Addendum Cover Sheet

Project: Wilks Library Window Wall Replacement  
Bid #: 1919242  
Date: February 27, 2019

Owner: City of New Bedford  
Contractor: Bidders  
Distribution:

- Purchasing Director ☒ All Bidders
- City of New Bedford ☒ Susan Bruce, Purchasing Director
- 133 William Street, Room 208 ☒ Bob Bichel, DFFM Project Supervisor
- New Bedford, MA 02740 ☒ Mark Champagne, DFFM Director
- ☒ GLRA Files  Gorman Richardson Lewis Architects, Inc.

This Addendum forms part of the Construction Documents and modifies the original Bid Documents dated February 6, 2019. Acknowledge receipt of this Addendum in the space provided on the bid form.

Description of Work:

Additional information to Bid Documents dated February 6, 2019 regarding:
- Revised SECTION 00 21 30 INSTRUCTIONS TO BIDDERS (in response to RFI from Bidder)
- Revised Section 01 11 00 SUMMARY OF WORK (clarification regarding temporary enclosure)
- Revised SECTION 08 51 13 ALUMINUM WINDOWS (clarification of spandrel panel)
- Revised Drawings to clarify spandrel panel

NOTE TO BIDDERS:
Proposed window details shown on Drawings are based upon the window system referenced as the Basis of Design (St. Cloud).
Details for other acceptable window manufacturers as noted in the Project Manual, which may vary from those shown due to anchoring system, shall be submitted for review by Architect as part of the required submittal process.

List of Addendum Documents

<table>
<thead>
<tr>
<th>Project Manual Section Number</th>
<th>Title</th>
<th>Changes</th>
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</thead>
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<tr>
<td>00 21 30</td>
<td>INSTRUCTIONS TO BIDDERS</td>
<td>Revised reference to Vote of Corporation to match Section 00 45 21 VOTE OF CORPORATION AUTHORIZING EXECUTION OF CONTRACT</td>
</tr>
<tr>
<td>01 11 00</td>
<td>SUMMARY OF WORK</td>
<td>Revised paragraph 1.2(B) to include temporary enclosure, as required, during construction.</td>
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<tr>
<td>08 51 13</td>
<td>ALUMINUM WINDOWS</td>
<td>Clarification of spandrel panel in paragraph 2.2 (C) (6)</td>
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G | R | L | A
Gorman Richardson Lewis Architects
## Addendum # 002

**Vote of Corporation Clarification;**
**Summary of Work clarification;**
**Window Detail Clarification; Spandrel Panel Clarification**

### Sketches | Title | Changes
--- | --- | ---
Cover | Cover Sheet | Revised for Addendum 2
A7.0 | Demolition Window Wall Details | Remove existing marble panel
A7.1 | New Construction Window Wall Details | Clarification of New Spandrel Panels
A7.2 | Enlarged Details | Clarification of New Spandrel Panels

Attachment: Revised Project Manual Sections and Revised Drawings

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**ARCHITECT**

Issued By: George O'Neill  
Date: 02/27/2019

George O'Neill  
Gorman Richardson Lewis Architects
INSTRUCTIONS TO BIDDERS

PART 1 GENERAL

A. PROJECT

The City of New Bedford, Massachusetts, and Department of Facilities and Fleet Management invites sealed bids for the following project:

**WILKS LIBRARY WINDOW WALL REPLACEMENT**

The work of this contract is predominantly selective demolition and construction/installation of new indoor air-handler units and associated rooftop equipment and all associated ductwork, electrical work and accessories; a Division of Capital Asset Management (DCAMM) Certified Contractor (DCAMM Certification Category: **DOORS AND WINDOWS**) is to be considered this project’s general contractor.

The work is estimated to cost: $160,000.

General Contract Bidders and Filed Sub-Bidders:

Procedures respecting bids and the selection of contractors shall be in conformity with the General Laws of Massachusetts, Chapter 149, Sections 44A to 44H, inclusive, as amended and revised to date, which regulates the award of contracts for public buildings by competitive bidding. In the event of any discrepancy or inconsistency between the contract documents and the cited statute, the provisions of the statute shall govern.

All Bidders must submit a **Certificate of Eligibility and update statement** from DCAMM with their bids. Any bid submitted without the appropriate Certificate shall be invalid.

B. GENERAL

1. Examination of Site and Contract Documents

All potential bidders are encouraged to attend the **non-mandatory site visit** scheduled Thursday February 14th 2019 at 1:00 pm at the Wilks Library, 1191 Acushnet Avenue, New Bedford, MA to ascertain personally, by investigation and observation, the locations of the various starting points of the new work, the extent and character of the work to be performed, and to familiarize themselves with existing conditions at the site. All Contractors and Subcontractors shall verify in
the field all dimensions and measurements that are given in the specifications or indicated on the drawings and shall call to the attention of the City any errors, or discrepancies, that he/she may ascertain prior to bidding.

Failure to examine the Contract Documents, shall not in any way relieve a bidder from any obligation with respect to its bid or of any responsibility under the Contract Documents.

2. Interpretation of Contract Documents

All requests for interpretation of Contract Documents must be in writing. Oral interpretation by the Awarding Authority, its employees or others shall be not be binding or have any validity.

