutral" functions)

## **Tab 5, Publications Proposal**

### **Solicitation Requirements:**

N/A

### **New Flyer Response:**

Please see the attached New Flyer **Publications Proposal**.

Please note that Publication Pricing is included in the Bus Price.

CONTRACT DELIVERABLES SHEET		PUBLICATIONS rev a. November 2, 2022		
PUBLICATIONS CUSTOMER NAME		Champaign-Urbana Mass Transit District		
BID NUMBER		2022-114		
BUS MODEL		XDE60		
QUANTITY		4		
New Flyer Standard Bus Publications				This is for one XDE60 Option Build of 4 Buses Only
DESCRIPTION	QTY	CUSTOMER DELIVERY	UPDATES (years)	COMMENTS
Emergency Responder Guide (8.5x11 laminated paper)	4	With First Bus Delivery	6	Emergency information to be on board each bus
Operator's Guide (8.5x11 3-hole)	4	With First Bus Delivery	6	One per bus
Parts Manual	2	30 Business Days After Last Bus Delivery	12	
Service Manual	2	30 Business Days After Last Bus Delivery	6	
Bus System Drawings Manual (11x17 3-hole regular paper includes air, electr, hydraulic, cooling, PLC HVAC layouts and schematics)	2	30 Business Days After Last Bus Delivery	6	
TIV USB	2	30 Business Days After Last Bus Delivery	6	USB Includes only NF Manuals plus OEM manuals below identified with ""
OEM Supplier Publications				This is for one XDE60 Option Build of 4 Buses Only
DESCRIPTION	QTY	CUSTOMER DELIVERY	UPDATES (years)	COMMENTS
Cummins L9 (CM2450) Engine OEM Vendor Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		Engine Parts info available from Cummins Parts Website only
Fault Code Troubleshooting Manual (Vol 1 - 6)	2	"	N/A	
Service Manual (Vol 1 - 2)	2	"	N/A	
Operation & Maintenance Manual	2	"	N/A	
Owners Manual	2	"	N/A	
BAE HDS200 Hybridrive OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		Includes all service, parts, troubleshooting information
HDS300 System Manual	2	"	N/A	*
Thermo King HVAC OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
Unit Operation & Maintenance Manual	2	"	N/A	*
Unit Operation & Parts Manual	2	"	N/A	*
EMP Cooling System OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
MH5 Cooling System Service Manual	2	"	N/A	*
MH5 Cooling System Troubleshooting Manual	2	"	N/A	*
WABCO ABS System OEM Manual (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
ABS Maintenance Manual	2	"	N/A	*
Destination Sign OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
Twin Vision Operation & Maintenance Manual	2	"	N/A	*
Valeo Aux Coolant Heater System OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
Thermo 230 Workshop Manual	2	"	N/A	*
Video Surveillance OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
Seon System User Manual	2	"	N/A	*
Viewing Software Guide	2	"	N/A	*
IRMA APC System OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
IRMA Matrix System User Manual	2	"	N/A	*
Parker Multiplexing System OEM Manuals (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
CM3033 User Guides	2	"	N/A	*
CM0401 User Guides	2	"	N/A	*
Other New Flyer Costs				This is for one XDE60 Option Build of 4 Buses Only
DESCRIPTION	QTY	CUSTOMER DELIVERY	UPDATES (Years)	COMMENTS
Standard Labour Hours required for NF Bus Manual Set Publishing	400	N/A		Not charged to the customer

## **Tab 6, Training Proposal**

### **Solicitation Requirements:**

N/A

### **New Flyer Response:**

Please see the attached New Flyer [Training Proposal](#).

Please note that this proposal is for recommended training only. Training courses may be selected by Champaign-Urbana Mass Transit District. New Flyer's training team is happy to advise on selecting the correct training for your needs.

Corresponding prices are not included in the Bus Price.

CONTRACT DELIVERABLES LIST		CUSTOMER TRAINING			
CUSTOMER NAME	Champaign-Urbana	CURRENCY: USD			
BID/OPTION/SR NUMBER	2022-114				
TECHNICAL SUMMARY	SR2729 Rev T				
BUS MODEL	XDE60				
QUANTITY					
ENGINE	Cummins L9 2021 330hp				
ALTERNATOR	BAE MAPS-S2DM3A				
HYBRID PROPULSION	BAE HDS300 / 3G-32K				
COOLING SYSTEM	EMP MH4				
AXLES	MAN VOK07 Front, HY1350 Rear, ZF AVN132 Ctr				
LEVELING/KNEELING	Smartrider Plus				
STEERING	Berendsen Electric				
ABS	Wabco				
AIR CONDITIONING	Thermo King, Intelligaire III, RLFE, R407c				
AUXILIARY HEATER	Valeo Thermo Electric				
PLC	Vansco				
DESTINATION SIGNS	Twin Vision				
DOORS	Vapor ETO w CLASS				
WHEELCHAIR RAMP	NF Smartrider Electric				
ARTICULATED JOINT	ATG/Hubner				
AVA/AVL	INIT				
AVM	Fuel Master				
APC	IRMA Matrix				
VIDEO SURVEILLANCE	SafeFleet				
New Flyer Supplied Training					
DESCRIPTION	COMMENTS	QTY HRS.	TOTAL SELLING PRICE AT BID	REQUIREMENT	BILLABLE: Y/N
Operator Orientation		4	\$986.85	Recommended	Y
Maintenance Orientation		4	\$986.85	Recommended	Y
Multiplex System		24	\$5,921.10	Recommended	Y
Entrance & Exit Doors		4	\$986.85	Recommended	Y
Wheelchair Ramp		4	\$986.85	Recommended	Y
Brake Systems and Axles		24	\$5,921.10	Recommended	Y
Air System and ABS		8	\$1,973.70	Recommended	Y
Suspension and Steering		8	\$1,973.70	Recommended	Y
Electric Fan Drive		4	\$986.85	Recommended	Y
Coolant Loop Fill Procedure		4	\$986.85	Recommended	Y
Towing		4	\$986.85	Recommended	Y
Body and Structure		4	\$986.85	Recommended	Y
Articulated Joint		8	\$1,973.70	Recommended	Y
OEM/Subcontractor Supplied Training					
DESCRIPTION	COMMENTS	QTY HRS.	TOTAL SELLING PRICE AT BID		
Engine Maintenance		16	\$7,020.00	Recommended	Y
HVAC Maintenance		8	\$4,050.00	Recommended	Y
Destination Sign		8	\$2,700.00	Recommended	Y
Hybrid Propulsion System Familiarization		16	\$11,610.00	Recommended	Y
Hybrid Propulsion System Troubleshooting		16	\$11,610.00	Recommended	Y
Training Total (separate from the bus price)					Y

## **Tab 7, Tools and Diagnostics Proposal**

### **Solicitation Requirements:**

N/A

### **New Flyer Response:**

Please see the attached New Flyer [Tools and Diagnostics Proposal](#).

Please note that this proposal outlines New Flyer's recommended tools and diagnostics package required to maintain the Xcelsior® bus. New Flyer's team is happy to advise on selecting the correct tooling for your needs.

The corresponding prices are not included in the Bus Price.

CONTRACT DELIVERABLES LIST		DIAGNOSTICS & TOOLS				
CUSTOMER NAME		Champaign-Urbana				
BID/OPTION/SR NUMBER		2022-114				
TECHNICAL SUMMARY		SR2729 Rev T				
BUS MODEL		XDE60				
PAGE REFERENCE	COMMENTS	DESCRIPTION	QUOTED PART #	EXTENDED SELLING PRICE	REQUIREMENT	BILLABLE: Y/N
		<b>Diagnostic Equipment</b>				
	for use with all diagnostic software	Panasonic FZ55 Toughbook Laptop	6502351	\$3,215.38	Recommended	Y
		Nexiq USB Link 2	6353474	\$1,052.42	Recommended	Y
		Cummins Insite Lite (1-year subscription)	6339520	\$1,086.28	Recommended	Y
		Cummins Insite Pro (1-year subscription)	6339521	\$1,138.41	Recommended	Y
		BAE IDS Software	6399628	\$2,821.50	Recommended	Y
		KVASER Interface	6399629	\$458.50	Recommended	Y
		Intelligence III Diagnostic Software & Cables	6393934	\$1,994.53	Recommended	Y
	free download from EMP website	EMP Software	NPN	\$0.00	Recommended	Y
		Wabco ABS Software (1-year subscription)	6334596	\$395.01	Recommended	Y
		Valeo Diagnostic Software & Cables	6396448	\$472.84	Recommended	Y
		Adapter - Diagnostic	6492163	\$51.93	Recommended	Y
	provided by Twin Vision at n/c	Twin Vision MIE Software	NPN	\$0.00	Recommended	Y
	free download from Parker-Vansco website	Vansco Software	NPN	\$0.00	Recommended	Y
	free download from Parker-Vansco website	PVSG Software	NPN	\$0.00	Recommended	Y
		Cable - PVSG Interface	6487019	\$49.67	Recommended	Y
	free download from Parker-Vansco website	Smartrider Software	NPN	\$0.00	Recommended	Y
		Vapor Class System Diagnostic Interface Kit	6358421	\$86.95	Recommended	Y
	provided by Vapor at n/c	Vapor Class System Software	NPN	\$0.00	Recommended	Y
	provided by Vapor at n/c	Vapor VETC2 Software	NPN	\$0.00	Recommended	Y
	provided by Berendsen at n/c	Danfoss Software - Berendsen Pwr Strg	NPN	\$0.00	Recommended	Y
		Cables Kit - Berendsen Pwr Strg	6490120	\$337.14	Recommended	Y
		Service Cable - IRMA APC Analyzer	479892	\$35.28	Recommended	Y
		Ethernet Cable - IRMA APC	6465569	\$118.79	Recommended	Y
		<b>Special Tools</b>				
		Kit - Lift Tow Universal	6396565	\$234.59	Recommended	Y
		Kit - Lift Tow Receivers	6396567	\$1,613.02	Recommended	Y
		Xcelsior Flat Tow adapter (2 pcs. Per set)	6395097	\$3,034.73	Recommended	Y
		Assy - Frame Flat Towing	902990	\$5,360.85	Recommended	Y
		Jacking Adapters	434434	\$1,013.03	Recommended	Y
		Tool - Sway Bar Bushing Removal	566804	\$408.58	Recommended	Y
		Repair Kit - Disc Brakes & Calipers	6408310	\$3,735.56	Recommended	Y
		Torque Multiplier	6314711	\$2,395.74	Recommended	Y
		Hub Repair Kit - MAN VOK-07 Frt Axle	6408311	\$7,549.89	Recommended	Y
		Optional Hub Removal Hydraulic Tool Kit - MAN VOK-07	6458834	\$4,843.44	Recommended	Y
		King Pin Press Kit - MAN VOK-07 Frt Axle	6408312	\$12,794.07	Recommended	Y
		Hub Repair Kit - MAN HY1350 RR Axle	6408306	\$4,953.34	Recommended	Y
		ABS Sensor R&R Kit - MAN HY1350 RR Axle	6408307	\$897.76	Recommended	Y
		Pinion Seal Repair Kit - MAN HY1350 RR Axle	6444302	\$2,387.11	Recommended	Y
		Differential Repair Kit - MAN HY1350 RR Axle	6444303	\$7,766.75	Recommended	Y
		Optional Tool Kit - MAN HY1350 RR Axle	6444304	\$32,859.57	Recommended	Y
		Tool Kit - ZF AV-132 Center Axle	6406431	\$5,394.74	Recommended	Y
		Coolant System Pressure Tester	660817	\$868.62	Recommended	Y
		Kit - Coolant Pressure Fill	6484741	\$2,731.21	Recommended	Y
		Adj Tool - Strg Gear Box Press Relief	6465265	\$296.26	Recommended	Y
		Depth Punch - Strg Gear Box Press Relief	6465266	\$177.75	Recommended	Y
		Flow Meter Tester - Strg Gear Box	140809	\$595.80	Recommended	Y
		Puller Tool - Pitman Arm	6394270	\$335.83	Recommended	Y
		Refractometer - DEF	6392284	\$447.58	Recommended	Y
		Alignment Tool - Flex Connector	6360381	\$775.99	Recommended	Y
		Eng/Trans Dolly - Universal	086444	\$2,730.44	Recommended	Y
		Cummins I9 Service Tool Kit	6484110	\$26,081.55	Recommended	Y
		BAE ISG Gap Measurement Tool	6469543	\$1,269.68	Recommended	Y
		BAE Assy - Jig ACTM	6400475	\$1,975.05	Recommended	Y
		BAE Lever - Anti Rotation	6400476	\$987.53	Recommended	Y
		BAE Assy - Jig PSR	6400477	\$1,093.34	Recommended	Y
		BAE Assy - Jig ISG	6400478	\$3,526.88	Recommended	Y
		BAE Spanner - Socket Yoke	6400479	\$1,481.29	Recommended	Y
		BAE Table - Lift Scissor OTC	6400481	\$11,201.36	Recommended	Y
		BAE Blanket - Insulating	6400482	\$2,130.23	Recommended	Y
		BAE Eyebolt - M12 x 1.75 x 24 30mm	6400486	\$28.22	Recommended	Y
		BAE Eyebolt - M8 x 1.25 x 16 25mm	6400487	\$16.93	Recommended	Y
		BAE Lifting Hook - ACTM	6410750	\$84.65	Recommended	Y
		BAE Hardware - ACTM Lifting Hook	6410751	\$1.42	Recommended	Y
		BAE ESS Lift Kit	6410752	\$3,526.88	Recommended	Y
		TK A/C Tool Kit - RLFE R407c	6459438	\$23,398.74	Recommended	Y
		Accumulator Fill and Test Kit	6458813	\$2,473.62	Recommended	Y
		Pressure Regulator - ATG Accumulator	6465316	\$179.64	Recommended	Y
		Swivel Union - ATG Accumulator	6465317	\$38.75	Recommended	Y
		Adapter - ATG Accumulator	6465318	\$3.13	Recommended	Y
		Hydraulic Block Torque Kit	6353626	\$1,719.59	Recommended	Y
		Cylinder Pin Holder	6353636	\$241.33	Recommended	Y
		Cylinder Pin Extractor	6353637	\$280.58	Recommended	Y
		Hydraulic Fill and Test Kit	6358964	\$5,014.52	Recommended	Y
		Roof Strut R&R Tool	6359042	\$1,040.19	Recommended	Y
		Eye Bolt	6357775	\$101.03	Recommended	Y
		Wrist Joint Nut Restraint	6461222	\$544.36	Recommended	Y
		Socket, 32mm	6389935	\$47.88	Recommended	Y
		Torque Multiplier, 1350 Nm	6389936	\$3,004.79	Recommended	Y
		Holder, Cover Plate	6389937	\$176.62	Recommended	Y
		Repair Kit - Hubner Bellows	6446214	\$4,987.90	Recommended	Y

## **Tab 8, Delivery Schedule**

### **Solicitation Requirements:**


N/A

### **New Flyer Response:**

Please see the attached New Flyer [Delivery Schedule](#) for the proposed bus.



## 2022-114 Delivery schedule\_Validated

 NEW FLYER.								
2022-114		Dates	Week	St. Cloud Full Build			Clean/Dispatch	Delivery @ Customer Site
				Line Entry	Line Exit	Completion & Signatures		
				SCL				
3RD QUARTER	2023	Jul 3-7	27					
	2023	Jul 10-14	28					
	2023	Jul 17-21	29					
	2023	Jul 24-28	30					
	2023	Jul 31-Aug 4	31					
	2023	Aug 7-11	32					
	2023	Aug 14-18	33					
	2023	Aug 21-25	34					
	2023	Aug 28-Sep 1	35					
	2023	Sep 4-8	36					
	2023	Sep 11-15	37	1				
	2023	Sep 18-22	38	1				
	2023	Sep 25-29	39	1				
4TH QUARTER	2023	Oct 2-6	40	1	1			
	2023	Oct 9-13	41		1			
	2023	Oct 16-20	42		1	1		
	2023	Oct 23-27	43		1	1	1	1
	2023	Oct 30-Nov 3	44			1	1	1
	2023	Nov 6-10	45			1	1	1
	2023	Nov 13-17	46				1	1
	2023	Nov 20-24	47					
	2023	Nov 27-Dec 1	48					
	2023	Dec 4-8	49					
	2023	Dec 11-15	50					
	2023	Dec 18-22	51					
	2023	Dec 25-29	52					
TOTAL				4	4	4	4	4
<p>NOTE: Attached is a new/updated Customer specific Schedule of your bus build(s), for your review and use. This production schedule is based on New Flyer's current production and delivery information and may be subject to further changes at New Flyer's discretion.</p> <p>Please share this information with your own Inspectors and/or contracted Inspection Service. In so doing, it ensures all parties are current on the production flow of buses that must be inspected. As appropriate, Inspection Agencies with multiple Customers can then plan overall Inspection coverage.</p>								

## **Tab 9, Technical Summary**

### **Solicitation Requirements:**

N/A

### **New Flyer Response:**

Please see the attached New Flyer [Technical Summary](#) for the proposed bus.

Option#	Description	Tech Summary Description
100-00	COACH LENGTH	Xcelsior - 60' coach.
100-03	STRUCTURAL MATERIAL	(B),Carbon steel/ferritic sst.
100-04	FUEL TYPE	(B),Diesel, compatible up to 20% biodiesel.
100-05	EPA/ENGINE MODEL YEAR	2022
100-0B	POWERTRAIN CAN BAUD RATE	(B),500kbps.
100-0W	CUMMINS L9 DIESEL ENGINE CERTIFICATION	(B),EPA ONLY.
201-01	FRONT BUMPER	(S),Romeo Rim, three piece, front bumper.
201-03	FRONT TOWING PROVISIONS	(A),Basic set-up, incorporated in front chassis with tow eyes for safety chains. Tow adapters are required.
201-05	REAR BUMPER	(B),Romeo Rim, three piece, rear bumper with anti-ride feature.
203-01	FRONT AXLE	(B),M.A.N. VOK-07-F, GAWR 15,873 lbs. With disc brakes. Hub mount, Knorr cylinders, Ferodo lining with low copper (<5%) brake pads.
203-02	SECUREMENT OF BRAKE LININGS	(S),Bonded.
203-03	BRAKE WEAR INDICATION	(A),Continuous wear sensors are required.
203-04	BRAKE WEAR INDICATION LOCATION	(B),Required at instrument panel.
203-06	SHOCK ABSORBERS	(S),Koni.
203-0A	FRT AXLE AND WHEEL SPLASH APRONS	(B),Basic, full width, fore of axles and wheels.
203-0B	RADIUS ROD BUSHINGS	(B),Windowed
204-01	REAR AXLE	(B),M.A.N. 4.56:1. Model HY-1350-F. GAWR 28,660 lbs. With disc brakes, hub mount, Knorr cylinder, Ferodo lining with low copper (<5%) brake pads.
204-02	CENTER AXLE	(B),ZF model AVN132-NF1, GAWR 25,350 lbs. With disc brakes, hub mount, Knorr cylinder, Ferodo lining with low copper (<5%) brake pads.
204-03	REAR AXLE GEAR OIL	(B),Synthetic.
204-09	REAR AXLE DRAIN PLUGS	(B),Magnetic external hex head.
204-0A	REAR AXLE MUD FLAP	(B),One aft of rear axle. (Requirement is determined by local climate, ice build-up, high ambient temperature.)
204-0B	CTR WHEEL MUD FLAP	(B),One aft of each center dual wheels.
204-0C	REAR WHEEL MUD FLAP	(B),One aft of each rear wheel.
205-01	TIRE SUPPLIER	(A),Customer supplied tires
205-06	WHEELS	(A),Alcoa 22.5" x 8.25" aluminum. Polished Durabright finish with Duraflange treatment.
205-0J	STEERING AXLE TIRES	(B),305/70R/22.5, Goodyear G652 (68 mph).
205-0M	REAR AXLE TIRES	(B),305/70R/22.5, Goodyear G652 (68 mph).
205-0N	CENTER AXLE TIRES	(B),305/70R/22.5, Goodyear G652 (68 mph).
209-01	POWER STEERING PUMP	(B),Berendsen electric power steering pump. Mounted at the front streetside.
209-02	POWER STEERING HOSES	(B),NFIL (Manuli) Equator 2
209-05	POWER STEERING RESERVOIR	(S),Required.
209-06	POWER STEERING LOW LEVEL FLUID INDICATOR	(B),Required at engine/propulsion switch box.
209-08	POWER STEERING DRAIN PLUG	(B),Magnetic plug.
209-09	POWER STEERING UNIT	(S),Sheppard M110, power assisted, frame mounted.
209-0A	POWER STEERING SYSTEM FLUID	(B),Dexron III, mineral based.
209-0B	POWER STEERING SENSOR	(B),Hydraulic level sensor required.

Option#	Description	Tech Summary Description
219-01	FUEL/PROPULSION SYSTEM	BAE hybrid with L9 diesel engine.
219-02	PROPULSION,HP,TORQUE,TYPE	(S),Cummins L9 2021 emissions-std diesel engine (hybrid), 330 horsepower with 1100 LB FT torque (Eng output is controlled by Hyb drive). Uses a heat exchanger for the isolated cabin heating loop. Refer to 100-05 for EPA/Engine Model Year.
219-05	AIR COMPRESSOR	(B),Direct coupled air compressor powered by electric motor.
219-06	AIR COMPRESSOR HIGH VOLTAGE INTERLOCK SWITCH	(B),Not Required, Junction box provided with tamperproof hardware.
219-09	CUMMINS DIESEL FUEL FILTERS	(A),DP245 primary and Cummins secondary fuel filter system. The DP245 has built-in check valve.
219-0B	CUMMINS DIPSTICK, LOCATION	(S),Static oil level indicator, on streetside of engine.
219-0C	ENGINE & TRANS FLUID FILL TAGS	(S),For engine and transmission dipsticks.
219-0D	ROAD SPEED	(B),Top road speed is governed. Set at 65 MPH (105 KPH).
219-0H	HYBRID DRIVE START/STOP	(S),Shuts off and restarts engine automatically to reduce idling at stops.
219-0M	TRANSMISSION/HYBRID DRIVE/TRACTION MOTOR	(S),As per BAE hybrid system, HDS 300.
219-0P	TRANSMISSION SHIFTING	(S),Foot on brake enables shift when in neutral.
219-18	FLUID, TRANS/HYBRID DRIVES	(B),Transynd synthetic.
219-1A	ENG/TRANS OIL DRAIN PLUGS	(B),OEM Provided.
219-1C	AIR CLEANER	(B),Donaldson. Reusable housing with disposable cartridge/filter.
219-1D	AIR RESTRICTION INDICATOR	(B),Mechanical gauge mounted directly on air intake tube.
219-1E	EXHAUST SYSTEM	(S),Cummins diesel particulate filter (DPF).
219-1F	EXHAUST TAIL PIPE ORIENTATION	(A),Curved pipe pointing to rear.
219-1G	EXHAUST BLANKETS FOR CUMMINS DIESEL OR CNG	(B),Provided for the exhaust tubes.
219-1U	ENGINE SWITCH BOX	(T),Basic configuration with run control, start and engine compartment light switches, and Starter Disable Keyed switch. Located at curbside of center rear in engine compartment.
219-1W	ENGINE SPEED CONTROL AT SW BOX	(B),Keypad button (controls engine RPM).
219-22	ENGINE COMPT GAUGES	(S),Programmable CAN communicator. Standard Features: Engine Oil Pressure, Engine Water temperature, Tachometer, 12V/24V battery voltage, Hour Meter, Exhaust Temp, Active Faults, Drivetrain Specific features.
219-25	ENG SWITCHBOX KEYPAD	(B),Includes service light, fan reverse and coolant fill switches and start disabled, wait to start, low coolant, ECP coolant low, ACTM/ISG fan and HEV maintenance required indicators.
219-27	ENGINE OIL FILL TUBE & CAP	(B),Basic Cummins supplied.
219-2E	BELT GUARD	(B),The engine pulley guard hinged to open curbside. Yellow powder coated.
219-2F	BELT GUARD LATCHING	(B),SST adjustable draw latch.
219-2K	DEF(DIESEL EXH FLUID) TANK	(A),Manual and pressure fill are set in lower curbside fusebox access door with NFIL fill cap. Pressure fill has a 45 degree elbow at the regulator.
219-2Z	COOLANT PRESSURE FILL HOSE	(B),NFIL (Manuli) Nozone.

Option#	Description	Tech Summary Description
231-02	RADIATOR,CAC,HYDR FLUID COOLER	(B),EMP MH4 GEN4 with full diagnostic capabilities. 4 x 15" fans.
231-04	RADIATOR REVERSE FAN SW & DIAG LAMP	(B),Keypad button.
231-06	SURGE TANK	(B),Dual cylindrical SST tanks with isolated cabin heating loop.
231-08	SURGE TANK ENG MAINT & DERATE SENSOR MFR	(B),Fozmula.
231-09	SURGE TANK PRESSURE TEST PORT	(B),Schrader valve fitting provided.
231-0A	SURGE TANK PRESSURE RELIEF VALVE	(B),Radiator cap (LEV-R VENT), built into surge tank cap.
231-0B	SURGE TANK SIGHT GLASS	(B),Graduated sight glass (glass material).
231-0C	RAD TUBES	(S),SST.
231-0F	COOLANT FLUID/ANTIFREEZE	(A),Extended Life (FINAL CHARGE) coolant. 50/50 distilled water with ethylene glycol with corrosion inhibitors and bittering agent, based on organic acid (carboxylate) technology. Orange fluid.
231-0G	TRANSMISSION/HYBRID DRIVE COOLER	(B),Roof mounted EMP cooler.
231-0H	TRANSMISSION/HYBRID OIL COOLER HOSES	(S),NFIL (Manuli) Equator 1.
231-0J	TRANSMISSION/HYBRID DRIVE COOLER PUMP	(S),AMETEK pump.
231-0K	COOLANT RECOVERY TANK	(B),required.
231-0T	LOWER VENT LINE HOSE	(B),NFIL (Manuli) Nozone.
241-01	DIESEL FUEL TANK MATERIAL	(B),Cross-linked polyethylene.
241-02	DIESEL TANK CAPACITY AND FILL TYPE	(B),125 useable US gallons. Pressure fill.
241-03	DIESEL FILLER CAP	(A),Basic screw type.
241-04	DIESEL FUEL SENDER	(S),Required.
241-07	DIESEL FUEL HOSES,ENGINE COMPT	(S),GH100.
241-08	DIESEL FUEL LINES,TANK TO BULKHEAD	(S),Orange, fuel grade nylon tubing.
246-01	AIR COMPRESSOR DISCHARGE LINE	(S),Teflon 2807 SST braided hose.
246-02	BASIC AIR TANKS	(B),Combo Tank 1 (Wet Tank + Primary Brake Tank), RR Unit ACC Tank, Secondary Brake Tank (CTR Axle), Secondary Brake Tank (FRT Axle), Combo Tank 2 (FRT Axle Kneeling Tank + FRT Unit ACC Tank), CTR Axle Kneeling Tank, RR Axle Kneeling Tank.
246-04	AIR TANK DRAIN VALVES	(B),Manual 1/4 turn valve.
246-06	WET TANK DRAIN VALVE	(B),Manual 1/4 turn valve.
246-09	RIDE HEIGHT SENSORS	(A),SmartRider electronic leveling system on all axles.
246-0A	RIDE HEIGHT SETTINGS,NORMAL	(B),Front ride height is 4.0" axle to bump stop.
246-0B	RIDE HEIGHT SETTINGS,HIGH RIDE/FRT OVER-RAISE	(A),2" above normal on all axles, speed limited to 10 mph (16 Kph).
246-0C	RIDE HEIGHT SETTINGS,LOW RIDE	(A),2.4" below normal on all axles, speed limited to 10 mph (16 Kph).
246-0E	DOOR INTERLOCK	(A),Applied to exit door. Foot on brake to release interlock, applied via multiplex system programming.
246-0G	DRIVER'S PARK BRAKE ALARM	(B),If the Master Run switch is in the OFF or PARK positions, the kneeling alarm is triggered to alert the driver that the park brake is not set.
246-0H	PARK BRAKE PRESSURE SETTING	(S),40 psi auto-apply park brake valve. 60 psi pressure switch for park brake light activation.
246-0K	AIR DRYER	(A),Bendix AD9 Tandem air dryer with IPC (Integrated Puraguard Cartridge).

