

# Memorandum



**Date:** May 19, 2014

**To:** Gary Hartfield  
Division Director  
Small Business Development  
Internal Services Department

**From:** Fernando V. Ponassi  
Manager, Contracts Administration  
Design and Construction Services Division  
Internal Services Department

**Subject:** Notice of Construction Contract, ISD Contract No. W130078, Gerstein Justice Building - Install New Fan Walls, 1351 NW 12th Street, Miami, FL 33125

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The attached worksheet is provided for your information regarding the subject project. No contractors are available under the County's Community Small Business Enterprise (CSBE) program to fully do the proposed scope of work. Therefore, it is recommended that a 9% CSBE goal be established to this contract. In addition, and due to the project's location, the Community Workforce Program is not applicable. This contract will be funded through the Building Better Communities (GOB) Program.

The scope of work to be performed under the terms of this contract consists of the furnishing of all materials, labor, services, permits, supervision, tools and equipment, required or incidental to, removal and replacement of the existing supply fan units, heating coils and Variable Frequency Drive (VFD) units with new fan-wall systems and redundant VFD systems.

The FANWALL array is a HIGHLY specialized system and to date has only been previously installed in one (1) county facility (under the MCC7360 Plan). The W130078 project involves the retrofit of the supply fan section of nine (9) existing air handling units with the FANWALL System. Due to the particular details of the project which involves the creation of an integrated system of state-of-the-art fans, motors, cabinetry, controls, and accessories, ISD requested a list of qualified contractors that had prior experience with FANWALL technology installation from the manufacturer. The list supplied by the manufacturer had multiple qualified contractors with only one (1) being a registered CSBE contractor on the MCC 7040 Plan. Unless, SBD can locate a minimum of three (3) CSBE contractors under the MCC 7040 Plan with verifiable references that meets the experience requirement of installing at least ONE (1) FANWALL array system in the last five (5) years, then ISD requests that this project is bid through the MCC 7360 Plan with a proposed 9% CSBE goal for the Electrical sub-trade. This solicitation will be opened to General Building Contractors and General Mechanical Contractors as Primary contractors with a 9% CSBE goal for an Electrical sub contractor.

Additionally, this project is very critical to the Richard E. Gerstein Justice Building and must be completed on time and meet the quality standards specified in the construction documents. The REG Justice Building cannot afford any delays in the installation phase which would adversely affect the operations of the facility, so heavy liquidated damages will also be strictly enforced to the Contractor. This contract includes the cost of disposing of all materials.

If additional information is required, please contact Mohammed Taha, CAS MCC Coordinator, at (305) 375-5723.

cc: Miriam Singer, CPPO, Assistant Director  
Tara C. Smith, Acting Division Director  
Mohammed Taha, MCC Coordinator  
Laurie Johnson, ISD  
Vivian Forhat-Diaz, ISD

**DEPARTMENT INPUT**  
**CONSTRUCTION CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

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

**PROJECT INFORMATION** See attachment

Contract/Project/Work Order No.: W130078

Contract/Project Title: Gerstein Justice Building - Install New Fan Walls

**Description/Scope of Work:** The scope of work consists of, but is not limited to, furnishing of all materials, labor, services, permits, supervision, tools and equipment, required or incidental to, removal and replacement of the existing supply fan units, heating coils and VFD units with new fan-wall systems and redundant Variable Frequency Drive (VFD) systems.

**Estimated Cost:** \$915,000.00

**Funding Source:** General Obligation Bond (GOB)

**Location of Project:** 1351 NW 12th Street, Miami, FL 33125

**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

Comments: N/A

**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:** No CSBE contractors available for the proposed Fan Walls system

