



Redevelopment Authority
of Prince George's County

REDEVELOPMENT AUTHORITY OF PRINCE GEORGE'S COUNTY

REQUEST FOR PROPOSALS NO. 2017-11

*Finish Grading & Infrastructure Construction – Phase 1A
Towne Square at Suitland Federal Center Development Project*

ISSUE DATE: 11/9/2017

PRE-PROPOSAL CONFERENCE: 11/17/2017, 10:00 am

PROPOSALS DUE: 12/04/2017, 12:00 Noon EST



This document is available from the Redevelopment Authority Webpage at:

<http://www.princegeorgescountymd.gov/sites/RedevelopmentAuthority/Developers/Opportunities/Pages/default.aspx>

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SECTION I: GENERAL INFORMATION

1.1 Summary Statement

The Redevelopment Authority of Prince George's County (RDA) is hereby soliciting proposals from qualified contractors to provide site infrastructure construction and finish grading for Phase 1A of the Towne Square at Suitland Federal Center (TSSFC) development project. Infrastructure construction will include the installation of buried dry and wet utilities, streets, sidewalks, curbs and gutters. Finish grade construction will require fine grading of slab on grade townhouse lots. Contractors with capabilities and experience limited to vertical, residential or commercial construction will not be considered under this solicitation.

The RDA has employed the services of Cober Johnson & Romney, PLLC as its Owner's Representative and Development Manager to oversee all activities of the prosecution and delivery of the project requirements.

1.2 Proposal Closing Date

The Offeror must submit an original and 4 copies of its proposal along with an electronic version on a compact disk (CD) or USB flash drive in a sealed package and address:

Stephen Paul, Associate Director
Redevelopment Authority
9200 Basil Court, Suite 504
Largo, Maryland 20774

Proposals must be received and time stamped by the Redevelopment Authority no later than December 4, 2017 at 12:00 noon EST. The proposal must be sealed, and the outside envelope must be clearly marked "**RFP No. 2017-11**".

Late proposals will not be considered. Offerors mailing proposals should allow sufficient mail delivery time to ensure timely receipt by the Redevelopment Authority. The Offerors shall prepay any shipping/delivery charges, as applicable, for all documents submitted.

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1.3 Questions, Inquiries and Pre-Proposal Conference

Questions and inquiries regarding this RFP must be submitted via email no later than five (5) business days prior to the Proposal Due Date to Patricia Omondi, Senior Construction Advisor/Special Projects Administrator at:

paomondi@co.pg.md.us

Phone calls or faxed questions will not be accepted. All questions and answers will be posted to the RDA website no later than three (3) business days prior to the closing date. All potential Respondents are responsible for checking the RDA website for any addendums. A Pre-Proposal Conference will be held at the Project site. Interested parties will meet at 4636 Suitland Road in front of the Dollar General store on November 17, 2017 at 10:00 a.m. EST. Attendance at the Pre-Proposal Conference is not mandatory, but is strongly recommended.

1.4 Oral Presentations

The RDA reserves the right to conduct individual interviews with finalists and to request best and final offers from any or all finalists. Those Offerors may be required to provide oral presentations to discuss their proposal, answer questions from the RDA's Proposal Analysis Group, and/or clarify their technical submittal.

1.5 Economy of Preparation / Incurred Expenses

Proposals should be prepared simply and economically, providing a straightforward, concise delineation of the Offeror's capabilities and description of the offer to meet the requirements of this RFP. The RDA will not be responsible for any costs incurred by any Offeror in preparing and submitting a response to this solicitation.

1.6 Proposal Acceptance

The Redevelopment Authority reserves the right to accept or reject any and all proposals, in whole or in part, received as a result of this solicitation and to waive minor

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irregularities. Further, the RDA reserves the right to make a whole award, partial award, or no award at all.

1.7 Duration of Proposal Offer

Proposals are to be held valid for six months following the closing following the closing date for this Request for Proposals. The period may be extended by mutual written agreement between the Offerors and the Redevelopment Authority.

1.8 Formation of Agreement / Contract with Successful Offeror

The agreement to be negotiated as a result of this RFP (the “Contract”) shall be by and between the Offeror as Contractor and the Redevelopment Authority as Owner, and shall contain provisions included in this RFP. By submitting a proposal in response to this RFP, the Offeror accepts the terms and conditions set forth herein.