Option#	Description	Tech Summary Description
246-0M	AIR DRYER LOCATION	(B),Behind the rear streetside wheelhouse, on the bulkhead.
246-0U	PARK BRAKE ACTUATION	(B),Pull To Apply.
246-0V	PARK/EMERG BRAKE LOCATION	(S),On side console panel.
246-13	FRONT TOW CONNECTOR	(B),Male 1/4" NPT fitting with Series 20/30 coupler fitting, with tag.
246-14	FRONT AIR CONNECTOR ARRANGEMENT	(B),Located below the bumper, streetside.
246-15	FRONT AIR CHARGE CONNECTOR	(B),Male 1/4" NPT fitting with Series 20/30 coupler fitting, with tag.
246-17	REAR AIR CHARGE CONNECTOR TYPE	(A),Male 1/4" NPT multi-purpose quick coupling with ISO 7241 Series B Interchange (60 Series Nipple), with tag.
246-1B	FLEXIBLE AIR LINES	(S),Synflex colour coded. Green: rear service brakes and supplies. Red: front service brakes. Brown: parking brake. Black: accessories and brake hose. Yellow: compressor and governor. Blue: suspension.
246-1E	ABS	(S),Wabco.
246-1F	TRACTION CONTROL	(B),Wabco system, to reduce drive wheel overspin.
246-1J	FRONT CHARGE AIR ROUTING	(B),To front brake tank connection.
246-1K	REAR CHARGE AIR ROUTING	(B),Direct to air dryer, connected after air dryer.
246-1M	REAR CHARGING INDICATOR	(A),60 PSI Pressure Switch Located in Rear Charge Air Line.
246-27	AIR SYSTEM TRANSDUCER FAULT DETECTION	(B),Transducer Fault Detection - Transducer voltage falls to 0V if transducer failure occurs.
260-04	BATTERY TYPE / MFR	(A),Four Odyssey group 31 Absorbed Glass Matt (AGM) maintenance free batteries. 1150 CCA. Top posts: 3/8" positive, 3/8" negative.
260-05	BATTERY CABLES	(S),Red heat shrink on 24 volt positive cable end and light blue heat shrink on 12 volt positive cable end.
260-09	BATTERY TRAY	(S),Slide out battery acid resistant polyethylene enclosure with SST sub frame, SST bearings and rubber isolation mounts. Located aft of the curbside rear wheelhouse. Note: battery access door opens to the side.
260-0C	POSITIVE BATTERY DISCONNECT SW	(A),Required with quick access through flip-open door (No engine shutdown feature).
260-0E	BATTERY VOLTAGE EQUALIZER	(B),Vanner 100 amp.
260-0F	JUMP START MANUFACTURER/TYPER	(A),ANDERSON SB350 GREY
260-0G	JUMP START LOCATION	(B),Mounted on underneath side of fusebox, accessible via the DEF fill access door.
260-0H	START/STOP SWITCH	(A),Start/Stop mode functionality Shuts off and restarts engine automatically to reduce idling at stops, required.
260-0Y	BAE ELECTRONIC COOLING PACKAGE (ECP)	(B),EMP cooler with Ametek pump for propulsion control and accessory power system.
260-0Z	BAE ENERGY STORAGE SYSTEM (ESS)	(B),3G-32K (Next Gen)
260-10	ACCESSORY POWER SUPPLY	(B),BAE MAPS-S2DM3A. 3 APC (200 Amp @ 28V DC each). 3 API (17.5 KW at 230 V 3-Ph AC each). XDE60 with electric accessories for use with Gen 2.5.
260-15	ROOF FAIRING / SKIRTS ENCLOSURE	(S),Fairing with full length skirts for XDE's.
260-1B	BATTERY VOLTAGE EQUALIZER QUANTITY	(B),One

Option#	Description	Tech Summary Description
269-01	P.A. AMPLIFIER MFR / TYPE	(A),Included with AVA or AVL system.
269-0C	GOOSENECK MICROPHONE	(B),REI, approximately 30" long from base to end of microphone. Black neck and head.
269-0D	GOOSENECK MICROPHONE LOCATION	(B),Inverted, clipped to the A-pillar. Microphone clip is 15.26" from bottom of destination sign closeout panel.
269-0E	GOOSENECK MICROPHONE SWITCH	(B),Built into microphone.
269-0G	INTERIOR SPEAKER MFR	(B),TCB
269-0H	PRIMARY INTERIOR SPEAKERS	(B),Eight: six to light panels, two above rear bench.
269-0K	EXTERIOR SPEAKERS, LOCATION	(B),At basic location above entrance.
269-0M	EXTERIOR SPEAKER MFR	(B),Shekonic
269-0N	EXTERIOR SPEAKERS, LOCATION, RR	(A),Additional location above curbside exit door.
269-0P	EXTERIOR SPEAKERS, LOCATION, CTR	(A),Additional location above curbside centre exit door.
269-0Z	PRIMARY PA SYSTEM	(B),Gooseneck mic with built-in switch
269-13	EXTERIOR SPEAKER QUANTITY	(A),Three
269-14	EXTERIOR SPEAKERS, LOCATION, REAR, MFR	(B),Shekonic
269-15	EXTERIOR SPEAKERS, LOCATION, CENTER, MFR	(B),Shekonic
269-1E	EXTERIOR SPEAKER COIL	(B),Single coil.
273-01	HEADLIGHTS	(S),NFIL Xcelsior LED low beam and high beam headlights.
273-02	DAY RUN HEADLIGHTS	(B),Required.
273-03	FRONT TURN SIGNALS	(S),NFIL amber LED. Integrated with headlight assembly.
273-06	TAIL LIGHT ARRANGEMENT	(A),Red, amber, red, white.
273-07	TAIL LIGHTS	(A),7" Dialight LED, bolted flange mounted.
273-08	CENTER STOP / DECELERATION LIGHT SIZE	(B),18" X 1 " Dialight
273-09	WHITE BACK-UP LIGHT	(B),4" Dialight LED, grommet mounted.
273-0A	STOP LIGHTS ON WITH RTRDR/REGEN BRAKE	(B),Required.
273-0B	STOP LIGHTS ON WITH PARK BRAKE OR INTERLOCK	(S),When park brake or interlock are engaged.
273-0E	CENTER STOP / DECELERATION LIGHTS QTY	(A),Three
273-0F	CENTER STOP / DECELERATION LIGHTS LOCATION	(B),At lower edge of rear crown panel.
273-0H	SIDE TURN SIGNALS, TYPE / QTY PER SIDE	(A),6 streetside, 5 curbside amber Dialight LED Lamps, 12 volt
273-0J	SIDE TURN SIGNAL FUNCTIONALITY	(B),Single intensity, Dialight LED lamps.
273-0M	CURBSIDE TURN SIGNALS LOCATION	(A),Lamps are aft of front and fore and aft of center and rear wheelhouses.
273-0N	STREETSIDE TURN SIGNALS LOCATION	(A),Lamps are fore and aft of all wheelhouses.
273-0P	KNEELING/RAMP LIGHT AT ENTRANCE	(S),2.5" Dialight LED.

Option#	Description	Tech Summary Description
273-0T	MARKER / CLEARANCE LIGHTS	(B),Dialight LED without guard all around.
273-0V	REFLECTORS	(B),Self-adhesive decals installed at NFIL basic positions.
273-0W	REAR LICENCE PLATE LIGHT	(B),Smartrend LED.
273-10	TIMED SHUT-OFF,ENTR AREA LIGHTS	(B),The program is set to shut the lights off when the door closes.
273-12	TIMED SHUT-OFF,EXIT AREA LIGHTS	(S),The program is set to shut the lights off five seconds after the door closes.
273-1F	CENTER STOP / DECELERATION LIGHTS COLOR	(B),Red
273-1G	CURBSIDE CORNERING LIGHTS	(A),3 total, one curbside lamp located behind front axle. 2 lamps located ahead of both center and rear axle.
273-1J	STREETSIDE CORNERING LIGHT	(A),3 total, one streetside lamp located behind front axle. 2 lamps located ahead of both center and rear axle.
273-1R	MARKER / CLEARANCE LIGHTS FUNCTIONALITY	(B),New Flyer standard marker/clearance light functionality to meet applicable FMVSS/CMVSS regulations.
273-23	MARKER LIGHTS LOCATION	(B),New Flyer standard marker light locations to meet applicable FMVSS/CMVSS regulations.
273-25	EXTERIOR LIGHTS	(B) Day Run, Night Run, and Night Park modes illuminate the tail lamps, marker/clearance lamps, and license plate lamp. Mandatory for Canadian customers.
273-26	CENTER STOP/DECELERATION LIGHT FUNCTIONALITY	(B),Basic stop functionality.
273-27	CENTER STOP/DECELERATION LIGHT VOLTAGE	(B),12 Volts
273-29	UPPER REAR LIGHTS QTY	(A),Two
273-30	UPPER REAR LIGHTS SIZE	(A),2"x 6" oval
273-31	UPPER REAR LIGHTS COLOR	(B),Amber
273-32	UPPER REAR LIGHTS FUNCTIONALITY	(B),Turn
273-33	UPPER REAR LIGHTS LOCATION	(A),At top of upper corner pillars.
277-02	INTERIOR PASSENGER LIGHTING	(B),NFIL LED, 24 VDC.
277-04	INTERIOR LED LIGHT FUNCTIONALITY	(A),First two banks of lights (at 0% pre-set) on each side turn on when entrance door is opened and off when door is closed. Dimmable (50% pre-set) at remaining banks.
277-07	EXIT BASEPLATE / ELEC PNL ACCESS	(B),At each exit door, NFIL set-up, through removable ad frame.
277-0B	TINTED LED PASSENGER LIGHT COVERS	(A),Blue for the 1st-2nd banks of lights on each side, the rest are white.
277-0C	FAREBOX LIGHT	(B),One fixed LED light.
277-0F	DRIVER'S LIGHT	(B),One sealed 2.5" white high output Smartrend LED light.
277-0K	SDS SERVICE LIGHT	(A),Two LED lamps, one provided at upper front and one provided at upper rear of SDS enclosure.
277-0M	SDS SERVICE LIGHT SWITCH CONTROL	(B),With switch.
277-0N	PROPULSION COMPARTMENT LIGHTS	(B),Smartrend, four 1.38" LED lights.
277-0V	REAR DECK STEP LIGHT	(B),LED.
277-0W	INTERIOR DOOR HEADER LIGHTS, ANTI-GLARE SHIELD COLOR	(B),LED strip light (approx 18" long) provided above doors. With black anti-glare shield.
277-0Y	INTERIOR DOOR HEADER LIGHTS/ QUANTITY (ENTRANCE)	(B),Single strip.



Option#	Description	Tech Summary Description
277-11	INTERIOR DOOR HEADER LIGHTS/ QUANTITY (EXIT)	(B),Single strip.
277-13	EXIT AND ENTR MECH BOX SERVICE LIGHTS	(A),Smartrend LED with switch, at basic locations.
277-14	EXIT AND ENTR MECH BOX SERVICE LIGHTS QUANTITY	(A),1 at entrance, 1 at each exit door.
277-18	SIDE CONSOLE COMPT SERVICE LIGHT	(A),Smartrend LED light.
277-19	SIDE CONSOLE COMPT SERVICE LIGHT WITH SWITCH	(A),Switch mounted with lamp assembly.
277-1A	REAR PLC AND FUSEBOX SERVICE LIGHTS	(S),Provided, LED.
277-1N	ARTIC JOINT AREA LIGHTS	(B),Two aft facing.
277-27	ARTIC JOINT AREA LIGHT LENS COLOR	(B),White
277-28	ARTIC JOINT AREA LIGHT DIMMING PRESET	(B),Dimming preset 50% on.
277-29	SIDE CONSOLE COMPT SERVICE LIGHT MOUNTING LOCATION	(B),Front Structure
277-2B	CURBSIDE FORWARD HVAC DUCT ORIENTATION ON LIGHT PANEL	(B), Duct fixed pointed towards the aisle.
280-01	PASSENGER SIGNAL CHIMES	(B),Two electronic chimes, one above driver and one at rear exit. Chimes have a single tone which sounds once for regular activation, twice for wheelchair positions.
280-03	PASSENGER SIGNAL PULLCORDS	(B),Yellow cords are required.
280-07	HORIZONTAL PASSENGER SIGNAL PULLCORDS	(B),Set at NFIL designated basic height. All decks.
280-0A	FRONT UNIT VERT PULLCORDS, FOR 60'	(B),Two: at second and third streetside pillars forward of the joint.
280-0B	REAR UNIT LWR DECK VERT PULLCORDS, FOR 60'	(B),Two: at first street and curbside pillars forward of the face of the upper deck.
280-0D	SECUREMENT OF VERTICAL PULLCORDS	(B),Looped or clamped to the horizontal depending on the location.
280-0T	PASSENGER SIGNAL TYPE AT WHEELCHAIR POSITIONS	(A),Push button mounted to flip-up seat grab rail.
280-0U	PUSH BUTTON SIGNAL AT WHEELCHAIR POSITIONS	(A),Push button only one on curbside wheel chair position and one on street side wheel chair position which is mounted to the under flip-up seat grabrail.
280-0V	PUSH BUTTON SIGNAL AT EXIT	(A),Mounted on center stanchion (ref. wide exit), low profile recessed button.
280-0W	PUSH BUTTONS,VERT AND SEAT STANCHIONS	(T),Required on vertical stanchions, located C/S & S/S wheelchair barriers.
284-01	ELECTRONIC CONTROL SYSTEM	(S),Vansco.
284-02	SYSTEM VOLTAGE	(S),24 VDC primary, 12 VDC secondary.
284-03	SWITCHES	(S),Water resistant.
284-04	SPARE INPUT/OUTPUT PORTS FOR MULTIPLEX SYSTEM MODULES	(S),Minimum 10% input and 10% output, per electrical panel location.
284-05	SIDE CONSOLE LIGHTING	(A),LED lamps.
284-06	HAZARD WARNING LIGHTS	(B),Front, side and rear lights flash for hazard warning.

Option#	Description	Tech Summary Description
284-0B	SDS ELECTRICAL PANEL ORIENTATION	(B),Facing curbside.
284-0D	SDS ELECTRICAL PANEL LOCATION	(B),Mounted on backside of SDS rack.
284-0F	ENTRANCE DOOR CONTROLLER	(B),Basic with 5 position settings.
286-01	INSTRUMENT PANEL	(B),LCD display screen. Acrylic material with luminescent lighting, with Vansco Instrument Panel Cluster module.
286-02	SHIFT SELECTOR LOCATION	(S),Located on instrument panel.
286-03	EXTERIOR LAMP TEST	(B),Simultaneously depress both turn signals.
286-04	SPEEDOMETER	(B),part of Vansco instrument panel cluster. Set to display miles. With odometer (the display can be toggled to show Trip1, Trip 2, engine hours).
286-05	AUDIBLE SOUND FOR TURN SIGNALS/HAZARDS	(T),Using click sound for turn signal and for hazard warning, and kneeling/ramp alarm for right turn signal.
286-0C	REGENERATIVE BRAKE DISABLE SWITCH LOCATION	(A),Inside destination sign compartment.
286-0D	SILENT ALARM	(A),required.
286-0F	SILENT ALARM SW LOCATION	(A),At side console.
286-0P	DIAGNOSTICS PLUG LOCATIONS	(B),Under the front dash (left of the steering column), at fwd face of the SDS barrier (above driver) and at the engine switch box and one BAE diagnostic connector at fwd face of the SDS.
286-1R	DRIVER'S USB PLUG	(T),Required in the SDS box.
289-01	SECUREMENT OF HARNESES	(B),Hellerman tyton clamps, with Panduit releasable cable ties.
296-01	WIRING DECAL, REAR PLC AND FUSEBOX	(S),Provided, laminated.
296-02	WIRING DECAL, SIDE CONSOLE	(A),Laminated, installed on the inside of the SDS box door.
296-07	SIDE CONSOLE DOOR DECAL LANGUAGE	(B),English
298-01	WATER TEST DURATION	(B),10 minutes.
298-02	WATER TEST DURATION A/C	(B),Water Test with A/C on
304-01	EXTERIOR PAINT TYPE	(S),Axalta Imron Elite high solids polyurethane.
304-06	HIGH VOLTAGE SAFETY DECALS	(S),Required.
304-07	CORROSION PROTECTION	(A),grit blasted frame, moisture cure zinc-rich primer (applied for 18 year warranty protection), anti-chip undercoating, corrosion preventive coating sprayed inside frame tubes up to roof line.
304-0A	EXT DECALS,CUSTOMER SPECIFIC	(A),Required. Customer to provide the Engineering paint group with specific requirements.
304-0D	INTERIOR DECALS, CUSTOMER SPECIFIC	(A),Required.
304-0E	PASSENGER COMPARTMENT DECAL LANGUAGE	(A),English / Spanish / Simplified Chinese. Passenger compartment decals are the decals within the area of the coach designed for the seating of passengers and that are intended primarily for passenger viewing.
304-0F	INTERIOR FLEET NUMBER DECALS	(B),Required.
304-0G	MAINTENANCE DECAL LANGUAGE	(B),English. Maintenance decals are the decals that will be referenced primarily when performing maintenance on the coach.
304-0H	KNEELING / RAMP DECALS	(B),NFIL basic ramp & kneeling decal (red on white) and an arrow decal (red and black) provided near the kneeling / ramp deployment lights.
304-0J	AIR TANK DECALS	(B),NFIL basic.
304-0M	EXT FLEET NUMBERS, NON-ROOF	(B),Required (reflective).
304-0U	HYBRID SAFETY DECALS	(B),Required.
306-02	FIRE EXTINGUISHERS	(T),5 lb ABC class. With gauge, hose and mounting bracket. UL compliant for US customers. Customer supplied.
306-03	FIRE EXTINGUISHER LOCATION	(A),Mounted vertically on the aisle side of the upper forward face of the driver's barrier.

Option#	Description	Tech Summary Description
306-0C	MASK DISPENSER	(B),Not required.
350-01	DRIVER'S PEDALS, POSITION / TYPE	(B),Pedals not adjustable fore/aft. Brake pedal angle set at 45 degrees from pedal to floor. Throttle pedal angle set at 45 degrees from pedal to floor.
350-04	BRAKE VALVES	(S),E6.
350-06	DRVR'S CONTROL PLATE SURFACE TREATMENT	(A),Full metal jacket applied to area near the pedals.
350-07	TURN SIGNAL SWITCHES	(B),Basic switches, floor mounted.
350-08	DIMMER SWITCH	(B),Foot switch located beside side console panel.
350-0D	HAZARD WARNING LIGHT SW LOCATION	(A),On side console with additional foot switch located between the turn signal switches.
350-0G	STEERING COLUMN	(B),Douglas Autotech with tilt and telescopic features.
350-0H	STEERING WHEEL	(A),3 spoke, 20" diameter hard padded.
350-0M	DUAL HORN	(B),Provided with splash shield.
400-01	JACKING / LIFTING PADS	(B),4" diameter round pads at front and rear chassis.
405-01	ARTICULATED JOINT	(B),ATG, grey Hubner bellows.
420-02	EXTERIOR SIDE PANELS	(S),Fiberglass.
420-03	REAR RF MOUNTED AIR SCOOP	(A),Stainless Steel, painted per paint scheme.
420-05	CURB & STREET SIDE ENG COMPARTMENT, SIDE CONSOLE ACCESS DOORS, STRUTS	(B),Supported by gas struts.
420-06	CURB & STREET ENG COMPARTMENT, BATTERY DOORS, LATCHES	(B),Quarter turn chrome plated 5/16" square key latches. Also, used for the separate battery access door.
420-07	CURBSIDE PROPULSION COMPARTMENT DOOR	(A),Includes battery disconnect switch access door (using a gas strut), a DEF pressure fill & manual fill access door (using a gas strut) and a rear air charge connector access door (using a gas strut).
420-09	DEFROSTER ACCESS DOOR LATCHES	(B),4 quarter turn chrome plated 5/16" square key latches.
420-0A	STREET SIDE ENGINE (RADIATOR) ACCESS DOOR	(B),With wavy screen.
420-0B	BATTERY COMPARTMENT DOOR	(B),Solid door located aft of the curb side rear wheel, separate from the engine/propulsion compartment.
420-0C	DIESEL FUEL FILL DOOR	(B),Basic hinged door located forward of the curbside rear wheelhouse.
420-0D	SURGE TANK DOOR	(B),Basic hinged door.
420-0F	SIDE CONSOLE DOOR LATCHES	(B),Quarter turn chrome plated 5/16" square key quad latches.
420-0G	PROPULSION DOOR	(B),Screened door with built-in handle.
420-0H	PROPULSION DOOR STRUTS	(B),Two, the streetside strut has a locking mechanism.
420-0J	PROPULSION DOOR LATCHES	(B),Quarter turn chrome plated 5/16" square key quad latches.
420-0M	REAR LICENSE PLATE RETENTION	(B),Centered with bottom retainer and two upper inserts.
420-0N	ENGINE DOOR PROXIMITY SWITCH	(B),Required on Curb Side.
420-0P	RAIN GUTTER	(S),0.44" cross section bonded.
420-0R	ROOF HATCH INSTRUCTION LANGUAGE	(A),English / Spanish / Simplified Chinese.
420-0T	ROOF HATCH SIZE,FRONT	(B),24" X 24"
420-0U	ROOF HATCH TYPE,FRONT	(B),Basic hatch/vent.
420-0V	ROOF HATCH VENDOR,FRONT	(B),Transpec Worldwide.

Option#	Description	Tech Summary Description
420-15	ROOF HATCH SIZE,REAR	(A),24" X 36"
420-16	ROOF HATCH TYPE,REAR	(A),Skylight.
420-17	ROOF HATCH VENDOR,REAR	(A),Spheros Parabus.
420-18	REAR ROOF HATCH (SKYLIGHT) FILM,TINT	(B),18% Light Transmittance.
420-1B	WIPERS	(B),Comotech motors 24 volt electric with Smartrend wet arm wipers. Intermittent.
420-1E	WINDSHIELD WASHER BOTTLE	(B),5 US gallon with electric powered pump mounted using 4 weld nuts.
420-1F	WINDSHIELD WASHER FILL LOCATION	(S),Accessed via a flip-out door built into the exterior side console access door.
420-1G	LOWER DRIVER'S VENT	(B),Provided.
420-1H	FENDERS	(B),Molded polyurethane.
420-1K	S1 WHEEL GUARDS	(A),Required, forward of center and rear wheels, curbside.
420-1M	EXTERIOR UPPER REAR	(A),With window.
420-1T	FRONT LICENSE PLATE LOCATION	(B),On center of defroster door.
420-1U	FRONT LICENSE PLATE RETENTION	(A),Bottom retainer, top inserts.
420-24	WIPERS, MOTOR ARM LENGTH	(B),34" long arm
420-25	WIPERS, WIPER BLADE LENGTH	(B),26" long blade
420-26	WIPERS, SPRAY STREAMS PER ARM	(B),2 streams per arm
420-2B	DRIP EDGE FOR REAR CROWN PANEL/HVAC DOOR	(B),Drip Edge along the bottom edge of the Rear Crown Panel/HVAC door to divert water entering the engine/propulsion compartment.
420-2D	UPPER CORNER PILLAR DOOR LATCHES	(B),Quarter turn chrome plate 5/16" square key latches.
421-01	INSULATION,SIDEWALL AND ROOF	(S),Polyisocyanurate foam. meets Docket 90 spec.
421-02	INSULATION,EXHAUST CAVITY	(B),Heat-resistant fiberglass mat.
421-03	PROPULSION COMPARTMENT INSULATION	(S),Noise reduction acoustical foam, retained by perforated aluminum panels.
422-02	CEILING PANELS AFT OF FRONT WHEELHOUSE INCLUDING REAR PLC	(B),Antique white plastic, SST trim.
422-03	CEILING / HVAC COVER PANELS ABOVE FRONT WHEELHOUSES	(B),Antique White fiberglass.
422-04	HVAC RETURN AIR GRILLE DOOR LOCK	(B),2 quad latches.
422-05	ENTRANCE / DRIVER'S AREA PANELS COLOUR	(B),black. Includes dash, dest sign c/out, ent. mech. box, driver's o/head panels. and if used, ent. floor heat duct, frt. RH harness cover is black powder coated alum.
422-06	DRIVER'S CEILING PANEL MATERIAL	(B),Melamine.
422-07	INTERIOR PIER PANEL MATERIAL	(B),Thermoplastic.
422-08	PIER PANEL COLOUR	(B),Antique white
422-0A	INTERIOR LOWER SIDEWALL MATERIAL	(B),Melamine
422-0C	INTERIOR SIDEWALL MELAMINE	(B),Charcoal Grey Gloss.
422-0D	INTERIOR PROPULSION COMPARTMENT ACCESS PANEL	(B),There is a single hinged panel under the rear seat.
422-0E	INTERIOR UPPER REAR PANEL	(A),Rear window.

Option#	Description	Tech Summary Description
422-0J	REAR WINDOW ENCLOSURE, INTERIOR	(A), Molded fiberglass gelcoated Antique white. Includes curb and street side access panels.
422-0M	HRNS/AIR LINE COVERS AT UPPER DECK	(B), Painted flat black.
422-0N	FRT DEST SIGN DOOR LATCHES	(B), Short wing quad latches.
422-0P	DRIVER'S OVERHEAD PANEL	(S), With locker.
422-0R	DRIVER'S LOCKER LATCH	(B), Short wing quad latch.
422-0T	DRIVER'S COAT HOOK AND STRAP	(B), Located on the forward face of the harness cover behind the driver.
422-0U	SECURE DIAGNOSTIC STATION	(A), Above street side front wheelhouse. Incorporates driver's barrier. With fiberglass, flat panel, instead of Take One pockets.
422-0V	SDS ENCLOSURE COLOUR	(B), Flat Black.
422-0W	SDS ENCLOSURE DOOR LATCHES	(A), Two 5/16" sq key quad latch, paddle latch (CH751 key) in center
422-13	FRONT SUNVISOR / ROLLERBLINDS	(A), Grey rollerblind. Scissor type with 20" travel.
422-14	SIDE SUNVISOR/ROLLERBLIND	(A), Grey rollerblind. Scissor type with 20" travel.
422-15	SQUARE KEY T-HANDLE	(A), Shipped loose T handle and clip.
422-16	ENTRANCE MECHANISM BOX DOOR LATCH	(B), Two short wing quad latches.
422-18	GRAB HANDLE NEAR FRONT ROOF HATCH	(B), Required.
422-19	FLOOR HEAT DUCT MATERIAL	(B), Leathergrain textured SST.
422-1A	ARTICULATED JOINT CLOSEOUTS	(B), Pretoria Grey.
422-1B	C/S, S/S REAR BULKHEAD ACCESS PANELS, OPENING METHOD	(B), Removable access panels.
422-1R	FRONT DASH, ACCESS PANEL LATCH	(B), Quarter turn, black powder coated 5/16" square key quad latches.
422-1W	INTERIOR UPPER REAR PANEL, TRIM OPTIONS	(B), Flat Trim Design
422-23	INTERIOR REAR PLC ENCLOSURE, LATCHES	(B), 5/16" square key quad latch.
423-0A	AD FRAME, SDS ENCLOSURE, VENDOR	(T), Customer supplied.
423-0C	AD FRAME, SDS ENCLOSURE, REAR	(T), One 19.5" x 25.5" powered ad display
450-02	FLOORING	(A), Lower deck uses SpaceAge composite flooring. Upper deck uses fiberglass composite for step and floor to the rear wheelhouses and SpaceAge composite flooring to the rear.
450-03	DRIVESHAFT / TRANSMISSION / DRIVE MOTOR ACCESS PANELS	(B), Two panels set in the floor, one to access the driveshaft and the other to access the transmission.
450-06	ALTRO FLOOR COVERING	(A), Storm TFM 27903 (2.7 mm / 0.11" thick), for aisle and underseats.
450-0A	STEP TO UPPER DECK	(B), Yellow anti-slip coating is applied to the edges and vertical faces of the step.
450-0B	FRONT AXLE STANDEE LINE	(A), One white flooring safety line provided fore of the hump at the front axle.
450-0C	ENTRANCE NOSING	(B), Nosing is 2" wide yellow anti-skid applied to the ramp.
450-0D	EXIT NOSING	(B), 2.5" yellow nosing for Altro / Tarabus flooring.
450-0F	REAR SEAT RISER COVERING MATERIAL	(B), Same material and colour as used for the flooring.

