

EXPERTISE WITH NET ZERO & GEOTHERMAL FACILITIES

Turner is one of the only contractors to deliver a Net Zero school facility. Turner worked in collaboration with CMTA Consultants and Engineers on this 139,000 SF Turkey Foot Middle School campus incorporating multiple high-performance technological factors to support the low energy demands of this type of building. Building Information Modeling “BIM” was used to complete the coordination process. This project was also built using electronic document retention/submission procedures, to reduce paper waste. The campus features an outdoor classroom for students to study and participate in the STEM Visioning (Science, Technology, Engineering & Math). As the project was underway, the students participated in a live study of the green features through Turner’s Construction 101 after- school activities. Students managed their own vegetated roof, selecting and maintaining the plants used on the green roof. The school is equipped with a Vital Sign Screen for students to view and participate in data collection from various components located throughout the building, including the Underground Rainwater Catchment Tank and collection points from the Building Controls Center. Other Green Building features include utilizing geothermal technology for heating and cooling, Tubular Daylight Harvesting and Solar Light Tubes for lighting and Insulated Concrete Forms for energy efficient exterior walls. The New Turkey Foot Middle School joins the other schools in Kenton County School District as the only school district in the Commonwealth to receive consecutive Energy Star Awards.

For the past 10 years, CMTA has led the national trend of Zero Energy Schools by accomplishing the 1st Zero Energy School in the US and then designing 1.6 million square feet of additional Zero Energy Projects.

CMTA is uniquely qualified to provide the Best Value to the Turner/ Architecture, Inc/Fanning Howey team for the new George Mason High School by achieving the lowest energy consumption within budget and saving millions of dollars in the Renewables to achieve Zero Energy. Taking advantage of the years of lessons learned and following the proven process for Zero Energy Design will lead Falls Church in maintaining budget and achieving Zero Energy success for the new George Mason High School. Additionally, CMTA has been using geothermal HVAC systems in schools for over 15 years.

Sustainable Building Partners is currently providing or has provided consulting services on three projects that are targeting Net Zero. The American Geophysical Union in Washington, DC is targeting LEED Platinum and Net-Zero. SBP is providing LEED Consulting, and Building Commissioning for the American Geophysical Union’s renovation of their building located at 2000 Florida Avenue. SBP is providing energy modeling and consulting services to the design teams for two Virginia Beach City Public School projects currently in the design phase. Both schools are targeting Net-Zero ready through the use of advanced energy efficiency equipment and daylighting to reduce overall energy use.



The Turkey Foot Middle School includes many high-performance technological factors to support low-energy.

Turner

architecture incorporated

FANNING HOWEY
ARCHITECTURE | ENGINEERING



Net Zero Projects for the Design-Build Team include:

**TABLE C-4 DESIGN-BUILD TEAM
NET ZERO PROJECT EXPERIENCE**

Project	SF
Turkey Foot Middle School	133,359
La Escuelita Educational Center	55,655
Fort Irwin Replacement Hospital (Weed Army Hospital)	216,000
Zero Energy Light Manufacturing Facility	96,000
Phipps Conservatory	11,000
TD Bank Cypress Creek Ranch	3,900
SMUD Corporation Yard	203,000
Colonel Smith Middle School Complex	88,700
PNC Bank Flagship Branch	7,000
Richardsville Elementary School	72,285
Locust Trace AgriScience High School	70,100
Lenawee High School – Center for Sustainable Futures	8,743
Lee Elementary	95,633
Discovery Elementary	98,500
Corvallis Toyota Dealership	34,868
Cincinnati Police Station	38,500
Wilde Lake Middle School	106,221
Graceland Elementary School	78,250
Holabird Elementary School	78,250
Alice Fleet Elem School	104,500
Lubber Run Community Center	52,000
Thaden High School Campus	125,000
Botanica Community Center	10,500
Raleigh Co Elem School	61,405
Martin Co High School	124,000
NeoCity Academy STEM High School	45,000
Frederick Douglass High School	285,790
American Geophysical Union	62,000
Throughgood Elementary School	66,259
Princess Anne Middle School	222,571
Total	2,654,989

Please refer to Tabs G and H for Relevant Project Experience for the Design-Build Team.

Every new Zero Energy project benefits from the previous one and increases the opportunity to achieve Zero Energy within budget.