Any request for interpretation of the Contract Documents shall be submitted in writing, by mail or email, simultaneously, to:

Susan Bruce
City of New Bedford
Purchasing Department
133 William Street, Room 208
New Bedford, MA 02740
Susan.Bruce@newbedford-ma.gov

George O’Neill
Gorman Richardson Lewis Architects
239 South Street
Hopkinton, MA 01748
goneill@grlarchitects.com

at least five (5) days before the date for opening of general bids. If necessary, an Addendum to the Contract Documents will be issued electronically via email to all bidders of record. It is the responsibility of each bidder to verify the number of Addenda issued and to secure any needed copies from the Purchasing Department before submitting a bid.

C. PROCEDURE FOR GENERAL BIDS

1. Submission of Bids

a. The Bids shall be submitted on the Forms that are provided. The sealed envelope containing the Bid and the accompanying Bid Security (if required) shall be clearly marked on the outside as follows:

00 21 30 INSTRUCTIONS TO BIDDERS
Page 2 of 9
“General Bid” for Wilks Library Window Wall Replacement

__________________________________________________
(Name of Bidder)

__________________________________________________
(Address of Bidder)

and the envelope shall be addressed to:

City of New Bedford
Purchasing Department
133 William Street Room 208
New Bedford, Massachusetts 02740

b. ALL BIDS SHALL BE SUBMITTED IN DUPLICATE.

c. The General Base Bid shall be for the complete project as called for in the Specifications, no Alternates are to be included in the Base Bid.

d. The Bid Deposit specified in the Invitation for Bids shall be included in the envelope with the Bid Form.

e. Bids sent by mail are forwarded at the risk of the bidder and will not be accepted if received after the time for the opening of the bids.

f. The award of every such contract shall be made within thirty (30) days, Saturdays Sundays and legal holidays excluded, after such approval; No Bidder may withdraw his bid for at least thirty (30) days after the day and date set for the receipt of General Bids, Saturdays, Sundays, and legal holidays excluded.

g. If the Bidder is a Corporation a Vote of Corporate Authorization shall be submitted with the Bid in accordance with Section 00 45 21 VOTE OF CORPORATION AUTHORIZING EXECUTION OF CONTRACT.
2. **Rejection of General Bids**

   Every General Bid which is not accompanied by a Bid Deposit or which otherwise does not conform to the requirements of Chapter 149, Sections 44A to 44J inclusive of the Massachusetts General Laws, or which is on a form not completely filled in, or which is incomplete, conditional or obscure, or which contains any additional information not called for, shall be invalid, and the Awarding Authority will reject every such bid.

   Bid Forms must be completely and correctly filled in; giving all of the information that is requested. Bids must not be qualified in any manner. Such qualification may be cause for the rejection of the bid.

   The Awarding Authority reserves the right to waive any informalities in the bidding procedure; to reject any or all bids, if it is deemed to be in the best interest of the City, and further, the Contract for the work may be awarded to any other than the low bidder if the low bidder does not possess the necessary skill, ability, or integrity for faithful performance or cannot certify ability to furnish labor that works in harmony with all other elements of labor.

3. **Return of Bid Deposits**

   All Certified Checks, Certificates of Deposit or Bid Deposits of General Bidders, except those of the three (3) lowest responsible and eligible General Bidders, will be returned within five (5) days, Saturdays, Sundays, and legal holidays excluded, after the opening of the General Bids. Bid Bonds will be retained by the Awarding Authority unless accompanied by a self-addressed stamped envelope. The Bid Deposit of the three (3) lowest responsible and eligible General Bidders will be returned upon the execution and delivery of the general contract, or if no award is made, upon the expiration of the thirty (30) day time limit, Saturdays, Sundays and legal holidays excluded.

   If any General Bidder fails to execute a Contract and to furnish a Performance and also a Labor and Materials Payment Bond, his Bid Deposit shall become the property of the Awarding Authority as Liquidated Damages; provided that the amount of the Bid Deposit shall not, in any event, exceed the difference between his price and the bid price of the next lowest responsible and eligible Bidder. The General Bid Deposit will be returned in case of death, disability, bona fide clerical or mechanical error of a substantial nature, or other unforeseen circumstances affecting the General Bidder.

4. **Bid Bonds**

   Every General Bidder whose deposit is not returned pursuant to the provisions of the preceding section may file with the Awarding Authority at any time after five (5) days, Saturdays, Sundays, and legal holidays excluded, from the opening of the General Bids, a Bond in an amount not less than the amount of his Bid Deposit and in a form satisfactory to the Awarding Authority, with a surety company qualified to do business in the Commonwealth of Massachusetts. Upon the filing of a Bond, the Bid Deposit of the General Bidder filing such a Bond will be returned to him.


D. EVALUATION OF BIDS AND AWARD OF CONTRACT

1. Selection of Contractor

The Contract for this project will be awarded to the lowest, responsible and eligible Bidder. The words "lowest responsible and eligible Bidder" shall mean the Bidder whose bid is the lowest of those Bidders possessing the skill, ability and integrity necessary to the faithful performance of the work and who shall certify that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work. Essential information in regard to such qualifications shall be submitted; such as, Contractor's Qualification Statement submitted in such forms as the Awarding Authority may require.

If, after the selection of the lowest responsible and eligible General Bidder, it is decided to consider Sub-bidders other than the ones named by such General Bidders in his general bid, the awarding authority and such general bidder shall jointly consider all filed sub-bids not previously rejected. Any agreement to substitute a sub-bid for the one named in the selected General Bid shall result in an adjustment of the General Bid price by the difference between the amount of the Sub-Bid originally named and the amount of the Sub-Bid substituted therefore. If by such substitution the adjusted general bid price of the general bidder first selected becomes greater than the original general bid price of the second lowest responsible and eligible general bidder, then the latter shall be selected and his sub-bidders similarly considered.

