


Memorandum



Date: September 28, 2021

To: Gary Hartfield, Division Director
Small Business Development
Internal Services Department

From:  Elia Nunez, P.E., Assistant Director
Engineering, Planning and Development
Department of Transportation and Public Works

Subject: DTPW Project No: CIP227
ISD Project No: DB21-DTPW-07
Project Name: Design-Build Services for the South Miami-Dade Bus
Maintenance Facility
FCSC: 8.23
Description: Request for Project Review for Goals
Contract Number: CIP227-DTPW21-DB

The Department of Transportation and Public Works (DTPW) is requesting that the subject project be reviewed for Small Business Enterprise measures for construction, architectural and engineering (A/E), goods and services, and a Community Workforce Program goal, to proceed with the advertisement and subsequent bidding of the project.

The duration of the project is 581 calendar days. The total estimated maximum compensation for the Design-Build contract is \$126,167,297.20 which includes the following:

- \$107,428,952 Estimated Construction Cost
- \$8,594,316 Estimated A/E Cost
- \$5,371,447.60 Contingency Allowance for Construction
- \$859,431.60 Contingency Allowance for A/E services
- \$529,138 Dedicated Allowance for Art in Public Places
- \$3,384,012 Dedicated Allowance for Permit Fees

The project is located at Near the Southwest corner of the intersection of SW 127th Avenue and Biscayne Drive and the funding source for the project is People's Transportation Plan Bond Program.

Scope of Services

DTPW has a need to establish a contract for Design-Build Services for the South Miami-Dade Bus Maintenance Facility (the Project). The Project is a bus maintenance facility to support a fleet of at least 100 articulated battery electric buses (BEBs) on a 20-acre site located near the southwest corner of the intersection of SW 127th Avenue and Biscayne Drive, with access only from Biscayne Drive. The project includes the design and construction of:

1. A two-story maintenance and operations facility with approximately 54,414 square feet for maintenance, parts storage, and support on the ground level and approximately 27,762 square feet for transportation (dispatch and driver areas) and training on the upper level.
2. Bus parking for at least 100 articulated BEBs with an overhead inverted pantograph dispenser above each bus for charging the buses in an 8-hour period.
3. A single level deck above the bus parking area for parking approximately 252 employee and visitor cars and supporting the charging cabinets and switchgear for the battery charging infrastructure.

4. A pedestrian bridge between the employee/visitor parking deck and the transportation area on the upper level of the facility.
5. A security/vault pull facility (approximately 1,575 square feet) located between the bus site entrance and the bus parking area.
6. A security checkpoint (approximately 200 square feet) between the employee/visitor site entrance and the ramp to the deck above bus parking.
7. A service island and detailed cleaning facility, including support spaces (approximately 10,700 square feet total) for interior cleaning and nightly servicing of vehicles.
8. A wash facility (approximately 6,700 square feet) including an automatic drive through bus washer, water reclaim, and chassis wash for exterior cleaning of buses.
9. A gate arm maintenance facility (approximately 6,000 square feet) and associated vehicle parking.
10. The charging infrastructure required to fully charge up to 100 BEBs in an 8-hour period.
11. Parking for approximately 20 downline buses (waiting for maintenance) and approximately 24 non-revenue vehicles.
12. Grading, paving, stormwater management, landscaping, site lighting, and security for the entire site.
13. All utilities required for an operational facility. This includes coordination with Florida Power & Light (FP&L) to provide multiple feeds from different sub-stations to provide redundancy for the charging infrastructure.
14. All furnishings and equipment required for a fully operational facility.
15. All low voltage systems including fire alarm, closed-circuit television, security and access control, public address system, data, and information technology systems (not including hardware and software).

The charging cabinets and charge management system will be provided by the bus manufacturer and installed by the Design-Build team.

Special Project Requirements

1. Design of the initial phase including site work (grading, utilities, and paving) and the BEB charging infrastructure: Submit for permitting within five months of written Notice to Proceed (NTP).
2. Construction of the initial phase including site work (grading, utilities, and paving) and the BEB charging infrastructure: Substantial completion within nine months of receiving approval for all required permits. Note that this timeframe may be impacted by FP&L's ability to provide the required power to the site.
3. Design of the remaining work (after the initial phase): Submit for permitting within 12 months of written NTP.