**Date submitted to SBD:** 5/8/2014

**Contact Person:** Mohammed Taha, MCC Coordinator, CAS

**Telephone No.:** 305-375-5723

## SCOPE OF WORK

### 1.0 GENERAL

- A. The project is titled as ***Install New Fan-walls Project***. The project site is located at the Gerstein Justice Building at 1351 North West 12<sup>th</sup> Street, Miami, FL 33125. Contractor assumes the risk of all unforeseen matters discovered during the work and shall complete all the work for the fixed contract price.
- B. The scope of work generally includes mechanical, electrical, structural, and general contracting work on removal of existing supply fan units, 'hot deck' heating coils and variable frequency drive (VFD) units and installation of new fanwall systems and redundant VFD systems, as per Construction Documents.
- C. Contractor shall construct, furnish all labor, materials, tools, provide equipment, supervision freight and service, including all incidental expenses, insurance, taxes, permits, overhead and profit as necessary or required for the satisfactory completion of the Work as specified and delivered to the project site for the referenced Work described in Contract Documents. The Contractor is responsible for all of his Sub-Contractor trades. Contractor shall also be in charge of coordinating security of property and traffic control incidental to construction.

### 2.0 SCOPE OF WORK

The scope of work to be performed under the terms of this contract consists of the furnishing of all materials, labor, services, permit fees, supervision, tools and equipment, required or incidental to removal and replacement of existing supply fan units, 'hot deck' heating coils and VFD units with new fanwall systems and redundant VFD systems at the Gerstein Justice Building as detailed in the specifications, drawings and project manual.

### 2.1 **Mobilization / Preparation / Completion / Demobilization**

- A. Submission of Performance and Payment Bonds, Insurance Certificate, Work Permitting, Work Schedule and technical information.
- B. Contractor must get approval by the Engineer on submittals for all equipment, devices and materials which are to be used in the project.
- C. Attendance at pre-work meeting. At least the Project Manager and Foreman must be present at the pre-work meeting.
- D. Mobilization including deliveries, storage, and deployment of materials and equipment, and setting up of field office if any.
- E. Perform a pre-work survey with the presence of Agency's representative, noting damaged items in areas within the Scope of Work or adjacent areas that might be affected by the Work. Document all damaged areas prior to construction.
- F. Protect from damage all existing utilities and equipment, mechanical, electrical items and landscaping etc. to remain including but not limited to the following: piping, conduit, wiring, ductwork, sprinklers, light fixtures, electric panels, exit signs, alarm devices, pumps, fans,

irrigation pipes, electrical pipes etc.

- G. Temporary removal and reinstallation of utilities, equipment, fixtures, etc: Any utility or equipment which requires removal in order to make areas accessible for required Work, shall be removed, stored and protected, and re-installed to its original condition by the Contractor. Removal shall be conducted with extreme care so as not to cause any damage to the item and to ensure its re-usability. The Contractor shall notify the Engineer and the Agency immediately upon discovery of any such utility or obstacle which interferes with the Work. No removal and or relocation of any such utility or obstacle shall be made without prior Agency or Engineer's review and approval. Upon completion, reset utilities, equipment and fixtures any other materials or equipment removed to facilitate the Work to their original configuration.
- H. Contractor to re-route or adjust existing utility lines that interfere with the Work, if any. Cost of utilities relocation/modifications, if any, is included in the bid price. No separate payment will be made for this work.
- I. Provide safe and clear access in cases where trash removal and deliveries around Work areas become necessary. Pedestrian access in work zones is prohibited. The Agency is responsible to inform employees of restrictions and Work zone locations.
- J. Any item damaged as a result of Contractor's negligence during the Work shall be repaired or replaced at Contractor's expense to Engineer's satisfaction.
- K. Electric Power & Lighting: Contractor shall be responsible for providing and maintaining temporary electric power and necessary lighting required to perform the Work. Building's electrical panels shall be made available to Contractor for temporary lighting or other electrical requirements. No additional payment shall be made to the contractor for this item.
- L. Water: Contractor shall be responsible for providing and maintaining temporary water supply required to perform Work. One of the buildings water supply outlets shall be made available to Contractor for temporary water supply requirements. No additional payment shall be made to the contractor for this item.
- M. Provide all environmental protection, safety, and health Work. Provide compliance with all OSHA and EPA requirements for the Work.
- N. Note existing locations of different AHUs, heating coils, wall masonry, electrical wiring, equipment and piping on a drawing and photos for restoring after affected by Work.
- O. All precautions must be taken to remove noise and vibrations during work. All noise generating work is subject to the noise ordinances of this job jurisdiction. The contractor is responsible to be knowledgeable of local noise ordinances and to obtain necessary permits and required permission to complete the Work in a timely manner. No separate payment will be made for noise compliance.
- P. Attendance at progress meetings every one week as needed. Attendance at periodic special meetings called by the Agency as needed.
- Q. Coordination and participation with any other Agency's contractor.
- R. Provide protection of areas adjacent to Work, satisfactory to Engineer and Agency.