If, by substitutions as hereinbefore provided, the total adjusted general bid price of the second selected general bidder becomes greater than the total adjusted general bid price of the first selected or greater than the original bid price of third lowest responsible and eligible general bidder, then the bidder having the lower of these two general bid prices shall be selected; provided, that if the third lowest responsible and eligible general bidder is selected, his sub-bidders shall be similarly considered. The general bidder finally selected, by the aforementioned process of substitutions shall be the General Bidder to whom the contract shall be awarded.

All Sub-Bidders when finally selected shall be notified in writing of their selection within forty-eight (48) hours thereafter by the General Bidder. The Form of Subcontract to be used shall be that stipulated in M.G.L. Chapter 149 Section 44F, a copy of which is included in these Specifications.

If a selected Sub-Bidder fails, within five (5) days, Saturdays, Sundays, and legal holidays excluded after presentation of a Sub-contract by the General Bidder selected as the General Contractor, to perform his agreement to execute a Subcontract with such General Bidder, in the form provided in the contract, contingent upon the execution of the general contract, and, if requested to do so by such General Bidder in the general bid to furnish a Performance and Payment Bond as stated in his Sub-bid, such General Bidder and the Awarding Authority shall select, from the other Sub-bids duly filed with the Awarding Authority for such Sub-trade, and not rejected under section forty-four H, the
lowest responsible and eligible Sub-bidder at the amount named in his Sub-bid so filed against whose standing and ability the General Contractor makes no objection, and the contract price shall be adjusted by the difference, between the amount of such Sub-bid and the amount of the Sub-bid of the delinquent sub-bidder.

2. **Insurance and Indemnification**

This agreement becomes part of the contract for which the Contractor is performing services to **City of New Bedford**.

A. Contractor shall maintain workers compensation, general liability, automobile, professional liability and umbrella insurance for the minimum amount required by the contract that this contractor applies to or as outlined below, whichever limits and coverages are higher. Insurance coverages and certificates shall be provided and include **the City of New Bedford** as an additional insured, on a primary and non-contributory basis, on all liability policies.

B. Minimum required insurance limits (coverage on an occurrence basis):

**Commercial General Liability**
- $2,000,000 Products/Completed Operations Aggregate
- $2,000,000 General Aggregate
- $1,000,000 Any One Occurrence (coverage A)
- $1,000,000 Any One Person or Organization (Coverage B)

**Automobile Liability (Comprehensive Coverage)**
- $1,000,000 Each Accident

**Commercial Excess Liability ("Umbrella")**
- $1,000,000 Products/Completed Operations Aggregate
- $1,000,000 General Aggregate
- $1,000,000 Any One Occurrence (coverage A)
- $1,000,000 Any One Person or Organization (Coverage B)

**Employers Liability (Coverage “B” on the Workers Compensation Policy)**
- $ 500,000 Each Accident
- $ 500,000 Each Employee for Injury by Disease
- $ 500,000 Aggregate for Injury by Disease
C. Any Contractor who does not carry worker’s compensation insurance coverage to protect himself personally from work-related injuries hereby fully releases, holds harmless, and indemnifies the City of New Bedford from any injuries that may occur to the Contractor himself during the course of this contract. In no way does this provision affect the absolute duty of every contractor to provide workers’ compensation insurance coverage to each and every one of his employees and himself according to the provisions of this Agreement and all applicable state and federal laws.

D. All Insurance Certificates must contain a clause indicating that certificate holders be given a minimum of 30 days written notice prior to the cancellation of contractors insurance. Contractor must furnish the certificate referred to above as an express condition precedent to the Contractor’s duty to make any progress payments to contractor pursuant to this Agreement.

E. To the fullest extent permitted by law, the contractor hereby acknowledges and agrees that it shall indemnify, hold harmless and defend the City of New Bedford, the Owner, and any of the officers, directors, employees, agents, affiliates, subsidiaries and partners from and against all claims, damages, losses and expenses, including but not limited to, attorney’s fees, arising out of or resulting from the performance of the Contractor’s Work under this contract, provided that any such claim, damage, loss or expense (1) is attributable to bodily injury, sickness, disease, or death or injury to or destruction of tangible property (other than to the Work itself) including loss of use resulting there from, and (2) is caused in whole or in part by any acts or omissions of the contractor, its employees, agents or anyone directly or indirectly employed by any of them or anyone whose acts any of them may be liable.

F. The contractor hereby acknowledges its obligation under the forgoing paragraph to indemnify the City of New Bedford against judgments suffered because of the contractor’s work and to assume the cost of defending the City of New Bedford against claims as described in the forgoing paragraph.

3. The Successful Bidder Shall Furnish the Following Bonds

A Contractor’s Performance Bond and a Labor and Materials Payment Bond for the full amount of the Contract Price. The cost of these Bonds is to be included in the Bid Price.
4. **Corporate or Other Authorization**

If the selected General Bidder is a corporation, the "Vote of Corporation Authorizing Execution of Contract" included in these Specifications shall be executed and submitted to the Awarding Authority by the selected General Bidder. Appropriate authorization for other types of legal entities will be determined by the Awarding Authority.