1.9 Notice to Offerors

Before submitting a proposal, Offerors are to completely familiarize themselves with the requirements of this solicitation. Failure to do so will not relieve the Offeror of responsibility to fully perform in accordance therewith. No consideration will be granted for any alleged misunderstanding of the material to be furnished or work to be done, it being understood that the submission of a proposal is an agreement with all the requirements, items and conditions referred to herein.

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SECTION II: BACKGROUND, SCOPE AND REQUIREMENTS

2.1 Background

The Redevelopment Authority's mission is to contribute to the creation of a diverse and vibrant economy and living environment for Prince George's County, using community building techniques and providing responsible and responsive development and redevelopment that is designed to enhance quality of life, balanced growth and job creation for diverse, sustainable communities.

Beginning in the early 2000's, the RDA began acquiring the dilapidated and blighted properties in the Suitland Manor Subdivision, along Homer Avenue, Huron Avenue, Hudson Avenue, Lewis Avenue and Chelsea Way. The Acquisition, totaling 22 acres, was complete in 2007. The tenants were relocated and all buildings were demolished.

In late 2014, the RDA, together with its development consultant team, began planning the Towne Square at Suitland Federal Center (TSSFC) development, a mixed-use community anchored by the Suitland Federal Center which houses the U.S. Census Bureau headquarters. The development team assembled adjacent property owners, and in 2015, guided the TSSFC development through the entitlement process obtaining approval of the Preliminary Plan of Subdivision and the MUTC Special Permit. The total land area of the approved plans for the TSSFC development is approximately 25 +/- acres.

The overall TSSFC development site has been divided into phases as shown by the Phasing Exhibit included in this RFP as Appendix D. Demolition of existing infrastructure (abandoned dry and wet utilities, streets, sidewalks, etc.) and rough grading in Phases 1A, 1B, 1C and 2 is currently being accomplished under a separate rough grading contract. The current rough grading contract with Pleasants Construction, Inc. has been structured to commence in Phase 1A and proceed progressively through Phases 1A, 1B, 1C and complete in Phase 2.

Rough grading in Phase 1A is expected to finish by December 8, 2017 to allow turnover to the successful bidder under this RFP. Phase 1A is approximately 5.7 acres.

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Fig. 1 TSSFC Project Development Boundary

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2.2 Schedule Requirements – Phase 1A

Under this RFP, the construction activities for Phase 1A will require, generally, the installation of dry and wet utilities, construction of streets, sidewalks and alley ways, and the finish grading of 45 townhouse building lots. The intent of the RDA is to deliver the finished building lots within Phase 1A ready for construction of town houses by others. The townhouses will be slab on grade. Infrastructure construction and finish grading for Phases 1B, 1C, 2 and 3 are not included in the scope of this RFP.

NVR is the builder selected by RDA for construction of townhouses within Phase 1A. The RDA must deliver Phase 1A Lots 1, 2 and 3 early to allow construction by the builder of model units. This will require completion of base paving in Phase 1A, fine grading to specified elevations and grade for Lots 1, 2 and 3 and utilities available for immediate connection to those lots. Thereafter fine grading and utility connections for the remaining lots in Phase 1A must be made available to the builder at a minimum of twelve (12) lots per quarter (*i.e.*, approximately every three (3) calendar months).

The contractor will be required to prepare a baseline construction schedule and submit regular schedule updates pursuant to the requirements of Section 013200, Construction Progress Documentation of the Division 1 Specifications included with this RFP. The baseline schedule must include interim milestones for completion of base paving and model lots.

2.3 Scope of Services

The RDA is seeking proposals for civil construction work involving finish grading, construction of dry and wet utilities, and construction of streets, sidewalks, alleys and all other appurtenances shown within the drawing set included as Appendix A to this RFP. All Work must be performed in accordance with the specifications included as Appendix B to this RFP.

Appendix D to this RFP is a Project Phasing Exhibit. The scope of work included in this RFP is for Phase 1A only. The street identified as “Rose Park Drive” is included as a part of Phase 1A.

The RDA is seeking certification of the TSSFC development by the Sustainable SITES Initiative (SITES) and LEED ND. Information regarding the goals, requirements and process for development projects seeking SITES certification is available at www.sustainablesites.org and LEED ND at www.usgbc.org/cert-guide. All engineers,

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architects, landscape architects, other consultants, contractors and builders contributing to the TSSFC development are committed to SITES. Offerors will be expected to demonstrate in their proposals a commitment to SITES by employing where possible innovative practices that protect ecosystems, reduce water demand, filter and reduce storm water runoff, reduce energy consumption and preserve natural resources.