Option#	Description	Tech Summary Description
450-0G	GRIT FLOORING AT ARTIC JOINT	(A),Black non-aggregate anti-slip coating.
450-0H	CTR AXLE HUMP SAFETY LINES	(T),two 3" white flooring safety lines are provided fore and aft of the hump at the centre axle.
450-0J	DRIVER'S PLATFORM FLOORING	(A),Altro, Storm TFM 27903 (2.7 mm / 0.11" thick)
450-0K	DRIVER'S PLATFORM TRIM	(B),SST.
450-0M	OUTER WHEELHOUSES	(B),SST front and rear.
450-0N	INTERIOR FRONT W/HOUSE (LUGG RACK) COLOURS	(A),Black FMJ. An LED aisle light is provided on the streetside. Also, SST scuff guards are provided.
450-0T	TRIM UPPER DECK	(B),Aluminum.
450-0W	ARTIC JOINT FLOOR SUPPORT	(B),Gussets to be riveted to structure.
450-13	INTERIOR FRONT W/HOUSE (LUGG RACK), SCUFF GUARDS	(B),Standard height scuff guard
450-14	EXIT DOOR, WHEELHOUSE AND UPPER DECK TRIM, MATERIAL	(B),Aluminum Trim
460-01	WINDSHIELDS	(B),72% light transmittance green laminated. With blue shade band for street and curb sides.
460-02	WINDSHIELD PROTECTIVE FILM	(B),Required for coach delivery beyond a 500 mile radius of final assembly.
460-04	PASS / DRVR'S WINDOWS MANUFACTURER	(A),Arow Global flush mounted.
460-05	FLUSH PASSENGER WINDOWS	(A),Bottom is fixed, top tip-in.
460-07	SDS WINDOW	(B),Full fixed picture window. Glazing matches passenger window, fully masked on interior side.
460-08	FLUSH WINDOW GLAZING	(A),Grey, 44% light transmittance, tempered.
460-0A	FLUSH WINDOW LOCKS	(A),Locking set-screw.
460-0C	WINDOW FRAME COLOUR	(B),All window frames are black anodized.
460-0D	WINDOW EMERGENCY EGRESS	(B),Minimum quantity based on FMVSS requirements, local, state/provincial, federal regulations or customer spec whichever is greater.
460-0E	SIDE DESTINATION SIGN WINDOWS	(B),Curbside. Fixed clear top and fixed bottom. Bottom matches passenger window glazing. (review 470 for side sign details).
460-0F	REAR WINDOW	(A),Fixed. Glazing to match side windows.
460-0G	WINDOW GLAZING REPLACEMENT	(A),Basic replacement.
460-0J	PASS WINDOW THICKNESS	(B),6 mm
460-0K	DRIVER'S WINDOW,FLUSH	(A),With dual sliding sashes, exterior and interior handles (handle style). Non-egress.
460-0P	DRIVER'S WINDOW GLAZING	(A),Tempered with minimum 70% light transmittance.
470-01	DESTINATION SIGNS MFR	(A),Twin Vision Smart Series, LED display system.
470-02	DEST SIGN CONTROL UNIT LOCATION	(B),Under driver's overhead panel, at forward position of sawtooth panel.
470-05	TWIN VISION FRT.DEST.SIGNS	(B),Smart Series 3, LED amber, 16 x 160.
470-07	FRONT DESTINATION SIGN GLASS	(B),Laminated.
470-0A	CURB SIDE DESTINATION SIGN LOCATION	(A),At the second window, aft of the entrance door.
470-0C	TWIN VISION CURBSIDE DEST.SIGNS	(A),Smart Series 3, LED, amber, 14 x 112 (42.25" wide display).

Option#	Description	Tech Summary Description
470-0F	CURBSIDE DEST SIGN LOCATION, 60'REAR UNIT, FORE OF EXIT	(A),Required, at first window after artic joint.
470-0H	REAR ROUTE SIGN,LOCATION	(B),At the upper curbside.
470-0K	TWIN VISION REAR ROUTE SIGNS	(A),Smart Series 3, LED, amber 16 X 48.
470-0P	AVA / AVL SYSTEM	(A),INIT system.
470-10	AVA/AVL LED SIGN LOCATION	(A),Required on both the front and rear HVAC overhead enclosures.
470-11	AUTO VEHICLE MONITORING SYSTEM (AVM)	(A),Fuel Master
470-13	AVM, FUEL MANAGEMENT LOCATION	(T),Module located at second curbside destination sign (RH side), fore of the rear exit door, powered by 24V battery.
470-16	NEW FLYER CONNECT-DIAGNOSTIC & MONITORING SYSTEM	(B),Diagnostic & Monitoring - NFIL interface wiring provisions.
470-1P	AVA/AVL LED SIGN	(A),Init PIDMOBILE3 LED Display sign, 8x96 pixel, 16 characters. Supplied by Init. Cutout Size 28.97" X 2.56".
480-02	EXTERIOR MIRROR MANUFACTURER	(B),Hadley.
480-03	EXTERIOR SS MIRROR GLASS STYLE	(B),2/1 (upper portion is flat, lower portion is convex).
480-04	EXTERIOR SS MIRROR GLASS SIZE	(B),8" x 15"
480-05	EXTERIOR SS MIRROR HEATING REQUIREMENTS	(A),Heated.
480-06	EXTERIOR SS MIRROR POWER OPTIONS	(A),Dual remote control. (The upper and lower portions are remote controlled.)
480-08	EXTERIOR SS MIRROR ARM FUNCTIONALITY	(B),Pull back. Mirror arm is manually returned to its previously set position after deflection.
480-09	STREET SIDE MIRROR MOUNT	(B),Low mount.
480-0E	EXTERIOR CS MIRROR GLASS STYLE	(B),2/1 (upper portion is flat, lower portion is convex)
480-0F	EXTERIOR CS MIRROR GLASS SIZE	(A),9" x 13"
480-0G	EXTERIOR CS MIRROR HEATING REQUIREMENTS	(A),Heated.
480-0H	CURB SIDE MIRROR POWER OPTIONS	(B),Dual remote control. (The upper and lower portions are remote controlled.)
480-0K	EXTERIOR CS MIRROR ARM FUNCTIONALITY	(B),Pull back. Mirror arm is manually returned to its previously set position after deflection.
480-0V	STREET / CURB SIDE MIRROR W/TURN SIGNAL	(A),LED, mounted at back of mirror head.



Option#	Description	Tech Summary Description
480-11	STREET / CURB SIDE HEATED MIRROR ACTIVATION	(A),Heat for mirrors turned on when the defroster is turned on.
480-13	DRIVER'S REAR VIEW MIRROR	(A),8" x 15", black, flat.
480-14	SPOT MIRROR	(B),6" diameter flat mirror with short arm, located at curbside front.
480-15	EXIT DOOR MIRROR	(B),convex, 12" diameter, mounted on curved modesty panel stanchion.
480-26	STREET/ CURB SIDE MIRROR ARM MATERIAL	(B),Carbon steel
490-01	ENT DOOR DRIVE SYS	(B),Electric
490-02	ENTRANCE DOOR	(B),Vapor slide glide.
490-03	ENTR DOOR LIMIT SWITCH SET-UP	(B),Solid state proximity switch.
490-04	ENTRANCE EMERGENCY RELEASE VALVE	(B),Within mech box.
490-05	ENTRANCE DOOR MAGNETIC DUMP VALVE	(B),Required, located at baseplate.
490-07	ENTR/EXIT FRANG.COVER,LANGUAGE	(A),English, Spanish, Simplified Chinese.
490-09	ENTRANCE DOOR COLOUR, INTERIOR	(S),Black
490-0B	ENTRANCE DOOR HANDLES	(B),Yellow powder coated.
490-0K	ENTRANCE DOOR GLAZING	(B),Full length single piece, 72% green.
490-0V	ENTR/EXIT FRANG.COVER	(S),Perforated cover
490-0W	ENT AND EXIT DOORS, INTERIOR AND EXTERIOR PANEL COLOR	(B),Black Powder Coat



Option#	Description	Tech Summary Description
491-01	EXIT DOOR DRIVE SYS	(B),Electric with pneumatic emergency release.
491-02	EXIT DOOR	(B),2 curbside exit doors, one each at front and rear units. Wide Ameriview Vapor Slide Glide, 45.2" between panels.
491-03	SLIDE GLIDE EXIT LIMIT SWITCH	(B),Solid state proximity switch.
491-04	EXIT DOOR CONTROL	(A),Vapor Class Acoustic Sensing System. Activates door opening and detects obstruction on closing.
491-0D	EXIT DOOR SENSITIVE EDGE	(B),Pnumatic sensitive vertical edge sensor provided at all exit doors.
491-0H	EXIT FRANGIBLE COVER SECUREMENT	(B),Magnetic latch.
491-0M	EXIT DOOR ASSIST HANDLES	(B),Yellow powdercoated, UPA-3 Aluminum
491-0P	EXIT DOOR GREEN LIGHT	(B),LED green light indicates that the exit door is set to open.
491-0T	EXIT DOOR ALARM	(B),Buzzer and red 'rear door open' indicator at the instrument panel activated when the sensitive edge is triggered.
491-0U	EXIT DOOR GLASS SIZE	(B),Full length.
491-0V	EXIT DOOR GLAZING	(A),6 mm, Green, 72% light transmittance, laminated.
491-12	EXIT DOOR GREEN LIGHT MOUNTING ORIENTATION	(B),Exit door green light mounted horizontally on baseplate
526-03	60' PASSENGER SEAT QUANTITY	(A),42
526-04	PASSENGER SEAT MANUFACTURER	(A),United State Seating
526-05	USS PASSENGER SEAT MODEL	(A),Gemini seats.
526-09	REAR BENCH SEAT	(B),1-3-1 hinged seat.
526-0A	PASSENGER SEAT MOUNTING	(B),Cantilever.
526-0B	SEAT MOUNTED GRABRAIL	(A),Thermoplastic.
526-0C	FIRST SEAT,CURBSIDE UPPER REAR	(B),Forward facing.
526-0D	FIRST SEAT,STREETSIDE UPPER REAR	(B),Forward facing.
526-0F	PASSENGER SEATING BARRIER	(A),Integrated with restraint system.
526-0G	SEAT POSITION,FORWARD OF REAR EXIT	(B),Forward facing.
526-0J	SEAT FWD OF ARTIC JOINT AREA	(A),Two rearward facing on each side.
526-0N	SEAT AFT OF ARTIC JOINT AREA	(A),CS 2 passenger forward facing seats.
526-0U	RECARO DRIVER'S SEAT MODEL	(B),Ergo AM80
526-0W	DRIVER'S SEAT COVER	(B),All vinyl.
526-0Y	DRIVER'S SEAT BELT	(A),Lap belt with retractor on left hand side.
526-10	DRIVER'S SEAT BELT COLOR	(B),Black
526-14	DRIVER'S SEAT BASE RISER MATERIAL	(B),Black powdercoated steel.
526-18	WHEELCHAIR POSITIONS, QUANTITY	(B),Two. At basic locations, one aft of the curbside and one aft of the streetside front wheelhouses.
526-19	CS WHEELCHAIR RESTRAINT SYSTEM	(A),Q'POD forward facing barrier with integrated wheelchair restraint.
526-1A	SS WHEELCHAIR RESTRAINT SYSTEM	(A),Q'POD forward facing barrier with integrated wheelchair restraint.
526-1D	SHOULDER HARNESS,W/CHR RESTRAINTS	(A),Integrated with Q-Pod restraint system.

Option#	Description	Tech Summary Description
526-1F	STANCHION / GRABRAIL STYLE	(B),Curved style vertical stanchions. Using cast SST fittings for vertical and horizontal stanchions.
526-1G	OVERHEAD HORIZONTAL GRABRAILS	(B),SST.
526-1H	OVERHEAD GRABRAIL HANDHOLD STRAPS	(A),Flexible grey PVC straps, secured to horizontal stanchions, locations as per customer spec.
526-1J	OVERHEAD GRABRAIL HANDHOLD STRAPS,QUANTITY	(A),Twelve
526-1K	COLOR - STANCHIONS AT EXITS & RR RISER STEP	(B),Yellow SST.
526-1M	VERT FORE OF S/S FRT W/HOUSE	(B),Black SST.
526-1N	VERT AFT OF S/S FRT W/HOUSE	(T),black SST.
526-1P	VERT FORE OF C/S FRT W/HOUSE	(A),SST.
526-1R	VERT AFT OF C/S FRT W/HOUSE	(B),To match colour of vertical seat stanchions (see option 526-1T).
526-1T	VERTICAL STANCHIONS AT SEATS - COLOR	(B),SST.
526-1U	CENTERED STANCHION FOR WIDE EXITS	(A),Yellow SST.
526-1W	GRABRAILS AT WHEELCHAIR POSITIONS	(A),SST, under flip-up seats (type and locations as per customer spec).
526-1Z	ARTIC JOINT HANDHOLD / GRABRAILS	(B),Center hoop mounted grabrails.
526-20	ARTIC JOINT GRABRAIL COLOUR	(A),Yellow SST.
526-22	FRONT CURBSIDE LUGGAGE RACK	(B),Horizontal tube wraps around aft, aisle and fore sides.
526-23	FAREBOX GRABRAIL STYLE	(B),Basic SST grab rail.
526-26	MODESTY PANEL MELAMINE COLOR	(B),Charcoal Grey Gloss
526-27	C/SIDE FORE UPR DECK MOD PNL, GAP	(B),Approximately 2" diagonally.
526-29	BARRIER AT STREET SIDE REAR RISER	(T),Modesty panel (material and color per 526-1Z/526-20). Includes additional modesty panel barrier fwd of the steetside of the upper deck, and streetside wall mounted grabrail.
526-2A	BARRIER FWD OF JOINT	(A),Modesty panels at forward closeouts of articulated joint. Stanchion color to match vertical stanchions at seats (526-1T). Modesty panel material & color per 526-25/526-26.
526-2B	BARRIER REAR BENCH SEATS	(A),Single stanchion bar. Stanchion color to match vertical stanchions at seats (526-1T).
526-2M	BARRIER FWD OF EXIT(S)	(T),upper panel, 0.5" clear polycarbonate, basic width. . Includes floor heater guard stanchion fwd of center exit door.
526-2R	BARRIER REAR OF JOINT	(B),Padded stanchions at aft closeouts of articulated joint. Stanchion color to match vertical stanchions at seats (526-1T). Padding color is black.
526-2T	EMERGENCY INSTRUCTIONS	(T),English / Spanish / Mandarin.
526-2Y	CTR AXLE BARRIER	(B),Modesty panel both at curbside and streetside. Material & color per 526-1Z/526-20. Stanchion color per 526-1T.
526-32	DRIVER'S SEAT, FORE/AFT SEAT TRAVEL	(A),The fore / aft seat travel is 11".
526-37	FRONT CURBSIDE LUGGAGE RACK COLOR	(A),Black
526-3B	FAREBOX GRABRAIL COLOR	(A),Black

Option#	Description	Tech Summary Description
526-3V	SEAT FWD OF REAR BENCH SEAT	(A),Aisle facing.
549-02	HVAC UNIT 1	(B),Thermo King RLFE rooftop A/C unit. Safe-T-Walk is provided for rooftop units.
549-03	HVAC UNIT 2	(B),Thermo King RLFE partial rooftop A/C unit. Safe-T-Walk is provided for rooftop units.
549-04	HVAC UNIT MOTOR TYPE	(S),Brushless motor for primary heating & cooling system.
549-05	REFRIGERANT	(B),R-407C freon.
549-06	HVAC AIR INTAKE	(B),Recirculated air only.
549-07	HVAC RETURN AIR FILTER	(A),TK Dacron MERV 7 (disposable) filter.
549-0A	HVAC PULLDOWN SPEC	(A),Will meet the APTA 115F TO 95F Pull Down, 20 minute time limit test requirements and any less stringent test requirement inside the temperature range. (ex. 110F to 95F in 20 minutes or 115F to 95F in 30 minutes)
549-0C	HVAC SYSTEM VALVES	(S),Brass ball valves with basic handles.
549-0D	A/C AND HEATER LINE CLAMPS	(B),Ideal.
549-0E	A/C COMPRESSOR	(S),Electric driven compressors integrated into the main HVAC unit.
549-0J	HVAC ELECTRONICS	(B),Thermo King Intelligaire 3, valid for A/C or heater units. With limited diagnostic capabilities.
549-0K	HVAC CONTROL PANELS	(A),Thermo King, installed in sawtooth panel above driver.
549-0N	A/C PRESSURE READINGS	(B),Obtained via the Thermo King Intelligaire 3 control panel.
549-15	HVAC FAN SPEED SWITCH	(A),Required at the side console.
549-16	BOOSTER PUMP	(B),Valeo SPump 500W CAN capable.
549-1A	DEFROSTER	(A),Grayson 3 speed brushless blower, electrically controlled damper, with SST box.
549-1D	HVAC HOSE PROTECTIVE SLEEVES	(T),Protective sleeves on HVAC hoses routed through the artic joint.
549-1E	AUXILIARY/CABIN HEATER	(B),Valeo Thermo DC 200 (20 kw) @ 690V electric heater.
549-20	FRONT CURB SIDE FLOOR HEATER SYSTEM	(A),Grayson Thermal Systems unit, with brushless motor. The casing is SST with brushed finish. (note: exact position may be dependant on seating layout.)
549-21	REAR CURB SIDE FLOOR HEATER SYSTEM	(A),Grayson Thermal Systems unit, with brushless motor. The casing is SST with brushed finish. (note: exact position may be dependant on seating layout.)
549-23	REAR STREET SIDE FLOOR HEATER SYSTEM	(A),Grayson Thermal Systems unit, with brushless motor. The casing is SST with brushed finish. (note: exact position may be dependant on seating layout.)
580-01	FRONT WHEELCHAIR RAMP	(A),NFIL electric SmartRider Ramp at front door. 32" wide, with constant slope boarding and 1:6 slope capability. Use with SmartRider Plus suspension.
580-02	FRONT RAMP CONTROL	(B),Ramp switch at driver's instrument panel.
580-08	WHEELCHAIR RAMP,SURFACE	(B),Covered with Full Metal Jacket anti-skid treatment. The leading edge is yellow FMJ, the side flanges are painted yellow.
580-0G	KNEELING/RAMP DEPLOYMENT WARNING BEEPER	(B),IP68-rated beeper, medium loud fast beep.
580-0H	FRONT KNEELING/RAMP DEPLOYMENT WARNING BEEPER LOCATION	(B),Curbside under front mask.
600-05	BACK-UP ALARM	(B),Basic alarm located on curbside.
600-06	BACK-UP ALARM SOUND LEVEL	(B),107 dBA.
600-0C	INTERIOR FAN(S),MANUFACTURER	(A),Bergstrom, 12 volt.
600-0E	DASH FANS,QTY AND LOCATION	(A),One fan, 3.5" right of center
600-0G	FAN UNDER FRT DEST SIGN COMPT	(A),At approx. 41.25" to the left of center.
600-0J	SDS TRAY QUANTITY	(A),Three trays total.

Option#	Description	Tech Summary Description
600-0M	FAREBOX PEDESTAL	(B),Stainless Steel Material. Length = 26.56"; Front fore length = 12.36"; Width = 13.96"; Height = 6"
600-0N	FAREBOX	(A),Genfare Transview 150.
600-0P	FAREBOX,SUPPLIED BY	(A),Supplied and installed by customer.
600-0R	FAREBOX POSITION / HOLES	(A),Located in NFIL preferred position whether installed by NFIL or by customer.
600-0T	FAREBOX GROUND STRAP	(A),Required, farebox grounded to chassis, ground strap inside pedestal.
600-1B	NAME PLATE HOLDER	(A),Required.
600-1F	DRIVER'S STORAGE BOX BEHIND SEAT	(A),Basic box with paddle latch, no key.
600-1M	TAKE ONES,CURBSIDE LUGG.RK.	(T),Schedule holder, mounted on curbside front wheelhouse. Customer supplied.
600-1R	REGISTR/MAINT HOLDER	(A),One 9.5" X 6" polycarbonate registration holder.
600-22	DRIVER'S TICKET BOX/TRANSFER CARD HOLDER	(T),Required, details and location as per customer spec. Customer supplied.
600-23	COFFEE CUP HOLDER/TRAY	(T),Customer supplied.
600-24	TRASH CONTAINERS	(A),Require with mounting hardware only and or shipped loose.
600-26	RADIO,COMMUNICATION SYSTEM	(A),Included in the AVA/AVL system.
600-29	TRAFFIC SIGNAL CONTROL SYSTEM	(A),GTT. Model 2101 computer connected to GPS based system required.
600-2G	VIDEO SURVEILLANCE SYSTEM	(A),Interior and exterior cameras.
600-2H	VIDEO SURVEILLANCE SYSTEM,MFR	(A),SafeFleet (MobileView).
600-2Z	NFIL FIRE DETECTORS, LOCATION	(T),Located in the engine compartment, and muffler compartment.
600-3V	BICYCLE RACK MANUFACTURER/MODEL	(A),Sportworks,APEX2, front mounted.
600-3W	BICYCLE RACK MOUNTING	(A),Bolted slide-in standoff
600-3Y	BICYCLE RACK REMOVAL	(A),Quick release rack.
600-3Z	BICYCLE RK MATL/COLOR	(A),SST, satin anti glare finish.
600-42	BICYCLE RACK INSTRUCTIONS	(A),English / Spanish / Simplified Chinese
600-4Y	PASSENGER USB CHARGERS	(A),Required.
600-4Z	PASSENGER USB CHARGER LOCATION	(A),Incorporated (where available) into seats.
600-54	A-PILLAR CAMERA & MONITOR	(A),SafeFleet camera and monitor located on driver's A-Pillar. Provisions, includes installation of cabling and mounting plates.
600-5A	AUTOMATIC PASSENGER COUNTER SYSTEM	(A),Full system.
600-5B	AUTOMATIC PASSENGER COUNTER	(A),IRIS/IRMA (stand-alone system)
600-5K	AUTOMATIC PASSENGER COUNTER (APC) EXIT DOOR BASEPLATE SENSOR, QTY	(A),One
600-5M	IRIS/IRMA AUTOMATIC PASSENGER COUNTER (APC) MODEL	(A),Matrix.
600-64	NAME PLATE HOLDER MANUFACTURER	(T),Customer supplied.

Option#	Description	Tech Summary Description
600-65	NAME PLATE HOLDER LOCATION	(A),Left of center of the destination sign door.
600-67	REGISTR/MAINT HOLDER LOCATION	(A),Mounted on street side of SDS enclosure behind driver
600-68	TRASH CONTAINERS LOCATION	(A),Front of C/S luggage rack, inside rack
600-6B	GROUND STRAP #1 LOCATION	(A),Front of coach, centered on splash guard
600-6F	FAREBOX PEDESTAL TREATMENT	(B),Black full metal jacket
600-6H	FAREBOX ORIENTATION	(B),Facing entrance door
600-6R	COFFEE CUP HOLDER/TRAY LOCATION	(T),At MDT mount.
600-71	TAKE ONES, CURBSIDE LUGG.RK, HOLDER SIZE	(T),5x10x9.
600-77	DASH FANS, SWITCH LOCATION	(B),At Side Console
600-79	FAN UNDER FRT DEST SIGN COMPT, SWITCH LOCATION	(B),At Side Console



To: Karl Gnadt, Managing Director/CEO  
From: Ashlee McLaughlin, External Affairs Director  
Date: December 7, 2022  
Subject: Approval of Cooperative Purchasing Agreement and Bus Procurement Purchase Order

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- A. Introduction:** The District will utilize Federal Community Project Funding (known as “earmarks”), Federal Coronavirus Response and Relief Supplemental Appropriations Act (CRRSAA) funds, and local funds to purchase ten zero-emission 40-foot hydrogen fuel cell electric buses to replace ten 12-year-old 40-foot diesel electric hybrid buses.
- B. Recommended Actions:**
1. Staff recommends authorization of the Managing Director to enter into a Cooperative Purchasing Agreement with the Washington State Department of Enterprise Services.
  2. Staff recommends authorization of the Managing Director to issue a purchase order to New Flyer in the amount of \$12,959,080 for ten 40-foot hydrogen fuel cell electric buses.
- C. Prior Trustee Action:** On April 27, 2022, the Board of Trustees provided approval for the MTD Zero Emission Transition Plan which includes adding ten more hydrogen fuel cell vehicles to MTD’s fleet by 2024.
- D. Summary:** MTD does not currently have a purchasing contract in place to purchase hydrogen fuel cell buses. The Washington State Department of Enterprise Services (DES) has developed a cooperative purchasing contract in compliance with Federal requirements in which they have contracted with vendors to provide transit buses and related equipment to multiple participants, including transit organizations from other states. Staff have been in contact with other Illinois transit agencies that have purchased buses off of this contract. Entering into a Cooperative Purchasing Agreement (Exhibit A) with Washington State allows the District to purchase ten hydrogen fuel cell buses from New Flyer in 2023. The 40-foot buses are \$1,295,908 each, totaling \$12,959,080 for ten buses.
- E. Background:** With the implementation of the first two zero-emission fuel cell buses in 2021, MTD has the hydrogen production and fueling infrastructure in place to add ten more. The Maintenance Facility was retrofitted to accommodate storage and maintenance of fuel cell buses and the first phase of the hydrogen station (and the accompanying solar array) is currently serving the first two hydrogen fuel cell buses but has the capacity to accommodate 12 to 15. MTD’s Climate Action Plan includes a target to make 20 percent of MTD’s fleet zero-emission by 2030. Ten additional zero-emission buses would bring that percentage up to ten percent.

State and Federal agencies have also demonstrated increasing support for zero-emission vehicles. On October 21, 2022, Senator Durbin announced \$8,250,000 in Community Project Funding (CPF) to support electric vehicles and supporting infrastructure in Illinois. Of the \$8,250,000, \$3,785,080 was allocated to MTD to support the purchase of hybrid electric buses and/or hydrogen fuel cell buses. Staff propose using the total amount allocated to the District toward the purchase of ten new hydrogen fuel cell buses to replace ten 40-foot diesel electric hybrid buses that were purchased in 2011. The federally defined useful life of a 40-foot bus is 12 years or 500,000 miles.

**Alternatives – advantages/disadvantages**

1. Authorizing the Managing Director to enter into a Cooperative Purchasing Agreement with Washington State complies with Federal procurement requirements and secures a competitive price for the District.
2. Authorizing the Managing Director to issue a purchase order allows replacement of aged hybrid buses with zero-emission hydrogen fuel cell buses.
3. Not authorizing the Managing Director to issue a purchase order would result in the inability to utilize the Washington State contract and purchase new zero emission buses.

**F. Budget & Staffing Impacts:** This project is included in the FY 2023 budget. The District will utilize \$3,785,080 in Federal Community Project Funding, \$8,051,564 in Federal CRRSAA funds, and the remaining \$1,122,436 in local funds.



## **COOPERATIVE PURCHASING AGREEMENT**

**FOR**

**TRANSIT BUSES**

**MASTER CONTRACT NO. 06719**

This Cooperative Purchasing Agreement for Transit Buses ("Agreement") is made and entered into by and between the State of Washington acting by and through the Department of Enterprise Services, a Washington State governmental agency ("Enterprise Services") and the Champaign-Urbana Mass Transit District, a \_\_\_\_\_ ("Authorized Purchasing Entity") and is dated and effective as of \_\_\_\_\_, 2022.

### **RECITALS**

- A. Pursuant to Legislative authorization, Enterprise Services, on behalf of the State of Washington, is authorized to develop, solicit, and establish master contracts for goods and/or services to support Washington state agencies. See RCW 39.26.050(1). The Washington State Legislature also has authorized Enterprise Services to make these master contracts available, pursuant to an agreement in which Enterprise Services ensures full cost recovery, to other local or federal government agencies or entities, public benefit nonprofit organizations, and any tribes located in the State of Washington. See RCW 39.26.050(1) & (2).
- B. In addition, Enterprise Services is authorized "to participate in, sponsor, conduct, or administer a cooperative purchasing agreement." See RCW 39.26.060(1).
- C. Master Contract Cooperative Purchasing Agreements provide an opportunity for Enterprise Services to meet the needs of its customers and, by designing and developing the Competitive Solicitation and resulting Master Contract to include the opportunity for cooperative utilization by Authorized Purchasing Entities through a Cooperative Purchasing Agreement, to meet the needs of similarly situated purchasing entities who collectively enable an innovative, cost-effective, and efficient procurement solution for awarded contractors and eligible purchasers.
- D. The above-referenced Master Contract was competitively bid, evaluated, and awarded pursuant to the State of Washington's procurement laws for goods/services. See RCW 39.26. The procurement and resulting Master Contracts were designed to create competition and awarded contractors for a variety of Transit Buses (contract categories).
- E. The above-referenced Master Contract was designed to and meets Federal Transit Administration ("FTA") requirements for a State Cooperative Purchasing Contract under the FAST Act Sec. 3019. See Pub.L. 114-94.
- F. There are no pending protests or lawsuits pertaining to the procurement or award of the Master Contract.



- G. Enterprise Services maintains procurement and contract records pertaining to the Master Contract including the Competitive Solicitation, Bid Tab, Bidder Profiles, and resulting Master Contracts. In addition, Enterprise Services Transit Buses website identifies the various awarded contractors.
- H. The purpose of this Agreement is to enable the Authorized Purchasing Entity to utilize the above referenced Master Contract consistent with the terms thereof and the terms and conditions set forth herein.

## A G R E E M E N T

**NOW THEREFORE**, in consideration of the mutual promises, covenants, and conditions set forth herein, the parties hereto hereby agree as follows:

1. **TERM.** Upon execution, this Cooperative Purchasing Agreement shall continue for the term of the applicable Master Contract, as amended or extended; *Provided*, however, that, upon written notice to Enterprise Services, Purchasing Entity may terminate its participation in this Cooperative Purchasing Agreement and its ability to utilize the above-referenced Master Contract.
2. **AUTHORIZATION TO UTILIZE THE MASTER CONTRACT.** Consistent with the terms and conditions of the Master Contract and Purchasing Entity's applicable procurement law, Purchasing Entity is authorized to utilize the above-referenced Master Contract as a procurement solution. The State of Washington makes no representation or warranty regarding Purchasing Entity's governing law or whether the Master Contract is an appropriate procurement solution for Purchasing Entity.
3. **CONTRACTOR CONSENT.** Consistent with its applicable procurement authority, Purchasing Entity may propose and negotiate jurisdiction-specific terms with the applicable awarded Contractor to meet Purchasing Entity's needs; *Provided*, however, that any such jurisdiction-specific modifications are subject to agreement with the applicable awarded Contractor. **Under no circumstances, however, will Purchasing Entity's jurisdiction-specific modifications change or modify the Master Contract obligations between the State of Washington and the applicable awarded Contractor.** Upon execution of Purchasing Entity's agreement with the applicable awarded Contractor, Purchasing Entity shall provide a copy of the same to Enterprise Services prior to making any purchases under the Master Contract.
4. **VENDOR MANAGEMENT FEE.** The Vendor Management Fee set forth in the Master Contract shall be paid by the applicable Contractor to Enterprise Services on all applicable purchases. In no event shall Purchasing Entity modify, waive, or terminate the Vendor Management Fee. Any such modification, waiver, or termination of the Vendor Management Fee shall be deemed a material breach of this Agreement and shall terminate the Agreement; and, in the event Purchasing Entity attempts to modify, waive, or terminate the Vendor Management Fee, Purchasing Entity shall, by such act, agree to notify Enterprise Services of the same and to pay to Enterprise Services, within thirty (30) days, the equivalent of the otherwise applicable Vendor Management Fee.
5. **ACCURATE PURCHASES.** Purchasing Entity shall make orders within the scope of the Master Contract. Any purchases outside of the scope of the Master Contract shall constitute a breach of this Agreement. IN the event of such breach, Enterprise Services may terminate this Agreement, including the authorization for any purchases by Purchasing Entity under the Master Contract. Purchasing Entity represents and warrants that it shall use reasonable, good faith efforts to assist the Contractor

in obtaining and reporting to Enterprise Services accurate purchases under the Master Contract for purposes of the applicable Vendor Management Fee.

