

Request For Proposals
Pre-Fabricated Pedestrian Bridge
City of Hyattsville

The City of Hyattsville invites sealed responses to a Request for Proposal (RFP) for the limited engineering, purchase and technical assistance of a pre-fabricated pedestrian bridge.

GENERAL SCOPE

The City of Hyattsville will be purchasing a fully engineered 55' pre-fabricated clear span bridge of Fiber Reinforced Polymer (FRP) composite construction pedestrian bridge. The bridge will be located at Melrose Park, Hyattsville and will serve to connect a proposed soccer field location to the adjacent parking lot area. The City anticipates the bridge will be installed by June 15, 2009, however the specific delivery date will be contingent upon the City's receipt of all required permits from Prince George's County, MD. The City will provide a base map, field investigation documentation and a complete site plan to the selected firm. The bridge manufacturer shall have been in the business of design and fabrication of bridges for a minimum of five (5) years and provide a list of three (3) successful bridge projects, of similar construction, each of which has been in service for at least two (2) years.

GENERAL FEATURES OF DESIGN

1. Span
 - a. Bridge span for the bridge is 55'
2. Width
 - a. Bridge width shall be 6' and shall be measured from the inside face of structural elements at deck level
3. Bridge System Type
 - a. Bridge must be designed as a FRP Composite or FRP Composite Cable Span
4. Member Components
 - a. All members shall be fabricated from pultruded FRP composite profiles and structural shapes, as required.
5. Camber
 - a. Cambers of 1% of the total span length to be provided. Camber for dead load only

ENGINEERING

Engineering shall be performed by or under the direct supervision of a Licensed Professional Engineer and done in accordance with recognized engineering practices and principles.

1. Uniform Live Load
 - a. Bridge will be designed for 85 psf.
2. Vehicle Load
 - a. Non-motorized (bicycles) only
3. Wind Load
 - a. Bridge shall be designed for a minimum wind load of 25 psf. The wind is calculated on the entire vertical surface of the bridge as if fully enclosed.
4. Seismic Load
 - a. Seismic loads shall be determined according to the criteria specified in the standard building codes (IBC 2002, ASCE 7-02, BOCA, SBC or UBC) unless otherwise requested.
5. Allowable Stress Design Approach
 - a. An Allowable Stress Design (ASD) approach is used for the design of all structural members. Factors of safety in the design of FRP bridges are as follows unless otherwise specified:

i. Tension	2.5
ii. Compression	2.5
iii. Shear	2.5
iv. Bending	2.5
v. End Bearing	2.5
vi. Connections	3.0

Serviceability Criteria

Service loads are used for the design of all structural members when addressing deflection and vibration issues. Criteria in the design of FRP bridges are as follows:

1. Deflection:
 - a. Live Load (LL) Deflection = $L/240$
 - b. Vertical Frequency = 5.0Hz
 - i. The fundamental frequency of the pedestrian bridge without live load should be greater than 5.0 hertz (Hz) to avoid any issues with the first and second harmonics.
 - c. Horizontal Frequency = 3.0 Hz
 - i. The fundamental frequency of the pedestrian bridge without live load should be greater than 3.0 hertz (Hz) to avoid any issues with the first and second harmonics.
2. Snow Loads
 - a. Sustained snow load conditions shall be evaluated for time dependant effects (creep and relaxation) and expected recovery behavior.

MATERIALS

FRP composite bridges shall be fabricated from high-strength E-glass and isophthalic polyester resin unless otherwise specified. Weathering and ultraviolet light protection shall be provided by addition of a veil to the laminate construction.

1. Minimum material strengths and properties are as follows:
 - a. Tension = 33,000 psi
 - b. Compression = 33,000 psi
 - c. Shear = 4,500 psi
 - d. Bending = 33,000 psi
 - e. Young's Modulus = 2,800,000 psi
2. Decking
 - a. Wood decking is No. 2 Southern Yellow Pine treated according to the American Wood Preservers Bureau. Provide standard 3" x 12" pre-drilled decking material.
 - b. The City will consider alternative decking material, provided it the alternative material is superior in weathering, durability and complies with ADA requirements.
3. Hardware
 - a. Bolted connections shall be A307 hot-dipped galvanized steel unless otherwise specified. Mounting devices shall be galvanized or stainless steel.

SUBMITTALS

1. Submittal Drawings
 - a. Submittal drawings and diagrams shall be submitted to the City of Hyattsville for review after receipt of order. As required, all drawings shall be signed and sealed by a licensed Professional Engineer.
2. Submittal Calculations
 - a. As required, structural calculations shall be submitted to the City of Hyattsville. All calculations will be signed and sealed by a licensed Professional Engineer.

FABRICATION

All cutting and drilling fabrication is to be done by experienced fiberglass workers using carbide or diamond-tipped tooling to a tolerance of 1/16". No material deviations beyond industry standards are accepted. All cut edges to be cleaned and sealed.