Consistent with SITES a Tree Save Plan has been included as an Exhibit in the Appendix A construction documents. The Tree Save Plan identifies eight (8) trees, 3 of which have potential to be protected and transplanted. Several of these trees are located in areas requiring soil undercutting and replacement thereby reducing the potential for successful transplanting. Offerors are encouraged to incorporate in their proposals realistic plans and operations to facilitate tree protection and transplantation if possible. If tree protection and transplantation is not feasible, then the Offeror shall devise alternate plans consistent with SITES certification to salvage and harvest trees as a resource for other uses within the project.

2.4 Confidentiality/Proprietary Information

Offerors must specifically identify those portions of their proposal submission which they deem to contain confidential, proprietary information or trade secrets and must provide justification why such material should not, upon request, be disclosed by the RDA in accordance with the Maryland Freedom of Information Act, 10-601 *et. seq.*, State Government Article, Maryland Annotated Code. Offerors must clearly indicate each and every page that is deemed to be confidential / proprietary or a trade secret (it **IS NOT** sufficient to preface your proposal with a proprietary statement).

2.5 Allowance for In-House Work

No section or portion of this RFP or the Contract shall be construed or interpreted to preclude the RDA from accomplishing any task or the undertaking of any operation or project utilizing its own work force, agents, consultants and contractors or that of other government agencies.

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SECTION III: PROPOSAL SUBMISSION REQUIREMENTS

3.1 Proposal Format

Each technical proposal shall have the following sections prominently displayed:

1. Transmittal Letter
2. Title Page
3. Table of Contents
4. Project Approach and Methodology
5. Bid Form, including unit rates
6. Schedule
7. Exceptions or Restrictions
8. Local & MBE Participation
9. Qualifications
10. Demonstration of Experience
11. Statement of No Conflict of Interest
12. Statement of No Pending or Threatened Litigation
13. Certificate of Good Standing

3.2 Format Description

Each proposal section shall conform to the following order and format:

1. Transmittal Letter: The proposal shall include a transmittal letter prepared on the Proposer's business stationery. The purpose is to transmit the proposal; therefore, it should be brief. The letter must be signed in ink by an individual who is authorized to bind the firm to all statements, including services and prices contained in the proposal.
2. Title Page: Each proposal shall begin with a Title page. It should display the words "RFP No. 2017-11." It should also have the name of the company, and name, title, business address and telephone number of the person authorized to obligate the company.
3. Table of Contents: The proposal shall contain a "TABLE OF CONTENTS" with page numbers indicated.
4. Project Approach and Methodology: Offerors must submit a narrative description of the means and methods it will utilize to accomplish the required scope of work within the time frame required. The narrative should list the types and numbers of major equipment to be used, sequence for undercutting, handling and drying of soil, placement and

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compaction, etc. If the methodology will include use of chemical treatment, it should be described in this section. The approach and methodology should take into consideration the physical constraints of the site, phasing requirements and the volume of earthwork involved.

5. Bid Form: The Bid Form included with this RFP as Appendix C should be completed with the total Lump Sum Price indicated and the unit prices. The Offeror should determine the quantities from Contract Documents and include on the Bid Form.
6. Schedule: The proposal should include a Gantt Chart indicating the start dates and durations for major activities and work to be performed including (but not limited to), Mobilization, installation of utilities, grading activities, Interim Milestones for base paving and completion of Model Home Lots, other significant activities, de-mobilization, etc.
7. Exceptions or Restrictions: Should the Offeror take exception to any provision or requirement of this RFP, it must be stated in this section. If no exceptions or restrictions are made then this section should so indicate.
8. Local & MBE Participation: See Section 3.5 below.
9. Qualifications: See Section 3.3 below.
10. Demonstration of Experience: See Section 3.4 below.
11. Statement of No Conflicts of Interest: The Offeror is required to make a statement of no knowledge of any actual or potential conflicts of interest with the Redevelopment Authority of Prince George's County.
12. Statement of No Pending Litigation: The Offeror must affirm that they are not a party to any pending litigation against the Redevelopment Authority of Prince George's County.
13. Certificate of Good Standing: The Offeror must provide a current Certificate of Good Standing from the State of Maryland.