6. AGREEMENT MANAGEMENT; NOTICES; PURCHASING ENTITY CONTRACT ADMINISTRATOR.

- (a) AGREEMENT MANAGEMENT; NOTICES. The parties hereby designate the following contacts as the respective single points of contact for purposes of this Agreement. The parties may change such individuals by written notice as set forth below. Any notices required or desired shall be in writing and sent by U.S. mail, postage prepaid, or sent via email, and shall be sent to the respective addressee at the respective address or email address set forth below or to such other address or email address as the parties may specify in writing:

Enterprise Services	Champaign-Urbana Mass Transit District
Attn: Bus Purchases	Attn: Karl Gnadt
Department of Enterprise Services	Champaign-Urbana Mass Transit District
PO Box 41411	1101 East University Avenue
Olympia, WA 98504-1411	Urbana, IL 61802
Email: buspurchases@des.wa.gov	Tel: (217) 384-8188
	Email: kgnadt@mtd.org

Notices shall be deemed effective upon the earlier of receipt, if mailed, or, if emailed, upon transmission to the designated email address of said addressee.

- (b) PURCHASING ENTITY INFORMATION. Purchasing Entity hereby designates the following contract administrator as the single point of contact for business activities under this Agreement.

Purchasing Entity Information	
Organization Name	Champaign-Urbana Mass Transit District
Tax Identification Number	
State Business Identification Number (Required for Non-Profit entities)	
Contact Name for Contract Administrator	Ashlee McLaughlin
Title	External Affairs Director
Address	1101 East University Avenue
City, State, Zip	Urbana, IL, 81802
Phone Number	(217) 384-8188
Email Address	amclaughlin@mtd.org

7. COMMUNICATION. In the event Purchasing Entity becomes aware of a significant contract performance issue pertaining to the Master Contract that, in Purchasing Entity's reasonable judgment, could adversely impact the State of Washington, Purchasing Entity shall communicate the same to Enterprise Services.
8. CONTRACTOR DISPUTES. Purchasing Entity is responsible for resolving any disputes between itself and the applicable Master Contract Contractor regarding its purchases. Purchasing Entity shall notify Enterprise Services of any material dispute between Purchasing Entity and the applicable Master

Contract Contractor. When appropriate, Enterprise Services may assist Purchasing Entity in resolving such disputes.

9. NO LIABILITY. Other than those obligations expressly set forth in this Agreement, including the right of the State of Washington to the Vendor Management Fee, the parties shall have no liability whatsoever to each other with regard to transactions arising out of this Agreement or the Master Contract.
10. TAXES/FEES. Unless otherwise agreed with Contractor, Purchasing Entity shall pay applicable sales and use taxes imposed by the tax jurisdictions in which purchase delivery occurs. Contractor agrees not make any charge for federal excise taxes and Purchasing Entity shall furnish Contractor with an exemption certificate where appropriate.
11. SCOPE OF PARTICIPATION. Purchasing Entity shall provide Enterprise Services with Purchasing Entity's estimates for purchases under the Master Contract. Purchasing Entity shall provide timely updates regarding such estimated purchases if there is a material change in such planned purchases. The purchasing estimates are for Enterprise Services' planning purposes in managing and approving purchases on the Master Contract.

Category	Estimated Purchases
Heavy Duty	10 Hydrogen Fuel Cell
Light/Medium Duty	
Double Decker	
Rebuilt	
Refurbish	
Repower	

12. APPROVAL PROCESS. Purchasing Entity shall submit purchase information to Enterprise Services for approval of purchases under the Master Contract. Purchasing Entity shall provide necessary purchase information for each purchase including but not limited to, the final purchase order, the use of FTA funding, FTA grant number, and applicable Department of Transportation contact for approval. Enterprise Services shall include the respective state Department of Transportation for purchasing using FTA funds which require state DOT approval.

### 13. GENERAL PROVISIONS

- (a) ENTIRE AGREEMENT. This Agreement constitutes the entire agreement and understanding of the parties with respect to the subject matter and supersedes all prior negotiations and representations. There are no representations or understandings of any kind not set forth herein.
- (b) AMENDMENT OR MODIFICATION. Except as set forth herein, this Agreement may not be amended or modified except in writing signed by a duly authorized representative of each party.
- (c) AUTHORITY. Each party to this Agreement, and each individual signing on behalf of each party, hereby represents and warrants to the other that it has full power and authority to enter into this Agreement and that its execution, delivery, and performance of this Agreement has been fully authorized and approved, and that no further approvals or consents are required to bind such party.

- (d) **ELECTRONIC SIGNATURES.** An electronic signature or electronic record of this Agreement or any other ancillary agreement shall be deemed to have the same legal effect as delivery of an original executed copy of this Agreement or such other ancillary agreement for all purposes.
- (e) **COUNTERPARTS.** This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, and all of which counterparts together shall constitute the same instrument which may be sufficiently evidenced by one counterpart. Execution of this Agreement at different times and places by the parties shall not affect the validity thereof so long as all the parties hereto execute a counterpart of this Agreement.

**EXECUTED** as of the date and year first above written.

**TRANSIT BUSES COOPERATIVE**  
**STATE OF WASHINGTON**  
**DEPARTMENT OF ENTERPRISE SERVICES**

**AUTHORIZED PURCHASING ENTITY**  
**CHAMPAIGN-URBANA MASS TRANSIT DISTRICT**

By: \_\_\_\_\_

Name:

Title: \_\_\_\_\_

By: \_\_\_\_\_

Name: Karl P. Gnadt

Title: Managing Director/CEO

Return this Agreement to Enterprise Services at:  
buspurchases@des.wa.gov



**Champaign-Urbana  
Mass Transit District**

**Bid Price Proposal for ten [10]  
40' Heavy Duty  
Hydrogen Fuel Cell Buses**

## **Proposal Table of Contents**

**Tab 1, Letter of Transmittal**

**Tab 2, New Flyer's Xcelsior CHARGE FC™**

**Tab 3, Warranty**

**Tab 4, Publications**

**Tab 5, Training**

**Tab 6, Tools & Diagnostic Equipment**

**Tab 7, Technical Summary**

**Tab 8, Delivery Schedule**

## **Tab 1, Letter of Transmittal**

### **Solicitation Requirements:**

N/A

### **New Flyer Response:**

Please see attached our **Letter of Transmittal** to Champaign Urbana Mass Transit District.

Please indicate your acceptance by providing a Purchase Order to New Flyer, attention:

Stephanie Laubenstein, Director, Sales & Business Development

204.391.1788

[Stephanie\\_Laubenstein@newflyer.com](mailto:Stephanie_Laubenstein@newflyer.com)



November 28, 2022

Jane Sullivan  
Grants & Governmental Affairs Director  
Champaign-Urbana Mass Transit District (MTD)  
1101 E. University Ave.  
Urbana, Illinois 61802

Subject: **Quotation for Ten (10) 40' Hydrogen Fuel Cell Transit Buses.**

Dear Jane,

New Flyer of America is pleased to submit an option price quotation for the production and delivery of ten (10) 40'-foot heavy-duty hydrogen fuel cell transit buses based on the State of Washington and the recent line entered Champaign Urbana SR-2728.

- The price for up to ten (10) XHE40 buses is **\$1,295,908.22**

We would like to highlight key elements of our proposal:

**Warranty:** New Flyer exceeds the industry standard warranties in many areas such as our 5 year / 300,000 miles axle warranty (standard warranty is 2 years) and our 3 years / 150,000 miles multiplex warranty (standard competitor warranty is 1 year / 50,000 miles). Please see our Warranty Proposal for more information. Please note that warranty is included in the bus price.

**Publications:** The New Flyer Publications team combines extensive, hands-on technical experience with exceptional writing, illustrating, and publishing skills to create the industry's benchmark in maintenance manuals. They supply accurate information in a timely manner, assisting the customer in the performance of proper bus maintenance, which adds to the overall reliability and lifetime value of each New Flyer bus on the road. Please see our Publications Proposal for more information. Please note that publications are included in the bus price.

**Training:** New Flyer Training is an organization within the New Flyer Customer Services group, a division of New Flyer Industries. As a part of the leading manufacturer of heavy-duty transit buses in the United States and Canada, we have access to top design, engineering, propulsion technology, and electrical systems professionals. This allows us to offer the service and expertise to maximize the lifetime value of your fleet. Please see our Training Proposal for more information. Please note that optional training is not included in the bus price.

**Tooling and Diagnostics:** Please see our Tools and Diagnostics Proposal for more information. Please note that tooling and diagnostics are not included in the bus price.

**Delivery Proposal:** New Flyer is proposing a complete delivery by Q4 of 2023. Please note that delivery is included in the bus price.

Built to **RELY ON.**





**Payment Terms:** Payment terms will follow the current terms in our Contract with Champaign-Urbana Mass Transit District (MTD).

- Payment terms are Net 30 days from delivery and acceptance.

New Flyer of America values the long-term strategic partnership it has shared with Champaign-Urbana Mass Transit District, and we are pleased to further develop our business relationship. This latest project will allow us to deliver to you once again, some of the most advanced vehicles available in North America. We thank you for your continued interest in New Flyer products and look forward to working with you again in the near future.

The quotation is open until December 31, 2022. Please indicate your acceptance by providing a Purchase Order, sent by email to [Stephanie.Laubenstein@newflyer.com](mailto:Stephanie.Laubenstein@newflyer.com) – Director of Sales and Business Development. If you have questions related to this price proposal, please contact Barry Karlenzig at [Barry.Karlenzig@newflyer.com](mailto:Barry.Karlenzig@newflyer.com).

Sincerely,

**NEW FLYER OF AMERICA INC.**

Barry Karlenzig  
Technical Sales Manager  
204.594.6875  
[Barry.Karlenzig@newflyer.com](mailto:Barry.Karlenzig@newflyer.com)

CC: Adrian Graca – Business Segment Director, Technical Sales  
Jeff Butler – Regional Sales Manager  
Palmer Anderson – Technical Sales Analyst

Built to **RELY ON**®

## Tab 2, New Flyer's Xcelsior CHARGE FC™

### Solicitation Requirements:

N/A

### New Flyer Response:

Drawing upon more than 20 years of experience producing fuel cell-electric buses for North American operators, New Flyer has applied the best of zero-emission design and innovative fuel cell technologies to develop the Xcelsior CHARGE FC™ - our newest, next generation zero-emission hydrogen fuel cell-electric bus. This latest addition to the New Flyer zero-emission product line is the most advanced hydrogen fuel cell-electric bus in North America and we are proud to present it to Champaign Urbana MTD.

### **xcel**sior CHARGE FC™ FUEL CELL-ELECTRIC AND ZERO EMISSION



### 4 distinct high-performing technologies

New Flyer has incorporated 4 distinct high-performing technologies in designing the Xcelsior CHARGE FC™ to be our next generation heavy-duty fuel cell- electric transit bus.

- Heavy-duty fuel cell power module from Ballard called FCmove™-HD+
- New battery packaging designed and developed by New Flyer
- The newest high-power batteries with a range of up to 370+ miles
- A new lightweight electric traction drive system with up to 90% energy recovery from Siemens, called "ELFA 3"

### How is it different from New Flyer's previous generation model, Xcelsior CHARGE H2™?

- Lighter (reduced weight).
- Simpler (to install, service and navigate).
- More efficient (longer range, better energy recovery, higher performance).
- More sustainable (recyclable components).
- Smart city capable (through connectivity, analytics, navigation, performance).

## Champaign Urbana Mass Transit District

### Proposal for ten (10) XHE40 Buses

The Xcelsior CHARGE FC™ provides an ideal complement to battery-electric buses for agencies like Champaign Urbana MTD wanting to integrate the reliable long-range performance of hydrogen fuel cell-electric buses.

Overall manufacturability and maintainability of the Xcelsior CHARGE FC™ is improved which means greater quality control (and decreased margin of error), decreased part numbers, simple and more efficient design and development, and a more consistent manufacturing process for New Flyer. Basically, New Flyer has streamlined its zero-emission manufacturing processes to deliver a more advanced bus for the benefit of customers like you. This allows us to in turn simplify training for our production teams and those of our customers.

#### Altoona testing

The existing Altoona tests for New Flyer fuel cell-electric buses are still applicable because additional testing would not yield significantly different results. For that reason, the Xcelsior CHARGE FC™ bus meets Altoona testing requirements from our previous model, the Xcelsior CHARGE H2™.

Please refer to the following **Xcelsior CHARGE FC™ brochure** for more information on New Flyer's industry-leading, next generation, zero-emission bus.

### **Tab 3, Warranty**

**Solicitation Requirements:**

N/A

**New Flyer Response:**

Please see the attached New Flyer [Warranty Proposal](#).

Please note that Warranty Pricing is included as part of the Bus Price.



NEW FLYER OF AMERICA

CONTRACT DELIVERABLES LIST		Warranty
CUSTOMER NAME	Champaign Urbana	
BID NUMBER	22-099	
BUS MODEL	XHE40	
QUANTITY	10	

MAJOR COMPONENT DESCRIPTION	BASE AND EXTENDED WARRANTY			COMMENTS
	PROVIDER	YEARS	MILEAGE	
Base Bus Warranty	New Flyer of America	1	50,000	Excluding scheduled maintenance items, acts of nature, or normal consumables
Basic Bus Structure	New Flyer of America	3	150,000	Body, and body structure shall consist of the components that are mechanically fastened or adhesively bonded or glued as part of the structure.
Chassis Structure (Integrity)	New Flyer of America	12	500,000	Consists of all components that are welded together to form the main frame (skeleton) and body construction. The structural integrity guarantee covers against a significant loss of structural integrity of the assembly or its functional performance due to non corrosion related failures.
Chassis Structure (Corrosion)	New Flyer of America	12	500,000	Consists of all components that are welded together to form the main frame (skeleton) and body construction. The corrosion guarantee covers against a significant loss of structural integrity of the assembly or its functional performance, resulting from a pertinent loss of cross-section due to corrosion caused by normal environmental elements but excludes corrosion caused by aggressive road de-icers such as Magnesium Chloride or equivalents, unless New Flyer approved preventative measures are taken. The warranty shall be void if the Agency fails to conduct corrosion inspections and scheduled preventive maintenance procedures as specified in the Contractor's maintenance manuals. The Agency shall maintain documentation, auditable by the Contractor, verifying service activities in conformance with the Contractor's maintenance manuals.
Propulsion System	Siemens/New Flyer	6	300,000	First 5 years covered by Siemens and the 6th year covered by New Flyer. All warranty claims to be submitted to New Flyer.
Hydrogen Fuel Cell	Ballard	6	250,000	Some limitations and exclusions may apply - Please see manufacturer's warranty document.
Hydrogen Fuel Cell DC to DC Converter	Ballard	6	250,000	
Hydrogen Fuel Cell Batteries	Xalt Energy/New Flyer	6	300,000	Capacity fade is the relative reduction of the total amount of energy the battery system can store in a single charge for the purpose of powering the bus as compared to capacity at beginning of life (BOL). Capacity fade is warranted to 80% of BOL total energy capacity at year 6 or 300,000 miles when;  1) capacity measurements are taken from a balanced ESS, and 2) ESS is maintained in the manner described in the New Flyer Service Manual."  "The string Battery Management System (BMS) controllers and Power Distribution Unit (PDU) are warranted for proper operation up to year 6 or 300,000 miles when the ESS is maintained in the manner described in the New Flyer Service Manual."
Axle (Front and Rear)	MAN	5	300,000	Excluding maintenance items & items that are not covered by the OEM's warranty. All friction materials are excluded from this limited warranty. Wear and third party items supplied with the axle (e.g. slack adjuster, seals and bearings, shocks, air bellows, radius rods, brake chambers) are not included in the 5 year warranty. Please see manufacturer's warranty document.
A/C	Thermo King	2	Unlimited	Some limitations and exclusions may apply - Please see manufacturer's warranty document. All repairs/warranty claims need to be handled through the local authorized repair facility.
Brake System	New Flyer of America	1	50,000	Friction Material Excluded
Destination Signs	Twin Vision	6	Unlimited	Some limitations and exclusions may apply - Please see manufacturer's warranty document. All repairs/warranty claims need to be handled through the local authorized repair facility.
Door Systems	Vapor	3	150,000	Excluding maintenance items & items that are not covered by the OEM's warranty
Air Compressor	Powerx	1	Unlimited	



NEW FLYER OF AMERICA

MAJOR COMPONENT DESCRIPTION	BASE AND EXTENDED WARRANTY			COMMENTS
	PROVIDER	YEARS	MILEAGE	
Wheelchair Ramp	New Flyer of America	1	50,000	
Electrical System	Parker	3	150,000	Excluding maintenance items & items that are not covered by the OEM's warranty
LED Headlights	J.W.Speaker	6	Unlimited	Warranty covers parts only after first year
Paint	Axalta	5	Unlimited	
Tires	New Flyer of America	2	24,000	New Flyer Industries Limited warrants the tires installed as original equipment on this vehicle only against defects in materials and workmanship which cause the vehicle to fail to comply with applicable U.S. and Canadian greenhouse gas emission limits ("Warrantable Emissions Failures"). This vehicle emissions limited express warranty relating to original equipment tires is valid for two (2) years or 24,000 miles whichever occurs first.
New Flyer Connect System	New Flyer of America	2	Unlimited	New Flyer Industries Limited provides a two year New Flyer Connect subscription and system warranty.

## **Tab 4, Publications**

### **Solicitation Requirements:**

N/A

### **New Flyer Response:**

Please see the attached New Flyer **Publications Proposal**.

Please note that Publication Pricing is included in the Bus Price.

CONTRACT DELIVERABLES SHEET		PUBLICATIONS rev a. November 10, 2022		
PRIMARY CUSTOMER NAME		Champaign		
PUBLICATIONS CUSTOMER NAME		Champaign-Urbana Mass Transit District		
BID NUMBER		22-099		
BUS MODEL		XHE40		
QUANTITY		10		
New Flyer Standard Bus Publications				
DESCRIPTION	QTY	CUSTOMER DELIVERY	UPDATES (years)	COMMENTS
Emergency Responder Guide (8.5x11 laminated paper)	10	With First Bus Delivery	6	Emergency information to be on board each bus
Operator's Guide (8.5x11 3-hole)	10	With First Bus Delivery	6	One per bus
Parts Manual	2	30 Business Days After Last Bus Delivery	12	
Service Manual	2	30 Business Days After Last Bus Delivery	6	
Bus System Drawings Manual (11x17 3-hole regular paper includes air, electr, hydraulic, cooling, PLC HVAC layouts and schematics)	2	30 Business Days After Last Bus Delivery	6	
TIV USB	2	30 Business Days After Last Bus Delivery	6	USB Includes only NF Manuals plus OEM manuals below identified with "***"
OEM Supplier Publications				
DESCRIPTION	QTY	CUSTOMER DELIVERY	UPDATES (years)	COMMENTS
Siemens E-Drive Propulsion System OEM Vendor Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		Includes all service, parts, troubleshooting information
ELFA3 System User Guide (Safety, Installation, Operation, Maintenance, Diagnostics and Parts information documents)	2	"	N/A	*
Ballard Fuel Cell OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
FCMove Fuel Cell System User Guide	2	"	N/A	*
XALT Energy ESS Battery OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
XALT Energy XMOD ESS Battery User Manual	2	"	N/A	*
Modine BTMS OEM Manual (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
BTMS Service Manual	2	"	N/A	*
Thermo King HVAC OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
Unit Operation & Maintenance Manual	2	"	N/A	*
Unit Operation & Parts Manual	2	"	N/A	*
EMP Cooling System OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
MH5 Cooling System Service Manual	2	"	N/A	*
MH5 Cooling System Troubleshooting Manual	2	"	N/A	*
WABCO ABS System OEM Manual (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
ABS Maintenance Manual	2	"	N/A	*
Destination Sign OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
Twin Vision Operation & Maintenance Manual	2	"	N/A	*
Valeo Aux Coolant Heater System OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
Thermo DC 200 Workshop Manual	2	"	N/A	*
SafeFleet Video Surveillance OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
Seon System Maintenance and Troubleshooting Guide	2	"	N/A	*
Vmax Viewing Software Guide	2	"	N/A	*
IRMA APC System OEM Manual Set (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
IRMA Matrix System User Manual	2	"	N/A	*
Parker Multiplexing System OEM Manuals (includes only the following)		With First Bus Delivery or Soon After Receiving From OEM Supplier		
CM3033 User Guides	2	"	N/A	*
CM0401 User Guides	2	"	N/A	*
Sub Total				
Other New Flyer Costs				
DESCRIPTION	QTY	CUSTOMER DELIVERY	UPDATES (Years)	COMMENTS
Standard Labour Hours required for NF Bus Manual Set Publishing	450	N/A		Not charged to the customer



## **Tab 5, Training**

### **Solicitation Requirements:**

N/A

### **New Flyer Response:**

Please see the attached New Flyer [Training Proposal](#).

Please note that this proposal is for recommended training only. Training courses may be selected by Champaign Urbana Mass Transit District. New Flyer's training team is happy to advise on selecting the correct training for your needs.

Corresponding prices are not included in the Bus Price.

CONTRACT DELIVERABLES LIST		CUSTOMER TRAINING			
CUSTOMER NAME		Champaign-Urbana			
BID/OPTION/SR NUMBER		22-099			
TECHNICAL SUMMARY		SR2817 Rev Draft 2			
BUS MODEL		XHE40			
1.15 Train-the-Trainer					
DESCRIPTION	QTY HRS.	CUSTOMER DELIVERY	SELLING PRICE		
Bus Operator Training Video	1		\$33,210.00	Recommended	Y
Operator Orientation	8		\$1,973.70	Recommended	Y
Maintenance Orientation	24		\$5,921.10	Recommended	Y
Sub Total - Train-the-Trainer			\$41,104.80		Y
1.18 Technical					
DESCRIPTION	QTY HRS.	CUSTOMER DELIVERY	SELLING PRICE		
Technical Training	96		\$32,872.50	Recommended	Y
(May include: Body & Chassis, Susp & Strg, Electrical, Air & Brake System, HVAC, Electric Drive, WC Ramp, Dest Signs, Doors, Axles & Tires, Fire Suppression					
Sub Total - Technical Training			\$32,872.50		Y
1.19 OEM Train-the-Trainer					
DESCRIPTION	QTY	CUSTOMER DELIVERY	SELLING PRICE		
OEM Factory course slots	2		\$4,050.00	Recommended	Y
(May include: Electric Drive, Data Communication System, Fare Collection Device					
Sub Total - OEM Train-the-Trainer			\$4,050.00		Y
Training Total (priced separate from the bus price)			\$78,027.30		Y

## **Tab 6, Tools and Diagnostic Equipment**

### **Solicitation Requirements:**

N/A

### **New Flyer Response:**

Please see the attached New Flyer [Tool and Diagnostics Proposal](#).

Please note that this proposal outlines New Flyer's recommended tools and diagnostics package required to maintain the Xcelsior® bus. The package acts as a shopping list for Champaign Urbana Mass Transit District to select from, as required.

The corresponding prices are not included in the Bus Price.

CONTRACT DELIVERABLES LIST		DIAGNOSTICS & TOOLS					
CUSTOMER NAME		Champaign-Urbana					
BID/OPTION/SR NUMBER		22-099					
TECHNICAL SUMMARY		SR2817 Rev Draft 2					
BUS MODEL		XHE40					
PAGE REFERENCE	COMMENTS	DESCRIPTION	QUOTED PART #	BID QTY	EXTENDED SELLING PRICE	REQUIREMENT	BILLABLE Y/N
		<b>Diagnostic Equipment</b>					
	for use with all diagnostic software	Panasonic FZ55 Toughbook Laptop	6502351	1	\$3,215.38	Recommended	Y
		Intelligence III Diagnostic Software & Cables	6393934	1	\$1,994.53	Recommended	Y
	free download from EMP website	EMP Software	NPN	1	\$0.00	Recommended	Y
	free download from Modine website	Modine Software	NPN	1	\$0.00	Recommended	Y
		Wabco ABS Software (1-year subscription)	6334596	1	\$395.01	Recommended	Y
		Valeo Diagnostic Software & Cables	6396448	1	\$472.84	Recommended	Y
		Adapter - Diagnostic	6492163	1	\$51.93	Recommended	Y
	provided by Twin Vision at n/c	Twin Vision MIE Software	NPN	1	\$0.00	Recommended	Y
	free download from Parker-Vansco website	Vansco Software	NPN	1	\$0.00	Recommended	Y
	free download from Parker-Vansco website	PVSG Software	NPN	1	\$0.00	Recommended	Y
		Cable - PVSG Interface	6487019	1	\$49.67	Recommended	Y
	free download from Parker-Vansco website	Smartertrider Software	NPN	1	\$0.00	Recommended	Y
		Vapor Class System Diagnostic Interface Kit	6358421	1	\$86.95	Recommended	Y
	provided by Vapor at n/c	Vapor Class System Software	NPN	1	\$0.00	Recommended	Y
	provided by Vapor at n/c	Vapor VETC2 Software	NPN	1	\$0.00	Recommended	Y
		Siemens PCAN Interface Harness	711447	1	\$97.35	Recommended	Y
		USB CAN Adapter - Siemens Interface	6402046	1	\$380.90	Recommended	Y
	for ELFA 3	UDS Software - Vector Indigo	6487897	1	\$3,260.25	Recommended	Y
	for ELFA 3	Annual Maintenance - Vector Indigo	6487898	1	\$586.87	Recommended	Y
	for ELFA 3	Vector Keyman USB Dongle	6487899	2	\$268.06	Recommended	Y
	for ELFA 3	Indigo Interface - Vector VN1630 Log	6491163	1	\$3,144.57	Recommended	Y
	for ELFA 3 (qty of 2 per 1 VN1630)	CANpiggy 1057GCap - Vector	6491232	2	\$538.06	Recommended	Y
	for ELFA 3 (qty of 2 per 1 VN1630)	CANcable 2Y - Vector Indigo	6412000	2	\$105.89	Recommended	Y
	provided by XALT at n/c	XALT Service Tool Software	NPN	1	\$0.00	Recommended	Y
		XALT Interface Cable - Batteries	704950	1	\$197.51	Recommended	Y
		Kit - XALT SPI Tool Universal	6482554	1	\$2,361.18	Recommended	Y
	free download from Modine website	Modine BTMS Software	NPN	1	\$0.00	Recommended	Y
		Plug - MSD Blank	869751	6	\$156.57	Recommended	Y
		Cap - 12 PK Bus Bar Protective Cvr	6483658	1	\$264.56	Recommended	Y
		Key, Cam Latch #4 (ESS Triangle Key)	6476226	1	\$4.12	Recommended	Y
		Nexiq USB Link 2 - WIFI Edition	6465863	1	\$1,149.77	Recommended	Y
	provided by Berendsen at n/c	Danfoss Software - Berendsen Pwr Strg	NPN	1	\$0.00	Recommended	Y
		Cables Kit - Berendsen Pwr Strg	6490120	1	\$337.14	Recommended	Y
	provided by Ballard at n/c	Ballard Software	NPN	1	\$0.00	Recommended	Y
		Diag Cable - Ballard RDU	6473813	1	\$334.35	Recommended	Y
		Amerex SafetyNet Software & Interface	6355551	1	\$651.87	Recommended	Y
		Service Cable - IRMA APC Analyzer	479892	1	\$35.28	Recommended	Y
		Ethernet Cable - IRMA APC	6465569	1	\$118.79	Recommended	Y
		<b>Special Tools &amp; PPE</b>					
		Kit - Lift Tow Universal	6396565	1	\$234.59	Recommended	Y
		Kit - Lift Tow Receivers	6396567	1	\$1,613.02	Recommended	Y
		Xcelsior Flat Tow adapter (2 pcs. Per set)	6395097	1	\$3,034.73	Recommended	Y
		Assy - Frame Flat Towing	902990	1	\$5,360.85	Recommended	Y
		Jacking Adapters	434434	1	\$1,013.03	Recommended	Y
		Tool - Sway Bar Bushing Removal	566804	1	\$408.58	Recommended	Y
		Repair Kit - Disc Brakes & Calipers	6408310	1	\$3,735.56	Recommended	Y
		Torque Multiplier	6314711	1	\$2,395.74	Recommended	Y
		Hub Repair Kit - MAN VOK-07 Frt Axle	6408311	1	\$7,549.89	Recommended	Y
		Optional Hub Removal Hydraulic Tool Kit - MAN VOK-07	6458834	1	\$4,843.44	Recommended	Y
		King Pin Press Kit - MAN VOK-07 Frt Axle	6408312	1	\$12,794.07	Recommended	Y
		Hub Repair Kit - MAN HY1350 RR Axle	6408306	1	\$4,953.34	Recommended	Y
		ABS Sensor R&R Kit - MAN HY1350 RR Axle	6408307	1	\$897.76	Recommended	Y
		Pinion Seal Repair Kit - MAN HY1350 RR Axle	6444302	1	\$2,387.11	Recommended	Y
		Differential Repair Kit - MAN HY1350 RR Axle	6444303	1	\$7,766.75	Recommended	Y
		Optional Tool Kit - MAN HY1350 RR Axle	6444304	1	\$32,859.57	Recommended	Y
		Coolant System Pressure Tester	660817	1	\$868.62	Recommended	Y
		Kit - Coolant Pressure Fill	6484741	1	\$2,731.21	Recommended	Y
		Adj Tool - Strg Gear Box Press Relief	6465265	1	\$296.26	Recommended	Y
		Depth Punch - Strg Gear Box Press Relief	6465266	1	\$177.75	Recommended	Y
		Flow Meter Tester - Strg Gear Box	140809	1	\$595.80	Recommended	Y
		Puller Tool - Pitman Arm	6394270	1	\$335.83	Recommended	Y
		TK A/C Tool Kit - TE15 R407c	6472762	1	\$21,364.16	Recommended	Y
		Amerex Discharge Hose Blowout Adapter	052132	1	\$121.26	Recommended	Y
		Amerex Fire Alarm/Simulator Module	6484731	1	\$355.17	Recommended	Y
		Amerex Calibration Kit - AMGaDS III	6459321	1	\$1,398.07	Recommended	Y
		Assy - H2 Tank Pressure Interface	733753	1	\$466.33	Recommended	Y
		Valve Instl Tool	6473780	1	\$1,596.97	Recommended	Y
		Ballard Special Tools Kit, HD7	6473770	1	\$1,904.51	Recommended	Y
	For Powerex Scroll Compressor	Grease Gun Kit	6401436	1	\$293.56	Recommended	Y
		Lifting Adapter Assy - Siemens PEM	6481413	1	\$1,027.51	Recommended	Y
		Lifting Device - XALT XMOD Battery Modules	6476635	1	\$1,717.20	Recommended	Y
	HV Tools	Clamp Meter - 1000A Fluke 376	6487900	1	\$897.67	Recommended	Y
	HV Tools	Fluke 2 in 1 Multimeter - 1587FC	6400746	1	\$1,568.36	Recommended	Y
	HV Tools	Conductivity Meter	6489997	1	\$521.98	Recommended	Y
	HV Tools	modular test lead kit	6473267	1	\$258.54	Recommended	Y
	HV Tools	test probe flat blade	6473268	1	\$37.11	Recommended	Y
	HV Tools	test probe back probe	6473269	1	\$30.58	Recommended	Y
	HV Tools	Wiha Insulated Master Electrician's tool kit	6473445	1	\$4,799.94	Recommended	Y
	HV Tools	wiha 1/4 in ratchet set insulated SAE	6473447	1	\$576.59	Recommended	Y
	HV Tools	wiha 1/4 in ratchet set insulated Metric	6473448	1	\$576.52	Recommended	Y
	HV Tools	16 PC 3/8 drive socket set	6473449	1	\$514.65	Recommended	Y
	HV Tools	3/8 Extension set	6473450	1	\$70.93	Recommended	Y
	HV Tools	3/8 Extension set	6473451	1	\$88.45	Recommended	Y
	HV Tools	wiha open end wrench insulated metric	6473452	1	\$679.41	Recommended	Y
	HV Tools	wiha open end wrench insulated sae	6473453	1	\$844.20	Recommended	Y
	HV Tools	Wiha insulated Serrated Tweezers Straight	6473454	1	\$63.21	Recommended	Y
	HV Tools	Wiha insulated Serrated Tweezers Angled	6473455	1	\$88.03	Recommended	Y
	HV Tools	Insulated Torque Wrench 1/4"	6473456	1	\$791.34	Recommended	Y
	HV Tools	Insulated Torque Wrench 3/8"	6472024	1	\$844.29	Recommended	Y
	HV Tools	Insulated Torque Wrench 1/2"	6473457	1	\$908.69	Recommended	Y
	HV Tools	torque screwdriver set	6473458	1	\$503.36	Recommended	Y
	HV Tools	insulated crimper 30 - 6 Awg 7"	6473459	1	\$57.56	Recommended	Y
	HV Tools	wire stripper 6 - 3/8 overall 20 to 10	6473460	1	\$51.92	Recommended	Y
	HV Tools	insulated water pump pliers v-jaw	6473461	1	\$91.98	Recommended	Y