Attachment B
APPLICANT INFORMATION

A. ELIGIBILITY CRITERIA (MINIMUM QUALIFICATIONS)

- 1. **Responsiveness to Request for Proposals** – Responsiveness is defined in the Request for Proposals, Section 8, entitled **Eligibility Criteria**.
- 2. **Debarment Status**—Has the applicant, or any affiliate, ever been the subject of any of the following actions:
 - a. Debarment (state, local or federal)
 - b. Deletion from a Prequalified Bidders List
 - c. Other action which resembles debarment
 - d. If yes, provide details on a separate sheet for each instance.
- 3. **License** - Attach copies of the Proposer's Commonwealth of Virginia Contractor's & Architect's Licenses.
Please see **Exhibit B-1** following this section for additional information.
- 4. **Bonding Capacity/Statement** - Attach a signed statement from applicant's Surety stating that, based on present circumstances, the Surety will provide performance and payment bonds for the Proposer in connection with the Project.
Please see **Exhibit B-2** following this section for additional information.
Total bonding capacity \$ _____
Available bonding capacity \$ _____
- 5. **Authority to Do Business in the Commonwealth of Virginia** – Include on the cover sheet, the Proposer's VA State Corporation Commission ID number or attach an acceptable signed statement in accordance with requirements of Section 8.5.
The VA State Corporation Commission ID number can be found on the cover sheet.

B. EVALUATION FACTORS – QUALIFICATIONS AND EXPERIENCE

- 1. **Project Performance**
 - a. Using a separate copy of Attachment C or D for each project, provide details of two(2) or more past projects that are most similar in size and scope to the Project.
Please refer to Tabs G and H for Attachments C and D.
 - b. Attach a list of any other relevant projects in the last five(5) years with a contract value greater than \$80 million.
Please see **Exhibit B-3** following this section for additional information.
 - c. **Preferred Construction Experience** – Provide on Attachment C.
Please refer to Tabs G and H for Attachment C and D.
 - d. **Preferred Design Experience** – Provide on Attachments D.
Please refer to Tabs G and H for Attachment C and D.
 - e. **Design/Build Team Experience** – Provide on Attachments C and D.
Please refer to Tabs G and H for Attachment C and D.

Attachment B
APPLICANT INFORMATION

2. **Personnel Qualifications/Experience** – Attach resumes of Design/Build Project Manager, Design Project Manager, Project Architect, Construction Project Manager and Construction Superintendent. Emphasize years of design or construction experience, last employer, last position, and experience on similar projects. Higher consideration will be given in the evaluation if the key personnel have worked together on previous successful projects, have demonstrated experience on projects similar in type and scope to the Project, i.e., Education design and construction projects.

Attach resumes of other team members including Civil Engineer, Mechanical Engineer, and Electrical Engineer. Emphasize years and types of experience, last employer, last position, and experience on similar projects. Higher consideration will be given in the evaluation if the other team members have worked together on previous successful projects; have demonstrated experience on projects similar in type and scope to the Project, i.e., Education design and construction.

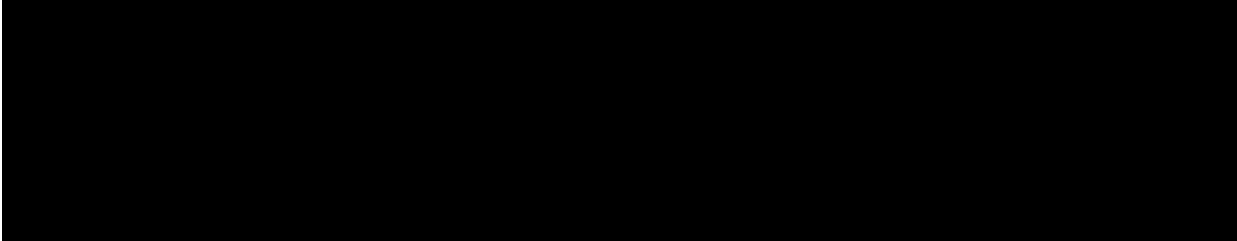
Please refer to Tab D for Key Personnel Resumes and Tab I for Additional Subconsultant Personnel Resumes.

3. **References** – Reference information is addressed on Attachments C and D.

4. **FINANCIAL DATA**

- a. Submit the Proposer's (including each partner with an equity interest of twenty percent (20%) or greater) reviewed and audited financial statements from the past two years, preferably 2015 and 2016. Complete balance sheets and income statements must be included. The statements shall be enclosed in a separate sealed envelope and included in the application package and it should be noted if the statement is for a parent company.

Has the applicant, or any affiliate, ever been denied bonding or had bonding revoked?



