

**ADDENDUM NO. 3**

John A. Tuten & Associates, Architects  
4680 Hwy 17 North  
Brunswick, GA 31525

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**GENERAL ITEMS**

1. Exterior piping is shown on both Sheet P1.01 and Civil Drawings. Plumbing contractor should install all acid waste piping and acid dilution tank. Piping from acid dilution tank to sanitary by General Contractor. Plumbing contractor should install elevator sump pump, sump pump piping and oil waste separator. Piping from oil water separator to storm sewer by General Contractor. Plumbing contractor should stub out sanitary sewer, domestic water 5' outside of building. Continuation of these services by General Contractor. Fire protection contractor should stub fire line out of building 5'. Continuation of fire water piping and devices by General Contractor.
2. Seismic risk category is III; importance factor I=1.25.
3. In the penthouse all mechanical and electrical foundations and curbs are to be removed and the floor patched and leveled to existing floor elevation.
4. On C1.2 Note #2 applies to all areas disturbed within limits of construction.
5. Testing described in Section 221000, Part A, 1.02, items 4 & 5 will be paid for by the contractor.
6. To clarify Pre-Bid conversations about the Owner furnishing Power and Water. Existing electrical can be used for temporary power and paid for by the Owner to the point the new electrical service is energized. When new service is energized the meter will be in the contractor's name until the building is certified as Substantially Complete. Existing water service can be used by the contractor and paid for by the Owner.
7. Painted exterior concrete will require cleaning and painting.
8. At Door 103B new concrete sidewalk should be provided from building to the existing sidewalk. There will be a new aluminum walk way canopy at this location. This canopy is not part of the walkway canopies discussed in Addenda #1, General Item #10. This is a new canopy which will match existing.
9. Revise Item 7. from Addendum No. 1 to read:  
"Existing terrazzo listed as a floor finish in the completed work is to be protected, polished and sealed. Existing terrazzo in toilets and other areas to receive new ceramic tile finishes must be removed down to structural concrete slab. Existing terrazzo to receive VCT or LVT will remain in place. Existing vinyl and carpet floor finishes will be a part of the asbestos abatement contract."

10. Add Flextray FT4X12X10 by Cooper B-Line as an acceptable cable tray pending compliance with the contract documents.
11. Attached at the end of the addendum are 3 drawings named HVAC Roof Supports. This file details above roof rail mounts for the smaller split system HVAC units. Included in this file are details the roofing contractor should follow for flashing the support columns on the support racks.

## **PROJECT MANUAL**

### **1. TABLE OF CONTENTS**

- A. Discard issued “Table of Contents – Volume 1” and replace with attached “Table of contents – Volume 1” dated 2/18/19.
- B. Discard issued “Table of Contents – Volume 2” and replace with attached “Table of contents – Volume 2” dated 2/18/19.

### **2. PROPOSAL FORM**

- A. Discard issued “Proposal Form” and replace with attached “Proposal Form” dated 2/18/19.
- B. Required supplemental proposal form attachments to be submitted on/or before 4:00 PM on March 4, 2019.

### **3. INDEX OF DRAWINGS**

- A. Discard issued “Index of Drawings” and replace with attached “Index of Drawings dated 2/18/19.

### **4. SECTION 012100 – ALLOWANCES**

- A. Delete Allowance #2 – Door Hardware.
- B. Add Allowance #5 – “Allow the sum of Sixteen Thousand Dollars (**\$16,000.00**) for refinishing terrazzo floors listed as the finish surface on the finish schedule.”

### **5. SECTION 012300 – ALTERNATES**

- A. Add new “Section 012300” dated 2/18/19 to the Project Manual.

### **6. SECTION 085113 – ALUMINUM WINDOWS – ALTERNATE NO. 2**

- A. Add new “Section 085113” dated 2/18/19 to the Project Manual.

7. **SECTION 096510 – RESILIENT FLOOR TILE**

- A. Discard issued “Section 096510” and replace with new “Section 096510” dated 2/18/19.
- B. Added Part 2.4 – Luxury Vinyl Tile (LVT).

8. **SECTION 096513 – RESILIENT BASE AND ACCESSORIES**

- A. Discard issued “Section 096513” and replace with new “Section 096513” dated 2/18/19.

9. **SECTION 099000 – INTERIOR, EXTERIOR AND INDUSTRIAL PAINTS AND COATINGS**

- A. At Paragraph 2.2, C.1; insert “concrete” after CONCRETE:. Exterior concrete is to be painted.

10. **SECTION 221000 – PLUMBING PIPING AND APPURTENANCES**

- A. At Part 2.21, 3. – Add “e. Chem Drain by Charlotte Pipe”.

11. **SECTION 230923 – ENERGY MANAGEMENT AND CONTROL SYSTEMS**

- A. At Part 1.03, B. – Change to show 1. a. as - “Automated Logic of Georgia”.
- B. At Part 1.03, B. – Delete 1. b.

**DRAWINGS**

1. **SHEET A0.1 – INDEX OF DRAWINGS**

- A. Discard issued “Sheet A0.1” and replace with new “Sheet A0.1” dated 2/18/19.

2. **SHEET C1.2 – SITE PLAN**

- A. Change Landscaping Notes #1 to read “Between Sidewalk and Building provide Shade tolerant sod.” Reference to shrubbery has been deleted.

3. **SHEET D1.3 – PENTHOUSE FLOOR PLAN – DEMOLITION**

- A. Discard issued “Sheet D1.3” and replace with new “Sheet D1.3” dated 2/18/19.

4. **SHEET A2.1 – FIRST FLOOR PLAN – RENOVATION**

- A. Discard issued “Sheet A2.1” and replace with new “Sheet A2.1” dated 2/18/19.

5. **SHEET A2.2 – SECOND FLOOR PLAN – RENOVATION**

A. Discard issued “Sheet A2.2” and replace with new “Sheet A2.2” dated 2/18/19.

6. **SHEET A2.3 – PENTHOUSE FLOOR PLAN – RENOVATION**

A. Discard issued “Sheet A2.3” and replace with new “Sheet A2.3” dated 2/18/19.

7. **SHEET A3.1 – FINISH SCHEDULE AND DETAILS**

A. Discard issued “Sheet A3.1” and replace with new “Sheet A3.1” dated 2/18/19.

8. **SHEET A3.2 – DOOR SCHEDULE AND DETAILS**

A. Discard issued “Sheet A3.2” and replace with new “Sheet A3.2” dated 2/18/19.

9. **SHEET AC3 – PENTHOUSE PLAN & DETAILS (Original 1962 Drawing)**

A. Drawing included to show existing building conditions.

10. **SHEET AC4 – SCHEDULES & DETAILS (Original 1962 Drawing)**

A. Drawing included to show existing building conditions.

11. **SHEET A4.6 – ROOF PLAN (Original 1962 Drawing)**

A. Drawing included to show existing building conditions.

12. **SHEET A5.6 – ROOF DETAILS (Original 1962 Drawing)**

A. Drawing included to show existing building conditions.

13. **SHEET A8.1 – ENLARGED FLOOR PLANS**

A. Discard issued “Sheet A8.1” and replace with new “Sheet A8.1” dated 2/18/19.

14. **SHEET A8.2 – ENLARGED ELEVATOR PLANS AND INTERIOR ELEVATIONS**

A. Discard issued “Sheet A8.2” and replace with new “Sheet A8.2” dated 2/18/19.

15. **SHEET A9.2 – INTERIOR ELEVATIONS**

A. Discard issued “Sheet A9.2” and replace with new “Sheet A9.2” dated 2/18/19.

**16. SHEET A14.3 – ROOFING DETAILS**

- A. Add new “Sheet A14.3” dated 2/18/19 to the drawings.