PAGE REFERENCE	COMMENTS	DESCRIPTION	QUOTED PART #	BID QTY	EXTENDED SELLING PRICE	REQUIREMENT	BILLABLE Y/N
		Diagnostic Equipment					
	HV Tools	insolated hex key set 10pc metric	6473462	1	\$294.57	Recommended	Y
	HV Tools	Long SAE Natural insulated hex key set 12 pc	6473463	1	\$379.22	Recommended	Y
	HV Tools	bit driver	6473464	1	\$118.50	Recommended	Y
	HV Tools	Stubby Bit Driver	6473465	1	\$41.76	Recommended	Y
	HV Tools	Wiha Insulated "bitFlip" Set	6472034	1	\$73.36	Recommended	Y
	HV Tools	Mini Screw Driver set	6473466	1	\$124.31	Recommended	Y
	PPE	ARC Flash Protection Clothing Kit - 2PC Small	6471958	1	\$796.73	Recommended	Y
	PPE	ARC Flash Protection Clothing Kit - 2PC Medium	6473412	1	\$796.73	Recommended	Y
	PPE	ARC Flash Protection Clothing Kit - 2PC Large	6473413	1	\$796.73	Recommended	Y
	PPE	ARC Flash Protection Clothing Kit - 2PC XL	6473414	1	\$796.73	Recommended	Y
	PPE	ARC Flash Protection Clothing Kit - 2PC 2XL	6471962	1	\$876.39	Recommended	Y
	PPE	ARC Flash Protection Clothing Kit - 2PC 3XL	6471963	1	\$956.07	Recommended	Y
	PPE	ARC Flash Protection Clothing Kit - 2PC 4XL	6471964	1	\$1,035.73	Recommended	Y
	PPE	ARC Flash Protection Clothing Kit - 2PC 5XL	6471965	1	\$1,115.41	Recommended	Y
	PPE	ARC Flash Protection Clothing Kit - 1PC Small	6471966	1	\$633.23	Recommended	Y
	PPE	ARC Flash Protection Clothing Kit - 1PC Medium	6473415	1	\$633.23	Recommended	Y
	PPE	ARC Flash Protection Clothing Kit - 1PC Large	6473416	1	\$633.23	Recommended	Y
	PPE	ARC Flash Protection Clothing Kit - 1PC XL	6473417	1	\$633.23	Recommended	Y
	PPE	ARC Flash Protection Clothing Kit - 1PC 2XL	6473418	1	\$841.91	Recommended	Y
	PPE	ARC Flash Protection Clothing Kit - 1PC 3XL	6471971	1	\$841.91	Recommended	Y
	PPE	ARC Flash Protection Clothing Kit - 1PC 4XL	6471972	1	\$841.91	Recommended	Y
	PPE	ARC Flash Protection Clothing Kit - 1PC 5XL	6471973	1	\$841.91	Recommended	Y
	PPE	Balaclava Head Cover one size fits all	6473440	1	\$40.78	Recommended	Y
	PPE	Hard Hat and Face Shield one size fits all	6368561	1	\$361.95	Recommended	Y
	PPE	Fall Saftey Harness 425LBS	6473270	1	\$246.77	Recommended	Y
	PPE	Black electrical glove kit, Size 7	6471976	1	\$129.53	Recommended	Y
	PPE	Black electrical glove kit, Size 8	6473420	1	\$144.90	Recommended	Y
	PPE	Black electrical glove kit, Size 8.5	6471978	1	\$144.90	Recommended	Y
	PPE	Black electrical glove kit, size 9	6471979	1	\$144.90	Recommended	Y
	PPE	Black electrical glove kit, Size 9.5	6473421	1	\$144.90	Recommended	Y
	PPE	Black electrical glove kit, size 10	6473422	1	\$140.64	Recommended	Y
	PPE	Black electrical glove kit, Size 10.5	6473423	1	\$168.24	Recommended	Y
	PPE	Black electrical glove kit, size 11	6473424	1	\$133.29	Recommended	Y
	PPE	Black electrical glove kit, size 12'	6473425	1	\$133.29	Recommended	Y
	PPE	HV Blanket 3' x 3'	6473431	1	\$465.22	Recommended	Y
	PPE	Blanket Clamp 9-1/2" L, 5" Opening	6473432	1	\$34.06	Recommended	Y
	PPE	Glove Dust 0.5oz	6473433	1	\$13.82	Recommended	Y
	PPE	Rescue Hook 6FT	6400745	1	\$486.54	Recommended	Y
	PPE	Defibrillator Adult	6473177	1	\$2,328.09	Recommended	Y
	PPE	Brady Personal Lockout Pouch Kit	6473441	1	\$122.00	Recommended	Y
	PPE	Steel Lock Hasp with Tab	6473442	1	\$14.77	Recommended	Y
	PPE	American lock A1106RED	6473443	1	\$21.48	Recommended	Y
	PPE	Lock Out Tag	6473444	1	\$27.01	Recommended	Y
	PPE	Hv Warning sign	6473436	1	\$16.38	Recommended	Y
	PPE	Arc Flash Warning sign	6473437	1	\$13.50	Recommended	Y
	PPE	steering wheel covers	6473439	1	\$61.78	Recommended	Y
	PPE	Cart - Safety Barricade System (up to 75ft)	6491772	1	\$1,698.54	Recommended	Y

## **Tab 7, Technical Summary**

### **Solicitation Requirements:**

N/A

### **New Flyer Response:**

Please see the attached New Flyer [Technical Summary](#) for the proposed bus.

Option	Description	Tech Summary Description
100-00	COACH LENGTH	Xcelsior - 40' coach.
100-03	STRUCTURAL MATERIAL	(B),Carbon steel/ferritic sst.
100-04	FUEL TYPE	(B),Hydrogen at 350 BAR.
100-05	EPA/ENGINE MODEL YEAR	2023
100-0K	SIEMENS GENERATION	(B),ELFA 3.
201-01	FRONT BUMPER	(S),Romeo Rim, three piece, front bumper.
201-03	FRONT TOWING PROVISIONS	(A),Basic set-up, incorporated in front chassis with tow eyes for safety chains. Tow adapters are required.
201-05	REAR BUMPER	(B),Romeo Rim, three piece, rear bumper with anti-ride feature.
203-01	FRONT AXLE	(B),M.A.N. VOK-07-F, GAWR 15,873 lbs. With disc brakes. Hub mount, Knorr cylinders, Ferodo lining with low copper (<5%) brake pads.
203-02	SECUREMENT OF BRAKE LININGS	(S),Bonded.
203-03	BRAKE WEAR INDICATION	(A),Continuous wear sensors are required.
203-04	BRAKE WEAR INDICATION LOCATION	(B),Required at instrument panel.
203-06	SHOCK ABSORBERS	(S),Koni.
203-07	FRONT STABILIZER BAR	(B),SR specific application is approved by NF Engineering.
203-09	FRONT SUSPENSION CROSS BRACE	(E),Front suspension cross brace for high-speed operation.
203-0A	FRT AXLE AND WHEEL SPLASH APRONS	(B),Basic, full width, fore of axles and wheels.
203-0B	RADIUS ROD BUSHINGS	(B),Windowed
204-01	REAR AXLE	(B),M.A.N. 5.67:1. Model HY-1350-F. GAWR 28,660 lbs. With disc brakes, hub mount, Knorr cylinder, Ferodo lining with low copper (<5%) brake pads.
204-03	REAR AXLE GEAR OIL	(B),Synthetic.
204-09	REAR AXLE DRAIN PLUGS	(B),Magnetic external hex head.
204-0A	REAR AXLE MUD FLAP	(B),One aft of rear axle. (Requirement is determined by local climate, ice build-up, high ambient temperature.)
204-0C	REAR WHEEL MUD FLAP	(B),One aft of each rear wheel.
205-01	TIRE SUPPLIER	(A),Customer supplied tires
205-06	WHEELS	(A),Alcoa 22.5" x 8.25" aluminum. Polished Durabright finish with Duraflange treatment.
205-0J	STEERING AXLE TIRES	(B),305/70R/22.5, Goodyear G652 (68 mph).
205-0M	REAR AXLE TIRES	(B),305/70R/22.5, Goodyear G652 (68 mph).
209-01	POWER STEERING PUMP	(B),Berendsen electric power steering pump. Mounted at the front streetside.
209-02	POWER STEERING HOSES	(B),NFIL (Manuli) Equator 2
209-03	POWER STEERING DIAGNOSTIC FTGS	(B),At steering box.
209-05	POWER STEERING RESERVOIR	(S),Required.
209-06	POWER STEERING LOW LEVEL FLUID INDICATOR	(B),Light required at the Cabin coolant fill door.
209-08	POWER STEERING DRAIN PLUG	(B),Magnetic plug.
209-09	POWER STEERING UNIT	(S),Sheppard M110, power assisted, frame mounted.
209-0A	POWER STEERING SYSTEM FLUID	(B),Dexron III, mineral based.
209-0B	POWER STEERING SENSOR	(B),Hydraulic level sensor required.
219-01	FUEL/PROPULSION SYSTEM	Siemens E-Drive, with Ballard fuel cell range extender.
219-05	AIR COMPRESSOR	(B),Direct coupled air compressor powered by electric motor.
219-06	AIR COMPRESSOR HIGH VOLTAGE INTERLOCK SWITCH	(B),Not Required, Junction box provided with tamperproof hardware.

Option	Description	Tech Summary Description
219-0D	ROAD SPEED	(B),Top road speed is governed. Set at 65 MPH (105 KPH).
219-0M	TRANSMISSION/HYBRID DRIVE/TRACTION MOTOR	(B),SIEMENS PEM 1DB2016 FT traction motor, 230 KW.
219-0N	REGENERATIVE BRAKING	(S),0-10% driver controlled with accelerator pedal, 30% with accelerator pedal release, remaining 70% blended with brake application reaching 100% by 15psi.
219-1C	AIR CLEANER	Mahle replaceable cartridge filter. For Ballard FCMove fuel cell.
219-1D	AIR RESTRICTION INDICATOR	(B),Mechanical gauge mounted directly on air intake tube.
219-1E	EXHAUST SYSTEM	(S),SST tailpipe to disperse water vapour.
219-1F	EXHAUST TAIL PIPE ORIENTATION	(B),Curved pipe set to 45 degrees to streetside.
219-1M	PAINTED TAILPIPE	(B),Unpainted.
219-1U	ENGINE/PROPULSION SWITCH BOX	(B),Propulsion compartment light switch. Located at streetside propulsion compartment strut.
219-30	BALLARD FUEL CELL MODEL	(A),Ballard FCmove.
231-02	RADIATOR,CAC,HYDR FLUID COOLER	(B),Modine High Voltage 9 fan fuel cell radiator, with predictive cooling capabilities.
231-04	RADIATOR REVERSE FAN SW & DIAG LAMP	(B),Located at propulsion compartment switch panel.
231-0C	RAD TUBES	(S),SST.
231-0F	COOLANT FLUID/ANTIFREEZE	(A),Extended Life (FINAL CHARGE) coolant. 50/50 distilled water with ethylene glycol with corrosion inhibitors and bittering agent, based on organic acid (carboxylate) technology. Orange fluid.
231-0U	XHE COOLANT RESERVOIR	(B),Propulsion, Fuel Cell, ESS, and cabin heat systems use separate SST reservoirs.
231-0V	XHE COOLANT RESERVOIR PRESSURE RELIEF VALVE	(B),Propulsion, ESS and cabin heating reservoirs use LEV-R VENT, built into tank cap. Pressure is continually vented on fuel cell coolant reservoir.
231-0Y	XHE COOLANT RESERVOIR SIGHT GLASS	(B),Cabin Heating reservoir uses a graduated sight glass (glass material). propulsion and ESS reservoirs uses a glass level indicating ball.
231-0Z	XHE LOW COOLANT CONDITION	(B),A single sensor at the surge tank signals the instrument panel or switch box Low Coolant telltale.
231-10	XHE COOLANT RESERVOIR TEST PORT	(B),Schrader valve fitting provided on Cabin Heat reservoir.
234-01	WATER FILTER	(S),Fuel cell de-ionized water filter, with 1/4 turn isolation valves.
241-06	HYDROGEN FUEL TANKS	(B),Agility Fuel Solutions Type 4 Composite, 5 tanks, 16.3" OD x 125" long ,roof mounted cylinders with OMB HTV 24V solenoid valve. Total system capacity is 37.5 Kg at 5075 psi (350 bar). For 40' coach.
241-0K	HYDROGEN FUEL LINES	(S), Dual 0.5" SST lines rated for use with hydrogen fuel, with Swagelok fittings.
241-0N	HYDROGEN PRESSURE RELIEF DEVICE	(S),One remote OMB PRD and one OMB PRD integrated into tank valve (per tank). Operating pressure 0-350 bar (5075 psi). Operating temperatures: -40 to 85 C (-40 to 185 F), thermal relief (nominal) 110 C (230 F).
241-0W	HYDROGEN FUEL LEVEL GAUGE	(B),Low level telltale displayed on instrument panel screen.
241-0Y	HYDROGEN DEFUEL PROVISION	(B),Swagelok AFS valve with locking tabs, with quick connect fitting.
241-0Z	HYDROGEN FUEL FILL RECEPTACLES	(B),Luxfer WEH TN1 fast fill and TN5 H2 Fill Receptacle, with fuel pressure gauge at fill box. Includes tethered dust caps.
241-10	HYDROGEN FUEL LINE IDENTIFICATION	(B),SST lines are labeled with yellow adhesive warning labels at every 36".
241-11	HYDROGEN TANK ISOLATION VALVES	(B), Swagelok AFS ball valves included for each tank.
241-16	HYDROGEN FUEL FILL DOOR INTERLOCK	(B),Shuts down fuel cell when fuel fill door is open and bus is in neutral with park brake applied. Prevents fuel cell restart. Programmable timing details are required for Electrical.
246-01	AIR COMPRESSOR DISCHARGE LINE	(S),Teflon 2807 SST braided hose.
246-02	BASIC AIR TANKS	(A),Combo Tank 1 (Wet Tank + Primary Brake Tank), Combo Tank 2 (Front Axle Kneeling Tank + Accessory Air Tank), Secondary Brake Tank, Rear Axle Kneeling Tank.
246-04	AIR TANK DRAIN VALVES	(B),Manual 1/4 turn valve.



Option	Description	Tech Summary Description
246-06	WET TANK DRAIN VALVE	(B),Manual 1/4 turn valve.
246-09	RIDE HEIGHT SENSORS	(A),SmartRider electronic leveling system on all axles.
246-0A	RIDE HEIGHT SETTINGS,NORMAL	(B),Front ride height is 4.0" axle to bump stop.
246-0B	RIDE HEIGHT SETTINGS,HIGH RIDE/FRT OVER-RAISE	(A),2" above normal on all axles, speed limited to 10 mph (16 Kph).
246-0C	RIDE HEIGHT SETTINGS,LOW RIDE	(A),2.4" below normal on all axles, speed limited to 10 mph (16 Kph).
246-0E	DOOR INTERLOCK	(A),Applied to exit door. Foot on brake to release interlock, applied via multiplex system programming.
246-0G	DRIVER'S PARK BRAKE ALARM	(B),If the Master Run switch is in the OFF or PARK positions, the kneeling alarm is triggered to alert the driver that the park brake is not set.
246-0H	PARK BRAKE PRESSURE SETTING	(S),40 psi auto-apply park brake valve. 60 psi pressure switch for park brake light activation.
246-0K	AIR DRYER	(A),Bendix AD9 Tandem air dryer with IPC (Integrated Puraguard Cartridge).
246-0M	AIR DRYER LOCATION	(B),Under the rear step.
246-0U	PARK BRAKE ACTUATION	(B),Pull To Apply.
246-0V	PARK/EMERG BRAKE LOCATION	(S),On side console panel.
246-13	FRONT TOW CONNECTOR	(B),Male 1/4" NPT fitting with Series 20/30 coupler fitting, with tag.
246-14	FRONT AIR CONNECTOR ARRANGEMENT	(B),Located below the bumper, streetside.
246-15	FRONT AIR CHARGE CONNECTOR	(B),Male 1/4" NPT fitting with Series 20/30 coupler fitting, with tag.
246-17	REAR AIR CHARGE CONNECTOR TYPE	(A),Male 1/4" NPT multi-purpose quick coupling with ISO 7241 Series B Interchange (60 Series Nipple), with tag.
246-1B	FLEXIBLE AIR LINES	(S),Synflex colour coded. Green: rear service brakes and supplies. Red: front service brakes. Brown: parking brake. Black: accessories and brake hose. Yellow: compressor and governor. Blue: suspension.
246-1E	ABS	(S),Wabco.
246-1F	TRACTION CONTROL	(B),Wabco system, to reduce drive wheel overspin.
246-1J	FRONT CHARGE AIR ROUTING	(B),Direct charge to wet tank.
246-1K	REAR CHARGE AIR ROUTING	(B),Direct to air dryer, connected after air dryer.
246-1M	REAR CHARGING INDICATOR	(A),60 PSI Pressure Switch Located in Rear Charge Air Line.
246-27	AIR SYSTEM TRANSDUCER FAULT DETECTION	(B),Transducer Fault Detection - Transducer voltage falls to 0V if transducer failure occurs.
260-01	BATTERY MANAGEMENT	(B),Transtech regulator w/Low Voltage Disconnect, temperature and current sensors to optimize battery life.
260-02	BATTERY VOLTAGE REGULATOR	(B),Transtech REG24C
260-03	BATTERY VOLTAGE REGULATOR LOCATION	(B),Mounted on MCU/TCU panel.
260-04	BATTERY TYPE / MFR	(A),Four Odyssey group 31 Absorbed Glass Matt (AGM) maintenance free batteries. 1150 CCA. Top posts: 3/8" positive, 3/8" negative.
260-05	BATTERY CABLES	(S),Red heat shrink on 24 volt positive cable end and light blue heat shrink on 12 volt positive cable end.
260-09	BATTERY TRAY	(S),Slide out battery acid resistant polyethylene enclosure with SST sub frame, SST bearings and rubber isolation mounts. Located aft of the curbside rear wheelhouse. Note: battery access door opens to the side.
260-0C	POSITIVE BATTERY DISCONNECT SW	(A),Required with quick access through flip-open door (No engine shutdown feature).
260-0E	BATTERY VOLTAGE EQUALIZER	(B),Vanner 100 amp.
260-0F	JUMP START MANUFACTURER/TYPE	(A),ANDERSON SB350 GREY

Option	Description	Tech Summary Description
260-0G	JUMP START LOCATION	(A),Mounted on low voltage battery tray.
260-0K	ENERGY STORAGE SYSTEM BTRY SUPPLIER/TYPE	(A),XALT Energy,High Power, Gen 2.
260-0M	ENERGY STORAGE SYSTEM CAPACITY	(B),135 kWh total.
260-0T	ESS FIRE DETECTORS	(S),Integrated in ALL ESS HV Battery enclosures.
260-11	MOTOR/INVERTER RADIATOR & RESERVOIR	(A),Four fan roof mounted EMP radiator with propulsion compartment mounted SST Reservoir with sight glass & low level coolant sensor.
260-12	MOTOR/INVERTER COOLING PUMP	(S),Rotron.
260-15	ROOF FAIRING / SKIRTS ENCLOSURE	(S),Fairing with full length skirts for XHE.
260-1B	BATTERY VOLTAGE EQUALIZER QUANTITY	(B),One
260-1E	EMERGENCY HV BATTERY CHARGE PORT, XHE	(B),Single receptacle mounted at curbside of High Voltage fusebox.
260-1M	FUSEBOX HIGH VOLTAGE INTERLOCK SWITCH	(B),Required without stand-alone HVIL indicator lamp.
269-01	P.A. AMPLIFIER MFR / TYPE	(A),Included with AVA or AVL system.
269-0C	GOOSENECK MICROPHONE	(B),REI, approximately 30" long from base to end of microphone. Black neck and head.
269-0D	GOOSENECK MICROPHONE LOCATION	(B),Inverted, clipped to the A-pillar. Microphone clip is 15.26" from bottom of destination sign closeout panel.
269-0E	GOOSENECK MICROPHONE SWITCH	(B),Built into microphone.
269-0G	INTERIOR SPEAKER MFR	(B),TCB
269-0H	PRIMARY INTERIOR SPEAKERS	(B),Six: four to light panels, two above rear bench.
269-0K	EXTERIOR SPEAKERS, LOCATION	(B),At basic location above entrance.
269-0M	EXTERIOR SPEAKER MFR	(B),Shekonic
269-0N	EXTERIOR SPEAKERS, LOCATION, RR	(A),Additional location above curbside exit door.
269-0Z	PRIMARY PA SYSTEM	(B),Gooseneck mic with built-in switch
269-13	EXTERIOR SPEAKER QUANTITY	(A),Two
269-14	EXTERIOR SPEAKERS, LOCATION, REAR, MFR	(B),Shekonic
269-1E	EXTERIOR SPEAKER COIL	(B),Single coil.
273-01	HEADLIGHTS	(S),NFIL Xcelsior LED low beam and high beam headlights.
273-02	DAY RUN HEADLIGHTS	(B),Required.
273-03	FRONT TURN SIGNALS	(S),NFIL amber LED. Integrated with headlight assembly.
273-06	TAIL LIGHT ARRANGEMENT	(A),Red, amber, red, white.
273-07	TAIL LIGHTS	(A),7" Dialight LED, bolted flange mounted.
273-08	CENTER STOP / DECELERATION LIGHT SIZE	(B),18" X 1 " Dialight
273-09	WHITE BACK-UP LIGHT	(B),4" Dialight LED, grommet mounted.
273-0A	STOP LIGHTS ON WITH RTRDR/REGEN BRAKE	(B),Required.
273-0B	STOP LIGHTS ON WITH PARK BRAKE OR INTERLOCK	(S),When park brake or interlock are engaged.

Option	Description	Tech Summary Description
273-0E	CENTER STOP / DECELERATION LIGHTS QTY	(A),Three
273-0F	CENTER STOP / DECELERATION LIGHTS LOCATION	(B),At lower edge of HVAC door.
273-0H	SIDE TURN SIGNALS,TYPE / QTY PER SIDE	(A),4 streetside, 3 curbside amber Dialight LED Lamps, 12 volt.
273-0J	SIDE TURN SIGNAL FUNCTIONALITY	(B),Single intensity, Dialight LED lamps.
273-0M	CURBSIDE TURN SIGNALS LOCATION	(A),Lamps are aft of front and fore and aft of rear wheelhouses.
273-0N	STREETSIDE TURN SIGNALS LOCATION	(A),Lamps are fore and aft of all wheelhouses.
273-0P	KNEELING/RAMP LIGHT AT ENTRANCE	(S),2.5" Dialight LED.
273-0T	MARKER / CLEARANCE LIGHTS	(B),Dialight LED without guard all around.
273-0V	REFLECTORS	(B),Self-adhesive decals installed at NFIL basic positions.
273-0W	REAR LICENCE PLATE LIGHT	(B),Smartrend LED.
273-10	TIMED SHUT-OFF,ENTR AREA LIGHTS	(B),The program is set to shut the lights off when the door closes.
273-12	TIMED SHUT-OFF,EXIT AREA LIGHTS	(S),The program is set to shut the lights off five seconds after the door closes.
273-1F	CENTER STOP / DECELERATION LIGHTS COLOR	(B),Red
273-1G	CURBSIDE CORNERING LIGHTS	(A),2 total, one curbside lamp located behind front axle and one curbside lamp forward of the rear axle.
273-1J	STREETSIDE CORNERING LIGHT	(A),2 total, one streetside lamp located behind front axle and one streetside lamp forward of the rear axle.
273-1R	MARKER / CLEARANCE LIGHTS FUNCTIONALITY	(B),New Flyer standard marker/clearance light functionality to meet applicable FMVSS/CMVSS regulations.
273-23	MARKER LIGHTS LOCATION	(B),New Flyer standard marker light locations to meet applicable FMVSS/CMVSS regulations.
273-25	EXTERIOR LIGHTS	(B) Day Run, Night Run, and Night Park modes illuminate the tail lamps, marker/clearance lamps, and license plate lamp. Mandatory for Canadian customers.
273-26	CENTER STOP/DECELERATION LIGHT FUNCTIONALITY	(B),Basic stop functionality.
273-27	CENTER STOP/DECELERATION LIGHT VOLTAGE	(B),12 Volts
273-29	UPPER REAR LIGHTS QTY	(A),Two
273-30	UPPER REAR LIGHTS SIZE	(A),2"x 6" oval
273-31	UPPER REAR LIGHTS COLOR	(B),Amber
273-32	UPPER REAR LIGHTS FUNCTIONALITY	(B),Turn
273-33	UPPER REAR LIGHTS LOCATION	(A),At top of upper corner pillars.
277-02	INTERIOR PASSENGER LIGHTING	(B),NFIL LED, 24 VDC.
277-04	INTERIOR LED LIGHT FUNCTIONALITY	(A),First two banks of lights (at 0% pre-set) on each side turn on when entrance door is opened and off when door is closed. Dimmable (50% pre-set) at remaining banks.
277-07	EXIT BASEPLATE / ELEC PNL ACCESS	(B),At each exit door, NFIL set-up, through removable ad frame.
277-0B	TINTED LED PASSENGER LIGHT COVERS	(A),Blue for the 1st-2nd banks of lights on each side, the rest are white.
277-0C	FAREBOX LIGHT	(B),One fixed LED light.

