

Motion No. M2023-65

Contract with BYD Coach and Bus LLC for Stride Bus Fleet and Chargers for the I-405 and SR522/NE 145th Street Stride Bus Rapid Transit Projects

Meeting:	Date:	Type of action:	Staff contact:
System Expansion Committee	08/10/2023		Brooke Belman, Deputy CEO, Chief Expansion Delivery Officer
			Ron Lewis, DECM Executive Director
			Bernard van de Kamp, Program Executive, Bus Rapid Transit
			Lucien Bruno, Deputy Program Executive – Stride Operations

Proposed action

Authorizes the chief executive officer to execute a contract with BYD Coach and Bus LLC for the purchase of the electric bus fleet and charging infrastructure for the I-405 and SR522/NE 145th Street Bus Rapid Transit projects in the amount of \$33,520,000 plus a 10 percent contingency of \$3,352,000, for a total authorized contract amount not to exceed \$36,872,000, all within the Stride baseline budgets.

Key features summary

- With Board authorization under two separate Motions, Sound Transit plans to award contracts to two different bus manufacturers through the Washington State Department of Enterprise Services (DES) Master Contract.
- This action would authorize a contract with BYD Coach and Bus LLC for the procurement of fourteen (14) articulated battery electric buses and charging receivers for the SR 522 BRT Project (Stride S3 line), and chargers for both BRT I-405 and SR 522 projects.
- \$4,840,000 of this contract will be committed from the I-405 BRT budget, with the remainder from the SR 522/NE 145th St. BRT project budget.
- The estimate informing this purchase order accounts for an assumed annual cost increase of 3.7% PPI based on recently observed rates from the PPI for Trucks and Bodies, Series No. WPU 1413.
- The Stride BRT project team engaged the Passenger Experience Department and its Passenger Persona program for a ride-along workshop and conducted an onboard survey for current ST Express passengers. As a result of these efforts, staff recommend purchasing Articulated Buses to serve the S3 Line.
- Through a series of modeling exercises vetted by industry experts, the project team confirmed the
 feasibility of BEB operations on all three Stride lines, leveraging fast opportunity charging at layover
 locations, as well as standard overnight and midday charging at Bus Base North.
- The all-electric SR522 Stride BRT fleet will help Sound Transit achieve its sustainability goals.

Background

Stride will be Sound Transit's first BRT service and will be operated with a fleet of 46 battery electric buses (BEB), with a mix of articulated and double decker buses, out of Bus Base North. The fleet procurement will be completed through purchase orders issued through the Washington State

Department of Enterprise Services (DES) Master Contract. The project team has developed a series of fleet specifications and requirements to inform the purchase order, supported by engineering consultants from Jacobs and IBI, and in coordination with internal Sound Transit departments including Operations, Portfolio Services Office, Passenger Experience, and Safety & Security. Following the issue of this purchase order, Sound Transit will work directly with each fleet manufacturer to finalize onboard elements and configurations. Given the nature of this type of procurement, the project team has built in anticipated cost estimates and contingency to allow the flexibility to finalize these elements after issuing the purchase order.

Environmental review of BRT program elements under the State Environmental Policy Act (SEPA) is complete. Sound Transit issued a SEPA Determination of Nonsignificance (DNS) for the Bus Base North in August 2020; a DNS for the I-405 BRT in September 2020; and a DNS for the SR 522/NE 145th BRT in March 2021.

The sections below outline the planning process to inform bus fleet type and size, along with supporting charging infrastructure.

Fleet Type

The project team recommends purchasing Articulated Buses on SR 522 (S3). Compared to the S1 and S2 routes, S3 will have shorter trips and shorter distances between stops, meaning that finding a seat for the duration of the ride will be less of a priority to passengers. The S3 route will also have more total stops. This will mean a higher proportion of the travel time is during the dwell. The articulated coaches will be ordered with three doors to facilitate efficient boarding and de-boarding.

Fleet Propulsion

Through a series of modeling exercises vetted by industry experts, the project team confirmed the feasibility of BEB operations on all three Stride lines, leveraging fast opportunity charging at layover locations, as well as standard overnight and midday charging at Bus Base North. A fully electrified Stride fleet and supporting charging infrastructure is being designed and the needed equipment will be obtained through this purchase order. For S3 operations, (14) K11M 60' articulated buses will be purchased from RIDE.