3.3 Offeror Qualifications

The Offeror must provide evidence of organizational and financial capacity to deliver the proposed scope of work. Evidence of financial capacity may include, but is not limited to: value of current work in hand; amount of work completed in past 5 years; cash liquidity; and credit rating. Offerors must possess all licenses, registrations and certifications required by the State of Maryland to undertake the work required by this RFP.

Offerors interested in performing the work covered by this RFP must exhibit relevant experience and capabilities on large development projects in all of the following:

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- dry and wet utility construction;
- earthworks including excavation and grading;
- construction of streets, sidewalks, etc.; and
- related infrastructure construction activities.

Offerors should emphasize both the experience and capability of particular personnel who will actually manage and supervise the work. Offerors should also indicate any major sub-contractors proposed to be utilized on the Project.

3.4 Demonstration of Experience

Offerors shall identify three (3) similar projects, completed or in process of completion, comparable to the scope of work required by this RFP. For each relevant project, the Offeror shall identify the following:

- a. Project name;
- b. Location or address of the project;
- c. Description of the project, including work performed and total acreage;
- d. Period of performance;
- e. Estimated total project costs, if the project is not yet complete or actual total development costs, if project has been completed;
- f. Projected commencement and completion date, if project is not yet complete or actual commencement and completion date, if project is complete;
- g. Name and contact information for Project Owner or representative provided as a reference.

Offerors must be fully licensed in the State of Maryland for the type of work required by this solicitation no later than the date that proposals are due. Offerors who are not fully licensed and certified shall not be found qualified.

The Project will require the Contractor to provide proof of the following insurance coverages prior to commencement of Work:

- Commercial General Liability insurance having limits of at least 1 million dollars per occurrence, 2 million dollars aggregate;
- Umbrella Liability insurance of at least 2 million dollars;
- Commercial Auto (including owned, leased, non-owned and hired) having limits of at least \$500,000;
- Workers Compensation Insurance at statutory amounts; and
- Bonding capacity equal to at least Offeror's proposed Lump Sum amount.

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3.5 County Local and Minority Owned Business Participation

A priority for Prince Georges County Government and a mission of the RDA is to create jobs and opportunities for local residents, County located business enterprise (CLB), minority-owned businesses (MBE) and women-owned businesses (WBE) certified businesses. The goal is to build capacity for such firms to grow and compete effectively with their majority-owned counterparts.

The total contract value for this solicitation, must include 40% local participation and 20% MBE/WBE participation. These are minimum thresholds and it is expected that successful respondents will exceed these thresholds as described in this Section.

For businesses with a headquarters located outside of Prince George's County, the following will be considered as CLB for the purpose of achieving the 40% local participation requirement:

- the business has an established office within Prince George's County with at least 5 full-time-equivalent (FTE) employees working in the county located office; or
- the business has at least three FTE employees in the county located office, with at least two of those being residents of Prince George's County; or
- the business has an ownership interest in the building housing the county located office.

SECTION IV: EVALUATION AND SELECTION PROCESS

4.1 Selection Process

The RDA will form a Selection Committee (SC) to review and evaluate all proposals that have been submitted by the Bid Due Date. The proposals will be evaluated and scored based on the Evaluation Criteria as set out in this RFP, and the lump sum fee quoted in the proposal. The SC may, in its sole discretion create a short list of two or more Offerors who will be invited to participate in an oral interview or to submit additional information.

The Proposal that best meets the RDA's requirements in this solicitation in terms of capabilities, approach, schedule and price will be selected.

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4.2 Evaluation and Selection Committee

The SC will consist of RDA senior staff and consultants to the RDA. The SC will evaluate all proposals received by the closing deadline according to the Evaluation Criteria established for this solicitation. The SC may request additional technical assistance from any resource at its discretion.

4.3 Qualifying Proposals

Offerors participating in this solicitation, shall be deemed to have fully read and understand the requirements and instructions contained in this RFP and have full knowledge of the scope, nature, and quality of the Work to be performed. Submission of a response to this RFP shall be deemed as acceptance of the evaluation techniques and the recognition that subjective judgments may be made by RDA during the evaluation process.