5. **Award of Contract**

The award of the Contract for this project will be made within thirty (30) days, Saturdays, Sundays, and legal holidays excluded, after the opening of the Bids. The award of every such contract in connection with which approval by an officer, board or agency of the Federal or State government is required shall be made within thirty days, Saturdays, Sundays, and legal holidays excluded, after such approval. (See M.G.L. Chapter 149, § 44A).

If the Bidder selected fails to perform his agreement to execute a contract in accordance with the terms of his Bid and furnish a Performance Bond also a Labor and Materials or Payment Bond as stated in the Bid, an award will be made to the next lowest responsible and eligible Bidder. The thirty-day time limit shall not be applicable to a second or subsequent award made after the expiration of the time limit with the consent of said next lowest responsible and eligible Bidder and his Sub-bidders, and made because the original award made within the time limit was invalid, or because the Bidder failed to execute the Contract or to provide a Performance Bond and a Labor and Materials or Payment Bond.

6. **Liquidated Damages**

The OWNER and CONTRACTOR realize that time is of the essence of this Agreement and that Owner will suffer financial loss if the Work (or individual phase of Work) is not completed within the time specified in the contract documents. They also recognize the delays, expenses and difficulties involved in proving the actual loss suffered by Owner if Work is not completed on time. Accordingly, instead of requiring any such proof, the Owner and Contractor agree that as liquidated damages for delay (but not as a penalty), CONTRACTOR shall pay Owner the amount of One Thousand Dollars ($1000.00) for each calendar day that expires after the time specified until the Work is Substantially Completed.

E. **SPECIAL REQUIREMENTS**

Bids shall be made on the basis of the Minimum Wage Schedule as determined by the Massachusetts Department of Labor (as published by the Division of Occupational Safety) and the U.S. Department of Labor. Attention is directed to the minimum wage rates to be paid on the work as determined by the Massachusetts Commissioner of Labor and Industries under the provisions of M.G.L. Chapter 149, Sections 26 and 27D, inclusive. The successful general contractor and all filed sub-bidders will be required to submit a certified payroll on a weekly basis for review by Contract Compliance Officer. Attention is further called to Labor Standards
provisions regarding conditions of employment, including State Wage Rates, the Copeland Anti-Kickback Act, and the Contract Work Hours and Safety Standards Act. The schedule of such rates is to be made a part of this contract, and is hereinafter attached.

The General Contractor shall keep on this work, as long as required during its progress, a competent surveyor or engineer, and any necessary assistants, all satisfactory to the Owner. It shall be the primary duty of such contractor's employees, to accurately establish, layout, and maintain all building lines, grid, lines, column lines, elevations, grades, etc. as required for construction of the project. At the completion of the work, the General Contractor shall remove all surplus material, debris, rubbish, etc., from the site, and shall leave the owner's property in a neat, clean orderly condition.

General Contractor shall guarantee all labor and materials furnished and installed under this Contract, for a period of one (1) year from the date of final acceptance, and shall make all replacements or repairs to any defective materials or workmanship without any additional cost to the owner.

General Contractor shall also provide at its expense a standard manufacturer's 30-year labor and materials warranty for the roof replacement at the City of New Bedford City Hall. The roof and roofing materials shall comply in all respects with the specifications set forth herein.

Any general contractor which is a foreign corporation as defined in Mass General Laws Chapter 156d Section 15.01 shall certify to the Awarding Authority, prior to the award of any contract, that he has complied with the provisions for foreign corporations under Sections 3 and 5 of Chapter 156d of the Massachusetts General Laws, and the dates of such compliance.

All work performed under this contract must comply with the current requirements of the Occupational Safety and Health Act of 1970 as administered by the U.S. Department of Labor, OSHA Administration, Washington, DC 20210. The Owner will provide the General Contractor for this project with an Exempt Purchase Certificate and Number issued pursuant to Chapter 14, Acts of 1966, Section 1, Subsection 6 (E) and (F) which will exempt the project cost from the Massachusetts Excise Tax.

Bidders are instructed not to include the sales tax in the Bid Price.

PART 2 - PRODUCTS
Not Used.

PART 3 - EXECUTION
Not Used.

END OF DOCUMENT
PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. The BIDDING REQUIREMENTS, CONTRACTING REQUIREMENTS, and applicable parts of DIVISION 1 - GENERAL REQUIREMENTS, as listed in the Table of Contents, shall be included in and made a part of this Section.

1.2 PROJECT IDENTIFICATION AND DESCRIPTION OF WORK

A. Project Identification: The name of the Project on the Contract Documents is WILKS LIBRARY WINDOW WALL REPLACEMENT
   City of New Bedford
   New Bedford, Massachusetts 02740

B. Work of this Contract shall include, but is not limited to:

1. Replacement of existing south-facing and east-facing window walls with new aluminum-framed energy efficient window wall systems and extending into other areas of the building as required by code and the configuration of these systems;

2. Temporary wall assembly, as required, to provide a secure, insulated and weather-tight enclosure between demolition of existing window wall system and installation of new window wall system.

C. Hazardous Materials Remediation:
   1. Remediation and abatement of hazardous materials in accordance with other sections of this PROJECT MANUAL are included in the work of this project.

D. The Contractor will have partial use of interior of building for the proposed improvements.

E. All work shall be in accordance with the Bidding and Contract Documents prepared by Architect, GORMAN RICHARDSON LEWIS ARCHITECTS, INC., 239 South Street, Hopkinton, Massachusetts 01748, and their consultants.

