


Memorandum



Date: February 4, 2020

To: Gary Hartfield, Division Director
Small Business Development

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

Subject: Upcoming Solicitation for Construction Services for the Acoustical Barrier Replacement;
Contract No.: CIP168-DTPW19-CT

The Department of Transportation and Public Works (DTPW) respectfully requests that the Division of Small Business Development (SBD) evaluate Contract No.: CIP168-DTPW19-CT – Construction Services for the Acoustical Barrier Replacement, to assign Small Business Enterprise measures and Community Workforce Program goals to proceed with the advertisement and subsequent bidding of a Construction Contract.

The Funding Source for the project is People's Transportation Plan Bond Program.

Scope of Work Parking Garages Overhaul:

DTPW has a need to obtain construction services for the replacement of acoustical barriers located along the Metrorail system. The project consists of the furnish, installation and testing of acoustical barriers with associated hardware along the Metrorail system where Type "B" acoustical barriers have been removed. The Contractor must comply with all applicable Federal, State and Local regulations, including, but not limited to Occupational Safety and Health Administration requirements and Fall Protection guidelines when performing all work. All work will be performed on an electrified, elevated guideway system, around and over busy streets and expressways. The Contractor shall coordinate all Maintenance of Traffic needs with the agency having jurisdiction as required.

Project Location:

Abutment AB-555-NS near the Metrorail Viscaya Station to AB-1-NS near the Dadeland South Station. Abutment AB-556-NS, which is south of the Brickell area to Span 900, which is west of the Earlington Heights Station.

The construction cost estimate for this project is \$70,245,837.00, inclusive of the 10% Contingency Allowance Account. Attached is the cost breakdown inclusive of construction services and cost of materials for reference purposes. Should you have any questions, please feel free to contact Ms. Leticia Smith, Chief of Contract Services, at (786) 469-5291.

Attachments

DEPARTMENT INPUT
CONSTRUCTION CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

Check applicable Ordinance(s): 90-143 Responsible Wage and Benefits 03-237 (formerly 03-1) Community Workforce Program

PROJECT INFORMATION See attachment

Contract/Project/*Work Order No.: CIP168-DTPW19-CT

*Reference corresponding project number when submitting a work order

Contract/Project Title: Construction Services for the Acoustical Barrier Replacement

Description/Scope of Work: See Attached

Estimated Cost: \$70,245,837.00 **Funding Source:** Other (specify)

Location of Project (street address or beginning and ending points) i.e. 12345 NE 23rd Ct or Starts at 135 St. ends at 145 St.
Abutment AB-555-NS near Metrorail Viscaya Station to AB-1-NS near the Dadeland South Station. Abutment AB-556-NS, which is south of the Brickell area to Span 900, which is west of the Earlington Heights Station.

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP) See attachment

Engineer/Department or Agency's estimated required workforce for Project Work Order :

Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
N/A		
N/A		
N/A		

Comments:..

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE) See attachment

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
	\$	%	
	\$	%	
	\$	%	

RECOMMENDATION

Set-Aside: Level 1 Level 2 Level 3 Trade Set-Aside Sub-Contractor Goal Workforce Goal No Measure

Basis for Recommendation:

Date submitted to DBD:02/03/2020

Contact Person:Leticia Smith

Telephone No.:786-469-5291

Miami-Dade Transit

Replacement of Acoustical Barriers

Estimated Probable Construction Cost

Prepared by Atkins

January 28, 2020

Item No.	Description	Quantity	Unit	Unit Price	Total
0110 20 3	REPLACE ACOUSTICAL BARRIERS				
	REMOVE EXISTING ANCHORS	23,375	EA	\$78.00	\$1,823,250
	FURNISH NEW FRAMES	23,375	EA	\$300.00	\$7,012,500
	INSTALL NEW FRAMES	23,375	EA	\$368.00	\$8,602,000
	FURNISH NEW PANELS (STANDARD)	14,025	EA	\$1,079.00	\$15,132,975
	FURNISH NEW PANELS (CUSTOM)	9,350	EA	\$1,438.00	\$13,445,300
	INSTALL NEW PANELS	23,375	EA	\$422.43	\$9,874,301

SUB-TOTAL	\$55,890,326
TOTAL BARRIER LENGTH (LF)	93,500
TOTAL / LF	\$598

Item No.	Description	Quantity	Unit	Unit Price	Total
	LIGHTNING PROTECTION SYSTEM				
	COPPER CONDUCTOR	1,159	LF	\$4.06	\$4,706
	AIR TERMINALS	58	EA	\$24.71	\$1,433
	BONDING LUGS	290	EA	\$60.56	\$17,562
	L 4 X 3 X 3/8 X 4" ANGLES - WELDED TO POSTS	58	EA	\$156.79	\$9,094
					\$

SUB-TOTAL	\$32,795
TOTAL LENGTH (LF)	1,159
TOTAL / LF	\$28

Miami-Dade Transit

Replacement of Acoustical Barriers

Estimated Probable Construction Cost

Prepared by Atkins

January 28, 2020

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
1	General Conditions	LS	1	\$4,473,040	\$4,473,040
2	Mobilization	LS	1	\$2,795,650	\$2,795,650
3	Maintenance of Traffic	LS	1	\$559,130	\$559,130
4	Traffic Control Officer	LS	1	\$55,913	\$55,913
5	Acoustical Panels with Posts	LF	93,500	\$598	\$55,913,000
6	Lightning Protection System	LF	1,159	\$28	\$32,452
7	Remove Aluminum Handrails	LF	2,359	\$13	\$30,667
	TOTAL BASE BID				\$63,859,852
01010.01	Allowance Account for Unforeseen Changes - 10% of Base Bid	LS	1	\$6,385,985	\$6,385,985
01010.02	Dedicated Allowance for Potential Structural Damage Repairs	LS	1	\$110,000	\$110,000
BID TOTAL INCLUDING (Base Bid total, plus Allowance Account for Unforeseen Changes, plus Dedicated Allowance for Potential Structural Damage Repairs):					\$70,355,837

Miami-Dade Transit

Replacement of Acoustical Barriers

Assumptions

- 1 Assumes use of 2 simultaneous crews based on MDT's personnel limitations.
- 2 Assumes crews work 8 hour shifts to allow for set-up / take-down time. Actual working hours are limited by MDT requirements.
- 3 Unit prices include all contractor markups.
- 4 Assumes no sales tax required on materials.
- 5 Assumes the track nearest the wall will be closed during working hours.
- 6 Assumes all lifting and loading will be performed from ground level. No equipment will be on tracks.
- 7 Material pricing based on quotes from Eastern Rail. Price includes testing and delivery.
- 8 Crew makeup, working hours and contractor's assumed means and methods were developed in a conference call with Eastern Rail and a contractor who previously performed acoustic barrier work for MDT.
- 9 Wage rates from Miami-Dade County Responsible Wages & Benefits Schedule 2020 Heavy Construction.

Exclusions

- 1 Excludes any potential costs for removal of brush, fences or any other items necessary to gain access to lift locations.
- 2 MDT personnel required on-site during construction to be paid by MDT.

Intent of estimate is to establish a potential range of construction costs based on 100% plans. Estimated construction costs could vary based on design progress, scope refinement, bidding competition, contractor's perceived risks and opportunities, and means and methods. Atkins recommends that cost estimates be developed/updated as design progresses to confirm budget.

Atkins does not guarantee that any bids received for this project will not deviate from the estimated costs.