**END OF ADDENDUM NO. 3**

**Attachments:**

Table of Contents – Volume 1 & Volume 2

Proposal Form

Index of Drawings

Section 012300

Section 085113

Section 096510

Section 096513

Sheet A0.1

Sheet D1.3

Sheet A2.1

Sheet A2.2

Sheet A2.3

Sheet A3.1

Sheet A3.2

Sheet AC3 (1962)

Sheet AC4 (1962)

Sheet A4.6 (1962)

Sheet A5.6 (1962)

Sheet A8.1

Sheet A8.2

Sheet A8.3

Sheet A8.4

Sheet A9.2

Sheet A14.3

HVAC Roof Supports (3)

1802\160\190218AddendumNo3

## TABLE OF CONTENTS – VOLUME 1

Request for Proposals

Proposal Form

**ADDENDUM NO. 1**

Instructions to Bidders – AIA A701 – 1997, “Instructions to Bidders”

Form of Bid Bond – AIA A310 – 2010, “Bid Bond”

Form of Contract – AIA A101 – 2007, “Standard Form of Agreement between Owner and Contractor where the basis of Payment is a Stipulated Sum”

Form of Performance Bond – AIA A312 – 2010, “Performance Bond”

Form of Payment Bond – AIA A312 – 2010, “Payment Bond”

General Conditions of the Contract – AIA A201 – 2007, “General Conditions of the Contract for Construction”

Supplementary Conditions of the Contract

“Georgia Security and Immigration Compliance Act” of 2006 and W-9 Form

**ADDENDUM NO. 1**

Index of Drawings

**ADDENDUM NO. 3**

## SPECIFICATIONS

DIVISION	SECTION	SUBJECT	PAGES
<b>GENERAL REQUIREMENTS</b>	011000	Summary	011000 – 2
	012100	Allowances	<b>ADDENDUM NO. 3</b> 012100 – 3
	012300	Alternates	<b>ADDENDUM NO. 3</b> 012300 – 2
	012900	Payment Procedures DE Form 0263	012900 – 5
	013100	Project Management Coordination	013100 – 8
	013200	Construction Progress Documentation	013200 – 8
	013300	Submittal Procedures	013300 – 10
	014000	Quality Requirements	014000 – 8
	014150	Special Inspections	014150 – 3
	014200	References	014200 – 8
	015000	Temporary Facilities and Controls	015000 – 9
	016000	Product Requirements	016000 – 3
	017300	Execution	017300 – 9
	017419	Construction Waste Management and Disposal Form CWM-1; Form CWM-3; Form CWM-5; Form CWM-7	017419 – 7
017700	Closeout Procedures	017700 – 7	
018100	Systems Commissioning	018100 – 9	

DIVISION	SECTION	SUBJECT	PAGES
<b>EXISTING CONDITIONS</b>	024119	Selective Structure Demolition	024119 – 7
<b>CONCRETE</b>	033000	Cast-In-Place Concrete	033000 – 18
	035200	Lightweight Concrete Roof Insulation	035200 – 5
<b>MASONRY</b>	042000	Unit Masonry	042000 – 23
<b>METALS</b>	051200	Structural Steel	051200 – 10
	053100	Steel Deck	053100 – 6
	055000	Metal Fabrications	055000 – 10
	055213	Pipe and Tube Railings	055213 – 9
<b>WOOD AND PLASTICS</b>	061053	Miscellaneous Rough Carpentry	061053 – 6
	062000	Finish Carpentry	062000 – 4
<b>THERMAL AND MOISTURE PROTECTION</b>	070150.19	Preparation for Re-Roofing	070150.19 – 5
	071326	Self-Adhering Sheet Waterproofing	071326 – 5
	072000	Spray Polyurethane Foam Insulation	072000 – 4
	072600	Under-Slab Vapor Barrier/Retarder	072600 – 3
	075201	Roofing Installers Warranty Modified Bitumen Roofing	075201 – 2
	075216	Modified Bituminous Membrane Roofing	075202 – 11
	076200	Sheet Metal Flashing and Trim	076200 – 7
	078446	Fire-Resistive Joint Systems	078446 – 6
	079200	Joint Sealants	079200 – 7
<b>DOORS AND WINDOWS</b>	081113	Steel Doors and Frames	081113 – 6
	081416	Flush Wood Doors	081416 – 5
	083000	Specialty Doors & Frames – Fiberglass Construction	083000 – 8
	084113	Aluminum Framed Entrances & Storefronts	084113 – 8
	084413	Glazed Aluminum Curtain Walls	084413 – 10
	085113	Aluminum Windows – Alternate No. 2	085113 – 5
	086200	Unit Skylights	086200 – 5
	087100	Door Hardware	087100 – 23
	088000	Glazing	088000 – 12
	088813	Fire-Resistant Glazing	088813 – 6
	089119	Fixed Louvers	089119 – 6

END OF TABLE OF CONTENTS – VOLUME 1

**TABLE OF CONTENTS – VOLUME 2**  
**SPECIFICATIONS**

<b>DIVISION</b>	<b>SECTION</b>	<b>SUBJECT</b>	<b>PAGES</b>
<b>FINISHES</b>	092216	Non-Structural Metal Framing	092216 – 4
	092900	Gypsum Drywall	092900 – 9
	093000	Tiling	093000 – 10
	095113	Acoustical Panel Ceilings	095113 – 6
	096510	Resilient Floor Tile <b>ADDENDUM NO. 3</b>	096510 – 5
	096513	Resilient Base and Accessories <b>ADDENDUM NO. 3</b>	096513 – 6
	096813	Tile Carpeting	096813 – 6
	099000	Interior, Exterior & Industrial Paints & Coatings	099000 – 11
<b>SPECIALTIES</b>	101100	Visual Display Boards	101100 – 5
	101400	Signs <b>ADDENDUM NO. 1</b>	101400 – 5
	102113.19	Plastic Toilet Compartments	102113.19 – 6
	102800	Toilet and Bath Accessories	102800 – 6
	104416	Fire Extinguishers & Cabinets	104416 – 4
<b>EQUIPMENT</b>	115313	Laboratory Fume Hoods	115313 – 7
<b>FURNISHINGS</b>	122113	Horizontal Louver Blinds <b>ADDENDUM NO. 1</b>	122113 – 6
	123553.19	Wood Cabinets and Laboratory Casework	123553.19 – 16
	124813	Entrance Floor Mats and Frames	124813 – 2
<b>CONVEYING EQUIPMENT</b>	142400	Hydraulic Elevators	142400 – 10
<b>FIRE SUPPRESSION</b>	210110	Fire Protection General Provisions	210110 – 3
	210120	Fire Protection Standards	210120 – 1
	210210	Fire Protection Coordination	210210 – 3
	210220	Fire Protection Submittals	210220 – 3
	210230	Fire Protection Identification	210230 – 3
	210240	Fire Protection Work Closeout	210240 – 2
	210310	Fire Protection Excavation	210310 – 3
	212010	Fire Protection Sprinkler System	212010 – 7
<b>PLUMBING</b>	220012	Work and Disruptions at Existing Facilities, Plumbing	220012 – 1
	220013	Salvage and Demolition, Plumbing	220013 – 2
	220500	General Requirements, Plumbing	220500 – 5
	220501	Basic Materials and Methods, Plumbing	220501 – 6
	220529	Foundations, Hangers and Supports, Plumbing	220529 – 8
	220550	Plumbing Excavation	220550 – 3



DIVISION	SECTION	SUBJECT	PAGES
	220553	Plumbing Identification	220553 – 5
	220700	Plumbing Insulation	220700 – 7
	221000	Plumbing Piping and Appurtenances <b>ADDENDUM NO. 3</b>	221000 – 18
	224000	Plumbing Fixtures	224000 – 8
<b>MECHANICAL</b>	230012	Work and Disruptions at Existing Facilities, Mechanical	230012 – 1
	230013	Salvage and Demolition, Mechanical	230013 – 2
	230500	General Requirements, Mechanical	230500 – 5
	230501	Basic Materials and Methods, Mechanical	230501 – 6
	230502	Sleeving	230502 – 3
	230529	Foundations, Hangers and Supports, Mechanical	230529 – 8
	230550	Mechanical Excavation	230550 – 3
	230553	Mechanical Identification	230553 – 5
	230593	Test-Adjust-Balance	230593 – 3
	230700	Mechanical Insulation	230700 – 7
	230800	Mechanical Systems Commissioning	230800 – 13
	230923	Energy Management and Control Systems <b>ADDENDUM NO. 3</b>	230923 – 26
	232310	Fans	232310 – 3
	233000	Air Supply and Distribution	233000 – 9
	233713	Grilles, Registers and Diffusers	233713 – 2
	234133	Air Purification System	234133 – 4
	236210	Refrigerant Piping	236210 – 4
	237400	Rooftop Packaged Heating/Cooling Units	237400 – 9
	237450	Air Cooled Heat Pump – Outdoor Units	237450 – 4
	237460	Indoor Units, Split Systems	237460 – 4
<b>ELECTRICAL</b>	260012	Work and Disruptions at Existing Facilities, Electrical	260012 – 2
	260013	Salvage and Demolition, Electrical	260013 – 2
	260500	General Requirements, Electrical	260500 – 4
	260501	Electrical Special Provisions	260501 – 7
	260519	Cable, Wire and Connectors, 600 Volt	260519 – 3
	260526	Grounding	260526 – 3
	260533	Electrical Raceways, Boxes, Fittings and Wiring Devices	260533 – 9
	260534	Pull and Junction Boxes	260534 – 3
	260535	Electrical Connections to Equipment	260535 – 2
	260553	Electrical Identification	260553 – 3
	260573	Electrical Equipment Acceptance Testing and Start-Up	260573 – 7
	260800	Electrical Systems Commissioning	260800 – 9
	260923	Lighting Controls (Performance Spec)	260923 – 6
	262400	Switchboards, Panelboards and Enclosures	262400 – 5