- S. Participation with Agency's Representative to facilitate coordination of occupants with Contractor's Work as necessary.
- T. Engineer and other authorized representatives of the Agency have the right to observe and examine the Work during all stages.
- U. Cleanup daily ready for normal use by Agency and building residents at the end of each work day and on days between work days. Sectional cleanup upon completion of each section of work ready for normal use by Agency and building residents. Cleanup at the completion of each Work Task ready for normal use by Agency and building residents. Cleanup at the completion of all Work including cleaning all glass ready for normal use by Agency.
- V. Demobilization including removal of protection, unused materials, and equipment; and removal of office.
- W. Record ("as built") drawings prepared by the Contractor indicating location and extension, of departures in Work done or repaired.

## **2.2 Work Tasks**

- A. Visit the job site and verify the existing condition of the supply fan units, 'hot deck' heating coils, and VFD units.
- B. After the delivery of materials on the job site, Contractor will schedule inspections to obtain approval from the Engineer for the compliance of delivered products with the approved shop drawings and submittals.
- C. The Work includes but is not limited to:
  - 1. Demolition and removal of existing supply fan units and 'hot deck' heating coils. Provide end-caps on hot water piping and provide end-caps on electrical conduits that are to remain as per Construction Documents. While equipment is demolished, Contractor must provide a power exhaust system to expel torch cutting fumes out of building.
  - 2. Removal of existing VFD units. All removed VFD units and electrical equipment shall be properly maintained and given to Agency.
  - 3. Structural work on expanding and reinforcing of existing wall openings, demolition of specified masonry wall and masonry work on specified new walls as per approved Construction Documents. Fumes and dust from demolition must be exhausted out of building.
  - 4. Installation of new fan array access doors as per approved Construction Documents.
  - 5. Mechanical, electrical and structural work on installation of new fanwall metal frames and fanwall cell arrays as per approved Construction Documents. While support structures are welded Contractor must provide exhaust for welding fumes out of building. Newly installed metal framing for the fanwall arrays must be properly sealed to masonry with grout and painted as needed.

6. Electrical work on installation of new motor control center (MCC) section to existing MCC. This may require re-routing existing fire system piping above MCC (refer to section 2.1-H above).
7. Electrical work on installation of new redundant VFD systems as per approved Construction Documents. This includes reconnecting the fire alarm system to the new redundant VFD systems.
8. Electrical work on replacing existing or adding new ceiling mounted fixtures with a fluorescent type fixture provided with an inverter for emergency power backup.
9. Limited work on new ductwork system to provide the conditioned air to new VFD control center as per approved Construction Documents. New ducting will be connected to the existing AC system.
10. General Contractor work on concrete masonry reinforcement and fire-proofing any electrical and duct penetrations as per approved Construction Documents.
11. Testing and balancing work for new fanwall systems after each system is completely installed. This includes programming and testing the new redundant VFD systems.

### **2.3 Additional Conditions**

- A. The following steps shall be followed in the order listed to perform the project.
  1. Security clearance for workers shall be accomplished prior to the work commencing.
  2. Installation of new MCC section, all new redundant VFD systems, and all electrical equipment and wiring, except for fuses, must be purchased and installed prior to any HVAC system shutdown. Installation of the new MCC section may require shutdown of the existing MCC and must be coordinated with the Agency.
  3. HVAC system shutdown of paired existing supply fans when work is to begin for said units. Shutdown will be coordinated with Building Manager. Work will not commence on other paired units until work is completed for shutdown paired units.
    - a. Proposed pairing and order of existing fans:
      - 1) AHU-5 and AHU-6
      - 2) AHU-7 and AHU-8
      - 3) AHU-9
      - 4) AHU-10
      - 5) AHU-1 and AHU-2
      - 6) AHU-3
    - b. Pairing and order of existing fans may be coordinated with Building Manager.
  4. Demolition of existing supply fans and 'hot deck' heating coils. Provide end-caps for hot water piping and remaining electrical conduits as per Construction Documents. Cutting fumes must be exhausted from building.
  5. Expand and reinforce existing wall openings to fit new fanwall systems. Install structural support steel frames into openings and weld components. Exhaust welding fumes from building.