RAILINGS

Railings for pedestrian and bicycle use should be a minimum of 54" above the floor deck

1. Safety Rails
 - a. Continuous horizontal mid-rails shall be located on the inside of the trusses. Maximum opening between the mid-rails shall be available as required, but should not be greater than 9". If preferred, vertical pickets can be provided upon request.
2. Toe-plates
 - a. 3" toe-plate is required on the inside of the trusses

FINISHING

Bridge color shall be green shall be added during the manufacturing process. No additional painting shall be required.

DELIVERY AND ASSEMBLY

1. Delivery
 - a. Delivery is made by truck with lift capability to a location nearest the site. The vendor will coordinate with the City of Hyattsville in advance of the expected time of arrival at the site.
2. Assembly
 - a. Bridge shall be shipped to the site in component parts partially assembled. The spans can then be completely assembled using standard hand tools. The City retains the right for the bridge to be shipped completely assembled to the site. Unloading, splicing and placement of the bridge will be the responsibility of the City of Hyattsville.
 - b. Vendor will provide the City of Hyattsville with assembly drawings and a recommended assembly procedure for assembling the bridge. If bridge is shipped completely assembled, the vendor shall advise the City of Hyattsville of the actual lifting weights, attachment points and all necessary information to install the bridge.
3. Technical Assistance
 - a. Proposal should include a separate cost for the vendor to provide eight (8) hours on on-site technical assistance the day of the assembly and installation. The City of Hyattsville will notify the vendor ten (10) business days prior to delivery if this technical assistance is required.

SITE ISSUES, FOUNDATION DESIGN & PERMITTING

1. The City of Hyattsville will procure all necessary information about the site and soil conditions.
2. Engineering design and construction of the bridge abutments, piers and/or footing shall be the responsibility of the City of Hyattsville and will be performed prior to the installation date. The City will install the anchor bolts in accordance with approved anchor bolt spacing dimensions.
3. The City of Hyattsville shall secure all necessary permits from required authorities prior to installation of the bridge.

WARRANTY

1. The manufacturer shall warrant the structural integrity of all FRP materials, design and workmanship for 15 years. The warranty shall be provided to the City of Hyattsville within 10 business days of delivery.
2. The warranty shall not cover defects in the bridge caused by foundation failures, abuse, misuse, overloading, accident, faulty construction, alteration, or other cause not the result of defective materials or workmanship.
3. The warranty shall be limited to the repair or replacement of structural defects, and shall not include liability for consequential or incidental damages.

REQUIRED SUBMITTALS FOR PROPOSAL

Letter of Transmittal

1. Explanation of Work to Be Performed

The letter should include a statement indicating your understanding of the work to be performed.

2. General Profile of Firm and Qualifications

The letter should include a statement of affirmation of the firm's qualifications for professionally and expertly conducting the work as understood.

3. Contact Information

The letter should indicate the firm's contact person concerning the proposal, the firm's main and/or local addresses, and a telephone number where the contact person can be reached.

4. Scheduling for the Provision of Work

The letter should indicate the firm's anticipated availability for the project and an estimated performance schedule, if selected for the project. The

ability to start the project quickly upon notification of the City's selection and execution of the contract is a factor for the evaluation criteria.

5. References

The proposal should provide a minimum of three client (3) references include the reference name, email and phone number and a brief description of work performed should be provided.

5. Certification of Insurance

The letter should include a statement of your firm's ability to provide adequate insurance for the scope of work contemplated. Please include a summary of your firm's current coverage and a valid Certificate of Insurance.

6. Contract Review

The letter should include the formal contract document. The City of Hyattsville requires that terms of the contract related to legal fees should state that the City and the selected vendor will pay their respective legal fees in case of dispute related to the contract.

Separate Sealed Dollar Cost Bid / Basis for Compensation

1. General Information

The separate sealed dollar cost bid section of the proposal should contain all pricing information relative to providing the work as described in this request for proposals.

This section should include a statement of your firm's Basis for Compensation.

The City will not be responsible for expenses incurred in preparing and submitting the proposal or the sealed dollar cost bid. Such costs should not be included in the proposal.

2. Inclusions

The sealed dollar cost bid should also include the following information:

- A. Name of firm.
- B. Certification that the person signing the proposal is entitled to represent the firm, and empowered to submit the bid and authorized to sign a contract with the City.

- C. Rates for Additional Services: the city may request additional services outside the scope of this proposal. The selected firm must be available to perform these additional services at the same rates detailed in the schedule of fees and expenses included in the sealed dollar cost bid.