<b>DIVISION</b>	<b>SECTION</b>	<b>SUBJECT</b>	<b>PAGES</b>
	262425	Safety Switches and Fuses	262425 – 2
	264313	Surge Protective Devices (SPD’S)	264313 – 6
	265113	Interior Building Lighting	265113 – 5
<b>COMMUNICATIONS</b>	270528	Telephone and Data Systems Rough-In	270528 – 1
	275116	Public Address and Classroom Intercom Systems	275116 – 13
<b>ELECTRONIC SAFETY &amp; SECURITY</b>	283100	Fire Alarm Multiplex Systems (Performance Spec)	283100 – 19
<b>EARTHWORK</b>	312300	Earthwork	312300 – 7
	312333	Trenching	312333 – 7
	313116	Termite Control	313116 – 4
<b>EXTERIOR IMPROVEMENTS</b>	321613	Sidewalks	321613 – 6
<b>UTILITIES</b>	331113	Sanitary Sewage Systems	331113 – 6
	331115	Fire Water Distribution	331115 – 16
	331116	Site Water Distribution	331116 – 17
	334000	Storm Sewage System	334000 – 5

**END OF TABLE OF CONTENTS – VOLUME 2**

## PROPOSAL FORM

DATE: \_\_\_\_\_

PROPOSER: \_\_\_\_\_

TO: Glynn County Board of Education

RE: Glynn Academy High School Science Building 5015 Modernization

Gentlemen:

Having carefully examined the Bid Documents entitled **Glynn Academy High School Science Building 5015 Modernization** and Addendum(s) No.(s) \_\_\_\_\_ as well as the premises and conditions affecting the work, we propose to furnish all services, labor and materials called for by them for the entire work, in accordance with aforesaid documents, for the sum of

\_\_\_\_\_ (\$\_\_\_\_\_)

which sum is hereinafter called the “**Base Bid**”.

We further propose that should any of the following alternatives be accepted and be incorporated in the contract, the Base Bid will be altered in each case as follows:

For and in consideration of the sum of \$1.00 the receipt of which is hereby acknowledged, we agree that this proposal may not be revoked or withdrawn after the time set for the opening of but shall remain open for acceptance for a period of **sixty (60)** days following such time.

In case we be notified in writing by mail, telegraph, facsimile, or delivery of the acceptance of this proposal within **sixty (60)** days after the time set for the opening of proposals, we agree to execute within **ten (10)** days a contract for the Work for the above stated compensation and at the same time to furnish and deliver to the Owner a Performance Bond and a Payment Bond in accordance with the which are a part of the proposal documents, both in an amount equal to 100% of the contract sum. The surety must be one which is licensed to do business in the State of Georgia.

Enclosed herewith is a bid bond (CERTIFIED CHECKS NOT ACCEPTABLE) in the amount of \_\_\_\_\_ Dollars (\$\_\_\_\_\_)

(being not less than 5% of the Proposal Amount). We agree that the above stated amount is the proper measure of liquidated damages which the Owner will sustain by our failure to execute the contract and to furnish the Performance and Payment Bond in case this proposal is accepted.

If this proposal is accepted within **sixty (60)** days after the date set for the opening of proposals and the undersigned fails to execute the contract within **ten (10)** days after written notice of such acceptance or if we fail to furnish both Performance and Payment Bond, the obligation of the Bid Bond will remain in full force and effect and the money payable thereon shall be paid into the funds of the Owner as liquidated damages for such failure; otherwise, obligations of the bond will be null and void.

Included in this Proposal Form are:

- Attachment #1:** Relevant Experience of Contractor Form  
**Attachment #2:** Project Team and Record of Performance of Past Projects Form  
**Attachment #3:** Detailed Bar Chart Project Construction Schedule based on Notice to Proceed on or before March 14, 2019.

**Required Supplemental Proposal Form Attachments** to be submitted at time of Proposal Form submittal or to be delivered or sent by email to Architect at [johnt@johntuten.com](mailto:johnt@johntuten.com) on/or before **4:00 PM on March 4, 2019**.

**Attachment #4:** Base Bid Cost Detail Form

Which are or will be completed and are required as a part of this Proposal.

We understand that we may attach in a separate envelope additional photographs and other information, but the quantity content and aesthetic quality of this material will not be a part of the evaluation process and is not encouraged by the Owner.

I certify that this proposal is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a proposal for the same materials, labor supplies, or equipment and is in all respects fair and without collusion or fraud. We understand collusive bidding is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. We agree to abide by all conditions of this proposal.

The full names and addresses of persons and firms interested in the foregoing proposal as principals are as follows:

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Date: \_\_\_\_\_

Legal Name of Firm: \_\_\_\_\_

By: \_\_\_\_\_  
Signature

By: \_\_\_\_\_  
Print Name

Title: \_\_\_\_\_

Sworn to and subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
(Notary Public)

My commission expires on \_\_\_\_\_.

## ATTACHMENT #1

### Relevant Experience of General Contractor.

Submitted by: \_\_\_\_\_  
Company Name

Address: \_\_\_\_\_  
Contact Person: \_\_\_\_\_  
Cell Phone: \_\_\_\_\_  
Email: \_\_\_\_\_

How many years has your organization been in business as a Contractor? \_\_\_\_\_

How many years has your organization been in business under its present business name? \_\_\_\_\_

Under what other or former names has your organization operated? \_\_\_\_\_

Answer the following about your organization?

- A. Date of Incorporation or organization: \_\_\_\_\_
- B. State of Incorporation or organization: \_\_\_\_\_
- C. If a Partnership, type of Partnership: \_\_\_\_\_
- D. President's Name and/or Partners: \_\_\_\_\_
- E. Vice President's Name: \_\_\_\_\_
- F. Secretary's Name: \_\_\_\_\_
- G. Treasurer's Name: \_\_\_\_\_

Attach a copy of your Georgia General Contractor's license: License Attached \_\_\_\_\_

Claims and Suits: (If the answer to any of the questions below is yes, please attach details.)

- A. Has your organization ever failed to complete any work awarded to it? \_\_\_\_\_
- B. Are there any judgments, claims, arbitration proceedings or suits pending or outstanding against your organization or its officers? \_\_\_\_\_
- C. Has your organization filed any law suits or requested arbitration with regard to construction contracts within the last five years? \_\_\_\_\_
- D. Within the last five years, has any officer or principal of your organization ever been an officer or principal of another organization when it failed to complete a construction contract? \_\_\_\_\_
- E. State total worth of work in progress and under contract? \_\_\_\_\_

Attach a financial statement: Attached \_\_\_\_\_

List three (3) public school projects of \$5,000,000 minimum construction value completed by the Contractor after 2008. If the Contractor has not completed three (3) \$5,000,000 school construction projects after 2008, then submit the three (3) most similar projects.

