

SWLRT Civil Construction

Invitation for Bid

Legislative Commission on Metropolitan Government
January 24, 2018



Active Solicitation

Invitation to Bid for SWLRT Civil Construction

Action	Date	Bid Due
IFB originally issued	Feb 14 2017	May 02 2017
Bid due date extended	Multiple	Aug 15 2017
Bids received & opened	- - -	Aug 15 2017
Bids rejected	Sep 20 2017	- - -
Reissued IFB	Oct 30 2017	Jan 09 2018
Bid due date extended	Dec 19 2017	May 03 2018

Full and Open Competition

Code of Federal Regulations: §200.319 Competition

(a) All procurement transactions must be conducted in a manner providing full and open competition consistent with the standards of this section. In order to ensure objective contractor performance and eliminate unfair competitive advantage, contractors that develop or draft specifications, requirements, statements of work, and invitations for bid or requests for proposals must be excluded from competing for such procurements.

Council Policy

Council Procurement Policy/Procedure 3-4-3a

Competition – All procurement transactions must be conducted in a manner providing full and open competition. In order to ensure objective performance and eliminate unfair competitive advantage, contractors that develop draft specifications requirements, statements of work, or invitations for bids or requests for proposal must be excluded from competing for such procurements.

Aligns with State

MnDOT: Organizational Conflicts of Interest

The proposer, or its principals, in previous work for the state has provided the final design or related services that are directly related to performance of work required under this contract.

Comment: this provision will, for example, disqualify a proposer who performed final design for MnDOT and now seeks to provide construction administration services for that same project.

Aligns with State

MnDOT: Organizational Conflicts of Interest

MnDOT believes this is necessary because the firm that prepared the plans may be unable to objectively determine plan errors and omissions.

This may cause a situation where:

- (1) the vendor is unable or potentially unable to render impartial assistance or advice to the state; and
- (2) the vendor's objectivity in performing the contract work is or might otherwise be impaired.

Restriction on Subcontractor Work

Design Contract Section 12.06

All subcontractors shall state that the subcontractor agrees that it will not enter into agreements of any type with construction contracting firms, or their subcontractors, for any construction project resulting from the preparation or issuance of the construction documents form the work of this contract.

Communications

The Council responded to specific conflict related questions through the Invitation to Bid (IFB) process

Addendum 2 (Q #48) – A: Restated CFR§200.319	Mar 16 2017
Addendum 6 (Q #173) – A: Referred to “Restriction on Subcontractor Work” clause in Design Contract and provided list of subconsultants on that contract.	May 15 2017
Preparation for Rebid – Email to all IFB plan holders to clarify subcontractor restriction and responsiveness	Oct 26 2017

Communications

The Prime (AECOM) Design Consultant communicated with their subcontractors regarding restriction

Email to Design Subcontractors – Highlight subcontractor responsibilities during SWLRT Civil Construction bid process.	Mar 6 2017
Email to Design Subcontractors – Follow-up to previous email highlight contract terms related to subcontractor restriction	May 11 2017
Email to Design Subcontractors – Advance Design contract work on Civil Construction bid process coming to completion; remind of subcontractor bidding restriction.	Aug 2 2017



Calhoun Isles

SWLRT: Calhoun Isles

- Met with Calhoun Isles representatives 14 times since August 2013
- Surveyed Calhoun Isles facilities
- Identified location of building foundations
- Developed specifications that meet requirements identified in H.F. 3, Article 3, Section 134
 - Includes requirements to manage vibrations during construction

Calhoun Isles Building



Pre-Construction

- Develop a vibration control plan
 - Calhoun Isles building identified as Category I, reinforced concrete (based on FTA construction vibration criteria)
 - Construction vibration limited to Peak Particle Velocity (PPV) of 0.5 inches per second
- Conduct pre-construction inspection of facilities
 - Visual inspection
 - Photographic/video documentation
 - Interior/exterior building elements
 - Inspection/documentation conducted in coordination with Calhoun Isles
 - Documentation shared with Calhoun Isles

Pre-Construction

- Install instrumentation to monitor adjacent ground and building during construction
 - Coordination with Calhoun Isles
 - Begin measurements 30 days in advance of tunnel construction to establish baseline
 - Instrumentation includes:
 - Portable seismograph
 - Tiltmeters
 - Building deformation monitoring points
 - Inclinerometers
 - Ground settlement monitoring points
 - Piezometers
 - Crack monitors

Pre-Construction

- Conduct equipment tests for all significant vibration generating equipment planned to be used for construction adjacent to the Calhoun Isles property
 - Tests conducted at a nearby location (away from Calhoun Isles buildings) with representative ground conditions
 - Monitor testing
 - If equipment exceeds 0.5 PPV, contractor to adjust methodology until readings are within limits
 - Tests conducted adjacent to Calhoun Isles buildings
 - Monitor testing
 - If equipment exceeds 0.5 PPV, contractor to adjust methodology until readings are within limits

Construction

- On-going coordination with Calhoun Isles
- Construction methods specified generate very low vibration levels
 - Press-in pile machine to install sheet pile walls
 - Static rolling to compact soils adjacent to the Calhoun Isles buildings
- Monitor adjacent ground and building instrumentation
- Minimize groundwater drawdown allowed outside of tunnel excavation
 - Temporary water control contained / controlled within the excavation

Post-Construction

- Remove instrumentation
 - Coordination with Calhoun Isles
 - Make repairs as necessary
- Prepare Post Construction Inspection Report
 - Coordination with Calhoun Isles



LRT Operations

- Two types of potential impacts from LRT operations
 - Vibration
 - Projected levels 15 VdB below vibration impact threshold of 72 VdB
 - Ground-borne noise
 - Projected levels 15 dBA below ground-borne noise impact threshold of 35 dBA
 - Projected levels account for highly resilient rail fasteners that will be used in tunnel