PRE-PROPOSAL SITE VISIT

Separate Pre-Bid Site Inspection visits should be arranged and will be coordinated with the City of Hyattsville's Office of Community Development. Site pre-proposal site visits are available upon request. All vendors that have inquired to the City of Hyattsville regarding the RFP will be notified via email of the pre-proposal site visit date and time; and are eligible to attend.

QUESTIONS AND CLARIFICATIONS

All requests for further information or clarifications must be submitted in writing and will be accepted up until 4:00 PM, Wednesday April 8, 2009, when the questions and clarification period closes. No further queries will be accepted. All responses to any written requests for information or clarification will be shared with all the interested parties during the open query period or as soon after the query period ends as is feasible.

SUBMISSION OF PROPOSAL / BID

The RFP Transmittal Letter and the separate marked Sealed Dollar Cost Bid will be received by the City of Hyattsville, and are due by 4:00 p.m. on Tuesday, April 14, 2009 and to be mailed or delivered to:

Jim Chandler
Community Development Manager
City of Hyattsville Municipal Building
4310 Gallatin Street
Hyattsville, Maryland 20781

Any questions concerning the RFP should be directed to Jim Chandler, Community Development Manager at 301-985-5013.

EVALUATION OF PROPOSALS AND AWARD OF CONTRACT

The RFPs will be publicly opened and read on Wednesday, April 15, 2009, 11:00 AM in the 3rd Floor Conference Room of the City of Hyattsville's Municipal Building, 4310 Gallatin Street, Hyattsville, Maryland.

The Transmittal Letter of the proposals submitted will be reviewed and evaluated first. The top-qualifying firms from this section will have their sealed dollar cost proposal opened and evaluated. The firm best meeting the following criteria will be recommended to the City of Hyattsville Mayor and Council for approval:

Understanding of Scope and Experience	30%
Proposed Project Cost	50%
Client References	10%
State of Maryland Licensed Business	5%
Certified WBE/MBE	5%

The City reserves the right to reject any and all RFP submissions and further reserves the right to re-issue the RFP.

OTHER REQUIREMENTS AND INFORMATION

1. Stability of Proposed Prices

Any price offerings from respondents must be valid for a period of 90 days from the due date of the proposals.

2. Amendments or Cancellation of the RFP

The City of Hyattsville reserves the rights to cancel, amend, modify or otherwise change this RFP at any time if it deems it to be in the best interest of the City of Hyattsville to do so. The City will provide notice of changes, amendments or modifications to the RFP as necessary.

3. Erroneous Awards

The City of Hyattsville reserves the right to correct inaccurate awards. This may include, in extreme circumstances, revoking the awarding of a contract already made to a respondent and subsequently awarding the contract to another respondent. Such action on the part of the City of Hyattsville shall not constitute a breach of contract on the part of the City of Hyattsville once the City has made this determination.

4. Proposal Expenses

Respondents are responsible for all costs and expenses incurred in the preparation of proposals and for any subsequent work on the proposal required by the City of Hyattsville.

5. Ownership of Proposals

All proposals shall become the sole property of the City of Hyattsville and will not be returned.

6. Execution of Contract

This RFP is not a contract and, alone, shall not be interpreted as such. Rather, this RFP only serves as the instrument through which proposals are solicited. If, for some reason, the City of Hyattsville and the initial respondent fail to reach consensus on the issues relative to the contract, then the City of Hyattsville may commence contract negotiations with other respondents. The City of Hyattsville may decide at any time to start the RFP process again. The contract may include a liquidated damages clause at the discretion of the City of Hyattsville.

7. Oral Agreement or Arrangements

Any alleged oral agreements or arrangements made by respondents with the City of Hyattsville or employees of the City of Hyattsville will be disregarded in any proposal evaluation or associated award.

8. Subcontractors

The City of Hyattsville must approve any and all subcontractors utilized by the successful respondent prior to any such subcontractor commencing any work. Respondents acknowledge by the act of submitting a proposal that any work provided under the contract is work conducted on behalf of the City of Hyattsville and that the construction manager or his designee may communicate directly with any subcontractor as the City of Hyattsville deems to be necessary or appropriate. It is also understood that the successful respondent shall be responsible for all payment of fees charged by the subcontractor(s). A performance evaluation of any subcontractor shall be provided promptly by the successful respondent to the City of Hyattsville upon request. The successful respondent must provide the majority of services described in the specifications.

9. Confidentiality and Care of Data

The successful respondent agrees to protect the confidentiality of any files, data or other material pertaining to this contract and to restrict their use solely for the purpose of performing this contract. The successful respondent shall take all steps necessary to safeguard data, files, reports or other information from loss, destruction or erasure. Any costs or expenses of replacing or damages resulting from the loss of such data shall be borne by the contractor when such loss or damage occurred through its negligence.

The City of Hyattsville actively seeks and encourages certified WBE/MBE woman and minority-owned business enterprises to submit proposals in response to this project.