<b>PROJECT #1:</b>	
Project Name:	
Project Sq. Ft.:	
Construction Cost:	

Owner Representative:	
Address:	
Phone #:	
Fax #:	
Email:	
Architect Representative:	
Address:	
Phone:	
Email:	
Fax #:	

<b>PROJECT #2:</b>	
Project Name:	
Project Sq. Ft.:	
Construction Cost:	
Owner Representative:	
Address:	
Phone #:	
Fax #:	
Email:	
Architect Representative:	
Address:	
Phone:	
Email:	
Fax #:	

<b>PROJECT #3:</b>	
Project Name:	
Project Sq. Ft.:	
Construction Cost:	
Owner Representative:	
Address:	
Phone #:	
Fax #:	
Email:	
Architect Representative:	
Address:	
Phone:	
Email:	
Fax #:	

Projects in excess of \$5,000,000 completed in the last five years or currently under construction.

<b>PROJECT #1:</b>	
Project Name:	
Project Sq. Ft.:	
Construction Cost:	
Owner Representative:	
Address:	
Phone #:	
Fax #:	
Email:	
Architect Representative:	
Address:	
Phone:	
Email:	
Fax #:	

<b>PROJECT #2:</b>	
Project Name:	
Project Sq. Ft.:	
Construction Cost:	
Owner Representative:	
Address:	
Phone #:	
Fax #:	
Email:	
Architect Representative:	
Address:	
Phone:	
Email:	
Fax #:	

<b>PROJECT #3:</b>	
Project Name:	
Project Sq. Ft.:	
Construction Cost:	
Owner Representative:	
Address:	
Phone #:	
Fax #:	
Email:	

Architect Representative:	
Address:	
Phone:	
Email:	
Fax #:	

**END OF ATTACHMENT #1**



## ATTACHMENT #2

### Project team experience and record of performance on past projects.

Submitted by: \_\_\_\_\_  
Company Name

A. **Company Officer or Owner** who will be responsible for and routinely monitor and manage construction effort.

- a. Name: \_\_\_\_\_
- b. Number of years as owner or officer of a construction firm: \_\_\_\_\_
- c. Number of years with this firm: \_\_\_\_\_

B. **Project Manager** (full time or part time in home office):

- a. Name: \_\_\_\_\_
- b. Number of years as project manager: \_\_\_\_\_
- c. Number of years with this firm: \_\_\_\_\_
- d. Similar projects successfully completed by project manager:

**i. Job 1:**

- 1. Project name: \_\_\_\_\_
- 2. Construction value in dollars: \_\_\_\_\_
- 3. Contract date: \_\_\_\_\_
- 4. Substantial completion date: \_\_\_\_\_
- 5. Architect contact:
  - a. Name: \_\_\_\_\_
  - b. Company: \_\_\_\_\_
  - c. Cell phone: \_\_\_\_\_
  - d. E-mail: \_\_\_\_\_

**ii. Job 2:**

- 1. Project name: \_\_\_\_\_
- 2. Construction value in dollars: \_\_\_\_\_
- 3. Contract date: \_\_\_\_\_
- 4. Substantial completion date: \_\_\_\_\_
- 5. Architect contact:
  - a. Name: \_\_\_\_\_
  - b. Company: \_\_\_\_\_
  - c. Cell phone: \_\_\_\_\_
  - d. E-mail: \_\_\_\_\_

**iii. Job 3:**

- 1. Project name: \_\_\_\_\_
- 2. Construction value in dollars: \_\_\_\_\_
- 3. Contract date: \_\_\_\_\_
- 4. Substantial completion date: \_\_\_\_\_
- 5. Architect contact:
  - a. Name: \_\_\_\_\_
  - b. Company: \_\_\_\_\_
  - c. Cell phone: \_\_\_\_\_
  - d. E-mail: \_\_\_\_\_

e. Number of projects currently under management by Project Manager: \_\_\_\_\_

**C. Project Superintendent** (full time on jobsite):

- a. Name: \_\_\_\_\_
- b. Number of years as construction superintendent: \_\_\_\_\_
- c. Number of years with this firm: \_\_\_\_\_
- d. Similar projects successfully completed by superintendent.

**i. Job 1:**

- 1. Project name: \_\_\_\_\_
- 2. Construction value in dollars: \_\_\_\_\_
- 3. Contract date: \_\_\_\_\_
- 4. Substantial completion date: \_\_\_\_\_
- 5. Architect contact
  - a. Name: \_\_\_\_\_
  - b. Company: \_\_\_\_\_
  - c. Cell phone: \_\_\_\_\_
  - d. E-mail: \_\_\_\_\_

**ii. Job 2:**

- 1. Project name: \_\_\_\_\_
- 2. Construction value in dollars: \_\_\_\_\_
- 3. Contract date: \_\_\_\_\_
- 4. Substantial completion date: \_\_\_\_\_
- 5. Architect contact
  - a. Name: \_\_\_\_\_
  - b. Company: \_\_\_\_\_
  - c. Cell phone: \_\_\_\_\_
  - d. E-mail: \_\_\_\_\_

**iii. Job 3:**

- 1. Project name: \_\_\_\_\_
- 2. Construction value in dollars: \_\_\_\_\_
- 3. Contract date: \_\_\_\_\_
- 4. Substantial completion date: \_\_\_\_\_
- 5. Architect contact
  - a. Name: \_\_\_\_\_
  - b. Company: \_\_\_\_\_
  - c. Cell phone: \_\_\_\_\_
  - d. E-mail: \_\_\_\_\_

**D. Assistant Project Superintendent** (full time on jobsite):

- a. Name: \_\_\_\_\_
- b. Number of years as construction superintendent or superintendent's assistant: \_\_\_\_\_
- c. Number of years with this firm: \_\_\_\_\_
- d. Number of years employed by construction contractors: \_\_\_\_\_

- E. **Subcontractors proposed for the project.** The proposed list of sub-contractors will be submitted as a part of the Base Bid Cost Detail Form, Attachment #1. The experience and record of project completion of subcontractors will be evaluated.

The Owner and Architect will conduct telephone interviews with previous owners and architects for whom the team members have completed similar projects and may visit projects under construction to gather information.

**END ATTACHMENT #2**

### ATTACHMENT #3

#### Demonstrated Ability to meet this Project Schedule.

As part of the “Demonstrated Ability to meet this Project Schedule” the proposers should include a detailed Project Schedule which clearly shows the steps necessary to accomplish the substantial completion on schedule. This schedule should accompany the Proposal Form based on a Notice to Proceed on/or before March 14, 2019.

Rating in the category “Demonstrated Ability to meet this Project Schedule” will be accomplished by comparing the contractor’s performance on similar project schedules for projects completed in the last three (3) years.

Submitted by:

\_\_\_\_\_ **Company Name**

Project Schedule Attached \_\_\_\_\_

END ATTACHMENT #3

ATTACHMENT #4

BASE BID COST DETAIL FORM

The Architect will keep the detailed cost information confidential, and will use it only as reference information to confirm that each Proposer and Sub-Contractor are clear about the scope of the work. The Architect and the Architect's consultants expect to communicate with the Contractor and Sub-Contractors to examine the cost proposals in detail.

SECTION	SUBJECT	SUPPLIER OR SUBCONTRACTOR	COST
010000	General Conditions, Overhead & Profit		
012100	<b>Allowances:</b> 1. Owner's Contingency 2. Door Hardware 3. Asbestos Removal 4. Repair &/or replace exterior aluminum sun screens 5. Refinishing terrazzo floors.		\$400,000.00 \$ 42,000.00 \$100,000.00 \$ 40,000.00  \$16,000.00
015000	Temporary Facilities & Controls		
017419	Construction Waste Management and Disposal		
024119	Selective Structure Demolition		
033000	Cast-In-Place Concrete		
035200	Lightweight Concrete Insulation		
042000	Unit Masonry		
051200	Structural Steel		
053100	Steel Deck		
055000	Metal Fabrications		
055213	Pipe & Tube Railings		
061053	Miscellaneous Rough Carpentry		
062000	Finish Carpentry		
070150.19	Preparation for Re-Roofing		
071326	Self-Adhering Sheet Waterproofing		
072000	Spray Polyurethane Foam Insulation		