Option	Description	Tech Summary Description
277-0F	DRIVER'S LIGHT	(B),One sealed 2.5" white high output Smartrend LED light.
277-0K	SDS SERVICE LIGHT	(A),Two LED lamps, one provided at upper front and one provided at upper rear of SDS enclosure.
277-0M	SDS SERVICE LIGHT SWITCH CONTROL	(B),With switch.
277-0N	PROPULSION COMPARTMENT LIGHTS	(B),Smartrend, four 1.38" LED lights. For Fuel Cell only.
277-0V	REAR DECK STEP LIGHT	(B),LED.
277-0W	INTERIOR DOOR HEADER LIGHTS, ANTI-GLARE SHIELD COLOR	(B),LED strip light (approx 18" long) provided above doors. With black anti-glare shield.
277-0Y	INTERIOR DOOR HEADER LIGHTS/ QUANTITY (ENTRANCE)	(B),Single strip.
277-11	INTERIOR DOOR HEADER LIGHTS/ QUANTITY (EXIT)	(B),Single strip.
277-13	EXIT AND ENTR MECH BOX SERVICE LIGHTS	(A),Smartrend LED with switch, at basic locations.
277-14	EXIT AND ENTR MECH BOX SERVICE LIGHTS QUANTITY	(A),1 at entrance, 1 at each exit door.
277-18	SIDE CONSOLE COMPT SERVICE LIGHT	(A),Smartrend LED light.
277-19	SIDE CONSOLE COMPT SERVICE LIGHT WITH SWITCH	(A),Switch mounted with lamp assembly.
277-1A	REAR PLC AND FUSEBOX SERVICE LIGHTS	(S),Provided, LED.
277-29	SIDE CONSOLE COMPT SERVICE LIGHT MOUNTING LOCATION	(B),Front Structure
277-2B	CURBSIDE FORWARD HVAC DUCT ORIENTATION ON LIGHT PANEL	(B), Duct fixed pointed towards the aisle.
280-01	PASSENGER SIGNAL CHIMES	(B),Two electronic chimes, one above driver and one at rear exit. Chimes have a single tone which sounds once for regular activation, twice for wheelchair positions.
280-03	PASSENGER SIGNAL PULLCORDS	(B),Yellow cords are required.
280-07	HORIZONTAL PASSENGER SIGNAL PULLCORDS	(B),Set at NFIL designated basic height. All decks.
280-09	LWR DECK VERT PULLCORDS	(B),Two: at the first street and curbside pillars forward of the face of the upper deck.
280-0D	SECUREMENT OF VERTICAL PULLCORDS	(B),Looped or clamped to the horizontal depending on the location.
280-0T	PASSENGER SIGNAL TYPE AT WHEELCHAIR POSITIONS	(A),Push button mounted to flip-up seat grab rail.
280-0U	PUSH BUTTON SIGNAL AT WHEELCHAIR POSITIONS	(A),Push button only one on curbside wheel chair position and one on street side wheel chair position which is mounted to the under flip-up seat grabrail.
280-0V	PUSH BUTTON SIGNAL AT EXIT	(A),Mounted facing aisle on center stanchion (ref. wide exit), low profile non-recessed button.
280-0W	PUSH BUTTONS,VERT AND SEAT STANCHIONS	(T),Required on vertical stanchions, located C/S & S/S wheelchair barriers.
280-18	EXIT/ENTRANCE DOOR CHIME	(B),Not required.
284-01	ELECTRONIC CONTROL SYSTEM	(S),Vansco.
284-02	SYSTEM VOLTAGE	(S),24 VDC primary, 12 VDC secondary.

Option	Description	Tech Summary Description
284-03	SWITCHES	(S),Water resistant.
284-04	SPARE INPUT/OUTPUT PORTS FOR MULTIPLEX SYSTEM MODULES	(S),Minimum 10% input and 10% output, per electrical panel location.
284-05	SIDE CONSOLE LIGHTING	(A),LED lamps.
284-06	HAZARD WARNING LIGHTS	(B),Front, side and rear lights flash for hazard warning.
284-0B	SDS ELECTRICAL PANEL ORIENTATION	(B),Facing streetside.
284-0D	SDS ELECTRICAL PANEL LOCATION	(B),Mounted on backside of SDS rack.
284-0F	ENTRANCE DOOR CONTROLLER	(B),Basic with 5 position settings.
286-01	INSTRUMENT PANEL	(B),LCD touch display screen. Acrylic material with luminescent lighting, with Vansco Instrument Panel Cluster module.
286-02	SHIFT SELECTOR LOCATION	(S),Located on instrument panel.
286-03	EXTERIOR LAMP TEST	(B),Simultaneously depress both turn signals.
286-04	SPEEDOMETER	(B),part of Vansco instrument panel cluster. Set to display miles. With odometer (the display can be toggled to show Trip1, Trip 2, engine hours).
286-05	AUDIBLE SOUND FOR TURN SIGNALS/HAZARDS	(B),Using click sound for turn signal and for hazard warning.
286-0C	REGENERATIVE BRAKE DISABLE SWITCH LOCATION	(A),Inside destination sign compartment.
286-0D	SILENT ALARM	(A),required.
286-0F	SILENT ALARM SW LOCATION	(A),At side console.
286-0P	DIAGNOSTICS PLUG LOCATIONS	(B),Two diagnostic plugs under the front dash (left side of the steering column), at forward face of the SDS barrier (above driver) and on rear panel.
286-1R	286-1R	(T),Required in the SDS box.
289-01	SECUREMENT OF HARNESSES	(B),Hellerman tyton clamps, with Panduit releasable cable ties.
296-01	WIRING DECAL,REAR PLC AND FUSEBOX	(S),Provided, laminated.
296-02	WIRING DECAL,SIDE CONSOLE	(A),Laminated, installed on the inside of the SDS box door.
296-07	SIDE CONSOLE DOOR DECAL LANGUAGE	(B),English
298-01	WATER TEST DURATION	(B),10 minutes.
298-02	WATER TEST DURATION A/C	(B),Water Test with A/C on
304-01	EXTERIOR PAINT TYPE	(S),Axalta Imron Elite high solids polyurethane.
304-06	HIGH VOLTAGE SAFETY DECALS	(S),Required.
304-07	CORROSION PROTECTION	(A),grit blasted frame, moisture cure zinc-rich primer (applied for 18 year warranty protection), anti-chip undercoating, corrosion preventive coating sprayed inside frame tubes up to roof line.
304-0A	EXT DECALS,CUSTOMER SPECIFIC	(A),Required. Customer to provide the Engineering paint group with specific requirements.
304-0D	INTERIOR DECALS, CUSTOMER SPECIFIC	(A),Required.
304-0E	PASSENGER COMPARTMENT DECAL LANGUAGE	(A),English / Spanish / Simplified Chinese. Passenger compartment decals are the decals within the area of the coach designed for the seating of passengers and that are intended primarily for passenger viewing.
304-0F	INTERIOR FLEET NUMBER DECALS	(B),Required.
304-0G	MAINTENANCE DECAL LANGUAGE	(B),English. Maintenance decals are the decals that will be referenced primarily when performing maintenance on the coach.
304-0H	KNEELING / RAMP DECALS	(B),NFIL basic ramp & kneeling decal (red on white) and an arrow decal (red and black) provided near the kneeling / ramp deployment lights.
304-0J	AIR TANK DECALS	(B),NFIL basic.

Option	Description	Tech Summary Description
304-0M	EXT FLEET NUMBERS,NON-ROOF	(B),Required (reflective).
306-02	FIRE EXTINGUISHERS	(T),5 lb ABC class. With gauge, hose and mounting bracket. UL compliant for US customers. Customer supplied.
306-03	FIRE EXTINGUISHER LOCATION	(A),Mounted vertically on the aisle side of the upper forward face of the driver's barrier.
306-0C	MASK DISPENSER	(B),Not required.
350-01	DRIVER'S PEDALS, POSITION / TYPE	(B),Pedals not adjustable fore/aft. Brake pedal angle set at 45 degrees from pedal to floor. Throttle pedal angle set at 45 degrees from pedal to floor.
350-04	BRAKE VALVES	(S),E6.
350-06	DRVR'S CONTROL PLATE SURFACE TREATMENT	(A),Full metal jacket applied to area near the pedals.
350-07	TURN SIGNAL SWITCHES	(B),Basic switches, floor mounted.
350-08	DIMMER SWITCH	(B),Foot switch located beside side console panel.
350-0D	HAZARD WARNING LIGHT SW LOCATION	(A),On side console with additional foot switch located between the turn signal switches.
350-0G	STEERING COLUMN	(B),Douglas Autotech with tilt and telescopic features.
350-0H	STEERING WHEEL	(A),3 spoke, 20" diameter hard padded.
350-0M	DUAL HORN	(B),Provided with splash shield.
400-01	JACKING / LIFTING PADS	(B),4" diameter round pads at front and rear chassis.
420-02	EXTERIOR SIDE PANELS	(S),Fiberglass.
420-03	REAR RF MOUNTED AIR SCOOP	(B),Stainless Steel, unpainted (no coating).
420-04	STREETSIDE PROPULSION COMPT DOOR	(B),With wavy screen.
420-05	CURB & STREET SIDE ENG COMPARTMENT, SIDE CONSOLE ACCESS DOORS, STRUTS	(B),Supported by gas struts.
420-06	CURB & STREET ENG COMPARTMENT, BATTERY DOORS, LATCHES	(B),Quarter turn chrome plated 5/16" square key latches. Also, used for the separate battery access door.
420-07	CURBSIDE PROPULSION COMPARTMENT DOOR	(T),Solid door which includes battery disconnect switch access door (using gas strut). Also includes hydrogen fuel fill access door (using a gas strut).
420-09	DEFROSTER ACCESS DOOR LATCHES	(B),4 quarter turn chrome plated 5/16" square key latches.
420-0B	BATTERY COMPARTMENT DOOR	(B),Solid door located aft of the curb side rear wheel, separate from the engine/propulsion compartment.
420-0F	SIDE CONSOLE DOOR LATCHES	(B),Quarter turn chrome plated 5/16" square key quad latches.
420-0G	PROPULSION DOOR	(B),Solid door with built-in handle.
420-0H	PROPULSION DOOR STRUTS	(B),Two, the streetside strut has a locking mechanism.
420-0J	PROPULSION DOOR LATCHES	(B),Quarter turn chrome plated 5/16" square key quad latches.
420-0M	REAR LICENSE PLATE RETENTION	(B),Centered with bottom retainer and two upper inserts.
420-0P	RAIN GUTTER	(S),0.44" cross section bonded.
420-0R	ROOF HATCH INSTRUCTION LANGUAGE	(A),English / Spanish / Simplified Chinese.
420-0T	ROOF HATCH SIZE,FRONT	(B),24" X 24"
420-0U	ROOF HATCH TYPE,FRONT	(B),Basic hatch/vent.
420-0V	ROOF HATCH VENDOR,FRONT	(B),Transpec Worldwide.
420-15	ROOF HATCH SIZE,REAR	(A),24" X 36".

Option	Description	Tech Summary Description
420-16	ROOF HATCH TYPE,REAR	(A),Skylight.
420-17	ROOF HATCH VENDOR,REAR	(A),Spheros Parabus.
420-18	REAR ROOF HATCH (SKYLIGHT) FILM,TINT	(B),18% Light Transmittance.
420-1B	WIPERS	(B),Comotech motors 24 volt electric with Smartrend wet arm wipers. Intermittent.
420-1E	WINDSHIELD WASHER BOTTLE	(B),5 US gallon with electric powered pump mounted using 4 weld nuts.
420-1F	WINDSHIELD WASHER FILL LOCATION	(S),Accessed via a flip-out door built into the exterior side console access door.
420-1G	LOWER DRIVER'S VENT	(B),Provided.
420-1H	FENDERS	(B),Molded polyurethane.
420-1K	S1 WHEEL GUARDS	(A),Required on curbside forward of rear axle.
420-1M	EXTERIOR UPPER REAR	(A),Partially louvered style fiberglass door for rear HVAC.
420-1N	EXT UPPER REAR DOOR STRUTS	(B),Two, non-locking.
420-1P	EXT UPPER REAR DOOR,LATCHES	(B),Quarter turn chrome plate 5/16" square key latches.
420-1T	FRONT LICENSE PLATE LOCATION	(B),On center of defroster door.
420-1U	FRONT LICENSE PLATE RETENTION	(A),Bottom retainer, top inserts.
420-24	WIPERS, MOTOR ARM LENGTH	(B),34" long arm
420-25	WIPERS, WIPER BLADE LENGTH	(B),26" long blade
420-26	WIPERS, SPRAY STREAMS PER ARM	(B),2 streams per arm
420-2A	CABIN COOLANT FILL DOOR	(B),Basic hinged door.
420-2B	DRIP EDGE FOR REAR CROWN PANEL/HVAC DOOR	(B),Drip Edge along the bottom edge of the Rear Crown Panel/HVAC door to divert water entering the engine/propulsion compartment.
420-2D	UPPER CORNER PILLAR DOOR LATCHES	(B),Quarter turn chrome plate 5/16" square key latches.
421-01	INSULATION,SIDEWALL AND ROOF	(S),Polyisocyanurate foam. meets Docket 90 spec.
421-03	PROPULSION COMPARTMENT INSULATION	(S),Noise reduction acoustical foam, retained by perforated aluminum panels.
422-02	CEILING PANELS AFT OF FRONT WHEELHOUSE INCLUDING REAR PLC	(B),Antique white plastic, SST trim.
422-03	CEILING / HVAC COVER PANELS ABOVE FRONT WHEELHOUSES	(B),Antique White fiberglass.
422-04	HVAC RETURN AIR GRILLE DOOR LOCK	(B),2 quad latches.
422-05	ENTRANCE / DRIVER'S AREA PANELS COLOUR	(B),black. Includes dash, dest sign c/out, ent. mech. box, driver's o/head panels. and if used, ent. floor heat duct, frt. RH harness cover is black powder coated alum.
422-06	DRIVER'S CEILING PANEL MATERIAL	(B),Melamine.
422-07	INTERIOR PIER PANEL MATERIAL	(B),Thermoplastic.
422-08	PIER PANEL COLOUR	(B),Antique white
422-0A	INTERIOR LOWER SIDEWALL MATERIAL	(B),Melamine
422-0C	INTERIOR SIDEWALL MELAMINE	(B),Charcoal Grey Gloss.
422-0D	INTERIOR PROPULSION COMPARTMENT ACCESS PANEL	(B),There is a single hinged panel under the rear seat.



Option	Description	Tech Summary Description
422-0E	INTERIOR UPPER REAR PANEL	(B),Bulkhead panel covered with carpet / fabric material. With return air grille for RR mount HVAC system.
422-0F	CARPET / FABRIC,UPPER REAR INTERIOR PANEL	(A),Black axis with 1/2" plywood backing.
422-0H	TRIM,CARPET/MELAMINE UPPER REAR INTERIOR PANEL	(B),Painted steel to match panel.
422-0K	CURB AND STREET SIDE REAR BULKHEAD ACCESS PANELS	(B),Carpeted DB plywood.
422-0M	HRNS/AIR LINE COVERS AT UPPER DECK	(B),Painted flat black.
422-0N	FRT DEST SIGN DOOR LATCHES	(B),Short wing quad latches.
422-0P	DRIVER'S OVERHEAD PANEL	(S),With locker.
422-0R	DRIVER'S LOCKER LATCH	(B),Short wing quad latch.
422-0T	DRIVER'S COAT HOOK AND STRAP	(B),Located on the forward face of the harness cover behind the driver.
422-0U	SECURE DIAGNOSTIC STATION	(A),Above street side front wheelhouse. Incorporates driver's barrier. With fiberglass, flat panel, instead of Take One pockets.
422-0V	SDS ENCLOSURE COLOUR	(B),Flat Black.
422-0W	SDS ENCLOSURE DOOR LATCHES	(A),Two 5/16" sq key quad latch, paddle latch (CH751 key )in center
422-13	FRONT SUNVISOR / ROLLERBLINDS	(A),Grey rollerblind. Scissor type with 20" travel.
422-14	SIDE SUNVISOR/ROLLERBLIND	(A),Grey rollerblind. Scissor type with 20" travel.
422-15	SQUARE KEY T-HANDLE	(A),Shipped loose T handle and clip.
422-16	ENTRANCE MECHANISM BOX DOOR LATCH	(B),Two short wing quad latches.
422-18	GRAB HANDLE NEAR FRONT ROOF HATCH	(B),Required.
422-19	FLOOR HEAT DUCT MATERIAL	(B),Leathergrain textured SST.
422-1B	C/S,S/S REAR BULKHEAD ACCESS PANELS, OPENING METHOD	(B),Removable access panels.
422-1R	FRONT DASH, ACCESS PANEL LATCH	(B),Quarter turn, black powder coated 5/16" square key quad latches.
422-1W	INTERIOR UPPER REAR PANEL, TRIM OPTIONS	(B),Flat Trim Design
422-21	INTERIOR UPPER REAR PANEL, OPENING METHOD	(A),Hinged at top, held open with gas struts.
422-22	INTERIOR UPPER REAR PANEL, LATCHES	(B),5/16" square key quad latch.
422-23	INTERIOR REAR PLC ENCLOSURE, LATCHES	(B),5/16" square key quad latch.
423-0A	AD FRAME, SDS ENCLOSURE, VENDOR	(T),Customer supplied.
423-0C	AD FRAME, SDS ENCLOSURE, REAR	(T),One 19.5" x 25.5" powered ad display.
450-02	FLOORING	(A),Lower deck uses SpaceAge composite flooring. Upper deck uses fiberglass composite for step and floor to the rear wheelhouses and SpaceAge composite flooring to the rear.
450-03	DRIVESHAFT / TRANSMISSION / DRIVE MOTOR ACCESS PANELS	(B),Two panels set in the floor, one to access the driveshaft and the other to access the drive motor.



Option	Description	Tech Summary Description
450-06	ALTRO FLOOR COVERING	(A),Storm TFM 27903 (2.7 mm / 0.11" thick), for aisle and underseats.
450-0A	STEP TO UPPER DECK	(B),Yellow anti-slip coating is applied to the edges and vertical faces of the step.
450-0B	FRONT AXLE STANDEE LINE	(A),One white flooring safety line provided fore of the hump at the front axle.
450-0C	ENTRANCE NOSING	(B),Nosing is 2" wide yellow anti-skid applied to the ramp.
450-0D	EXIT NOSING	(B),2.5" yellow nosing for Altro / Tarabus flooring.
450-0F	REAR SEAT RISER COVERING MATERIAL	(B),Same material and colour as used for the flooring.
450-0J	DRIVER'S PLATFORM FLOORING	(A),Altro, Storm TFM 27903 (2.7 mm / 0.11" thick)
450-0K	DRIVER'S PLATFORM TRIM	(B),SST.
450-0M	OUTER WHEELHOUSES	(B),SST front and rear.
450-0N	INTERIOR FRONT W/HOUSE (LUGG RACK) COLOURS	(A),Black FMJ. An LED aisle light is provided on the streetside. Also, SST scuff guards are provided.
450-0T	TRIM UPPER DECK	(B),Aluminum.
450-13	INTERIOR FRONT W/HOUSE (LUGG RACK), SCUFF GUARDS	(B),Standard height scuff guard
450-14	EXIT DOOR, WHEELHOUSE AND UPPER DECK TRIM, MATERIAL	(B),Aluminum Trim
460-01	WINDSHIELDS	(B),72% light transmittance green laminated. With blue shade band for street and curb sides.
460-02	WINDSHIELD PROTECTIVE FILM	(B),Required for coach delivery beyond a 500 mile radius of final assembly.
460-04	PASS / DRV'R'S WINDOWS MANUFACTURER	(A),Arow Global flush mounted.
460-05	FLUSH PASSENGER WINDOWS	(A),Bottom is fixed, top tip-in.
460-07	SDS WINDOW	(B),Full fixed picture window supported by gas strut. Glazing matches passenger window, fully masked on interior side.
460-08	FLUSH WINDOW GLAZING	(A),Grey, 44% light transmittance, tempered.
460-0A	FLUSH WINDOW LOCKS	(A),Locking set-screw.
460-0C	WINDOW FRAME COLOUR	(B),All window frames are black anodized.
460-0D	WINDOW EMERGENCY EGRESS	(B),Minimum quantity based on FMVSS requirements, local, state/provincial, federal regulations or customer spec whichever is greater.
460-0E	SIDE DESTINATION SIGN WINDOWS	(B),Curbside. Fixed clear top and fixed bottom. Bottom matches passenger window glazing. (review 470 for side sign details).
460-0G	WINDOW GLAZING REPLACEMENT	(A),Basic replacement.
460-0J	PASS WINDOW THICKNESS	(B),6 mm
460-0K	DRIVER'S WINDOW,FLUSH	(A),With dual sliding sashes, exterior and interior handles (handle style). Non-egress.
460-0P	DRIVER'S WINDOW GLAZING	(A),Tempered with minimum 70% light transmittance.
470-01	DESTINATION SIGNS MFR	(A),Twin Vision Smart Series, LED display system.
470-02	DEST SIGN CONTROL UNIT LOCATION	(B),Under driver's overhead panel, at forward position of sawtooth panel.
470-05	TWIN VISION FRT.DEST.SIGNS	(B),Smart Series 3, LED amber, 16 x 160.
470-07	FRONT DESTINATION SIGN GLASS	(B),Laminated.
470-0A	CURB SIDE DESTINATION SIGN LOCATION	(A),At the second window, aft of the entrance door.

Option	Description	Tech Summary Description
470-0C	TWIN VISION CURBSIDE DEST.SIGNS	(A),Smart Series 3, LED, amber, 14 x 112 (42.25" wide display).
470-0H	REAR ROUTE SIGN, LOCATION	(B),At the upper curbside.
470-0K	TWIN VISION REAR ROUTE SIGNS	(A),Smart Series 3, LED, amber 16 X 48.
470-0P	AVA / AVL SYSTEM	(A),INIT system.
470-10	AVA/AVL LED SIGN LOCATION	(A),Required on the HVAC overhead enclosure at front.
470-11	AUTO VEHICLE MONITORING SYSTEM (AVM)	(A),Fuel Master
470-13	AVM, FUEL MANAGEMENT LOCATION	(T),Module located at curbside destination sign, powered by 24V battery.
470-16	NEW FLYER CONNECT-DIAGNOSTIC & MONITORING SYSTEM	(B),Diagnostic & Monitoring - required without driver maneuver awareness system (DMAS).
470-1P	AVA/AVL LED SIGN	(A),Init PIDMOBILE3 LED Display sign, 8x96 pixel, 16 characters. Supplied by Init. Cutout Size 28.97" X 2.56".
470-20	NF CONNECT SUBSCRIPTION TERM	(A), 2 years.
480-02	EXTERIOR MIRROR MANUFACTURER	(B),Hadley.
480-03	EXTERIOR SS MIRROR GLASS STYLE	(B),2/1 (upper portion is flat, lower portion is convex).
480-04	EXTERIOR SS MIRROR GLASS SIZE	(B),8" x 15"
480-05	EXTERIOR SS MIRROR HEATING REQUIREMENTS	(A),Heated.
480-06	EXTERIOR SS MIRROR POWER OPTIONS	(A),Dual remote control. (The upper and lower portions are remote controlled.)
480-08	EXTERIOR SS MIRROR ARM FUNCTIONALITY	(B),Pull back. Mirror arm is manually returned to its previously set position after deflection.
480-09	STREET SIDE MIRROR MOUNT	(B),Low mount.
480-0E	EXTERIOR CS MIRROR GLASS STYLE	(B),2/1 (upper portion is flat, lower portion is convex)
480-0F	EXTERIOR CS MIRROR GLASS SIZE	(A),9" x 13"
480-0G	EXTERIOR CS MIRROR HEATING REQUIREMENTS	(A),Heated.
480-0H	CURB SIDE MIRROR POWER OPTIONS	(B),Dual remote control. (The upper and lower portions are remote controlled.)
480-0K	EXTERIOR CS MIRROR ARM FUNCTIONALITY	(B),Pull back. Mirror arm is manually returned to its previously set position after deflection.
480-0V	STREET / CURB SIDE MIRROR W/TURN SIGNAL	(A),LED, mounted at back of mirror head.
480-11	STREET / CURB SIDE HEATED MIRROR ACTIVATION	(A),Heat for mirrors turned on when the defroster is turned on.
480-13	DRIVER'S REAR VIEW MIRROR	(A),8" x 15", black, flat.
480-14	SPOT MIRROR	(B),6" diameter flat mirror with short arm, located at curbside front.
480-15	EXIT DOOR MIRROR	(B),convex, 12" diameter, mounted on curved modesty panel stanchion.
480-26	STREET/ CURB SIDE MIRROR ARM MATERIAL	(B),Carbon steel
490-01	ENT DOOR DRIVE SYS	(B),Electric
490-02	ENTRANCE DOOR	(B),Vapor slide glide.
490-03	ENTR DOOR LIMIT SWITCH SET-UP	(B),Solid state proximity switch.
490-04	ENTRANCE EMERGENCY RELEASE VALVE	(B),Within mech box.