Layover Charging

Stride buses will utilize inductive fast chargers during their layover at all route termini. This method of charging was selected due to its minimal footprint in constrained urban areas and for having fewer moving parts compared to overhead pantograph chargers. The following route termini will each have two 300kW chargers: Burien Transit Center, Lynnwood City Center Station, South Shoreline/148th Station, SR 522/I405 Transit Hub. Downtown Bellevue layover will have four total chargers to support layover needs of the S1 and S2 lines. InductEV's 300kW fast chargers and bus receivers will be used for the entire Stride fleet.

Bus Base North Charging

Stride buses will utilize plug-in charging at BBN. This approach will allow for the highest parking flexibility and be more cost-effective than providing inductive chargers for every bus. After returning to the yard, each bus will be plugged into a 2:1 shared charger. A Charge Management System will direct charge levels according to the needs of each bus, accounting for assigned pullout time and managing the overall load to minimize or avoid demand chargers. The fleet team has selected 180kW Heliox chargers due to their ability to provide dynamic charging and meet the operational needs. To support maintenance charging and startup prototype testing, BBN will house (4) 50kW portable chargers. BBN will also include (1) InductEV fast-charger for operator training, testing receivers, and any opportunity charging required for operations and maintenance.

Total Fleet and Charger Count

The table below summarizes the total number of buses, chargers, and receivers to be obtained through these purchase orders. Note that total fleet count includes an industry standard spare ratio of at least 20%.

<u>Item</u>	Quantity
RIDE K11M Articulated Bus:	14
InductEV 300kW Inductive Charger:	13
Heliox 180kW 2:1 Plug-In Charger:	23
Heliox 50kW Portable Charger:	4

Project status

Project Identification	Alternatives Identification	Conceptual Engineering/ Draft EIS	Preliminary Engineering/ Final EIS	Final Design	Construction

Projected completion date for Construction Phase: (a) Q3 2028 S1; (b) Q2 2029 S2; (c) Q2 2028 S3.

Project scope, schedule and budget summaries are located on pages 131 and 137 of the June 2023 Agency Progress Report.

The project team has developed vehicle specifications that have informed vehicle requirements and purchase orders. After issuing the purchase orders, the project team will work with the manufacturers during pre-production meetings and engineering phases to finalize design prior to the delivery of the initial prototype fleet.

Procurement information

Sound Transit intends to purchase the buses and chargers using Washington State Department of Enterprise Services (DES) Master Contract 06719, which was competitively advertised in March 2020 and further awarded in April 2021 (final term ending March 2026) to multiple manufacturers in accordance with Revised Code of Washington (RCW) 39.26 and DES current procurement policies and procurement process. As a result of the multiple awards to several manufacturers, Sound Transit is able to leverage the contract to select bus models and supporting infrastructure that meet agency requirements without the need to complete a separate formal competitive procurement. Sound Transit has utilized DES contracts previously related to fleet orders for ST Express.

By way of DES competitive procurement, Sound Transit has reviewed the contract pricing and is in alignment with what the agency would expect to pay for buses of this type. Additionally, DES Contract 06719 terms and conditions allow bus manufacturers to offer lower prices to participants of the DES contract, as well as require that manufacturers must cap the base price of their bus to the annual change in Producer Price Index (PPI) for Truck and Bus Bodies, Series No. WPU 1413; however allows flexibility to negotiate a more favorable-fixed PPI rate. These reasons above, along with Sound Transit's independent review result in a determination that the pricing is be fair and reasonable. Sound Transit's Independent Cost Estimate currently accounts for anticipated PPI increases, based on current market trends, along with additional onboard amenities not included in the base price. With that said, Sound Transit needs to establish a contract prior to engaging in final negotiations. Upon obtaining Board approval to proceed with awarding a contract, Sound Transit intends to issue a Purchase Order pursuant to DES Contract 06719 directly with BYD Coach and Bus LLC.

Duration of this contract is anticipated to be from contract award in September 2023 (tentative) through final vehicle delivery and acceptance in December 2026.

Fiscal information

This action is within the authorized project allocation to date and sufficient funds remain after approval of this action to fund the remaining work in the construction phase as contained in the current cost estimate of this project. This action does not impact the affordability of any other system expansion project.

The baseline budget for the SR522/NE 145th Street BRT project is \$581,500,000. Within the vehicle phase, \$38,320,000 has been allocated to the budget line item for vehicles and chargers. The action would commit \$32,032,000 to the contract amount for vehicles and chargers and leave a budget balance of \$6,288,000.