4.4 Evaluation Criteria

After determining compliance with the requirements of this RFP the SC shall conduct its evaluation of the technical and cost merit of each compliant proposal. Each proposal received as a result of this RFP shall be subject to the same review and evaluation process. The following criteria will be used in the evaluation of submitted proposals:

CRITERIA	POINTS
Project Approach & Methodology (narrative demonstrates understanding, efficiency and innovation = higher score)	30
Lump Sum Price (lowest realistic price = higher score)	20
Schedule (more realistic schedule meeting Project requirements = higher score)	15
Local & MBE Participation (more local and MBE Participation = higher score)	10
Qualifications (more qualified and financial capability = higher score)	15
Experience (more experience = higher score)	10
Total:	100

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4.5 Final Ranking and Selection

The Proposal submission must be signed by duly authorized official(s) of the Offeror. Joint ventures or teams submitting Proposals, although permitted and encouraged, will not be considered responsive and qualified unless it is established that all contractual responsibility rests solely with one party or legal entity which shall not be a subsidiary or affiliate with limited resources. Each Proposal submission shall indicate the entity responsible for execution on behalf of the Respondent. The RDA shall select the Proposal deemed most responsive to the RFP. The RDA shall also retain the right to not select any Proposal if it deems it to be in the best interest of the Authority.

4.6 Proposal Property of RDA

All submitted proposals shall become Property of the RDA and will not be returned.

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SECTION V: APPENDICES AND EXHIBITS

Appendix A - Drawing List

TYPE	SHEET #	SHEET TITLE
	GI-100	COVER SHEET
	VF-101	EXISTING CONDITION AND DEMO PLAN
	CG-101	GRADING PLAN
SD&P	CS-101	SITE PLAN
SD&P	CS-501	SITE DETAILS
SD&P	CS-502	SITE DETAILS
SD&P	CS-201	PAVING & ROADWAY DESIGN
SD&P	CS-202	PAVING & ROADWAY DESIGN
SD&P	CS-203	PAVING & ROADWAY DESIGN
SD&P	CS-204	PAVING & ROADWAY DESIGN
SD&P	CU-100	UTILITY PLAN
SD&P	CU-101	STORM DRAIN PLAN AND PROFILE
SD&P	CU-102	STORM DRAIN PLAN AND PROFILE
SD&P	CU-103	STORM DRAIN PLAN AND PROFILE
SD&P	CU-104	STORM DRAIN PLAN AND PROFILE
SD&P	CU-105	STORM DRAIN PLAN AND PROFILE
SD&P	CU-106	STORM DRAIN STRUCTURE SCHEDULE
SD&P	CU-107	STORM DRAIN STRUCTURE SCHEDULE
SD&P	CU-108	STORM DRAIN COMPUTATIONS
SD&P	CU-109	STORM DRAIN DRAINAGE AREA MAP
SD&P	CU-501	UTILITY DETAILS
SD&P	CU-502	UTILITY DETAILS
	CW-101	STORMWATER MANAGEMENT PLAN
	CW-201	MICRO BIORETENTION FACILITY PLAN
	CW-501	STORMWATER MANAGEMENT CROSS SECTION
	C-SP-1	PAVEMENT MARKING AND SIGNAGE
ST&L	C-ST-101	STREET TREE AND LIGHTING PLAN
ST&L	C-ST-102	STREET TREE AND LIGHTING PLAN
	L-401	TOWNE SQUARE BLVD STREETSCAPE ENLARGEMENT - LAYOUT PLAN

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L-402	TOWNE SQUARE BLVD STREETSCAPE ENLARGEMENT - GRADING PLAN
L-403	TOWNE SQUARE BLVD STREETSCAPE ENLARGEMENT - LAYOUT & GRADING PLAN
L-501	.....	HARDSCAPE SITE FURNISHING DETAILS
L-503	HARDSCAPE SITE FURNISHING DETAILS
L-504	HARDSCAPE SITE FURNISHING DETAILS

SCD FSC

SHEET #	SHEET TITLE
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CE-100	COVER SHEET
CE-101	GRADING, EROSION, AND SEDIMENT CONTROL - INITIAL
CE-102	GRADING, EROSION, AND SEDIMENT CONTROL - INTERIM
CE-103	.....	GRADING, EROSION, AND SEDIMENT CONTROL - FINAL
CE-501	.....	GRADING, EROSION, AND SEDIMENT CONTROL DETAILS
CE-502	.....	GRADING, EROSION, AND SEDIMENT CONTROL DETAILS
CE-503	.....	GRADING, EROSION, AND SEDIMENT CONTROL NOTES
CE-504	GRADING, EROSION, AND SEDIMENT CONTROL NOTES