F. Contract Drawings: Refer to Project Manual Document 00 01 15, LIST OF DRAWINGS.

G. Existing Conditions: Refer to Project Manual Document 00 20 30 EXISTING CONDITIONS.

1.4 CONSTRUCTION PERIOD / LIQUIDATED DAMAGES
A. Time is of the Essence. Construction shall be executed in a timely and orderly manner as follows:
   1. Award of Contract: on or about March 27, 2019
   2. Commencement of Work: on or about April 3, 2019.
   3. Substantial Completion Date: The undersigned agrees to substantially complete the Contract Work, including Certificate of Occupancy, 154 calendar days from date of Notice-To-Proceed.
   3. Final Completion Date: The undersigned agrees to a final completion of the Base Bid Contract Work thirty calendar days from Date of Substantial Completion.

B. Refer to Document 00 40 10, FORM FOR GENERAL BID for Liquidated Damages for work not completed by the stipulated completion date.

1.5 CONSIDERATIONS OF THE CONTRACT

A. Unless otherwise indicated, the Conditions of the Contract shall include the following:
   1. GENERAL CONDITIONS: Document 00 72 00 GENERAL CONDITIONS OF THE CONTRACT.
   2. CORI Requirements: All workers employed on the project by the General Contractor and all subcontractors shall be trained personnel who are directly employed and supervised by the Contractor and subcontractors and who have been cleared by a CITY of NEW BEDFORD CORI investigation, or other security credentials as may be required by the Owner.

1.6 WORK UNDER OTHER CONTRACTS

A. It is not anticipated that the work of this contract will require coordination with other construction contractors to execute the work defined by the Project Documents.

1.7 PERMIT AND INSPECTION FEES

A. Building permit shall be obtained by the General Contractor; fee for building permit will not be waived by the CITY of NEW BEDFORD.

B. All other permits including electrical, plumbing, and gas permits and inspection fees shall be paid for by the Contractor.

1.8 CONTRACTOR’S USE OF PREMISES

A. Contractor shall limit use of the premises for Work and for storage, to allow for:
   1. Work by other contractors not associated with this project.
   2. Owner occupancy of the building
   3. Public use of building grounds.

B. Coordinate use of premises under direction of Owner.
1. Assume full responsibility for the protection and safekeeping of Products under this Contract, stored on the site.
2. Move any stored Products, under Contractor’s control, which interfere with operations of the Owner or separate contractor.
3. Obtain and pay for the use of additional storage or work areas needed for operations.
4. Move any stored Products, under Contractor’s control, which interfere with operations of the Owner or separate contractor.

C. Prior to beginning work of the Contract, the General Contractor shall meet with the Owner and the Architect to determine procedures regarding access to and use of site, exterior staging, parking and storage areas, tree protection, special site conditions and safety issues, and any other restrictions regarding the use of the site areas surrounding the construction.

D. The General Contractor shall keep all public and private access roads, and walks clear of debris caused by this work during the entire term of the Contract. The General Contractor shall repair all public and private streets, drives, curbs, walks, and other improvements where disturbed by work of, or related to, building operations, leaving them in as good condition after completion of the work as before operations started, in accordance with rules, regulations, and specifications of the public agencies having jurisdiction.

E. Parking for workmen’s personal vehicles shall be permitted only within designated areas.

F. Access roads and fire-lanes on and about the site shall be kept open and free at all times, including public roads and access to adjacent homes and businesses.

1.9 REMOVAL/REINSTALLATION OF EXISTING FIXTURES FURNITURE AND EQUIPMENT

A. Removal of existing loose Fixtures, Furniture, and Equipment (FF&E) from the project area except for ductwork and ductwork enclosures (02 41 13 SELECTIVE DEMOLITION), prior to commencement of the Work in areas to be agreed on by Owner and Contractor including temporary storage and re-installation will be performed by CITY of NEW BEDFORD personnel.

1.10 OWNER’S OCCUPANCY

A. The Owner will continue to occupy and use the building(s) during the execution of the work.

B. Owner Occupancy: The Owner reserves the right to place and install equipment in completed areas of the work prior to Substantial Completion, provided that such occupancy does not interfere with completion of the Work.
1. Execute Certificate of Substantial Completion for each specific Portion of the Work prior to Owner occupancy. After Owner occupancy Contractor shall allow free and clear access to all partially occupied areas.

1.11 EXAMINATION OF SITE AND PREBID CONFERENCE AND WALKTHROUGH

A. Prior to bidding the General Contractor and each of the Filed Subcontractors and other Subcontractors shall carefully examine the site and the Contract Documents to ensure their knowledge of conditions and requirements affecting the work. No claim for extra compensation or extension of time will be allowed for General Contractor's, Filed Subcontractor's or other Subcontractors failure to comply with this requirement nor will any condition at the site, whether or not in agreement with conditions shown or called for on the Contract Documents, be allowed as a basis or such claims, except as otherwise specifically provided for.

B. Refer to Document 00 11 00, INVITATION AND ADVERTISEMENT for pre-bid conference and scheduled site visits.

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

Not Used.

END OF SECTION
PART 1 - GENERAL

1.1 SUMMARY

A. Provide all labor, material and equipment necessary to furnish and install aluminum windows as shown on drawings and specifications herein. Window shapes and accessories as specified and detailed shall establish the type of units and materials to be used to provide the functional performance and aesthetic requirements desired. Details indicate the required depth and profile.