Option	Description	Tech Summary Description
490-05	ENTRANCE DOOR MAGNETIC DUMP VALVE	(B),Required, located at baseplate.
490-07	ENTR/EXIT FRANG.COVER,LANGUAG E	(A),English, Spanish, Simplified Chinese.
490-09	ENTRANCE DOOR COLOUR, INTERIOR	(S),Black
490-0B	ENTRANCE DOOR HANDLES	(B),Yellow powder coated.
490-0K	ENTRANCE DOOR GLAZING	(B),Full length single piece, 72% green.
490-0V	ENTR/EXIT FRANG.COVER	(S),Perforated cover
490-0W	ENT AND EXIT DOORS, INTERIOR AND EXTERIOR PANEL COLOR	(B),Black Powder Coat
491-01	EXIT DOOR DRIVE SYS	(B),Electric with pneumatic emergency release.
491-02	EXIT DOOR	(A),One curbside rear exit door. Wide Ameriview Vapor Slide Glide, 45.2" between panels.
491-03	SLIDE GLIDE EXIT LIMIT SWITCH	(B),Solid state proximity switch.
491-04	EXIT DOOR CONTROL	(A),Vapor Class Acoustic Sensing System. Activates door opening and detects obstruction on closing.
491-0D	EXIT DOOR SENSITIVE EDGE	(B),Pnumatic sensitive vertical edge sensor provided at all exit doors.
491-0H	EXIT FRANGIBLE COVER SECUREMENT	(B),Magnetic latch.
491-0M	EXIT DOOR ASSIST HANDLES	(B),Yellow powdercoated, UPA-3 Aluminum
491-0P	EXIT DOOR GREEN LIGHT	(B),LED green light indicates that the exit door is set to open.
491-0T	EXIT DOOR ALARM	(B),Buzzer and red 'rear door open' indicator at the instrument panel activated when the sensitive edge is triggered.
491-0U	EXIT DOOR GLASS SIZE	(B),Full length.
491-0V	EXIT DOOR GLAZING	(A),6 mm, Green, 72% light transmittance, laminated.
491-12	EXIT DOOR GREEN LIGHT MOUNTING ORIENTATION	(B),Exit door green light mounted horizontally on baseplate
526-01	40' PASSENGER SEAT QUANTITY	(A),39
526-04	PASSENGER SEAT MANUFACTURER	(A),United State Seating
526-05	USS PASSENGER SEAT MODEL	(A),Gemini seats.
526-09	REAR BENCH SEAT	(B),1-3-1 hinged seat.
526-0A	PASSENGER SEAT MOUNTING	(B),Cantilever.
526-0B	SEAT MOUNTED GRABRAIL	(A),Thermoplastic.
526-0C	FIRST SEAT,CURBSIDE UPPER REAR	(B),Forward facing.
526-0D	FIRST SEAT,STREETSIDE UPPER REAR	(B),Forward facing.
526-0F	PASSENGER SEATING BARRIER	(A),Integrated with restraint system.
526-0G	SEAT POSITION,FORWARD OF REAR EXIT	(B),Forward facing.
526-0U	RECARO DRIVER'S SEAT MODEL	(B),Ergo AM80
526-0W	DRIVER'S SEAT COVER	(B),All vinyl.
526-0Y	DRIVER'S SEAT BELT	(A),Lap belt with retractor on left hand side.
526-10	DRIVER'S SEAT BELT COLOR	(B),Black

Option	Description	Tech Summary Description
526-14	DRIVER'S SEAT BASE RISER MATERIAL	(B),Black powdercoated steel.
526-18	WHEELCHAIR POSITIONS, QUANTITY	(B),Two. At basic locations, one aft of the curbside and one aft of the streetside front wheelhouses.
526-19	CS WHEELCHAIR RESTRAINT SYSTEM	(A),Q'POD forward facing barrier with integrated wheelchair restraint.
526-1A	SS WHEELCHAIR RESTRAINT SYSTEM	(A),Q'POD forward facing barrier with integrated wheelchair restraint.
526-1D	SHOULDER HARNESS,W/CHR RESTRAINTS	(A),Integrated with Q-Pod restraint system.
526-1F	STANCHION / GRABRAIL STYLE	(B),Curved style vertical stanchions. Using cast SST fittings for vertical and horizontal stanchions.
526-1G	OVERHEAD HORIZONTAL GRABRAILS	(B),SST.
526-1H	OVERHEAD GRABRAIL HANDHOLD STRAPS	(A),Flexible grey PVC straps, secured to horizontal stanchions, locations as per customer spec.
526-1J	OVERHEAD GRABRAIL HANDHOLD STRAPS,QUANTITY	(A),Eight
526-1K	COLOR - STANCHIONS AT EXITS & RR RISER STEP	(B),Yellow SST.
526-1M	VERT FORE OF S/S FRT W/HOUSE	(B),Black SST.
526-1N	VERT AFT OF S/S FRT W/HOUSE	(T),black SST.
526-1P	VERT FORE OF C/S FRT W/HOUSE	(A),Black SST.
526-1R	VERT AFT OF C/S FRT W/HOUSE	(B),To match colour of vertical seat stanchions (see option 526-1T).
526-1T	VERTICAL STANCHIONS AT SEATS - COLOR	(B),SST.
526-1U	CENTERED STANCHION FOR WIDE EXITS	(A),Yellow SST.
526-1W	GRABRAILS AT WHEELCHAIR POSITIONS	(A),SST, under flip-up seats (type and locations as per customer spec).
526-22	FRONT CURBSIDE LUGGAGE RACK	(B),Horizontal tube wraps around aft, aisle and fore sides.
526-23	FAREBOX GRABRAIL STYLE	(B),Basic SST grab rail.
526-26	MODESTY PANEL MELAMINE COLOR	(B),Charcoal Grey Gloss
526-27	C/SIDE FORE UPR DECK MOD PNL, GAP	(B),Approximately 2" diagonally.
526-29	BARRIER AT STREET SIDE REAR RISER	(B),Modesty panel (material and color per 526-25/526-26).
526-2M	BARRIER FWD OF EXIT(S)	(B),Upper panel, 0.5" clear polycarbonate, basic width.
526-2T	EMERGENCY INSTRUCTIONS	(A),English / Spanish / Simplified Chinese
526-32	DRIVER'S SEAT, FORE/AFT SEAT TRAVEL	(A),The fore / aft seat travel is 11".
526-37	FRONT CURBSIDE LUGGAGE RACK COLOR	(A),Black
526-3B	FAREBOX GRABRAIL COLOR	(A),Black
526-3V	SEAT FWD OF REAR BENCH SEAT	(B),Forward facing.
549-02	HVAC UNIT 1	(B),Thermo King TE15 rear A/C unit.
549-04	HVAC UNIT MOTOR TYPE	(S),Brushless motor for primary heating & cooling system.
549-05	REFRIGERANT	(B),R-407C freon.

Option	Description	Tech Summary Description
549-06	HVAC AIR INTAKE	(B),Recirculated air only.
549-07	HVAC RETURN AIR FILTER	(A),TK Dacron MERV 7 (disposable) filter.
549-0A	HVAC PULLDOWN SPEC	(A),Will meet the APTA 115F TO 95F Pull Down, 20 minute time limit test requirements and any less stringent test requirement inside the temperature range. (ex. 110F to 95F in 20 minutes or 115F to 95F in 30 minutes)
549-0C	HVAC SYSTEM VALVES	(S),Brass ball valves with basic handles.
549-0D	A/C AND HEATER LINE CLAMPS	(B),Ideal.
549-0E	A/C COMPRESSOR	(S),Electric driven compressors integrated into the main HVAC unit.
549-0J	HVAC ELECTRONICS	(B),Thermo King Intelligaire 3, valid for A/C or heater units. With limited diagnostic capabilities.
549-0K	HVAC CONTROL PANELS	(A),Thermo King, installed in sawtooth panel above driver.
549-0N	A/C PRESSURE READINGS	(B),Obtained via the Thermo King Intelligaire 3 control panel.
549-0Y	HVAC BOOSTER FAN	(B),MCC overhead fan with brushless motor. For non-60' CNG coaches.
549-15	HVAC FAN SPEED SWITCH	(A),Required at the side console.
549-16	BOOSTER PUMP	(B),Valeo SPump 260W CAN capable.
549-1A	DEFROSTER	(A),Grayson 3 speed brushless blower, electrically controlled damper, with SST box.
549-1E	AUXILIARY/CABIN HEATER	(B),Valeo Thermo DC 200 (20 kw) @ 690V electric heater.
549-20	FRONT CURB SIDE FLOOR HEATER SYSTEM	(A),Grayson Thermal Systems unit, with brushless motor. The casing is SST with brushed finish. (note: exact position may be dependant on seating layout.)
549-22	FRONT STREET SIDE FLOOR HEATER SYSTEM	(A),Grayson Thermal Systems unit, with brushless motor. The casing is SST with brushed finish. (note: exact position may be dependant on seating layout.)
580-01	FRONT WHEELCHAIR RAMP	(A),NFIL electric SmartRider Ramp at front door. 32" wide, with constant slope boarding and 1:6 slope capability. Use with SmartRider Plus suspension.
580-02	FRONT RAMP CONTROL	(B),Ramp switch at driver's instrument panel.
580-08	WHEELCHAIR RAMP,SURFACE	(B),Covered with Full Metal Jacket anti-skid treatment. The leading edge is yellow FMJ, the side flanges are painted yellow.
580-0G	KNEELING/RAMP DEPLOYMENT WARNING BEEPER	(B),IP68-rated beeper, medium loud fast beep.
580-0H	FRONT KNEELING/RAMP DEPLOYMENT WARNING BEEPER LOCATION	(B),Curbside under front mask.
600-05	BACK-UP ALARM	(B),Basic alarm located on curbside.
600-06	BACK-UP ALARM SOUND LEVEL	(B),107 dBA.
600-0C	INTERIOR FAN(S),MANUFACTURER	(A),Bergstrom, 12 volt.
600-0E	DASH FANS,QTY AND LOCATION	(A),One fan, 3.5" right of center
600-0G	FAN UNDER FRT DEST SIGN COMPT	(A),At approx. 41.25" to the left of center.
600-0J	SDS TRAY QUANTITY	(A),Three trays total.
600-0M	FAREBOX PEDESTAL	(B),Stainless Steel Material. Length = 26.56"; Front fore length = 12.36"; Width = 13.96"; Height = 6"
600-0N	FAREBOX	(A),Genfare Transview 150.
600-0P	FAREBOX,SUPPLIED BY	(A),Supplied and installed by customer.
600-0R	FAREBOX POSITION / HOLES	(A),Located in NFIL preferred position whether installed by NFIL or by customer.
600-0T	FAREBOX GROUND STRAP	(A),Required, farebox grounded to chassis, ground strap inside pedestal.
600-1B	NAME PLATE HOLDER	(A),Required.
600-1F	DRIVER'S STORAGE BOX BEHIND SEAT	(A),Basic box with paddle latch, no key.
600-1M	TAKE ONES,CURBSIDE LUGG.RK.	(T),Schedule holder, mounted on curbside front wheelhouse. Customer supplied.

Option	Description	Tech Summary Description
600-1R	REGISTR/MAINT HOLDER	(A),One 9.5" X 6" polycarbonate registration holder.
600-22	DRIVER'S TICKET BOX/TRANSFER CARD HOLDER	(T),Required, details and location as per customer spec. Customer supplied.
600-23	COFFEE CUP HOLDER/TRAY	(T),Customer supplied.
600-24	TRASH CONTAINERS	(A),Require with mounting hardware only and or shipped loose.
600-26	RADIO,COMMUNICATION SYSTEM	(A),Included in the AVA/AVL system.
600-29	TRAFFIC SIGNAL CONTROL SYSTEM	(A),GTT. Model 2101 computer connected to GPS based system required.
600-2G	VIDEO SURVEILLANCE SYSTEM	(A),Interior and exterior cameras.
600-2H	VIDEO SURVEILLANCE SYSTEM,MFR	(A),SafeFleet (MobileView).
600-2Z	NFIL FIRE DETECTORS, LOCATION	(T),Located in the engine compartment, and muffler compartment.
600-3V	BICYCLE RACK MANUFACTURER/MODEL	(A),Sportworks,APEX2, front mounted.
600-3W	BICYCLE RACK MOUNTING	(A),Bolted slide-in standoff
600-3Y	BICYCLE RACK REMOVAL	(A),Quick release rack.
600-3Z	BICYCLE RK MATL/COLOR	(A),SST, satin anti glare finish.
600-42	BICYCLE RACK INSTRUCTIONS	(A),English / Spanish / Simplified Chinese
600-43	HYDROGEN DETECTION	(A),Amerex Safety Net System.
600-47	HYDROGEN DETECTOR LOCATIONS	(A),Four detectors on the roof, one in the propulsion compartment, one in the A/C compartment, and two in the interior cabin (one in front unit and one in rear unit).
600-4Y	PASSENGER USB CHARGERS	(A),Required.
600-4Z	PASSENGER USB CHARGER LOCATION	(A),Incorporated (where available) into seats.
600-54	A-PILLAR CAMERA & MONITOR	(A),SafeFleet camera and monitor located on driver's A-Pillar. Provisions, includes installation of cabling and mounting plates.
600-5A	AUTOMATIC PASSENGER COUNTER SYSTEM	(A),Full system.
600-5B	AUTOMATIC PASSENGER COUNTER	(A),IRIS/IRMA (stand-alone system)
600-5K	AUTOMATIC PASSENGER COUNTER (APC) EXIT DOOR BASEPLATE SENSOR, QTY	(A),One
600-5M	IRIS/IRMA AUTOMATIC PASSENGER COUNTER (APC) MODEL	(A),Matrix.
600-64	NAME PLATE HOLDER MANUFACTURER	(T),Customer supplied.
600-65	NAME PLATE HOLDER LOCATION	(A),Left of center of the destination sign door.
600-67	REGISTR/MAINT HOLDER LOCATION	(A),Mounted on street side of SDS enclosure behind driver
600-68	TRASH CONTAINERS LOCATION	(A),Front of C/S luggage rack, inside rack
600-6B	GROUND STRAP #1 LOCATION	(A),Front of coach, centered on splash guard
600-6F	FAREBOX PEDESTAL TREATMENT	(B),Black full metal jacket
600-6H	FAREBOX ORIENTATION	(B),Facing entrance door

Option	Description	Tech Summary Description
600-6R	COFFEE CUP HOLDER/TRAY LOCATION	(T),At MDT mount.
600-71	TAKE ONES, CURBSIDE LUGG.RK, HOLDER SIZE	(T),5x10x9.
600-77	DASH FANS, SWITCH LOCATION	(B),At Side Console
600-79	FAN UNDER FRT DEST SIGN COMPT, SWITCH LOCATION	(B),At Side Console
600-84	H2 FILL STATION COMMUNICATION	(A) Communication between bus and fill island done via infrared (IRDA) transmitter connected to TN1 fast fill receptacle.

## **Tab 8, Delivery Schedule**

### **Solicitation Requirements:**

N/A

### **New Flyer Response:**

Please see the following attachment for the New Flyer proposed [Delivery Schedule](#).



URBANA - SR-2817 - 18-Nov-22 Validated



2817		Dates	Week	Anniston Full Build - 10xXHE40				
				Line Entry	Line Exit	Completion & Signatures	Clean/Dispatch	Delivery @ Customer Site
3RD QUARTER	2023	Jul 3-7	27					
	2023	Jul 10-14	28					
	2023	Jul 17-21	29	1				
	2023	Jul 24-28	30	2				
	2023	Jul 31-Aug 4	31	1				
	2023	Aug 7-11	32	2				
	2023	Aug 14-18	33	1	1			
	2023	Aug 21-25	34	2	2			
	2023	Aug 28-Sep 1	35	1	1			
	2023	Sep 4-8	36		2			
	2023	Sep 11-15	37		1	1		
	2023	Sep 18-22	38		2	2	1	
	2023	Sep 25-29	39		1	1	2	1
4TH QUARTER	2023	Oct 2-6	40			2	1	2
	2023	Oct 9-13	41			1	2	1
	2023	Oct 16-20	42			2	1	2
	2023	Oct 23-27	43			1	2	1
	2023	Oct 30-Nov 3	44				1	2
	2023	Nov 6-10	45					1
	2023	Nov 13-17	46					
	2023	Nov 20-24	47					
	2023	Nov 27-Dec 1	48					
	2023	Dec 4-8	49					
	2023	Dec 11-15	50					
	2023	Dec 18-22	51					
	2023	Dec 25-29	52					
1ST QUARTER	2024	Jan 1-5	1					
	2024	Jan 8-12	2					
	2024	Jan 15-19	3					
	2024	Jan 22-26	4					
	2024	Jan 29-Feb 2	5					
	2024	Feb 5-9	6					
	2024	Feb 12-16	7					
	2024	Feb 19-23	8					
	2024	Feb 26-Mar 1	9					
	2024	Mar 4-8	10					
	2024	Mar 11-15	11					
	2024	Mar 18-22	12					
	2024	Mar 25-29	13					
TOTAL				10	10	10	10	10

NOTE: Attached is a new/updated Customer specific Schedule of your bus build(s), for your review and use. This production schedule is based on New Flyer's current production and delivery information and may be subject to further changes at New Flyer's discretion.

Please share this information with your own Inspectors and/or contracted Inspection Service. In so doing, it ensures all parties are current on the production flow of buses that must be inspected. As appropriate, Inspection Agencies with multiple Customers can then plan overall Inspection coverage.



To: Karl Gnadt, Managing Director/CEO  
From: Ashlee McLaughlin, External Affairs Director  
Date: December 7, 2022  
Subject: Approval of Hydrogen Fuel Cell Project Technical Assistance Contract

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- A. Introduction:** The District plans to purchase ten 40-foot hydrogen fuel cell electric buses. Continued support from the Center for Transportation and the Environment (CTE) for data reporting, bus procurement and build, and station management will aid in successful deployment.
- B. Recommended Action:** Staff recommends authorization of the Managing Director to enter into a contract with the Center for Transportation and the Environment, in an amount not to exceed \$204,500.
- C. Prior Trustee Action:** On March 28, 2018, the Board of Trustees approved a contract with CTE for Technical Assistance in the amount of \$523,225 for the initial phase of the District's hydrogen fuel cell bus project.
- D. Summary:** The Center for Transportation and the Environment (CTE) will help guide the next phase of the District's Hydrogen Fuel Cell project from start to finish. A detailed Statement of Work and Budget can be found in **Attachment I** of the proposed contract, which includes data reporting support, bus procurement and build support, and station management.
- E. Background:** The District has partnered with CTE since 2017 on the initial phase of the hydrogen project. CTE is a non-profit whose mission is to improve the efficiency and sustainability of energy and transportation systems. CTE has managed a portfolio of over \$450 million in research, development, and demonstration projects since 1993. CTE has supported deployments of over 140 fuel cell electric and battery electric buses as well as permitting, design, build, installation, and maintenance of hydrogen fueling stations, as well as depot and on-route electric charging stations. CTE's research, development, demonstration, and deployment projects have helped bridge the gap to commercialization for zero-emission buses.
- F. Alternatives – advantages/disadvantages:** Authorizing the Managing Director to enter into a contract with CTE allows the District to carry out the next phase of the Hydrogen Fuel Cell bus project successfully.
- G. Budget & Staffing Impacts:** The District will utilize \$58,500 in state funding and \$146,000 in local funding.

	State	Local
Data Reporting Support	\$58,500	\$31,500
Bus Procurement and Build Support		\$70,000
Station Management		\$44,500



**PROFESSIONAL SERVICES AGREEMENT  
BETWEEN  
THE CHAMPAIGN URBANA MASS TRANSIT DISTRICT  
AND  
CENTER FOR TRANSPORTATION AND THE ENVIRONMENT, INC.**

This Agreement made and entered into on this \_\_\_\_\_ of December, 2022 by and between the Center for Transportation and the Environment (“CTE”), located at 730 Peachtree Street, Suite 450, Atlanta, GA 30308 and the Champaign-Urbana Mass Transit District (“MTD”), located at 1101 E University Ave, Urbana, IL, both hereinafter referred to collectively as the “Parties” and individually as “Party,” serves as the contract for the scope of work that CTE agrees to provide under MTD’s first ten (10) 40’ fuel cell electric bus (FCEB) deployment.

In consideration of the mutual covenants contained herein, the parties agree as follows:

The following attachments are incorporated by reference and made part of this Agreement herein:

*Attachment I:* CTE Statement of Work & Budget

**1) STATEMENT OF SERVICES TO BE PERFORMED**

By executing this Agreement, CTE agrees to perform and comply with the scope of work set forth in the Statement of Work (herein “Work”), attached and fully incorporated herein as *Attachment I*. CTE shall diligently work to perform the Work specified in the time and manner described and in accordance with the terms and provisions of this Agreement. CTE agrees to perform the Work with that standard of professional care and skill normally provided in the performance of similar services.

**2) FEDERAL FUNDING**

CTE acknowledges that this Agreement is funded in part by the Federal Transit Administration (FTA) and is subject to Federal Terms & Conditions, included herein as *Attachment II*. With regard to their scope of work, CTE shall comply with the Federal Terms & Conditions applicable to the Work provided hereunder. Furthermore, CTE shall not take any action or fail to take any action that would jeopardize MTD’s compliance with applicable Federal Terms and Conditions.

**3) TERM OF AGREEMENT**

The period of performance for this Agreement shall commence upon the execution of this Agreement by both Parties. Services, work products and/or deliverables defined in CTE’s Statement of Work shall be completed no later than June 30, 2024.

**4) AGREEMENT AMOUNT**

The total Agreement Amount to be paid CTE for the Work performed under this Agreement shall not exceed two hundred and four thousand and five hundred dollars (\$204,500.00). CTE will invoice MTD for services provided, and/or services and equipment purchased, based on actual and allowable costs.

## **5) INVOICES / MANNER OF PAYMENT**

CTE will submit invoices to MTD on a timely basis, with the appropriate supporting documentation providing evidence of hours worked and associated hourly rates, as well as any documentation of actual costs incurred and paid by CTE in performing their scope of work under this Agreement. MTD shall review and accept or reject invoices within 15 business days, otherwise such invoices shall be deemed accepted. A final invoice will be submitted by CTE within 30 days of the end date of the project or Termination of this Agreement. Invoices will be submitted via email to [procurement@mtd.org](mailto:procurement@mtd.org). Payments to CTE shall be made via check or wire transfer.

## **6) CHANGE ORDERS**

MTD may, at any time, by written order, make changes within the scope of work and services contained in *Attachment I*. If such changes cause an increase in the budgeted cost of or the time required for performance, CTE shall notify MTD and provide a proposed adjustment within ten (10) days receipt of the written change order. Any and all agreed adjustments shall be detailed in a written supplement to this Agreement and signed by both Parties.

## **7) TERMINATION**

This Agreement may be terminated in whole or in part as follows:

- A. By either Party, if the other Party materially fails to comply with the terms and conditions of this Agreement and such failure is not corrected within fifteen (15) days following receipt of written notice from the non-breaching party.
- B. By CTE, upon thirty (30) days written notification to MTD setting forth the reasons for such termination, the effective date, and, in the case of partial termination, the portion to be terminated.
- C. By MTD, upon thirty (30) days written notification to CTE setting forth the reasons for such termination, the effective date, and, in the case of partial termination, the portion to be terminated.

Upon Termination, MTD will reimburse CTE for the contract price for all services performed in accordance with the manner of performance up to the effective date of termination, to include works in-progress.

## **8) INSURANCE**

For the duration of this Agreement, CTE shall maintain, and shall require subcontractors, if any, to maintain the following insurance policies and minimum limits:

- A. Workers' Compensation insurance at statutory limits of not less than:
  - i. \$1,000,000 – Bodily Injury: Each Accident
  - ii. \$1,000,000 – Disease: Each Employee
  - iii. \$1,000,000 – Disease: Policy Limit; and
- B. Commercial General Insurance at \$1,000,000 per occurrence, \$2,000,000 general aggregate; and
- C. Automobile Liability Insurance at \$1,000,000 combined single limit for all hired, scheduled, and non-owned autos; and
- D. \$1,000,000 in Professional Liability Insurance.

Upon request, CTE shall furnish the MTD with a certificate(s) of insurance showing CTE and subcontractors, if any, have complied with this Article. CTE shall provide the MTD thirty (30) days written notification of cancellation of such policies.

#### **9) INDEMNIFICATION**

CTE will, indemnify, defend, and hold harmless MTD and its board members, directors, officers, and employees (collectively, the "Indemnitee") against any liabilities, losses, claims, expenses (including attorney's fees) or damage they may suffer as a result of third-party claims, demands, actions, costs or judgments arising from and to the extent caused by CTE's negligence or willful misconduct related to performance under this Agreement. Notwithstanding the foregoing, in no event will either Party be liable for any consequential, special, incidental, indirect or punitive damages, including without limitation lost profits, whether the claim is based on contract, tort, strict liability, or any other theory of law or equity.

#### **10) INDEPENDENT CONTRACTOR**

The Parties agree that CTE, as well as any individual working for CTE, is an independent contractor and not an employee of MTD for any purpose. Nothing contained in this Agreement shall be construed to create the relationship of employer and employee, principal and agent, partnership, or joint venture. Both Parties acknowledge that neither CTE nor any of its employees or subcontractors are employees of MTD for state or federal tax purposes and is not entitled to any employee benefits of MTD.

#### **11) OWNERSHIP OF WORK**

Upon payment of services rendered, CTE assigns to MTD all of its rights in the final version of the original works produced pursuant to this Agreement. If any CTE intellectual property (methods, processes, trade secrets, preexisting software) is included in its work, CTE grants MTD a nonexclusive, royalty-free, license to display and otherwise make lawful use of those materials as contemplated by this Agreement, so long as credit to CTE is provided. CTE may retain a copy of all material produced under this Agreement for use in its general business activities.

#### **12) CONFIDENTIALITY**

CTE agrees to keep confidential any MTD technical data, electronic files, and other written or oral information not in the public domain or not previously known and will not disclose any such data to any other party without MTD's prior written consent unless required by law.

#### **13) EQUAL EMPLOYMENT OPPORTUNITY**

During the performance of this Agreement, CTE shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, age, disability, marital status, military status veteran status, sexual orientation, gender identity or expression, genetic information, HIV/AIDS status or any other protected characteristic under applicable law. CTE shall take affirmative actions to ensure that applicants are employed, and that employees are treated during their employment, without regard to their race, religion, color, sex, disability, national origin, or any other characteristic protected under state, federal, or local laws. CTE further agrees to include a similar provision in all subcontracts, except subcontracts for standard commercial supplies or raw materials.

#### 14) RECORDS AND AUDITS

CTE shall maintain records containing pertinent information (including billings, invoices, dates, length of time, services rendered, etc.) for a period of four (4) years after expiration or termination of this Agreement. MTD has the right to review and to copy any records and supporting documentation pertaining to the performance of this Agreement and CTE agrees to allow the authorized auditor(s) reasonable access to such records during normal business hours. CTE agrees to include a similar right of MTD in any subcontracts related to performance of this Agreement.

#### 15) FORCE MAJEURE

Neither CTE nor MTD shall be liable for or deemed to be in default for any delay or failure in performance under this Agreement or interruption of services resulting, directly or indirectly, from acts of God, civil or military authority, acts of public enemy or hostile governmental action, strikes, labor disputes, pandemics, fire or other casualty, inability to obtain labor or materials or reasonable substitutes for labor or materials necessary for performance of the services, or other causes, except financial, that are beyond the reasonable control of CTE or MTD. Notwithstanding the above, if the cause of the force majeure event is due to party's own action or inaction, then such cause shall not excuse that party from performance under this Agreement.

#### 16) MISCELLANEOUS

- A. **Assignment.** Neither Party may assign its respective rights or duties under this agreement to a third Party (except to a successor in interest to substantially all of the business of the assignor) without the prior written consent of the other Party.
- B. **Amendment or Waiver.** This Agreement may not be modified, amended or waived except by a written instrument executed by duly authorized representatives of both parties. No failure or delay in exercising any right shall operate as a waiver thereof.
- C. **Compliance with Laws.** CTE shall comply with all applicable federal, state, and local laws, rules, and regulations in performance of the Work under this Agreement.
- D. **Counterparts.** This Agreement may be executed and delivered in any number of counterparts, each of which, when executed and delivered, shall be deemed an original, and all of which together shall constitute the same contract.
- E. **Entire Agreement.** This Agreement constitutes the entire agreement of the Parties with respect to the subject matter of the Agreement and supersedes all previous oral and written agreements, understandings, and communications of the Parties relating to such matters.
- F. **Governing Law.** This Agreement will be governed by and constructed in accordance with the laws of the State of Georgia, USA, without regard to the conflict of laws principles thereof.
- G. **Headings.** Headings on the sections and paragraphs of this Agreement are for convenience and reference only, and the words contained therein shall in no way be held to explain, modify, amplify, or aid in the interpretation, construction, or meaning of the provisions of this Agreement.
- H. **Severability.** Should any part of this agreement be rendered or declared invalid or unenforceable by a court of competent jurisdiction, it shall not affect the validity of any other provision, which shall remain in full force and effect.
- I. **Subcontracting.** CTE may subcontract with third party providers in performance of specific tasks included in CTE's Statement of Work. In the event that subcontractors are used, CTE will notify MTD of the intent to use subcontractors and ensure

subcontractor adherence to the same quality standards and assurances required of CTE, including adherence to applicable Federal Terms and Conditions.

- J. **Survival of Terms.** The provision of section 9 (Indemnification), 11 (Ownership of Work) and 12 (Confidentiality) shall survive the expiration or termination of this Agreement as well as the provisions which by their nature would be intended to be applicable following any such termination or expiration.

Please indicate your acceptance of these terms by returning one signed copy of this Agreement to CTE.

**Center for Transportation & the  
Environment, Inc. (CTE):**

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**Read, agreed to, and accepted by  
MTD (Champaign-Urbana Mass  
Transit District):**

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

*Enclosures:*

Attachment I: CTE Statement of Work & Budget

Attachment II: Applicable Federal Terms & Conditions

**Attachment I**  
**CTE Statement of Work & Budget**

**Task 1 – Data Reporting Support**

CTE will support MTD in data reporting for its FCEB fleet, including the current two 60' buses and MTD's upcoming procurement of ten 40' FCEBs.

CTE and MTD will generate monthly reports on the fleet performance. MTD will be responsible for generating report components related to standard vehicle operation. These are the metrics in the FCEB Fleet Performance section of the current report. CTE will develop metrics in the Hydrogen Station Performance and Environmental Impacts section of the report.

In preparation for the deployment of 40' FCEBs, CTE will develop a dashboard for streamlining data reporting. The dashboard will compile existing data streams into an online portal that summarizes fleet and station performance. MTD will be able to enter the data into the upload file directly and CTE will maintain the dashboard.

CTE Budget: \$90,000

**Task 2 – Bus Procurement and Build Support**

CTE and Transworld Associates (TWA) will support MTD in the procurement and build of ten 40' FCEBs.

CTE will review the contract and vehicle specifications; attend the pre-production meeting for the buses in-person; take one trip to the New Flyer manufacturing facility in Anniston, AL for the configuration audit, and take one trip to Anniston for the pre-delivery inspection.

TWA will support the pre-production meeting, configuration audit, and pre-delivery inspection.

CTE Budget: \$55,000

TWA Budget: \$15,000

**Task 3 – Station Management**

CTE will support MTD in ensuring that the electrolysis refueling station has the capacity and appropriate control strategy to support ten 40' buses in addition to the current FCEB fleet.

CTE will manage the effort for Trillium to implement a solution that will enable MTD to operate their electrolyzer 24 hours per day.

CTE will also evaluate MTD's expected fueling needs and expected electrolyzer uptime requirements. CTE will work with Trillium to develop a control strategy to minimize MTD's costs.

CTE Budget: \$44,500

The total budget for CTE's support of MTD's deployment of ten 40' FCEBs is \$204,500.