4. Construction of the remaining work (after the initial phase): Substantial completion within 18 months of receiving approval for all required permits.
5. The completion of the initial phase is critical to operating the South Corridor project and must be closely coordinated with Miami-Dade County (County).
6. The County must have the BEB charging infrastructure operational no later than December 31, 2022.

This project will require phased design and construction in order to fast track a portion of the project. The fast-tracked portions may include site work (grading, utilities, and paving) and the battery electric bus (BEB) charging infrastructure to allow BEBs to be charged prior to the remainder of the project being complete.

The Design-build team must be certified in the technical categories listed below.

<u>Type</u>	<u>Code</u>	<u>Description</u>
Lead A/E	14.00	Architecture
Other	6.01	Water and Sanitary Sewer Systems – Water Distribution and Sanitary Sewer Collection and Transmission
Other	8.00	Telecommunication Systems
Other	9.01	Soils, Foundations, and Materials Testing – Drilling, Subsurface Investigations and Seismographic Services
Other	9.02	Soils, Foundations, and Materials Testing – Geotechnical and Materials Engineering Services
Other	9.03	Soils, Foundations, and Materials Testing – Concrete and Asphalt Testing Services
Other	10.01	Environmental Engineering - Stormwater Drainage Design and Engineering Services
Other	10.02	Environmental Engineering - Geology Services
Other	10.05	Environmental Engineering - Contamination Assessment and Monitoring
Other	10.09	Wellfield, Groundwater, and Surface Water Protection and Management
Other	11.00	General Structural Engineering
Other	12.00	General Mechanical Engineering
Other	13.00	General Electrical Engineering
Other	15.01	Surveying and Mapping - Land Surveying
Other	15.03	Surveying and Mapping - Underground Utility Location
Other	16.00	General Civil Engineering
Other	20.00	Landscape Architecture

Participation Restrictions

Pursuant to Florida Statute 287.055, "A design criteria professional who has been selected to prepare the design criteria package is not eligible to render services under a design-build contract executed pursuant to the design criteria package. The Design Criteria Professional for the Project is WSP USA, Inc. (WSP). Consequently, WSP and its subconsultants Perez & Perez Architects Planners Inc., and G-T Construction Group, Inc. are not eligible to render services on this Project.

Minimum Qualifications

In addition to the required licenses, the Lead Contractor is highly preferred to demonstrate to have completed three projects of similar or greater scope within the last 15 years. In addition, the Design-Build team is highly preferred to possess the following:

- Design-Build Team Key Construction Personnel Experience and Qualifications: Key Construction personnel is highly preferred to possess a minimum of ten years of experience and demonstrate experience in three construction projects with similar or greater scope, in a similarly responsible position.

The Lead A/E Firm or Principal of Firm is highly preferred to demonstrate to have completed design of three projects of similar or greater scope within the last 15 years. In addition, the Design-Build Team is highly preferred to possess the following:

- Design-Build Team Key A/E Personnel Experience and Qualifications: Key A/E Personnel is highly preferred to possess a minimum of ten years of experience and demonstrate experience in three design projects with similar or greater scope, in a similarly responsible position.
- In addition, Key A/E Personnel is highly preferred to possess a minimum of ten years of experience in the selection, layout and coordination of shop equipment and demonstrate experience in five design projects with similar or greater scope, in a similarly responsible position, and
- Key A/E Personnel is highly preferred to possess a minimum of five years of experience in the design of battery charging infrastructure and demonstrate experience in three design projects with scalable charging infrastructure (i.e., not just charging for pilot projects).

The Design-Build team is highly preferred to show successful experience coordinating with FP&L to provide the power required to the site in an expedited fashion.

The Design-Build team is highly preferred to show successful experience in the design and construction of electrical systems dealing with over 7MW of power.

The Design-Build team is highly preferred to show successful experience with coordinating with assigned equipment suppliers and integrating that equipment in the design and construction.

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The Design-Build team is highly preferred to show successful experience with phased construction and coordinating with on-going client operations after the initial phase of construction.

Should you have any questions, or require additional information, please contact Leticia Smith, Chief, Contract Services Division, at (786) 469-5291 or lsmith@miamidade.gov.

cc: Leticia Smith, DTPW
Pablo Valin, ISD
Laurie Johnson, SBD/ISD