1.2 RELATED REQUIREMENTS

A. Section 07 60 00 - FLASHING AND SHEET METAL
B. Section 07 90 00 – JOINT SEALERS

1.3 REFERENCE STANDARDS

B. AAMA 502 "Voluntary Specification for Field Testing of Newly Installed Fenestration Products"
C. AAMA 611 "Voluntary Specification for Anodized Architectural Aluminum"
D. AAMA 701/702 "Voluntary Specification for Pile Weatherstripping and Replaceable Fenestration Weatherseals"
E. AAMA 1503 “Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections”
J. ASTM E 283 "Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen"

L. ASTM E413 “Classification for Rating Sound Insulation”

M. ASTM E 547 "Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Differential"


O. ASTM E1332 “Standard Classification for Determination of Outdoor-Indoor Transmission Class”


Q. ASTM E1886 “Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials”


S. ASTM E 2190 "Standard Specification for Insulating Glass Unit Performance and Evaluation"


U. NFRC 100 “Procedure for Determining Fenestration Product U-Factors”

V. NFRC 200 “Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence”

W. NFRC 500 “Procedure for Determining Fenestration Product Condensation Resistance Values”

1.4 PERFORMANCE REQUIREMENTS

A. Performance Requirements: PW AW PG100

B. Uniform Load Structural Test

   a. Window shall be tested in accordance with ASTM-E-330. At a static air pressure difference of 100.0 (150.0) pounds per square foot with pressure applied both positively and negatively.

   b. Static air pressure difference shall be 1.5 times the design pressure used in 1.03 A. (1.5 is the factor used to provide a margin of safety in aluminum windows and is the minimum recommended by the AAMA).
c. At conclusion of test, there shall be no glass breakage; permanent damage to fasteners, hardware parts, support arms, or actuating mechanisms. Nor any other damage which would cause the window to be inoperable. Permanent deformation of any frame or sash member shall not exceed 0.04% of its span.

C. Air Infiltration

1. Window shall be tested in accordance with ASTM-E283 and shall meet the following performance requirements.
   a. Air infiltration on windows with less than 18 feet of operable sash crack perimeter shall not exceed 2.8 cfm per square foot of window area when tested in a static pressure drop of 1.57 psf (equivalent to 25 mph wind velocity) or 6.3 cfm total when tested at 6.24 psf (equivalent to 50-mph wind velocity).
   b. Air infiltration on windows with 18 or more feet of operable sash crack perimeter shall not exceed .05 cfm per square foot of window area at a static pressure drop of 1.57 psf or .15 cfm at 6.24 psf.

2. Water Resistance
   1. All tests shall be conducted in accordance with ASTM E 331. No water shall pass the innermost plane of the window when tested at a static air pressure difference of 12.0 psf.

3. Thermal Performance

   1. When tested in accordance with AAMA-1503 or according to NFRC-100 the thermal transmittance due to conduction (Uc) shall not exceed 0.32 on the entire specimen.
   2. When tested in accordance with AAMA-1503 or according to NFRC-500 the Condensation Resistance Factor (CRF) shall not be less than 66 on the entire specimen.

4. Forced Entry Resistance

   1. When tested in accordance with ASTM F 588, window shall perform to a minimum Performance Level 10.

5. Sound Transmission

   1. Sound Transmission Class (STC). When tested in accordance with ASTM E1425, window shall perform to a minimum STC 41. Testing shall be performed in a NVLAP Certified Test Laboratory.
   2. Outdoor Indoor Transmission Class (OITC). When tested in accordance with ASTM E1332, window shall perform to a minimum of OITC 33. Testing shall be performed in a NVLAP Certified Test Laboratory.
1.5 QUALITY ASSURANCE

A. All testing shall be performed by an independent architectural testing laboratory accredited by the American Architectural Manufactures Association (AAMA), the National Voluntary Laboratory Accreditation Program (NVLAP) and the International Conference of Building Officials (ICBO) and such other accreditation as may be required by state of local building regulations.

B. The manufacturer shall provide the architect and owner a notarized affidavit of compliance certifying that the doors furnished for this project are identical in every aspect of design, component parts (including sealants and the application thereof, reinforcing members, etc.) and fabrication techniques as the doors tested in the laboratory for which test reports have been furnished.

C. Window Contractor shall have a minimum of 5 years experience with installation of window wall and curtain wall systems and shall provide evidence of this experience on projects of similar scope.

1.6 SUBMITTALS

A. Window manufacturer shall supply test reports from an AAMA- and NVLAP- accredited laboratory certifying compliance with performance specifications for each type of window supplied for this project.

B. Window manufacturer shall supply product data for each type of window required, including:

1. Construction details and fabrication methods.

2. Data on hardware and accessories.

3. Recommendations for maintenance and cleaning of exterior surfaces.

C. Before proceeding with the manufacture of windows, the window contractor shall submit complete shop drawings with installation details for the Architect’s approval. These drawings shall also show window elevations, details of all window sections, collateral materials, details of anchorage, associated hardware.

D. Window manufacturer shall submit three [3] samples of finish.

E. Window manufacturer shall submit a copy of the product warranty to be applied to this project.

1.7 WARRANTY

A. The manufacturer shall warrant the product against material defects or defects in manufacturing. If a defect is discovered and brought to the attention of the Manufacturer, the defect will be corrected at no cost to the owner. Warranty shall not be pro-rated. Warranties requiring the owner to return windows to the factory for repair or replacement shall not be accepted.