6. When working on AHU-5 and AHU-6, demolition of specified wall and construction of new masonry walls. Also ductwork supplying cooling air from AHU-6 to VFD control center.
  7. Install new fanwall cells on frames, as per manufacturer's instructions, and connected to new redundant VFD systems.
  8. After installation work is completed, new fanwall and redundant VFD systems must be tested and balanced.
  9. Once work is completed for each paired AHUs work area will be cleaned and debris removed.
- B. If Contractor chooses to utilize a manufacturer other than specified on the Contract Drawings, then Contractor must use a manufacturer whose products are similar in appearance and performance to the products noted in the Notice of Acceptance specified on the Contract Drawings. Contractor must submit other manufacturer's brochures and other relevant information. Other manufacturer must be willing to make a comprehensive presentation to the Agency to show their product and answer questions.
  - C. Contractor shall try to keep the damage to the finishes to a minimum. Damaged areas shall be patched and finished to match the adjacent areas. All areas damaged during work in progress shall be repaired by the Contractor at no additional cost.
  - D. Provide access for the Engineer along with the product manufacturer's representative to inspect and point out the areas to be repaired. Coordinate inspection schedule, day and hours, with the Engineer. Schedule work in a manner that Engineer has the opportunity to observe the existing opened areas, specify the areas to be repaired, issue the repair quantities, inspect and approve the work performed prior to its concealment. Provide Engineer with a minimum of 48 hours notice, not counting Saturdays and Sundays.
  - E. Limits of the areas to be repaired / modified will be defined or marked by the Engineer.
  - F. Contractor to re-rout or adjust existing utility lines that interfere with the work, if any. Reinstall/removed electric outlets on the sides of the reduced openings and rework and utility lines to keep them connected and operational. Cost of utilities relocation/modifications is included in the bid price. No separate payment will be made for this work.
  - G. Engineers and other authorized representatives of the Agency have the right to inspect the work during all stages of the construction.
  - H. Contractor to perform all work in accordance with the Contract Drawings and Specifications. Perform all work specified by the Engineer. If Contractor considers that changes are required, either major or minor, he must obtain written authorization from Engineer and Agency (or project manager). Any cost difference must be stated.
  - I. Contractor must be responsible to provide all needed work and materials (i.e. fasteners, hangers, etc.) in order to complete the project even if work and materials are not specified in the Construction Documents.
  - J. Notify Engineer for inspection after all removal and replacements are complete. Engineer will

give acceptance of work or instruct the Contractor to correct items that are not properly installed. Contractor must seek Engineer's sign off along with the punch list items, in writing, for acceptance of the work prior to start of work at next drop.

- K. Contractor shall submit schedule of value to be approved by the Engineer.
- L. Computation for payment will be based upon percentage's completion.
- M. Contractor shall submit a delivery and installation schedule to the building manager to allow for the premises to be prepared.
- N. The Agency has the right to cancel the entire contract at any stage of construction if the quality of product or performance of the contractor is not up to the standard required by the Agency. Agency shall pay only for the amount of work accepted prior to cancellation of the contract.
- O. Contractor shall provide a 1-year warranty for all work performed under this contract. Warranty shall include cost of labor, material and equipment and other associated costs required to repairs the defect due to materials or workmanship.