WSSC SEP

SHEET #	SHEET TITLE
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A001	WATER AND SEWER EXTENSION PLAN
A002	WATER AND SEWER EXTENSION PLAN
A003	WATER AND SEWER EXTENSION PROFILE
A004	.....	WATER AND SEWER EXTENSION PROFILE
A005	WATER AND SEWER EXTENSION PROFILE
A006	WATER AND SEWER EXTENSION PROFILE

SHA

SHEET #	SHEET TITLE
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GI-100	COVER SHEET
SC-101	TYPICAL SECTION PAVING AND DRAINAGE PLAN
SC-102	TYPICAL SECTION PAVING AND DRAINAGE PLAN
SC-104	EX DRAINAGE AREA MAP PLAN

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PEPCO

SHEET #	SHEET TITLE
E-101	ELECTRIC PLAN
E-401	PHASE 1A SINGLE LINE PLAN

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Appendix B – Specification List

SECTION 011000 – SUMMARY

SECTION 012200 – UNIT PRICES

SECTION 012500 – SUBSTITUTION PROCEDURES

SECTION 013100 – PROJECT MANAGEMENT AND COORDINATION

SECTION 013200 – CONSTRUCTION PROGRESS DOCUMENTATION

SECTION 013233 - PHOTOGRAPHIC DOCUMENTATION

SECTION 013300 – SUBMITAL PROCEDURES

SECTION 014000 – QUALITY REQUIREMENTS

SECTION 015000 – TEMPORARY FACILITIES AND CONTROLS

SECTION 017300 – EXECUTION

SECTION 017700 – CLOSEOUT PROCEDURES

SECTION 311000 - SITE CLEARING

SECTION 312000 - EARTH MOVING

SECTION 321216 – ASPHALT PAVING

SECTION 321373 – PAVING JOINT SEALANTS

SITES v2 Soil Management Plan Worksheet

SITES v2 Punchlist

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Appendix C - Bid Form

I (we) _____, _____,
Company Name
Tax ID No.

Propose to furnish all labor, materials, equipment, and services and supervision required by the contract documents for the entire work, in accordance with the contract documents and scope of work for FINISH GRADING & INFRASTRUCTURE CONSTRUCTION – PHASE 1A AT TOWNE SQUARE AT SUITLAND FEDERAL CENTER, for the lump sum price of (\$ _____).

UNIT PRICE SCHEDULE:

For changing quantities of work items from those indicated by the contract drawings upon written instruction from the Owner or Engineer, the following unit prices shall prevail:

EARTHWORK			
Item	Unit Price	Units	Quantity Shown in Contract Docs
Cut		CY	
Fill		CY	
Select Backfill		CY	
Stone Aggregate Backfill		CY	
Spoil and Borrow		CY	
Top Soil		CY	
12" Topsoil, Seed, and Mulch		SY	
Tree protection / Safety Fence		LF	
Sand (washed)		CY	
Pea Gravel (washed)		CY	
Planting Soil		CY	
Mulch		CY	
ROAD WORK			
Item	Unit Price	Units	Quantity Shown in Contract Docs
Bituminous Concrete Surface Course		SY /in.	
Bituminous Concrete Base Course		SY /in.	
Gravel Surface Course		SY /in.	
Gravel Base Course		SY /in.	
Crusher Run (CR6)		SY /in.	
Bankrun Gravel		SY /in.	