The baseline budget for the I-405 BRT project is \$1,269,000,000. Within the vehicle phase, \$94,060,000 has been allocated to the budget line item for vehicles and chargers. The action would commit \$4,840,000 to the contract amount for chargers and leave a budget balance of \$8,744,000.

SR	522	Bus	Rapid	Transit	Pro	iect
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(in thousands)

	Project Phase	Authorized Project Allocation	Board Approvals	This Action	Board Approved Plus Action	Uncommitted / (Shortfall)
	Agency Administration	\$57,810	\$15,344	\$	\$15,344	\$42,466
	Preliminary Engineering	15,790	15,399		15,399	391
	Final Design	43,400	32,132		32,132	11,268
	Third Party Agreements	7,350	2,084		2,084	5,266
	Right of Way	89,620	8,495		8,495	81,125
	Construction	303,370	34,959		34,959	268,411
	Construction Services	25,840				25,840
Г	Vehicles	38,320		32,032	32,032	6,288
	Total Current Budget	\$581,500	\$108,412	\$32,032	\$140,444	\$441,056
	Phase Detail Vehicles					
4	Vehicles	\$38,320	\$	\$32,032	\$32,032	\$6,288
Ļ	➤ Total Phase	\$303,370	\$34,959	\$32,032	\$32,032	\$6,288
		Authorized				
		Project	Board		Board Approved	Uncommitted /
	Project Phase	Project Allocation	Approvals*	This Action	Board Approved Plus Action	(Shortfall)
	Project Phase Administration	•		This Action	• •	
	Administration Preliminary Engineering	\$52,220 43,540	Approvals* \$20,668 38,168	This Action	Plus Action \$20,668 38,168	(Shortfall)
	Administration Preliminary Engineering Final Design	### Allocation \$52,220 43,540 26,130	**************************************	This Action	Plus Action \$20,668 38,168 12,140	(Shortfall) \$31,552 5,372 13,990
	Administration Preliminary Engineering Final Design Third Party Agreements	\$52,220 43,540 26,130 5,810	\$20,668 38,168 12,140 1,608	This Action	Plus Action \$20,668 38,168 12,140 1,608	(Shortfall) \$31,552 5,372 13,990 4,202
	Administration Preliminary Engineering Final Design Third Party Agreements Right of Way	### Allocation \$52,220 43,540 26,130 5,810 53,500	Approvals* \$20,668 38,168 12,140 1,608 32,283	This Action	\$20,668 38,168 12,140 1,608 32,283	(Shortfall) \$31,552 5,372 13,990 4,202 21,217
	Administration Preliminary Engineering Final Design Third Party Agreements Right of Way Construction	### Allocation \$52,220 43,540 26,130 5,810 53,500 963,550	Approvals* \$20,668 38,168 12,140 1,608 32,283 580,516	This Action	Plus Action \$20,668 38,168 12,140 1,608 32,283 580,516	(Shortfall) \$31,552 5,372 13,990 4,202 21,217 383,034
	Administration Preliminary Engineering Final Design Third Party Agreements Right of Way Construction Construction Services	## Allocation \$52,220 43,540 26,130 5,810 53,500 963,550 30,190	\$20,668 38,168 12,140 1,608 32,283 580,516 1,789		Plus Action \$20,668 38,168 12,140 1,608 32,283 580,516 1,789	(Shortfall) \$31,552 5,372 13,990 4,202 21,217 383,034 28,401
Γ	Administration Preliminary Engineering Final Design Third Party Agreements Right of Way Construction Construction Services Vehicles	## Allocation \$52,220	\$20,668 38,168 12,140 1,608 32,283 580,516 1,789 80,476	4,840	Plus Action \$20,668 38,168 12,140 1,608 32,283 580,516 1,789 85,316	(Shortfall) \$31,552 5,372 13,990 4,202 21,217 383,034 28,401 8,744
	Administration Preliminary Engineering Final Design Third Party Agreements Right of Way Construction Construction Services	## Allocation \$52,220 43,540 26,130 5,810 53,500 963,550 30,190	\$20,668 38,168 12,140 1,608 32,283 580,516 1,789		Plus Action \$20,668 38,168 12,140 1,608 32,283 580,516 1,789	(Shortfall) \$31,552 5,372 13,990 4,202 21,217 383,034 28,401
	Administration Preliminary Engineering Final Design Third Party Agreements Right of Way Construction Construction Services Vehicles Total Current Budget Phase Detail - Vehicles	\$52,220 43,540 26,130 5,810 53,500 963,550 30,190 94,060 \$1,269,000	\$20,668 38,168 12,140 1,608 32,283 580,516 1,789 80,476 \$687,171	4,840 \$80,476	Plus Action \$20,668 38,168 12,140 1,608 32,283 580,516 1,789 85,316 \$772,487	(Shortfall) \$31,552 5,372 13,990 4,202 21,217 383,034 28,401 8,744 \$496,513
	Administration Preliminary Engineering Final Design Third Party Agreements Right of Way Construction Construction Services Vehicles Total Current Budget Phase Detail - Vehicles Vehicles	## Allocation \$52,220	\$20,668 38,168 12,140 1,608 32,283 580,516 1,789 80,476 \$687,171	4,840 \$80,476 \$4,840	Plus Action \$20,668 38,168 12,140 1,608 32,283 580,516 1,789 85,316 \$772,487	(Shortfall) \$31,552 5,372 13,990 4,202 21,217 383,034 28,401 8,744 \$496,513
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	Administration Preliminary Engineering Final Design Third Party Agreements Right of Way Construction Construction Services Vehicles Total Current Budget Phase Detail - Vehicles Vehicles Total Phase	## Allocation \$52,220	\$20,668 38,168 12,140 1,608 32,283 580,516 1,789 80,476 \$687,171	4,840 \$80,476 \$4,840 \$4,840 Proposed Total	Plus Action \$20,668 38,168 12,140 1,608 32,283 580,516 1,789 85,316 \$772,487	(Shortfall) \$31,552 5,372 13,990 4,202 21,217 383,034 28,401 8,744 \$496,513
	Administration Preliminary Engineering Final Design Third Party Agreements Right of Way Construction Construction Services Vehicles Total Current Budget Phase Detail - Vehicles Vehicles Total Phase Contract Detail	## Allocation \$52,220	\$20,668 38,168 12,140 1,608 32,283 580,516 1,789 80,476 \$687,171 \$80,476	4,840 \$80,476 \$4,840 \$4,840 Proposed Total for Board	Plus Action \$20,668 38,168 12,140 1,608 32,283 580,516 1,789 85,316 \$772,487	(Shortfall) \$31,552 5,372 13,990 4,202 21,217 383,034 28,401 8,744 \$496,513 \$8,744 \$4,744 \$4,744 \$4,744
	Administration Preliminary Engineering Final Design Third Party Agreements Right of Way Construction Construction Services Vehicles Total Current Budget Phase Detail - Vehicles Vehicles Total Phase Contract Detail RIDE	## Allocation \$52,220	\$20,668 38,168 12,140 1,608 32,283 580,516 1,789 80,476 \$687,171 \$80,476	4,840 \$80,476 \$4,840 \$4,840 Proposed Total for Board Approval	Plus Action \$20,668 38,168 12,140 1,608 32,283 580,516 1,789 85,316 \$772,487	(Shortfall) \$31,552 5,372 13,990 4,202 21,217 383,034 28,401 8,744 \$496,513 \$8,744 \$4,744 \$4,744 \$4,744 \$4,744 \$4,744 \$4,744 \$4,744
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Amounts are expressed in Year of Expenditure \$000s.