SECTION	SUBJECT	SUPPLIER OR SUBCONTRACTOR	COST
072600	Vapor Retarders		
075216	Modified Bituminous Membrane Roofing		
076200	Sheet Metal Flashing and Trim		
078446	Fire-Resistive Joint Systems		
079200	Joint Sealants		
081113	Steel Doors and Frames		
081416	Flush Wood Doors		
083000	Specialty Doors & Frames – Fiberglass Construction		
084113	Aluminum Framed Entrances & Storefronts		
084413	Glazed Aluminum Curtain Walls		
085113	Aluminum Windows – Alt. No. 2		
086200	Unit Skylights		
087100	Door Hardware		
088000	Glazing		
088813	Fire-Resistant Glazing		
089119	Fixed Louvers		
092216	Non-Structural Metal Framing		
092900	Gypsum Drywall		
093000	Tiling		
095113	Acoustical Panel Ceilings		
096510	Resilient Floor Tile		
096513	Resilient Base and Accessories		
096813	Tile Carpeting		
099000	Interior, Exterior & Industrial Paints & Coatings		
101100	Visual Display Boards		
101400	Signs		
102113.19	Plastic Toilet Compartments		
102800	Toilet and Bath Accessories		
104416	Fire Extinguishers & Cabinets		
115313	Laboratory Fume Hoods		
122113	Horizontal Louver Blinds		
123553.19	Wood Cabinets & Laboratory Casework		

SECTION	SUBJECT	SUPPLIER OR SUBCONTRACTOR	COST
124813	Entrance Floor Mats		
142400	Hydraulic Elevators		
210000	Fire Protection		
220000	Plumbing		
230000	Mechanical		
260000	Electrical		
270000	Communications		
283100	Fire Alarm Multiplex Systems		
310000	Earthwork		
321613	Sidewalks		
330000	Utilities		
	<b>TOTAL BASE BID</b>		
<b>ALTERNATES</b>			
1.	Leave existing terrazzo flooring listed as floor finish in place. Instead of refinishing existing terrazzo; cover terrazzo with LVT system per specifications.		
2.	Instead of aluminum curtain wall system install pre-glazed aluminum window system specified at Alt. No. 2 at CWA, CWB, CWC & CWD.		

END ATTACHMENT #4

## INDEX OF DRAWINGS

### VOLUME 1

A0.0 COVER SHEET  
A0.1 INDEX OF DRAWINGS

ADDENDUM NO. 3

### CIVIL

C1.1 NORTH CAMPUS COMPOSITE SITE PLAN  
C1.2 SITE PLAN – SCIENCE BUILDING  
C1.3 SITE PLAN ENLARGED AREAS  
C1.4 CONSTRUCTION DETAILS

ADDENDUM NO. 3  
ADDENDUM NO. 1

### DEMOLITION

D1.1 FIRST FLOOR PLAN – DEMOLITION  
D1.2 SECOND FLOOR PLAN – DEMOLITION  
D1.3 PENTHOUSE FLOOR PLAN – DEMOLITION  
D1.4 EXTERIOR ELEVATIONS – DEMOLITION

ADDENDUM NO. 1  
ADDENDUM NO. 1  
ADDENDUM NO. 3

### ARCHITECTURAL

A1.1 FLOOR PLAN – LIFE SAFETY  
A1.2 SECOND FLOOR PLAN – LIFE SAFETY  
A1.3 PENTHOUSE FLOOR PLAN – LIFE SAFETY  
A1.4 LIFE SAFETY REFERENCES  
A1.5 ROOF PLAN – RENOVATION  
A2.1 FIRST FLOOR PLAN – RENOVATION  
A2.2 SECOND FLOOR PLAN – RENOVATION  
A2.3 PENTHOUSE FLOOR PLAN – RENOVATION  
A2.4 FIRST FLOOR REFLECTED CEILING PLAN  
A2.5 SECOND FLOOR REFLECTED CEILING PLAN  
A2.6 PENTHOUSE REFLECTED CEILING PLAN  
A3.1 FINISH SCHEDULE AND DETAILS  
A3.2 DOOR SCHEDULE AND DETAILS  
A3.3 DOOR SILL DETAILS  
A3.4 CURTAINWALL ELEVATIONS  
A3.5 CURTAINWALL DETAILS  
A4.1 EXTERIOR ELEVATIONS – RENOVATION  
A5.1 BUILDING SECTIONS  
A5.2 BUILDING SECTIONS  
A5.3 BUILDING SECTIONS  
A6.1 WALL SECTIONS AROUND MAIN BUILDING  
A6.2 WALL SECTIONS @ ROOFS AND CANOPIES  
A6.3 ELEVATOR WALL SECTIONS AND DETAILS  
A6.4 STAIR TOWER SECTIONS  
A8.1 ENLARGED FLOOR PLANS  
A8.2 ENLARGED ELEVATOR PLANS AND INTERIOR ELEVATIONS  
A8.3 ENLARGED STAIR PLANS  
A8.4 EXISTING DATA ROOM INFORMATION  
A9.1 INTERIOR ELEVATIONS

ADDENDUM NO. 1

ADDENDUM NO. 3  
ADDENDUM NO. 3  
ADDENDUM NO. 3

ADDENDUM NO. 3  
ADDENDUM NO. 3

ADDENDUM NO. 1

ADDENDUM NO. 1

ADDENDUM NO. 3  
ADDENDUM NO. 3

ADDENDUM NO. 1



**GLYNN ACADEMY HIGH SCHOOL  
SCIENCE BUILDING 5015 MODERNIZATION**

**ADDENDUM NO. 3  
FEBRUARY 18, 2019**

- A9.2 INTERIOR ELEVATIONS
- A9.3 MILLWORK DETAILS
- A11.1 MASONRY STANDARD DETAILS
- A13.1 FIRE RATING DETAILS
- A14.1 ROOFING DETAILS
- A14.2 ROOFING DETAILS
- A14.3 ROOFING DETAILS
- A16.1 TOILET ROOM DETAILS
- A17.1 STANDARD DETAILS

**ADDENDUM NO. 3**

**ADDENDUM NO. 1  
ADDENDUM NO. 3**

**VOLUME 2**

- A0.0.0 COVER SHEET
- A0.2 INDEX OF DRAWINGS

**STRUCTURAL**

- S1.0 STRUCTURAL NOTES
- S1.1 NEW ELEVATOR PLANS
- S1.2 SECTIONS
- S1.3 TYPICAL DETAILS
- S2.1 FIRST FLOOR GIRT PLAN
- S2.2 SECOND FLOOR GIRT PLAN

**DEMOLITION**

- MED2.01 MEP DEMO PLAN – LEVEL 1
- MED2.02 MEP DEMO PLAN – LEVEL 2
- MED2.03 MEP DEMO PLAN – PENTHOUSE

**PLUMBING**

- P1.01 PLUMBING SITE PLAN
- P2.01 PLUMBING PLAN – LEVEL 1
- P2.02 PLUMBING PLAN – LEVEL 2
- P2.03 PLUMBING PLAN – PENTHOUSE
  
- P5.01 PLUMBING DETAILS
- P5.02 PLUMBING DETAILS
- P5.03 PLUMBING DETAILS
- P6.01 PLUMBING NOTES, SYMBOLS, AND SCHEDULES
- P7.01 PLUMBING RISER DIAGRAMS

**ADDENDUM NO. 2**

**ADDENDUM NO. 2**

**FIRE PROTECTION**

- FP2.01 FIRE PROTECTION PLAN

**MECHANICAL**

- M2.01 MECHANICAL PLAN – LEVEL 1
- M2.02 MECHANICAL PLAN – LEVEL 2
- M2.03 MECHANICAL PLAN – PENTHOUSE
- M3.01 CONDENSATE PLAN – LEVEL 1
- M3.02 CONDENSATE PLAN – LEVEL 2
- M3.03 CONDENSATE PLAN – PENTHOUSE