1. Windows: warrant for Ten [10] years against defects in material or workmanship under normal use.
2. Insulating glass units: warrant seal for Ten [10] years against visual obstruction from film formation or moisture collection between internal glass surfaces, excluding that caused by glass breakage or abuse.

3. Finish:

Organic finish conforming to AAMA 2605-05: warrant for Ten [10] years against chipping, peeling, cracking, chalking, or fading.

PART 2 – PRODUCTS

2.1 MANUFACTURER

A. Basis of Design:

1. St. Cloud Window, Inc., 390 Industrial Blvd, Sauk Rapids, MN 56379,
   a. SCW3000 – Fixed Lite

B. Additional Acceptable Manufacturers:

2. Winco Window Company, 6200 Maple Avenue St. Louis, MO 63130
   Phone: 800-525-8089, Fax: 314-725-1419, www.wincowindow.com

3. Wausau Windows, 7800 International Drive Wausau, WI 54401
   Phone: 877-678-2983, Fax: 715.843.4055, www.wausauwindow.com

C. Terminology used herein may include reference to that manufacturer’s proprietary products. Such references shall be construed only for the purpose of establishing the quality of materials and workmanship to be applied under this section, and shall not be construed as limiting competition.

D. Requests for substitutions of products or manufacturers other than the Base Bid must be submitted to the Architect Ten [10] business days prior to the bid date. Requests for substitutions must demonstrate that the product seeking approval meets or exceeds the design and performance specifications of the Base Bid. Products not pre-approved by the Architect in writing via addendum will not be accepted. Substitutions must comply with the requirements of section 01 60 00 – MATERIAL AND EQUIPMENT.
2.2 MATERIALS

A. Aluminum Extrusions


2. All primary sash and frame structural members shall have a minimum wall thickness of 0.10”, unspecified wall thicknesses shall be .08”

B. Thermal Barrier

1. Provide continuous extruded high performance nylon 6/6 polyamide with multi-directional 25% glass fiber reinforcing as manufactured by Technoform or equal. All polyamide material must be from a minimum of 90% virgin components, with a maximum 10% pre-consumer regrind. Aluminum components shall be mechanically crimped into cross knurled cavities and obtain a minimum composite shear value of 800 pounds for a 4” section. Rolled in PVC, single directional glass fiber reinforced polyamide and pour and de-bridge Urethane thermal break systems will not be acceptable.

C. Glazing

1. Acceptable Glass Manufacturers:
   a. Cardinal
   b. Guardian
   c. Vitro

2. All windows to be fully factory glazed with 1” thick overall insulated glass.

3. All glass shall be glazed with removable stops and shall be replaceable without dismantling the sash or frame members.

4. A continuous polyshim tape will be used on the exterior glazing leg and a continuous silicone cap bead over the polyshim bonding to the glass edge to prevent moisture from intruding into the window system. A continuous rubberized vinyl compression bulb to be used on the interior glazing stops.

5. Nominal vision panel glass thickness and type shall be:

   a. Exterior glass lite
      i. Thickness: 1/4”
      ii. Tint: clear
      iii. Type: laminated
      iv. Coating:
         a. South-facing: equal to Cardinal 366 LowE;
         b. East-facing: equal to Cardinal 272 LowE
b. Air Space
   i. 1/2” 90% Argon Filled

c. Interior Glass Lite
   i. Thickness: 1/4"
     ii. Tint: clear
     iii. Type: laminated
     iv. Coating: none

6. Exterior spandrel panel:
   a. Exterior glass lite
      v. Thickness: 1/4"
      vi. Tint: clear
      vii. Type: laminated
      viii. Coating: none
   b. Air Space
      i. 1/2” 90% Argon Filled
   c. Interior Glass Lite
      i. Thickness: 1/4"
     ii. Tint: clear
     iii. Type: tempered
     iv. Coating:
        a. South-facing: equal to Cardinal 366 LowE;
        b. East-facing: equal to Cardinal 272 LowE
     v. Thickness: 1”
     vi. Opacifier: ceramic frit type coating on surface #4 equal to Guardian DECO-HT
        a. Color: white
D. Strap Anchors:

1. A continuous aluminum slip-on F-channel mounting clip will be used on the interior side of window frame perimeter to anchor window frames in place. A fastener will be anchored through mounting clip into the wall section 6” from each frame edge and at 16” on center or a determined spacing as set forth by engineered load calculations. After fasteners are in place, a trim cover plate will be snapped over the mounting clip to conceal all fasteners.

2.03 FABRICATION

A. All joints of the frame shall be butt type and secured by means of thread-cutting stainless steel screws anchored into screw ports which shall be an integral part of the frame members. The vent frame shall use miter-type joinery and be secured together with the use of aluminum corner keys and crimped. All corner joints shall be joined neatly and all sharp edges shall be de-burred and filed smooth. Joints to be sealed for weather tightness with the use of small joint sealer material.

2.04 FINISH

1. Interior:

Anodized Finish: Class I (etched and anodized to 0.7 mil), conforming to AAMA 611-98

Color to be: Champagne

2. Exterior:

Polyvinylelidene Fluoride PVDF Organic Coatings: Finish shall be 70% fluoropolymer (PVDF) organic coating in a color selected by Architect. Applied coatings shall meet or exceed AAMA 2605-05, including 10 years Florida exposure and 4000 hours humidity tests.