Disadvantaged and small business participation

Sound Transit promotes and encourages small business participation, which also includes disadvantaged business enterprises (DBEs). Small business and DBE goals are based upon an examination of subcontracting opportunities contained in the work of this contract/agreement and the number of small businesses/DBEs available to perform such subcontracting work.

Given that this was procured via a cooperative purchase (Washington State Department of Enterprise Services (DES) Master Contract.), analyses for determining small business goals were not undertaken. As such, small business goals were not established by Sound Transit for this procurement.

^{*} Board Approvals = Commitment and PO Contingency Remaining as of 7/31/23

For detailed project information, see page 146 of the 2023 Financial Plan & Adopted Budget.

Public involvement

Sound Transit will continue to lead community outreach with jurisdictions if and when there are any new developments related to the Stride fleet and charging. This effort will include but is not limited to open houses, workshops, customer surveys, City Councils, Planning and Transportation Commission briefings and ongoing education as needed to support the project outreach efforts.

Time constraints

A one-month delay would not have a significant impact to the project.

Environmental review - KH 7/25/23

Legal review - JSA 8/4/23



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Motion No. M2023-65 Page 2 of 3

Motion

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APPROVED by the System Expansion Committee of the Central Puget Sound Regional Transit

Authority at a regular meeting thereof held on August 10, 2023.

Claudia Balducci

System Expansion Committee Chair

Attest:

Adam Montee, on behalf of

Kathryn Flores Board Administrator