**GLYNN ACADEMY HIGH SCHOOL  
SCIENCE BUILDING 5015 MODERNIZATION**

**ADDENDUM NO. 3  
FEBRUARY 18, 2019**

- M5.01 MECHANICAL DETAILS
- M5.02 MECHANICAL DETAILS
- M6.01 MECHANICAL NOTES, SYMBOLS, AND SCHEDULES

**ADDENDUM NO. 2**

**ELECTRICAL**

- E1.01 ELECTRICAL SITE PLAN
- E2.01 LIGHTING PLAN – LEVEL 1
- E2.02 LIGHTING PLAN – LEVEL 2
- E2.03 LIGHTING PLAN – PENTHOUSE
- E3.01 POWER PLAN – LEVEL 1
- E3.02 POWER PLAN – LEVEL 2
- E3.03 POWER PLAN – PENTHOUSE
- E3.21 CABLE PATHWAY PLAN – LEVEL 1
- E3.22 CABLE PATHWAY PLAN – LEVEL 2
- E5.01 ELECTRICAL DETAILS
- E5.02 ELECTRICAL DETAILS
- E5.03 ELECTRICAL DETAILS
- E6.01 ELECTRICAL NOTES, SYMBOLS, AND SCHEDULES
- E7.01 ELECTRICAL RISER DIAGRAMS
- E7.02 ELECTRICAL PANEL SCHEDULES
- E8.01 AUXILIARY PLAN – LEVEL 1
- E8.02 AUXILIARY PLAN – LEVEL 2

**ADDENDUM NO. 2**

**ADDENDUM NO. 2**

**ADDENDUM NO. 2**

**ADDENDUM NO. 2**

**END OF INDEX OF DRAWINGS**

**SECTION 012300 – ALTERNATES**

**PART 1 - GENERAL**

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
  - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
  - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
  - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

**PART 2 - PRODUCTS (Not Used)**

**PART 3 - EXECUTION**

3.1 SCHEDULE OF ALTERNATES

A. **Alternate No. 1:**

1. **Base Proposal:** Refinish terrazzo floors listed as floor finish on finish schedule. Cost of this work is defined by an allowance.
2. **Alternate:** Leave existing terrazzo flooring listed as floor finish in place. Instead of refinishing existing terrazzo; cover terrazzo with LVT system per project specifications.

B. **Alternate No. 2:**

1. **Base Proposal:** Furnish specified aluminum curtain wall system at CWA, CWB, CWC, & CWD. (Drawing A3.4)
2. **Alternate:** Instead of aluminum curtain wall system install pre-glazed aluminum window system specified as Alternate No. 2 at CWA, CWB, CWC, & CWD.

**END OF SECTION 012300**

**SECTION 085113 – ALUMINUM WINDOWS – ALTERNATE NO. 2**  
Series 3900 Thermal AW-PG110-FW Fixed Windows

**PART 1 – GENERAL**

1.01 WORK INCLUDED

- A. Furnish and install aluminum architectural windows complete with hardware and related components as shown on drawings and specified in this section.
- B. All windows shall be EFCO® Series 3900 Thermal AW-PG110-FW Fixed; with manufacturers standard sub frame; sill system, jamb and head sub frames or comparable windows by Kawneer.
  - 1. Test reports documenting compliance with requirements of Section 1.05.

**Specify glass and glazing in this section if window assemblies are to be glazed by the window manufacturer. If glazing is to be done by a different contractor, glass and glazing should be specified in Section 08 81 00. EFCO recommends that the window manufacturer perform the glazing.**

- C. Glass and Glazing
  - 1. All units shall be factory glazed; glass to be comparable to insulated glass specified in Section 088000.
- D. Single Source Requirement
  - 1. All products listed in Section 1.02 shall be by the same manufacturer.

**List work and materials related to this section but specified in other sections. EFCO recommends that one manufacturer furnish all applicable Division 8 products to ensure consistent product quality and compatibility.**

1.02 RELATED WORK

- A. Section 084113 – Aluminum – Framed Entrances and Storefronts.
- B. Section 084413 – Glazed Aluminum Curtain Walls.

1.03 LABORATORY TESTING AND PERFORMANCE REQUIREMENTS

- A. Test Units
  - 1. Air, water, and structural test unit shall conform to requirements set forth in AAMA/WDMA/CSA 101/I.S.2/A440-17 and manufacturer's standard locking/operating hardware and insulated glazing configuration.
  - 2. Thermal test unit sizes shall be 48" (1219 mm) x 72" (1828 mm). Unit shall consist of a single fixed window.

B. Test Procedures and Performances

1. Windows shall conform to all AAMA/WDMA/CSA 101/I.S.2/A440-17 requirements for the window type referenced in 1.01.B. In addition, the following specific performance requirements shall be met.
2. Air Infiltration Test
  - a. Test unit in accordance with ASTM E 283 at a static air pressure difference of 6.24 psf (299 Pa).
  - b. Air infiltration shall not exceed .10 cfm/SF (.50 l/s•m<sup>2</sup>) of unit.
3. Water Resistance Test
  - a. Test unit in accordance with ASTM E 331/ASTM E 547 at a static air pressure difference of 15.0 psf (575 Pa).
  - b. There shall be no uncontrolled water leakage.
4. Uniform Load Structural Test
  - a. Test unit in accordance with ASTM E 330 at a static air pressure difference of 165.4 psf (7920 Pa), both positive and negative.
  - b. At conclusion of test there shall be no glass breakage or permanent damage.
5. Forced Entry Resistance
  - a. Windows shall be tested in accordance to ASTM F 588 or AAMA 1302.5 and meet the requirements of performance level 10.
6. Condensation Resistance Test (CRF)
  - a. Test unit in accordance with AAMA 1503.1.
  - b. Condensation Resistance Factor (CRF) shall not be less than \_\_\_ (frame) when glazed with \_\_\_ center of glass U-Factor. (See chart at end of section).
7. Condensation Resistance (CR)
  - a. With ventilators closed and locked, test unit in accordance with NFRC 500-2010.
  - b. Condensation Resistance (CR) shall not be less than \_\_\_ when glazed with \_\_\_ center of glass U-Factor. (See chart at end of section).
8. Thermal Transmittance Test (Conductive U-Factor)
  - a. With ventilators closed and locked, test unit in accordance with NFRC 100-2010.
  - b. Conductive thermal transmittance (U-Factor) shall not be more than \_\_\_ BTU/hr•ft<sup>2</sup>•°F ( \_\_\_ W/m<sup>2</sup>•K) when glazed with \_\_\_ center of glass U-Factor. (See chart at end of section).

Glass Comparison Chart				
Glass	C.O.G. <sup>2</sup> U-Factor	U-Factor <sup>1</sup>	Frame CRF <sup>3</sup>	CR <sup>1</sup>
1" IG	0.48	0.54 BTU/hr•ft <sup>2</sup> •°F (3.07 W/m <sup>2</sup> •K)	62	43
1" IG	0.29	0.39 BTU/hr•ft <sup>2</sup> •°F (2.21 W/m <sup>2</sup> •K)	62	48
1" IG	0.24	0.34 BTU/hr•ft <sup>2</sup> •°F (1.93 W/m <sup>2</sup> •K)	62	48

<sup>1</sup>U-Factor and Condensation Resistance (CR) are based on a nominal size of 47" (1200 mm) x 59" (1500 mm) using NFRC-100, and 500 - 2017. <sup>2</sup>Intercept® Spacer. <sup>3</sup>Based on AAMA 1503-09.

1.04 QUALITY ASSURANCE

- A. Provide test reports from AAMA accredited laboratories certifying the performance as specified in 1.05.
- B. Test reports shall be accompanied by the window manufacturer's letter of certification, stating the tested window meets or exceeds the referenced criteria for the appropriate window type.

1.05 REFERENCES

1.06 SUBMITTALS

- A. Contractor shall submit shop drawings; finish samples, test reports, and warranties.
  - 1. Samples of materials as may be requested without cost to owner, i.e., metal, glass, fasteners, anchors, frame sections, mullion section, corner section, etc.
- B. An NFRC Component Modeling Approach (CMA) generated label certificate shall be provided by the manufacturer. The label certificate shall be project specific and will contain the thermal performance ratings of the manufacturer's framing combined with the specified glass, and the glass spacer used in the fabrication of the glass, at NFRC standard test size as defined in table 4-3 in NFRC 100-2017.

1.07 WARRANTIES

- A. Total Window Installation
  - 1. The responsible contractor shall assume full responsibility and warrant for one year the satisfactory performance of the total window installation which includes that of the windows, hardware, glass (including insulated units), glazing, anchorage and setting system, sealing, flashing, etc., as it relates to air, water, and structural adequacy as called for in the specifications and approved shop drawings.
  - 2. Any deficiencies due to such elements not meeting the specifications shall be corrected by the responsible contractor at their expense during the warranty period.