### **3.0 APPLICABLE CODES & DRAWINGS**

All work on this project shall comply with all existing latest edition applicable Federal, State and Local Codes and in particular the Florida Building Code, 2010 Edition and the applicable requirements of OSHA. The following Drawings are included as part of these specifications and are attached to this manual:

**Gerstein Justice Building: Install New Fan-Walls: T-1**

Electrical: E-0.0; E-1.0; E-2.0; E-3.0

Mechanical: M-0.0; M-1.0; M-2.0; M-2.1; M-2.2; M-2.3; M-2.4; M-2.5

Structural: S-0.0; S-1.0; S-2.0

**END OF SECTION**

**INTERNAL SERVICES DEPARTMENT**  
**Design and Construction Services Division**

04-10-14

**GERSTEIN JUSTICE BUILDING**  
**INSTALL NEW FAN - WALLS**

Qty	Description	Unit	Barre Material	Labor - Hour	Barre Labor	Barre Equipment	Total	Unit Cost	Approx % Project
1.00	Surveying Layout of Utilities	Day	\$	-	\$ 1,500.00	\$	\$ 1,500.00	\$ 1,500.00	0.19%
1	Permits	Job	\$	-	\$	\$	\$	\$ 18,500.00	2.33%
4.00	Temporary toilet	More	\$	6.50	\$ 18.42	\$	\$ 18.42	\$ 75.21	0.04%
5.00	Dumpsters (20 CY)	Load	\$	-	\$	\$	\$	\$ 450.00	0.28%
12.00	Project Foreman	Week	\$	40.00	\$ 55.00	\$	\$ 2,200.00	\$ 2,200.00	3.32%
1	Punch List Preparation & Completion	Project Foreman	\$	40.00	\$ 55.00	\$	\$ 2,200.00	\$ 2,200.00	0.28%
1	Shop Drawing & Submittal	Project	\$	-	\$	\$	\$ 500.00	\$ 500.00	0.06%
1	Project As-built	Project	\$	-	\$	\$	\$ 1,500.00	\$ 1,500.00	0.19%
1	Interim & Final Cleanup	Job	\$	24.00	\$ 76.66	\$ 45.00	\$ 1,965.32	\$ 1,965.32	0.24%
150	Temporary Chain Link Fence	L.F.	\$	0.92	\$ 18.42	\$	\$ 457.25	\$ 3.05	0.05%
1	Insurance, Builders risk (2.5% of Contract subtotal)	L.S.	\$	-	\$	\$	\$ 18,900.00	\$ 18,900.00	2.39%
1	Performance bond (2.5% of Contract subtotal)	L.S.	\$	-	\$	\$	\$ 18,405.00	\$ 18,405.00	2.44%
1,000.00	Remove existing portion of the wall	S.F.	\$	0.05	\$ 57.51	\$ 0.10	\$ 2,915.50	\$ 2.98	0.37%
200.00	5" Concrete block	S.F.	\$	0.15	\$ 58.44	\$ 0.45	\$ 2,913.20	\$ 14.57	0.37%
120.00	Framing 4 x 4 steel angle	L.F.	\$	3.00	\$ 86.50	\$ 20.00	\$ 34,844.40	\$ 290.37	4.38%
40.00	Install W.B.X. 12 steel beam	L.F.	\$	4.00	\$ 86.50	\$ 12.00	\$ 15,274.80	\$ 381.87	1.92%
40.00	Install 2-1/2 x 2-1/2 steel tube	Hr.	\$	18.00	\$ 98.50	\$ 14.00	\$ 18,130.00	\$ 378.00	1.90%
64.00	Framing barwell 1-1/2 S.O. tubes	E.A.	\$	4.00	\$ 59.04	\$ 12.00	\$ 32,870.24	\$ 515.16	4.14%
34.00	New Shutter	S.Y.	\$	0.75	\$ 56.44	\$ 1.87	\$ 1,952.40	\$ 50.10	0.23%
4.00	Patch / repair stator and exhaust	Hr.	\$	1.00	\$ 56.44	\$ 30.00	\$ 673.76	\$ 218.44	0.11%
200.00	Exterior painting	S.F.	\$	0.05	\$ 48.45	\$ 0.35	\$ 1,028.75	\$ 3.35	0.19%
50.00	Remove existing supply fan units and associates accessories	Hr.	\$	1.00	\$ 88.50	\$ 12.00	\$ 6,940.00	\$ 100.80	0.76%
32.00	Remove existing coil & accessories to be removed	Hr.	\$	1.00	\$ 88.50	\$ 12.00	\$ 3,216.00	\$ 100.50	0.40%
2.00	Install new fire damper	L.F.	\$	0.25	\$ 66.50	\$ 35.00	\$ 6,038.45	\$ 67.11	0.75%
4.00	Install Air Return/return grille	E.A.	\$	3.00	\$ 56.11	\$ 12.00	\$ 958.66	\$ 469.35	0.12%
54.00	Install new fan	E.A.	\$	3.00	\$ 56.11	\$ 12.00	\$ 2,457.32	\$ 815.33	0.31%
24.00	Remove existing wire - conduit and cap	Hr.	\$	1.00	\$ 61.48	\$ 55.00	\$ 3,039.52	\$ 126.46	0.39%
18.00	Remove existing fixtures	E.A.	\$	0.50	\$ 61.48	\$ 55.00	\$ 1,723.32	\$ 95.74	0.22%
15.00	Install new fixtures	E.A.	\$	3.00	\$ 61.48	\$ 45.00	\$ 7,308.52	\$ 407.44	0.52%
1.00	Install new MCC 1200 amps	E.A.	\$	40.00	\$ 61.48	\$ 120.00	\$ 10,370.20	\$ 10,370.20	1.30%
2.00	Install new VFD 100HP	E.A.	\$	6.00	\$ 61.48	\$	\$ 4,168.69	\$ 4,091.84	1.03%
4.00	Install new VFD 75 HP	E.A.	\$	6.00	\$ 61.48	\$	\$ 10,267.35	\$ 2,591.84	1.30%
2.00	Install new VFD 50 HP	E.A.	\$	3.00	\$ 61.48	\$	\$ 4,763.66	\$ 2,391.84	0.60%
1.00	Install new VFD 125 HP	E.A.	\$	8.00	\$ 61.48	\$	\$ 4,791.84	\$ 4,791.84	0.60%
10.00	Install new VFD	E.A.	\$	3.00	\$ 61.48	\$	\$ 18,818.40	\$ 1,691.84	2.13%
20.00	Wire, copper, stranded, 600 volt, #10, type THHN	C.L.F.	\$	3.00	\$ 61.48	\$	\$ 4,588.80	\$ 229.44	0.58%
20.00	Wire, copper, stranded, 600 volt, #14, type THHN	C.L.F.	\$	3.00	\$ 61.48	\$	\$ 6,206.40	\$ 341.30	0.66%
20.00	Wire, copper, stranded, 600 volt, #12, type THHN	C.L.F.	\$	3.00	\$ 61.48	\$	\$ 18,598.80	\$ 949.44	2.19%
20.00	Wire, copper, stranded, 600 volt, #8 type THHN	C.L.F.	\$	2.00	\$ 61.48	\$	\$ 4,599.20	\$ 234.96	0.59%