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Plain Portland Cement Concrete		SY /in.	
Dense Graded Aggregate		SY /in.	
Double Bituminous Surface Treatment		SY	
Bituminous Curb		LF	
Concrete Curb and Gutter		LF	
Mountable Concrete Curb and Gutter		LF	
4" Concrete Sidewalk		SF	
Concrete Sidewalk Handicap Ramp		EA	
Block Pavers		SF	
Street Lights		EA	
Street Trees		EA	
Pavement Milling - 2 in depth		SY	
Temporary Pavement Markings 4" Paint		LF	
Temporary Pavement Markings 4" Tape		LF	
Test Pits for Utility Conflicts		CY	
Adjust Water Meter covers to grade		EA	
Adjust Water Valve Boxes		EA	
Concrete Jersey Shape Traffic Barrier		EA	
SEDIMENT AND EROSION CONTROL - details from the Maryland Standards and Specifications for Soil Erosion and Sediment Control			
Item	Unit Price	Units	Quantity Shown in Contract Docs
Stabilized Construction Entrance (SCE) (MDE Detail B-1)		EA	
Temporary Asphalt Berm (MDE Detail C-5)		LF	
Silt Fence (MDE Detail E-1)		LF	
Silt Fence on Pavement (MDE Detail E-2)		LF	
Super Silt Fence (MDE Detail E-3)		LF	
Inlet Protection (MDE Detail E-9)		EA	
Filter Fabric		SY	
Temporary Seeding		SY	
Temporary Mulching		SY	
Wash Rack (MDE Detail B-2)		LS	
Filter Bag (MDE Detail F-4)		EA	
Sump Pit (MDE Detail F-2)		EA	
UTILITY WORK (Water)			
Item	Unit Price	Units	Quantity Shown in Contract Docs
Main (4" D.I.P.)		LF	
Main (8" D.I.P.)		LF	
Main (4" C900)		LF	
Main (8" C900)		LF	
House Connection (1½" copper)		LF	
4" Valve and Box		EA	

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8" Valve and Box		EA	
12" Valve and Box		EA	
4" Tapping Sleeve and Valve		EA	
8" Tapping Sleeve and Valve		EA	
12" Tapping Sleeve and Valve		EA	
Fire Hydrant		EA	
4" Blow Off Assembly		EA	
UTILITY WORK (Sewer)			
Item	Unit Price	Units	Quantity Shown in Contract Docs
4" House Connection		LF	
8" Gravity Main (PVC)		LF	
12" Gravity Main (PVC)		LF	
Cleanout		EA	
Manhole, Standard Depth		EA	
Manhole, Additional Depth		V.Ft.	
Manhole, Terminal		EA	
STORM DRAINAGE (Plastic Pipe)			
Item	Unit Price	Units	Quantity Shown in Contract Docs
4" Pipe (PVC Schedule 40 - rigid)		LF	
6" Pipe (PVC Schedule 40 - rigid)		LF	
8" Pipe (PVC Schedule 40 - rigid)		LF	
STORM DRAINAGE (Concrete Class IV Round Pipe)			
Item	Unit Price	Units	Quantity Shown in Contract Docs
15" RCP		LF	
18" RCP		LF	
21" RCP		LF	
24" RCP		LF	
27" RCP		LF	
30" RCP		LF	
33" RCP		LF	
36" RCP		LF	
STORM DRAINAGE (Structures)			
Item	Unit Price	Units	Quantity Shown in Contract Docs
48" Precast Manhole		EA	
60" Precast Manhole		EA	
72" Precast Manhole		EA	
Cleanout		EA	
24" Drain Basin		EA	
Inlet - Type A COS 5'		EA	

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Inlet - Type A COS 10'		EA	
Inlet - Type E		EA	
Yard Inlet		EA	
STORM DRAINAGE (Miscellaneous)			
Item	Unit Price	Units	Quantity Shown in Contract Docs
Field Connection		EA	
6" Perforated PVC Pipe		LF	
Corrugated Metal Pipe		LF	
STORMWATER MANAGEMENT			
Item	Unit Price	Units	Quantity Shown in Contract Docs
SWM - Roadside Tree Boxes		CY	
Bioretention SWM Filter Complete and Installed		CY	
No. 2 Stone		CY	
Geotextile Fabric		SY	
SWM Plantings (Trees, Shrubs, Herbs, and SAV)		SY	
Temporary Seed & Rye		SY	
UTILITY WORK (Other)			
Item	Unit Price	Units	Quantity Shown in Contract Docs
2" PVC Conduit		LF	
4" PVC Conduit		LF	
2" PVC Conduit (Encased)		LF	
4" PVC Conduit (Encased)		LF	
30"x17" Electric Handhole		EA	
Pepco Transformer Pad		EA	
OTHER			
Item	Unit Price	Units	Quantity Shown in Contract Docs

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The above unit prices shall include all labor, supervision, materials, shoring, removal, overhead, profit, insurance, etc. to cover the finished work of the several kinds called for. Changes shall be processed in accordance with the General Conditions.

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Appendix D - Phasing Exhibit