**Standard warranty period is 5 years or extended 10 years.**

- B. Window Material and Workmanship
  - 1. Provide written guarantee against defects in material and workmanship for \_\_\_ years from the date of final shipment.
- C. Glass
  - 1. Provide written warranty for insulated glass units that they will be free from obstruction of vision as a result of dust or film formation on the internal glass surfaces caused by failure of the hermetic seal due to defects in material and workmanship.
  - 2. Warranty period shall be for 10 (ten) years.
- D. Finish: Material clear anodized finish.

**PART 2 – PRODUCTS**

2.01 MATERIALS

ALUMINUM WINDOWS

A. Aluminum

1. Extruded aluminum shall be 6063-T6 alloy and tempered.

B. Thermal Barrier

1. All exterior aluminum shall be separated from interior aluminum by a rigid, structural thermal barrier. For purposes of this specification, a structural thermal barrier is defined as a system that shall transfer shear during bending and, therefore, promote composite action between the exterior and interior extrusions.
2. Barrier material shall be poured-in-place, two-part polyurethane. A nonstructural thermal barrier is unacceptable.

2.02 FABRICATION

A. General

1. All aluminum frame extrusions shall have a minimum wall thickness of .090" (2.3 mm).
2. Depth of frame shall not be less than 3 1/4" (82 mm).

B. Frame

1. Frame components shall be mechanically fastened.

C. Glazing

1. All units shall be glazed with the manufacturer's standard sealant process provided the glass is held in place by a removable, extruded aluminum, glazing bead. The glazing bead must be isolated from the glazing material by a gasket.
2. All units shall be glazed with a minimum of 1/2" glass bite.

D. Finish **See separate finish specification for more details.**

1. Anodic

- a. Finish all exposed areas of aluminum windows and components with electrolytically deposited color in accordance with Aluminum Association Designation AA-M10-C22-A41. Color shall be clear.

**PART 3 – EXECUTION**

3.01 INSPECTION

A. Job Conditions

1. Verify that openings are dimensionally within allowable tolerances, plumb, level, clean, provide a solid anchoring surface, and are in accordance with approved shop drawings.
2. Provide for manufacturer representation to conduct pre-installation site meeting.

3.02 INSTALLATION



- A. Use only skilled tradesmen with work done in accordance with approved shop drawings and specifications.
- B. Plumb and align window faces in a single plane for each wall plane, and erect windows and materials square and true. Adequately anchor to maintain positions permanently when subjected to normal thermal movement, specified building movement, and specified wind loads.
- C. Adjust windows for proper operation after installation.
- D. Furnish and apply sealants to provide a weather tight installation at all joints and intersections and at opening perimeters. Wipe off excess material and leave all exposed surfaces and joints clean and smooth.

**3.03 ANCHORAGE**

- A. Adequately anchor to maintain positions permanently when subjected to normal thermal movement, specified building movement, and specified wind loads.

**3.04 PROTECTION AND CLEANING**

- A. After completion of window installation, windows shall be inspected, adjusted, put into working order and left clean, free of labels, dirt, etc. Protection from this point shall be the responsibility of the general contractor.

**END OF SECTION 085113**

## SECTION 096510 – RESILIENT FLOOR TILE

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Vinyl composition tile (VCT).

#### 1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples for Initial Selection: For each type of product indicated.
- C. Samples for Verification: Full-size units of each color and pattern of resilient floor tile required.
- D. Maintenance Data: For resilient products to include in maintenance manuals.

#### 1.3 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: Provide products identical to those tested for fire-exposure behavior per test method indicated by a testing and inspecting agency acceptable to authorities having jurisdiction.

#### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F (10 deg C) or more than 90 deg F (32 deg C). Store tiles on flat surfaces.

#### 1.5 PROJECT CONDITIONS

- A. Maintain temperatures within range recommended by manufacturer, but not less than 70 deg F (21 deg C) or more than 95 deg F (35 deg C), in spaces to receive floor tile during the following time periods:
  - 1. 48 hours before installation.
  - 2. During installation.
  - 3. 48 hours after installation.
- B. After post-installation period, maintain temperatures within range recommended by manufacturer, but not less than 55 deg F (13 deg C) or more than 95 deg F (35 deg C).
- C. Close spaces to traffic during floor covering installation.
- D. Close spaces to traffic for 48 hours after floor covering installation.

- E. Install resilient products after other finishing operations, including painting, have been completed.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Products: Subject to compliance with requirements, provide one of the products listed in other Part 2 articles.

### 2.2 COLORS AND PATTERNS

- A. Colors and Patterns: As selected by Architect from manufacturer's full range.

### 2.3 VINYL COMPOSITION TILE

- A. Vinyl Composition Tile (VCT): ASTM F 1066.
  - 1. AB ColorPlus, American Biltrite (Canada) Ltd.
  - 2. Armstrong World Industries, Inc.
  - 3. Congoleum Corporation
  - 4. Mannington Mills, Inc.
  - 5. Tarkett Inc.
- B. Class: 2 (through-pattern tile).
- C. Wearing Surface: Smooth.
- D. Thickness: 0.125 inch (3.2 mm).
- E. Size: 12 by 12 inches (305 by 305 mm).
- F. Fire-Test-Response Characteristics:
  - 1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm per ASTM E 648.

### 2.4 LUXURY VINYL TILE (LVT)

- A. Products: Subject to compliance with requirements, the following:
  - 1. Mannington Commercial "12189 Flint".
  - 2. Shaw Contract Group.
  - 3. Tile Standard: ASTM F F1700
  - 4. Wearing Surface: Smooth. 0.020 inch.
  - 5. Thickness: 0.125 inch.
  - 6. Size: 18 by 18 inches.
  - 7. Colors: LVT – Architect to select from manufacturer's full range of colors.

## 2.5 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic cement based formulation provided or approved by resilient product manufacturer for applications indicated.
- B. Adhesives: Water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated.
- C. Metal Edge Strips: Extruded aluminum with mill finish of width shown, of height required to protect exposed edges of tiles, and in maximum available lengths to minimize running joints.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for installation tolerances, moisture content, and other conditions affecting performance.
  - 1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.
  - 2. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Prepare substrates according to manufacturer's written recommendations to ensure adhesion of resilient products.
- B. Concrete Substrates: Prepare according to ASTM F 710.
  - 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
  - 2. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.
  - 3. Moisture Testing:
    - a. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours.
    - b. Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.
- C. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
- D. Access Flooring Panels: Remove protective film of oil or other coating using method recommended by access flooring manufacturer.

- E. Use trowelable leveling and patching compound to fill cracks, holes, and depressions in substrates.
- F. Move resilient products and installation materials into spaces where they will be installed at least 48 hours in advance of installation.
  - 1. Do not install resilient products until they are same temperature as space where they are to be installed.
- G. Sweep and vacuum clean substrates to be covered by resilient products immediately before installation. After cleaning, examine substrates for moisture, alkaline salts, carbonation, and dust. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.3 TILE INSTALLATION

- A. Lay out tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half tile at perimeter.
  - 1. Lay tiles square with room axis.
- B. Match tiles for color and pattern by selecting tiles from cartons in the same sequence as manufactured and packaged, if so numbered. Discard broken, cracked, chipped, or deformed tiles.
  - 1. Lay tiles with grain running in one direction.
- C. Scribe, cut, and fit tiles to butt neatly and tightly to vertical surfaces and permanent fixtures including built-in furniture, cabinets, pipes, outlets, edgings, door frames, thresholds, and nosings.
- D. Extend tiles into toe spaces, door reveals, closets, and similar openings.
- E. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on floor tiles as marked on substrates. Use chalk or other nonpermanent, nonstaining marking device.
- F. Install tiles on covers for telephone and electrical ducts and similar items in finished floor areas. Maintain overall continuity of color and pattern with pieces of tile installed on covers. Tightly adhere tile edges to substrates that abut covers and to cover perimeters.
- G. Adhere tiles to flooring substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.

### 3.4 RESILIENT WALL BASE INSTALLATION

- A. Apply wall base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.