5. **Safety Performance (Contractor)** – Please provide the following information on a separate sheet of paper:

- a. Experience Modification Factor (EMF) for past five years.
- b. A list of OSHA citations levied during the past three years. Describe the infractions and indicate whether there was a warning or fine imposed and the dollar amount of each.
- c. Details from your organization's 2016 OSHA 200 log indicating:
- Number of lost work day cases
 - Number of restricted work day cases
 - Number of cases with medical attention only
 - Number of fatalities

Please see **Exhibit B-4** following this section for additional safety information.

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6. **Claims/Final Resolution/Judgments** – Have any of the following actions occurred on, or in conjunction with, any project performed by the Proposer, any affiliate, or their officers, partners or directors in the last five years?

- a. Legal Action Implemented by Proposer against Owner.....
- b. Legal Action Implemented by Proposer against Subcontractor
- c. Legal Action Implemented by Owner
- d. Legal Action Implemented by Subcontractor
- e. Settlement or Close-Out Agreement in effect with Owner
- f. Judgments
- g. Arbitrations



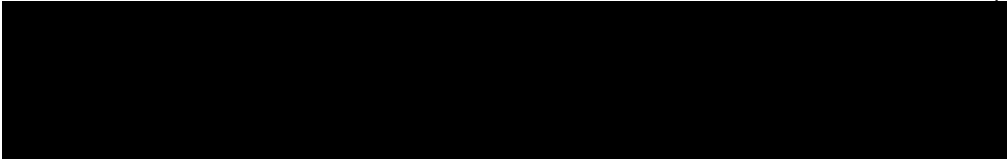
If the answer to any of items a. through g. above is yes, provide details on a separate sheet for each instance.

Please see **Exhibit B-5** following this section for additional information.

7. **Conflict of Interest** - Conflicts of interest and a real or perceived competitive advantage are described in state and federal law. Owner reserves the right, in its sole discretion, to make determinations relative to potential conflicts of interest on a project specific basis, in accordance with State and Local Government Conflict of Interests Act(2.2-3100etseq.) and Virginia Public

Procurement Act, Ethics in Public Contracting 2.2-4367 et seq. Proposer will identify any persons known to the applicant who would be obligated to disqualify themselves from participating in any transaction arising from or in connection to the project pursuant to Virginia State and Local Government Conflict of Interest Act (Va Code 2.2- 3100 et seq). Further, offeror will identify any employee, official, or elected officer of FCCPS or the City of Falls Church who has a proprietary interest in the company, corporation, partnership or other organization, **and** any FCCPS, or City of Falls Church employee, official or elected officer who has immediate family members (to include, spouses, parents, children, siblings) who have a proprietary interest in the company, corporation, partnership or other organization submitting the proposal.

8. **Termination - Applicant** – Has your organization ever been terminated for work awarded to it? This includes termination for default or for the convenience of the Owner or any other reason for failing to



9. **Schedule Control** – Does your company normally use a CPM scheduling control system? If yes, identify the system(s): _____

10. **Bankruptcy**: Has your business filed for bankruptcy in the last seven years or is your firm currently the debtor in a bankruptcy case? If yes, please explain the circumstances:



11. **Liquidated Damages Assessment**: Has your company ever been assessed liquidated damages in the past five(5) years on a construction contract? If yes, please explain the circumstances:



Attachment B
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12. **Performance Bond Implementation:** Within the last five (5) years has your firm ever required any performance bond surety company to complete, or arrange for completion (take-over), of any contract originally awarded to your firm? If yes, please explain the circumstances [REDACTED]
13. **Contract Termination:** Within the last five (5) years, has your firm had a contract terminated for cause and/or ever had rights to proceed under a contract terminated? If yes, please explain the circumstances [REDACTED]
14. **Breach, Default, Debarred:** Within the last five (5) years, has your firm been disqualified, removed, or otherwise declared in material breach or default of any construction contract by a public agency, or debarred from participating in bidding for any construction contract? If yes, please explain the circumstances: [REDACTED]
15. **Release from Construction Bid:** Has your company filed a request to be released from a bid on a construction contract within the last five(5) years? If yes, please explain the circumstances: [REDACTED]
16. **Failure to Execute a Contract:** Has your company ever been awarded a construction contract in which you failed to execute the contract? This would include: the company not signing the contract documents; an inability of the company to obtain insurance and/or bond requirements; or failure of the company to submit required forms and attestations. If yes, please explain the circumstances: [REDACTED]

Signed by: Kevin Sharkey Phone No. (917) 796-3098
Authorized Representative

Printed/Typed Name, Title: Kevin Sharkey, Vice President and General Manager

Company: Turner Construction Company

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