To: Karl Gnadt, Managing Director/CEO  
From: Ashlee McLaughlin, External Affairs Director  
Date: December 7, 2022  
Subject: Approval of Training Simulator Contract

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- A. Introduction:** The District is in need of a new transit bus training simulator to replace two existing simulators, purchased in 2010. A new simulator with the latest technology would provide bus operators with a more comprehensive training experience that is currently unattainable with the existing simulators.
- B. Recommended Action:** Staff recommends authorization of the Managing Director to enter into a contract with FAAC, Inc. in the amount of \$765,243.00 for one new training simulator.
- C. Summary:** The District has identified a need to purchase a new simulator that provides an immersive experience for trainees and operators in retraining to safely experience realistic conditions and events while maximizing learning retention. The District currently has two simulators, purchased in 2010, that are out of warranty and require frequent technical support. A new simulator would provide a more reliable training tool with updated technology including new features that provide detailed feedback for instructors and trainees to learn from their experience in the simulated environment. The new simulator will be installed at 803 East University Avenue, where MTD's Safety & Training Department is located.
- D. Background:** A Request for Proposals (RFP) for a new simulator was released on June 27, 2022, and two proposals were received on August 12, 2022. A committee was formed to evaluate the proposals. Each committee member evaluated the proposals based on established criteria and then met as a group to discuss the evaluations. A smaller group of evaluators then attended a demonstration of each simulator proposer before making a final recommendation. More detail on the evaluation process can be found in Exhibit A.
- E. Alternatives – advantages/disadvantages:** A contract with FAAC allows the District to replace aged training simulators with a new simulator that will provide a more reliable training tool with additional training benefits to bus operators.
- F. Budget & Staffing Impacts:** This project is in the FY 2023 budget and will be funded 100% (\$765,243.00) with Federal funds through the American Rescue Plan Act of 2021 (ARPA). The Federal grant identifies \$500,000 for this line item. Additional ARPA funds are available, and the Federal grant will be revised to cover the full expense. The contract with FAAC includes training for relevant staff to learn to operate the new simulator and associated software.

## CONTRACT

### 1. Contract Documents

The Contract consists of the documents listed below. In case of any conflict among these documents, the order of precedence shall be:

1. Form of Contract
2. Federal Transit Administration Requirements (Exhibit A)
3. RFP No. 2022-05
4. Proposal dated August 12, 2022, FAAC Reference Number 001-08-00029 and Cost Proposal Clarification Form submitted November 18, 2022

A modification or change to any Contract document shall take its precedence from the term it amends. All other documents and terms and conditions shall remain unchanged.

### 2. Scope of Work

As defined in RFP No. 2022-05, Proposal dated August 12, 2022, FAAC Reference Number 001-08-00029, and Cost Proposal Clarification Form submitted November 18, 2022

### 3. Compensation

The Champaign-Urbana Mass Transit District shall pay \$765,243 and FAAC, Inc. shall accept the amount as full compensation for all costs and expenses of completing the Work as described in the attached Quotation in accordance with the Contract, including but not limited to all labor and material required, overhead, shipping, risks and obligations, taxes (as applicable), fees and profit, and any unforeseen costs.

### 4. Contract Term and Period of Performance

The effective date of this Contract shall be \_\_\_\_\_. The contract delivery date shall be within 18 months of the effective date of this contract.

### 5. Notices

Any Notice legally required to be given by one party to another under the Contract shall be in writing, dated and signed by the party giving such Notice or by a duly authorized representative of such party. Notices shall not be effective unless transmitted by any method that provides confirmation of transmission and delivery, such as email with return receipt, fax, certified mail or registered mail and addressed to:

Champaign-Urbana Mass Transit District

1101 East University Ave.

Urbana, IL 61802

FAAC, Incorporated

\_\_\_\_\_  
\_\_\_\_\_

## 6. Entire Agreement

This Contract constitutes the complete and entire agreement between the Champaign-Urbana Mass Transit District and FAAC, Inc. and supersedes any prior representations, understandings, communications, commitments, agreements or Proposals, oral or written, that are not incorporated as a part of the Contract.

FAAC, Inc.

Champaign-Urbana Mass Transit District

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Signature of Authorized Official

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Signature of Authorized Official

---

Printed Name and Title

---

Karl P. Gnadt, Managing Director/CEO

---

Printed Name and Title

---

Date

---

Date

---

Tax ID Number

Exhibit A

FEDERAL TRANSIT ADMINISTRATION REQUIREMENTS

**INCORPORATION OF FEDERAL TRANSIT ADMINISTRATION (FTA) TERMS**

The preceding provisions include, in part, certain Standard Terms and Conditions required by DOT, whether or not expressly set forth in the preceding Contract provisions. All Contractual provisions required by DOT, as set forth in the FTA Circular 4220.1F, are hereby incorporated by reference. Anything to the contrary herein notwithstanding, all FTA mandated terms shall be deemed to control in the event of a conflict with other provisions contained in this Agreement. The Contractor shall not perform any act, fail to perform any act, or refuse to comply with any MTD requests which would cause the MTD to be in violation of the FTA terms and conditions.

**NO FEDERAL GOVERNMENT OBLIGATION TO THIRD PARTIES.**

The Contractor acknowledges and agrees that, notwithstanding any concurrence by the Federal Government in or approval of the solicitation or award of the underlying Contract, absent the express written consent by the Federal Government, the Federal Government is not a party to this Contract and shall not be subject to any obligations or liabilities to the MTD, Contractor or any other party (whether or not a party to that contract) pertaining to any matter resulting from the underlying Contract. The Contractor agrees to include the above clause in each subcontract financed in whole or in part with Federal assistance provided by the FTA. It is further agreed that the clause shall not be modified, except to identify the subcontractor who will be subject to its provisions.

**PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS OR RELATED ACTS**

The Contractor acknowledges that the provisions of the Program Fraud Civil Remedies Act of 1986, as amended, 31 U.S.C. § 3801 *et seq.* and U.S. DOT regulations, "Program Fraud Civil Remedies," 49 C.F.R. part 31, apply to its actions pertaining to this Project. Upon execution of the underlying contract, the Contractor certifies or affirms the truthfulness and accuracy of any statement it has made, it makes, it may make, or causes to be made, pertaining to the underlying contract or the FTA assisted project for which this contract work is being performed. In addition to other penalties that may be applicable, the Contractor further acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification, the Federal Government reserves the right to impose the penalties of the Program Fraud Civil Remedies Act of 1986 on the Contractor to the extent the Federal Government deems appropriate.

The Contractor also acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification to the Federal Government under a contract connected with a project that is financed in whole or in part with Federal assistance originally awarded by FTA under the authority of 49 U.S.C. chapter 53, the Government reserves the right to impose the penalties of 18 U.S.C. § 1001 and 49 U.S.C. § 5323(l) on the Contractor, to the extent the Federal Government deems appropriate.

- A. If a current or prospective legal matter that may affect the Federal Government emerges, the Contractor must promptly notify the Owner who will promptly notify the FTA Chief Counsel and FTA Regional Counsel.
  - i. Contractor shall include an equivalent provision in its subagreements at every tier, for any agreement that is a "covered transaction" according to 2 C.F.R. §§ 180.220 and 1200.220.

- ii. The types of legal matters that require notification include, but are not limited to, a major dispute, breach, default, litigation, or naming the Federal Government as a party to litigation or a legal disagreement in any forum for any reason.
  - iii. Matters that may affect the Federal Government include, but are not limited to, the Federal Government's interests in the Award, the accompanying Underlying Agreement, and any Amendments thereto, or the Federal Government's administration or enforcement of federal laws, regulations, and requirements.
- B. Contractor must promptly notify the Owner who will promptly notify the U.S. DOT Inspector General in addition to the FTA Chief Counsel or Regional Counsel, if there is any knowledge of potential fraud, waste, or abuse occurring on a Project receiving assistance from FTA.
  - i. The notification provision applies if a person has or may have submitted a false claim under the False Claims Act, 31 U.S.C. § 3729, et seq., or has or may have committed a criminal or civil violation of law pertaining to such matters as fraud, conflict of interest, bid rigging, misappropriation or embezzlement, bribery, gratuity, or similar misconduct involving federal assistance.
  - ii. This responsibility occurs whether the Project is subject to this Agreement or another agreement between the Recipient and FTA, or an agreement involving a principal, officer, employee, agent, or Third Party Participant of the Recipient. It also applies to subcontractors at any tier.
  - iii. Knowledge, as used in this paragraph, includes, but is not limited to, knowledge of a criminal or civil investigation by a Federal, state, or local law enforcement or other investigative MTD, a criminal indictment or civil complaint, or probable cause that could support a criminal indictment, or any other credible information in the possession of the Recipient. In this paragraph, "promptly" means to refer information without delay and without change. This notification provision applies to all divisions of the Recipient, including divisions tasked with law enforcement or investigatory functions.

The Contractor agrees to include the above two clauses in each subcontract. It is further agreed that the clauses shall not be modified, except to identify the subcontractor who will be subject to the provisions.

#### **ACCESS TO RECORDS AND REPORTS**

- A. Record Retention. The Contractor will retain, and will require its subcontractors of all tiers to retain, complete and readily accessible records related in whole or in part to the contract, including, but not limited to, data, documents, reports, statistics, sub-agreements, leases, subcontracts, arrangements, other third party agreements of any type, and supporting materials related to those records.
- B. Retention Period. The Contractor agrees to comply with the record retention requirements in accordance with 2 C.F.R. § 200.333. The Contractor shall maintain all books, records, accounts and reports required under this Contract for a period of at not less than three (3) years after the date of termination or expiration of this Contract, except in the event of litigation or settlement of claims arising from the performance of this Contract, in which case records shall be maintained until the disposition of all such litigation, appeals, claims or exceptions related thereto.
- C. Access to Records. The Contractor agrees to provide sufficient access to FTA and its contractors to inspect and audit records and information related to performance of this contract as reasonably may be required.
- D. Access to the Sites of Performance. The Contractor agrees to permit FTA and its contractors access to the sites of performance under this contract as reasonably may be required.

### **CHANGES TO FEDERAL REQUIREMENTS**

Contractor shall comply with all applicable FTA regulations, policies, procedures and directives, including without limitation those listed directly or by reference in the Master Agreement between the recipient and FTA, as they may be amended or promulgated from time to time during the term of the contract. Contractor's failure to comply shall constitute a material breach of the contract.

### **TERMINATION FOR CONVENIENCE**

MTD may terminate this contract, in whole or in part, at any time by written notice to the Contractor when it is in the MTD's best interest. The Contractor shall be paid its costs, including contract close-out costs, and profit on work performed up to the time of termination. The Contractor shall promptly submit its termination claim to MTD to be paid the Contractor. If the Contractor has any property in its possession belonging to MTD, the Contractor will account for the same, and dispose of it in the manner MTD directs.

### **TERMINATION FOR DEFAULT**

If the Contractor does not deliver supplies in accordance with the contract delivery schedule, or if the contract is for services, the Contractor fails to perform in the manner called for in the contract, or if the Contractor fails to comply with any other provisions of the contract, the MTD may terminate this contract for default. Termination shall be effected by serving a Notice of Termination on the Contractor setting forth the manner in which the Contractor is in default. The Contractor will be paid only the contract price for supplies delivered and accepted, or services performed in accordance with the manner of performance set forth in the contract.

If it is later determined by the MTD that the Contractor had an excusable reason for not performing, such as a strike, fire, or flood, events which are not the fault of or are beyond the control of the Contractor, the MTD, after setting up a new delivery of performance schedule, may allow the Contractor to continue work, or treat the termination as a Termination for Convenience.

### **CIVIL RIGHTS LAWS AND REGULATIONS**

Federal Equal Employment Opportunity (EEO) Requirements. These include, but are not limited to:

- A. Nondiscrimination in Federal Public Transportation Programs. 49 U.S.C. § 5332, covering projects, programs, and activities financed under 49 U.S.C. Chapter 53, prohibits discrimination on the basis of race, color, religion, national origin, sex (including sexual orientation and gender identity), disability, or age, and prohibits discrimination in employment or business opportunity.
- B. Prohibition against Employment Discrimination. Title VII of the Civil Rights Act of 1964, as amended, 42 U.S.C. § 2000e, and Executive Order No. 11246, "Equal Employment Opportunity," September 24, 1965, as amended, prohibit discrimination in employment on the basis of race, color, religion, sex, or national origin.
  - i. Nondiscrimination on the Basis of Sex. Title IX of the Education Amendments of 1972, as amended, 20 U.S.C. § 1681 *et seq.* and implementing Federal regulations, "Nondiscrimination on the Basis of Sex in Education Programs or Activities Receiving Federal Financial Assistance," 49 C.F.R. part 25 prohibit discrimination on the basis of sex.
  - ii. Nondiscrimination on the Basis of Age. The "Age Discrimination Act of 1975," as amended, 42 U.S.C. § 6101 *et seq.*, and Department of Health and Human Services

- implementing regulations, "Nondiscrimination on the Basis of Age in Programs or Activities Receiving Federal Financial Assistance," 45 C.F.R. part 90, prohibit discrimination by participants in federally assisted programs against individuals on the basis of age. The Age Discrimination in Employment Act (ADEA), 29 U.S.C. § 621 *et seq.*, and Equal Employment Opportunity Commission (EEOC) implementing regulations, "Age Discrimination in Employment Act," 29 C.F.R. part 1625, also prohibit employment discrimination against individuals age 40 and over on the basis of age.
- iii. Federal Protections for Individuals with Disabilities. The Americans with Disabilities Act of 1990, as amended (ADA), 42 U.S.C. § 12101 *et seq.*, prohibits discrimination against qualified individuals with disabilities in programs, activities, and services, and imposes specific requirements on public and private entities. Third party contractors must comply with their responsibilities under Titles I, II, III, IV, and V of the ADA in employment, public services, public accommodations, telecommunications, and other provisions, many of which are subject to regulations issued by other Federal agencies.

### **CIVIL RIGHTS AND EQUAL OPPORTUNITY**

MTD is an Equal Opportunity Employer. As such, the MTD agrees to comply with all applicable Federal civil rights laws and implementing regulations. Apart from inconsistent requirements imposed by Federal laws or regulations, the MTD agrees to comply with the requirements of 49 U.S.C. § 5323(h) (3) by not using any Federal assistance awarded by FTA to support procurements using exclusionary or discriminatory specifications.

Under this Agreement, the Contractor shall at all times comply with the following requirements and shall include these requirements in each subcontract entered into as part thereof.

- A. **Nondiscrimination.** In accordance with Federal transit law at 49 U.S.C. § 5332, the Contractor agrees that it will not discriminate against any employee or applicant for A-26 employment because of race, color, religion, national origin, sex, disability, or age. In addition, the Contractor agrees to comply with applicable Federal implementing regulations and other implementing requirements FTA may issue.
- B. **Race, Color, Religion, National Origin, Sex.** In accordance with Title VII of the Civil Rights Act, as amended, 42 U.S.C. § 2000e *et seq.*, and Federal transit laws at 49 U.S.C. § 5332, the Contractor agrees to comply with all applicable equal employment opportunity requirements of U.S. Department of Labor (U.S. DOL) regulations, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor," 41 C.F.R. chapter 60, and Executive Order No. 11246, "Equal Employment Opportunity in Federal Employment," September 24, 1965, 42 U.S.C. § 2000e note, as amended by any later Executive Order that amends or supersedes it, referenced in 42 U.S.C. § 2000e note. The Contractor agrees to take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, national origin, or sex (including sexual orientation and gender identity). Such action shall include, but not be limited to, the following: employment, promotion, demotion or transfer, recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.
- C. **Age.** In accordance with the Age Discrimination in Employment Act, 29 U.S.C. §§ 621-634, U.S. Equal Employment Opportunity Commission (U.S. EEOC) regulations, "Age Discrimination in Employment Act," 29 C.F.R. part 1625, the Age Discrimination Act of 1975, as amended, 42



U.S.C. § 6101 *et seq.*, U.S. Health and Human Services regulations, "Nondiscrimination on the Basis of Age in Programs or Activities Receiving Federal Financial Assistance," 45 C.F.R. part 90, and Federal transit law at 49 U.S.C. § 5332, the Contractor agrees to refrain from discrimination against present and prospective employees for reason of age. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

- D. **Disabilities.** In accordance with section 504 of the Rehabilitation Act of 1973, as amended, 29 U.S.C. § 794, the Americans with Disabilities Act of 1990, as amended, 42 U.S.C. § 12101 *et seq.*, the Architectural Barriers Act of 1968, as amended, 42 U.S.C. § 4151 *et seq.*, and Federal transit law at 49 U.S.C. § 5332, the Contractor agrees that it will not discriminate against individuals on the basis of disability. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

### **DISADVANTAGED BUSINESS ENTERPRISE (DBE)**

Policy - It is the policy of the Department of Transportation and the MTD that DBEs, as defined in 49 CFR Part 26, and as amended in Section 106(c) of the Surface Transportation and Uniform Relocation Assistance Act of 1987, shall have the maximum opportunity to participate in the performance of the Contract financed in whole or in part with federal funds under this Agreement. Consequently, the DBE requirements of 49 CFR Part 23 and Section 106(c) of the STURAA of 1987, apply to this Contract.

- A. The Contractor agrees to ensure that DBEs as defined in 49 CFR Part 23 and Section 106(c) of the STURAA of 1987, have the maximum opportunity to participate in whole or in part with federal funds provided under this Agreement. In this regard, the Contractor shall take all necessary and reasonable steps in accordance with the regulations to ensure that DBEs have the maximum opportunity to compete for and perform subcontracts. The Contractor shall not discriminate on the basis of race, color, national origin, religion, sex, age or physical handicap in the award and performance of subcontracts.
- B. It is further the policy of the MTD to promote the development and increase the participation of businesses owned and controlled by the disadvantaged. DBE involvement in all phases of the MTD's procurement activities are encouraged.

### **PROMPT PAYMENT**

The prime contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than 30 days from the receipt of each payment the prime contract receives from the Recipient. The prime contractor agrees further to return retainage payments to each subcontractor within 30 days after the subcontractors work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of the Recipient. This clause applies to both DBE and non-DBE subcontracts.

### **CARGO PREFERENCE REQUIREMENTS**

The Contractor agrees:

- A. To use privately owned United States-Flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to the underlying contract to the extent such vessels are available at fair and reasonable rates for United States-Flag commercial vessels;
- B. To furnish within 20 working days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, "on-board" commercial ocean bill-of-lading in English for each shipment of cargo described in the preceding paragraph to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington,



DC 20590 and to the FTA and MTD (through the Contractor in the case of a subcontractor's bill-of-lading.); and

- C. To include these requirements in all subcontracts issued pursuant to this contract when the subcontract may involve the transport of equipment, material, or commodities by ocean vessel.

### **FLY AMERICA**

The Fly America requirements apply to the transportation of persons or property, by air, between a place in the U.S. and a place outside the U.S., or between places outside the U.S., when the FTA will participate in the costs of such air transportation. Transportation on a foreign air carrier is permissible when provided by a foreign air carrier under a code share agreement when the ticket identifies the U.S. air carrier's designator code and flight number. Transportation by a foreign air carrier is also permissible if there is a bilateral or multilateral air transportation agreement to which the U.S. Government and a foreign government are parties and which the U.S. DOT has determined meets the requirements of the Fly America Act.

- A. When Federal funds are used to fund travel, Section 5 of the International Air Transportation Fair Competitive Practices Act of 1974 (49 U.S.C. 40118) (Fly America Act) requires Contractors, MTDs, and others use U.S.-flag air carriers for U.S. Government-financed international air transportation of personnel (and their personal effects) or property, to the extent that service by those carriers is available. It requires the Comptroller General of the United States, in the absence of satisfactory proof of the necessity for foreign-flag air transportation, to disallow expenditures from funds, appropriated or otherwise established for the account of the United States, for international air transportation secured aboard a foreign-flag air carrier if a U.S.-flag air carrier is available to provide such services.
- B. If available, the Contractor, in performing work under this contract, shall use U.S.-flag carriers for international air transportation of personnel (and their personal effects) or property.
- C. In the event that the Contractor selects a carrier other than a U.S.-flag air carrier for international air transportation, the Contractor shall include a statement on vouchers involving such transportation.
- D. The Contractor shall include the substance of this clause, including this paragraph (e), in each subcontract or purchase under this contract that may involve international air transportation.

### **DAVIS BACON ACT**

#### **Minimum wages**

- A. All laborers and mechanics employed or working upon the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the Contractor and such laborers and mechanics.
- B. Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often

than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR Part 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein; provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination and the Davis Bacon poster (WH-1321) shall be posted at all times by the Contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

- C. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the Contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- D. If the Contractor does not make payments to a trustee or other third person, the Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided, that the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Davis Bacon Act have been met. The Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.
- E. The contracting officer shall require that any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:
  - i. The work to be performed by the classification requested is not performed by a classification in the wage determination; and
  - ii. The classification is utilized in the area by the construction industry; and
  - iii. The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
- F. If the Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- G. In the event the Contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination with 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

- H. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (1)(iv) (B) or (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

Withholding

- I. The MTD shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the Contractor under this contract or any other Federal contract with the same prime Contractor, or any other federally-assisted contract subject to Davis Bacon prevailing wage requirements, which is held by the same prime Contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the Contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), all or part of the wages required by the contract, the MTD may, after written notice to the Contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

Payrolls and basic records

- J. Payrolls and basic records relating thereto shall be maintained by the Contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937, or under the Housing Act of 1949, in the construction or development of the project). Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis Bacon Act, the Contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.
- K. The Contractor shall submit weekly for each week in which any Contract work is performed a copy of all payrolls to the MTD for transmission to the Federal Transit Administration. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR part 5. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal Stock Number 029-005-00014-1), U.S. Government Printing Office, Washington, DC 20402. The prime Contractor is responsible for the submission of copies of payrolls by all subcontractor.
- L. Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

- i. That the payroll for the payroll period contains the information required to be maintained under 29 CFR part 5 and that such information is correct and complete;
  - ii. That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the Contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;
  - iii. That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the Contract.
- M. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (3)(ii)(B) of this section.
- N. The falsification of any of the above certifications may subject the Contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.
- O. The Contractor or subcontractor shall make the records required under paragraph (3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the Federal Transit Administration or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the Contractor or subcontractor fails to submit the required records or to make them available, the Federal MTD may, after written notice to the Contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

**Apprentices and trainees**

- P. Apprentices - Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship MTD recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship MTD (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the Contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a Contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the Contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the

apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator of the Wage and Hour Division of the U.S. Department of Labor determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship MTD recognized by the Bureau, withdraws approval of an apprenticeship program, the Contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

- Q. Trainees - Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the Contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.
- R. Equal employment opportunity - The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

**Compliance with Copeland Act requirements** - The Contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this Contract.

**Subcontracts** - The Contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the Federal Transit Administration may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime Contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the Contract clauses in 29 CFR 5.5.

**Contract termination: debarment** - A breach of the Contract clauses in 29 CFR 5.5 may be grounds for termination of the Contract, and for debarment as a Contractor and a subcontractor as provided in 29 CFR 5.12.

**Compliance with Davis Bacon and Related Act requirements** - All rulings and interpretations of the Davis Bacon and Related Acts contained in 29 CFR parts 1, 3 and 5 are herein incorporated by reference in this Contract.



**Disputes concerning labor standards** - Disputes arising out of the labor standards provisions of this Contract shall not be subject to the general disputes clause of this Contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6 and 7. Disputes within the meaning of this clause include disputes between the Contractor (or any of its subcontractors) and the contracting MTD, the U.S. Department of Labor, or the employees or their representatives.

**Certification of eligibility**

- A. By entering into this Contract, the Contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the Contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis Bacon Act or 29 CFR 5.12(a)(1).
- B. No part of this Contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis Bacon Act or 29 CFR 5.12(a)(1).
- C. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

**COPELAND ANTI-KICKBACK ACT**

The Contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this Contract.

**ENERGY CONSERVATION**

The Contractor agrees to comply with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act.

**RECYCLED PRODUCTS**

The Contractor agrees to provide a preference for those products and services that conserve natural resources, protect the environment, and are energy efficient by complying with and facilitating compliance with Section 6002 of the Resource Conservation and Recovery Act, as amended, 42 U.S.C. § 6962, and U.S. Environmental Protection MTD (U.S. EPA), "Comprehensive Procurement Guideline for Products Containing Recovered Materials," 40 C.F.R. part 247.

**ACCESS REQUIREMENTS FOR PERSONS WITH DISABILITIES (ADA)**

The Contractor agrees to comply with the requirements of 49 U.S.C. § 5301(d) which expresses the Federal policy that the elderly and persons with disabilities have the same right as other persons to use mass transportation services and facilities, and that special efforts shall be made in planning and designing those services and facilities to implement those policies. The Contractor also agrees to comply with all applicable requirements of section 504 of the Rehabilitation Act of 1973, as amended, 29 U.S.C. § 794, which prohibits discrimination on the basis of handicaps, and with the Americans with Disabilities Act of 1990 (ADA), as amended, 42 U.S.C. §§ 12101 et seq., which requires the provision of accessible facilities and services, and with the following Federal regulations, including any amendments thereto:

- A. U.S. DOT regulations, "Transportation Services for Individuals with Disabilities (ADA)," 49 C.F.R. Part 37;
- B. U.S. DOT regulations, "Nondiscrimination on the Basis of Handicap in Programs and Activities Receiving or Benefiting from Federal Financial Assistance," 49 C.F.R. Part 27;
- C. Joint U.S. Architectural and Transportation Barriers Compliance Board/U.S. DOT regulations, "Americans With Disabilities (ADA) Accessibility Specifications for Transportation Vehicles," 36 C.F.R. Part 1192 and 49 C.F.R. Part 38;
- D. U.S. DOJ regulations, "Nondiscrimination on the Basis of Disability in State and Local Government Services," 28 C.F.R. Part 35;
- E. U.S. DOJ regulations, "Nondiscrimination on the Basis of Disability by Public Accommodations and in Commercial Facilities," 28 C.F.R. Part 36;

- F. U.S. GSA regulations, "Accommodations for the Physically Handicapped," 41 C.F.R. Subpart 101-19;
- G. U.S. Equal Employment Opportunity Commission, "Regulations to Implement the Equal Employment Provisions of the Americans with Disabilities Act," 29 C.F.R. Part 1630;
- H. U.S. Federal Communications Commission regulations, "Telecommunications Relay Services and Related Customer Premises Equipment for the Hearing and Speech Disabled," 47 C.F.R. Part 64, Subpart F; and
- I. FTA regulations, "Transportation for Elderly and Handicapped Persons," 49 C.F.R. Part 609; and
- J. implementing requirements the FTA may issue.

#### **VETERANS PREFERENCE**

As provided by 49 U.S.C. § 5325(k), to the extent practicable, the Contractor agrees and assures that each of its Subrecipients:

(1) Will give a hiring preference to veterans, as defined in 5 U.S.C. § 2108, who have the skills and abilities required to perform construction work required under a third party contract in connection with a Capital Project supported with federal assistance appropriated or made available for 49 U.S.C. chapter 53, and

- (1) Will not require an employer to give a preference to any veteran over any equally qualified applicant who is a member of any racial or ethnic minority, female, an individual with a disability, or a former employee.

#### **SAFE OPERATION OF MOTOR VEHICLES**

- A. Seat Belt Use - The Contractor is encouraged to adopt and promote on-the-job seat belt use policies and programs for its employees and other personnel that operate company-owned vehicles, company-rented vehicles, or personally operated vehicles. The terms "company-owned" and "company-leased" refer to vehicles owned or leased either by the Contractor or MTD.
- B. Distracted Driving - The Contractor agrees to adopt and enforce workplace safety policies to decrease crashes caused by distracted drivers, including policies to ban text messaging while using an electronic device supplied by an employer, and driving a vehicle the driver owns or rents, a vehicle Contractor owns, leases, or rents, or a privately-owned vehicle when on official business in connection with the work performed under this agreement.

#### **GOVERNMENT-WIDE DEBARMENT AND SUSPENSION**

The Contractor shall comply and facilitate compliance with U.S. DOT regulations, "Nonprocurement Suspension and Debarment," 2 C.F.R. part 1200, which adopts and supplements the U.S. Office of Management and Budget (U.S. OMB) "Guidelines to Agencies on Governmentwide Debarment and Suspension (Nonprocurement)," 2 C.F.R. part 180. These provisions apply to each contract at any tier of \$25,000 or more, and to each contract at any tier for a federally required audit (irrespective of the contract amount), and to each contract at any tier that must be approved by an FTA official irrespective of the contract amount. As such, the Contractor shall verify that its principals, affiliates, and subcontractors are eligible to participate in this federally funded contract and are not presently declared by any Federal department or MTD to be:

- A. Debarred from participation in any federally assisted Award;
- B. Suspended from participation in any federally assisted Award;
- C. Proposed for debarment from participation in any federally assisted Award;
- D. Declared ineligible to participate in any federally assisted Award;
- E. Voluntarily excluded from participation in any federally assisted Award; or
- F. Disqualified from participation in any federally assisted Award.

By signing and submitting its bid or proposal, the bidder or proposer certifies as follows:

The certification in this clause is a material representation of fact relied upon by the MTD. If it is later determined by the MTD that the bidder or proposer knowingly rendered an erroneous certification, in addition to remedies available to the MTD, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment. The bidder or proposer agrees to comply with the requirements of 2 C.F.R. part 180, subpart C, as supplemented by 2 C.F.R. part 1200, while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.