- B. Install wall base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.
- C. Tightly adhere wall base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
- D. Do not stretch wall base during installation.
- E. On masonry surfaces or other similar irregular substrates, fill voids along top edge of wall base with manufacturer's recommended adhesive filler material.
- F. Pre-molded Corners: Install pre-molded corners before installing straight pieces.

### 3.5 RESILIENT ACCESSORY INSTALLATION

- A. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of floor coverings that would otherwise be exposed.

### 3.6 CLEANING AND PROTECTION

- A. Perform the following operations immediately after completing resilient product installation:
  - 1. Remove adhesive and other blemishes from exposed surfaces.
  - 2. Sweep and vacuum surfaces thoroughly.
  - 3. Damp-mop surfaces to remove marks and soil.
    - a. Do not wash surfaces until after time period recommended by manufacturer.
- B. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period. Use protection methods recommended in writing by manufacturer.
  - 1. Apply protective floor polish to horizontal surfaces that are free from soil, visible adhesive, and surface blemishes if recommended in writing by manufacturer.
    - a. Use commercially available product acceptable to manufacturer.
    - b. Coordinate selection of floor polish with Owner's maintenance service.
  - 2. Cover products installed on horizontal surfaces with undyed, untreated building paper until Substantial Completion.
  - 3. Do not move heavy and sharp objects directly over surfaces. Place hardboard or plywood panels over flooring and under objects while they are being moved. Slide or roll objects over panels without moving panels.

**END OF SECTION 096510**

**SECTION 096513 – RESILIENT BASE AND ACCESSORIES**

**PART 1 - GENERAL**

1.1 SUMMARY

A. Section Includes:

1. Vinyl base.
2. Vinyl stair accessories.
3. Vinyl molding accessories.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each exposed product and for each color and texture specified, not less than **12 inches (300 mm)** long.
- C. Samples for Initial Selection: For each type of product indicated.
- D. Samples for Verification: For each type of product indicated and for each color, texture, and pattern required in manufacturer's standard-size Samples, but not less than **12 inches (300 mm)** long.
- E. Product Schedule: For resilient base and accessory products **Use same designations indicated on Drawings.**

1.3 QUALITY ASSURANCE

- A. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.
  1. Coordinate mockups in this Section with mockups specified in other Sections.
  2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
  3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than **50 deg F (10 deg C)** or more than **90 deg F (32 deg C)**.

1.5 FIELD CONDITIONS

- A. Maintain ambient temperatures within range recommended by manufacturer, but not less than [70 deg F (21 deg C)] or more than [95 deg F (35 deg C)], in spaces to receive resilient products during the following periods:
  - 1. 48 hours before installation.
  - 2. During installation.
  - 3. 48 hours after installation.
- B. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than [55 deg F (13 deg C)] or more than [95 deg F (35 deg C)] .
- C. Install resilient products after other finishing operations, including painting, have been completed.

**PART 2 - PRODUCTS**

2.1 VINYL BASE

- A. Product Standard: ASTM F1861, Type TV (vinyl, thermoplastic).
  - 1. Group: **I (solid, homogeneous)**.
  - 2. Style and Location:
    - a. Style B, Cove.
- B. Minimum Thickness: **0.125 inch (3.2 mm)**.
- C. Height: **6 inches (152 mm)**.
- D. Lengths: **Cut lengths 48 inches (1219 mm) long or coils in manufacturer's standard length.**
- E. Outside Corners: **Preformed**.
- F. Inside Corners: **Preformed**.
- G. Colors and Patterns: Selected by Architect from manufacturers full range.

2.2 VINYL STAIR ACCESSORIES

- A. Fire-Test-Response Characteristics: As determined by testing identical products according to ASTM E648 or NFPA 253 by a qualified testing agency.
  - 1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.
- B. Stair Treads: ASTM F2169, Type TV (vinyl, thermoplastic).



1. Class: **2 (pattern; embossed, grooved, or ribbed).**
  2. Group: **1 (embedded abrasive strips and with contrasting color for the visually impaired).**
  3. Nosing Style: **Square.**
  4. Nosing Height: **1-1/2 inches (38 mm).**
  5. Thickness: **1/4 inch (6 mm) and tapered to back edge.**
  6. Size: Lengths and depths to fit each stair tread in **one piece.**
- C. Separate Risers: Smooth, flat; in height that fully covers substrate; produced by same manufacturer as treads and recommended by manufacturer for installation with treads.
1. Style: **Toeless, by length matching treads.**
  2. Thickness: **0.125 inch (3.2 mm).**
- D. Landing Tile: **Matching treads; produced by same manufacturer as treads and recommended by manufacturer for installation with treads Stairs 101A, 128, 201 and 209.**
- E. Locations: **Provide vinyl stair accessories in areas indicated.**
- F. Colors and Patterns: **As indicated by manufacturer's designations. Match Architect's sample.**

## 2.3 VINYL MOLDING ACCESSORY

- A. Description: Vinyl cap for cove resilient floor covering carpet edge for glue-down applications, nosing for carpet, nosing for resilient floor covering, reducer strip for resilient floor covering, joiner for tile and carpet, transition strips.
- B. Profile and Dimensions: **As indicated on drawings.**
- C. Locations: **Provide vinyl molding accessories in areas indicated.**
- D. Colors and Patterns: As selected from manufacturers standard colors.

## 2.4 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, portland-cement-based or blended hydraulic-cement-based formulation provided or approved by resilient-product manufacturer for applications indicated.
- B. Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.
- C. Stair-Tread Nose Filler: Two-part epoxy compound recommended by resilient stair-tread manufacturer to fill nosing substrates that do not conform to tread contours.
- D. Metal Edge Strips: **Extruded aluminum with mill finish**, nominal **2 inches (50.8 mm)** wide, of height required to protect exposed edges of flooring, and in maximum available lengths to minimize running joints.

- E. Floor Polish: Provide protective, liquid floor-polish products recommended by resilient stair-tread manufacturer.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
  - 1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
  - 1. Installation of resilient products indicates acceptance of surfaces and conditions.

#### 3.2 PREPARATION

- A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.
- B. Concrete Substrates for Resilient Stair Accessories: Prepare horizontal surfaces according to ASTM F710.
  - 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
  - 2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
  - 3. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrate alkalinity falls within range on pH scale recommended by manufacturer in writing, but not less than 5 or more than 9 pH.
  - 4. Moisture Testing: Perform tests so that each test area does not exceed **1000 sq. ft. (304.8 sq. m)**, and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.
    - a. Anhydrous Calcium Chloride Test: ASTM F1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of [**3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m)**] in 24 hours.
    - b. Relative Humidity Test: Using in-situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum [75] percent relative humidity level measurement.
- C. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.

- D. Do not install resilient products until materials are the same temperature as space where they are to be installed.
  - 1. At least 48 hours in advance of installation, move resilient products and installation materials into spaces where they will be installed.
- E. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient products.

### 3.3 RESILIENT BASE INSTALLATION

- A. Comply with manufacturer's written instructions for installing resilient base.
- B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.
- C. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.
- D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
- E. Do not stretch resilient base during installation.
- F. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient base with manufacturer's recommended adhesive filler material.
- G. Preformed Corners: Install preformed corners before installing straight pieces.

### 3.4 RESILIENT ACCESSORY INSTALLATION

- A. Comply with manufacturer's written instructions for installing resilient accessories.
- B. Resilient Stair Accessories:
  - 1. Use stair-tread-nose filler to fill nosing substrates that do not conform to tread contours.
  - 2. Tightly adhere to substrates throughout length of each piece.
  - 3. For treads installed as separate, equal-length units, install to produce a flush joint between units.
- C. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of floor covering that would otherwise be exposed.

### 3.5 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protecting resilient products.

- B. Perform the following operations immediately after completing resilient-product installation:
  - 1. Remove adhesive and other blemishes from surfaces.
  - 2. Sweep and vacuum horizontal surfaces thoroughly.
  - 3. Damp-mop horizontal surfaces to remove marks and soil.
- C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.
- D. Floor Polish: Remove soil, adhesive, and blemishes from resilient stair treads before applying liquid floor polish.
  - 1. Apply [**two** coat(s)].
- E. Cover resilient products subject to wear and foot traffic until Substantial Completion.

**END OF SECTION 096513**