Color to be: Match existing exterior trim color

2.05 Erection

A. INSTALLATION

1. All window and related window components shall be installed in accordance with requirements of the owner and the approved shop drawings of the Manufacturer. Installation shall be by a contractor who is experienced and who shall document at least one other projects of similar nature and scope for which the window products were successfully installed.

2. All materials shall be erected plumb, level and true, relative to the building structure. The maximum variation from plumb and level shall not exceed 1/8” (plus or minus) over ten feet.

3. Approved insulation materials shall be installed in the frame cavity on the interior portion of the window frame. Area adjacent to the exterior of the window frame shall remain uninsulated. The window installer shall use caution in the insulation operation to avoid overlapping insulation materials across the thermal-barrier connector thus bridging the two separate frame members.
B. CAULKING

1. A grade “A” type neutral cure silicone caulking: Pecora, Tremco, Vulkem, or equal as approved by the Architect, shall be applied per the installation drawings and details at all points where the aluminum master frame and/or panning intersects the masonry or other exterior wall finish. The caulking material shall be applied in a manner which insures a continuous air- and water-tight perimeter seal. Color to match the color of the aluminum windows unless specified otherwise by the Architect.

C. TESTING

1. Laboratory Testing
   a. At the discretion of the owner, one or a number of window units shall be selected prior to installation. The selected stock shall be tested by a certified testing laboratory to verify that glass, glazing, hardware and finish are in conformance to the project specification. Should any component of the test specimen fail to conform to project specification, action shall be taken by the window manufacture to correct each deficiency for every window on the project at no additional cost to the owner.
   b. The owner shall assume the cost of the initial verification testing. However, should product be found to be non-compliant, the manufacture shall reimburse the owner for the cost of the initial test. At the architect’s discretion, subsequent testing may be required and the cost of this test shall be borne by the manufacture.

2. Field Testing
   a. On-site testing shall be conducted at owner’s discretion and expense. Up to three test specimens shall be selected by owner or architect.
   b. On-site testing shall be conducted for air infiltration and water leakage as specified in section 1.04 – A and b, by an AAMA-certified architectural testing laboratory in accordance with AAMA 502, Method B.
   c. On-site testing shall be conducted for sound transmission as specified in section 1.04 – F and G, by NAVLAP-certified acoustic testing laboratory in accordance with ASTM E966 and including flanking test. Using ASTM E413 and ASTM E1332, respectively, specimens tested in the field shall be within five (5) points of the laboratory STC test results and three (3) points of the laboratory OITC test results furnished with product qualification.
   d. If a test specimen shall fail any aspect of the field test, it shall be repaired or replaced and re-tested. At the architect’s direction, up to three (3) additional windows may be tested. Upon completion of re-testing, all window units shall be repaired or replaced in the same manner as the test specimen (s) to assure compliance with project performance specification.
   e. The cost of re-testing and all subsequent repairs and other associated expenses shall be borne by the window manufacture and/or window installation contractor.
D. ADJUSTMENTS, PROTECTION, AND CLEANING

1. After installation, the erector shall remove all sealants, caulking and other misplaced materials from all surfaces, including adjacent work. The window frame, sash and glass shall be cleaned thoroughly with materials and methods recommended by the window and glass manufacturers and shall not cause any defacement of the work.

2. Installer shall make any and all adjustments to window sash and hardware to cause the operating sash to function properly and in accordance with the manufacturer’s standards.

3. Protection of glass and window materials: Protect from contact with contaminating substances resulting from construction operations. After installation and cleaning of windows by window contractor, the general contractor shall be responsible for maintaining the cleanliness and protection of the window from damage from other trades.

4. Remove all sealant, caulking and other misplaced materials from all surfaces, including adjacent work. The window frames, casing, and glass shall be thoroughly cleaned with materials and methods recommended by the window and glass manufacturer and shall not cause any defacement of the work.

5. The general contractor shall be responsible for the protection of the work from damage by other trades.

END OF SECTION
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WINDOW WALL REPLACEMENT

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ADDENDUM 02
FEBRUARY 27, 2019
EXISTING DUCT TO BE REMOVED AND STORED FOR RENOVATION AND THEN RE-INSTALLED AT WHEN REQ'D.

REMOVE WOOD JAMB AT PERIMETER OF WINDOW

REMOVE WINDOW ASSEMBLY

REMOVE WINDOW FRAME ASSEMBLY AND ANY ASSOCIATED CAULK OR BOCKING

EXISTING FOUNDATION WALL AND SILL POCKET TO REMAIN

EXISTING FLOOR ASSEMBLY

REMOVE DUCT ENCLOSURE ASSEMBLY

REMOVE INSULATION

REMOVE WOOD SILL AND BLOCKING

SIDE OF BOOKCASE BEYOND PROTECT AS NECESSARY DURING CONSTRUCTION

REMOVE PORTION OF SOFFIT NEEDED TO REPLACE WINDOW

REMOVE WOOD BLOCKING

REMOVE PORTION OF GWB CEILING NEEDED TO REPLACE WINDOW

DATA

File Name: A7.0.dwg

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ADDENDUM 02

02/27/2019

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AS NOTED

JNW

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DEMOLITION WINDOW WALL DETAILS

DESTRUCTION SECTION DETAIL AT WINDOW HEADING ASSEMBLY

DESTRUCTION SECTION DETAIL AT WINDOW SILL HEATING CONVECTOR

DESTRUCTION SECTION DETAIL AT WINDOW COLL. ENCLOSURE

DESTRUCTION SECTION DETAIL AT WINDOW COL. ENCLOSURE