20.00	Wire, copper, stranded, 600 volt, # 2/0, type THWN	C.L.F.	\$	431.00	\$	3.00	\$	61.48	\$	-	\$	12,308.80	\$	615.44	1.55%
20.00	Wire, copper, stranded, 600 volt, #1 type THWN	C.L.F.	\$	562.08	\$	2.00	\$	61.48	\$	-	\$	8,489.20	\$	424.56	1.07%
30.00	Wire, copper, stranded, 600 volt, # 3, type THWN	C.L.F.	\$	158.03	\$	2.00	\$	61.48	\$	-	\$	9,628.80	\$	320.96	1.21%
400.00	E.M.T. Conduit 2"	L.F.	\$	6.54	\$	0.25	\$	58.79	\$	-	\$	8,489.00	\$	21.24	1.07%
400.00	E.M.T. Conduit 1-1/4"	L.F.	\$	4.34	\$	0.25	\$	58.79	\$	-	\$	7,616.00	\$	18.54	0.98%
400.00	E.M.T. Conduit 1"	L.F.	\$	2.87	\$	0.25	\$	58.79	\$	-	\$	7,027.00	\$	17.57	0.88%
400.00	E.M.T. Conduit 1/2"	L.F.	\$	0.89	\$	0.25	\$	58.79	\$	-	\$	6,299.00	\$	15.69	0.78%

Sub Totals \$ 32,240.23 \$ 238.27 \$ 4,008.40 \$ 965.57 \$ 793,607.42

15% Contractor Overhead & Profit \$ 119,341.11

**\$ 914,948.53**

**TOTAL CONSTRUCTION COST BASE BID**