

ADDENDUM TO BIDDING DOCUMENTS

FSU Parking Deck

Project No. 21611.44

Date: April 16, 2025

Re: Addendum #2



DUDA | PAINE
ARCHITECTS

333 Liggett Street
Durham, NC 27701
919.688.5133
dudapaine.com

General: This Addendum is issued to clarify and/or modify the previously issued Bid documents and is hereby made part of the Bid Documents. All requirements of the Bid Documents not modified herein shall remain in full force and effect as originally set forth. Please attach this Addendum to the Documents in your possession and acknowledge receipt thereof in the space provided on the Proposal agreement.

New specification language has been underlined. Removed specification language has been struck through.

1. The **NEW** Official Bid date is May 7th, 2025 at 3pm at Fayetteville State University, Attn: Harold Miller, Planning and Construction, FSU Business HUB 1073 Murchison Road, Fayetteville, NC 28301.
2. Per new bid date above - Last Day for question will be April 28th 2025 at Noon. We will issue a final addendum at 3pm on April 30th 2025.
3. **Project Manual:**
 - a. Revised section 00 0110-Table of Contents to remove section 07 8100-Applied Fire Protection. Added section 07 2400-Exterior Insulation and Fire Systems and 00 0121-Form of Bid Bond
4. **Bidder Questions:**
 - a. Question 1: Attached is our proposal for the elevator supply & installation at FSU Parking Deck Project. The quote includes all relevant specifications, pricing, and timelines. Please review and let us know if you have any questions or need modifications.
 - i. Answer: All proposals must be submitted through the State Construction Process for North Carolina on the bid date.
 - b. Question 2: Can I get a copy of any addenda that have been released to date? What is the estimated construction budget? Can I get a copy of the mandatory pre-bid meeting sign in sheet and/or plan holder's list if available?



DUDA | PAINE
ARCHITECTS

333 Liggett Street
Durham, NC 27701
919.688.5133
dudapaine.com

- i. Answer: The answers are located within the Addendum #1. This is the second addendum issued. Construction target of 8.1 M with 1M in approved flex funds. A copy of the sign in sheet and plan holder list is released in addendum 1 and the updated plan holder list is attached.
- c. Question 3: Could you send me a list of all the bidding General Contractors for this project, please?
 - i. Answer: An updated plan holder list is attached to this addendum #2.
- d. Question 4: I wanted to touch base with you to see if Atlas EnergyShield XR, Pro or any of our other cutting-edge products could be added into Section 072100 Thermal Insulation of your specifications. Our products meet and exceed all criteria for both above and below-grade applications
 - i. Answer: Specs will not be amended to include specific products. Approved equal substitutions will be considered if submitted by the General Contractor.
- e. Question 5: Can the sheeting and shoring along the east side of project required for foundation excavation adjacent to MLK be left in place permanently?
 - i. Answer: Given the density of subgrade utilities in this area sheeting and shoring will need to be removed.
- f. Question 6: Will MLK Drive be closed for the full duration of the project?
 - i. Answer: MLK needs to remain open as much as is possible during construction. That said, longer stretches of closure are expected as there is significant work in portions of the street.
- g. Question 7: It is our opinion that adequate time is not being allowed to bid this project due to the complexities of site construction. We respectfully request a 2 week postponement of the bid date.
 - i. Answer: Bid will be moved to May 7th, 2025 at 3pm at Fayetteville State University, Attn: Harold Miller, Planning and Construction, FSU Business HUB 1073 Murchison Road, Fayetteville, NC 28301
- h. Question 8: What is the extent of the traffic coating (07 1800)? The only place we find it is on Level 2 (A102) directly above Electrical and Data rooms below.
 - i. Answer: That is correct, only directly above the Electrical and Data rooms.
- i. Question 9: Please provide a detail showing how the floor and area drains are to be installed in the Precast Structure.
 - i. Answer: Block-outs for floor and area drains to be

coordinated with precast manufacturer. Floor drains to be installed using the standard details provided by the manufacturer.

- j. Question 10: Please provide a plan view where all sloped PIP concrete washout conditions occur.
 - i. Answer: Per Typical Details, concrete wash to occur at Double Tee supports. Provide at around building perimeter perpendicular and parallel to Double Tee's, at lite wall supports of Double Tees, and at ITB supports of Double Tees.
- k. Question 11: RE: Section 7/S503: Please provide details and amount of chord reinforcing required in sloping concrete wash?
 - i. Answer: Per 7/S503 the chord reinforcing is by precast concrete manufacturer.
- l. Question 12: Please specify the material to be used for section 03 3511. Does this go everywhere or only on Slab on Grade (SOG)?
 - i. Answer: This spec only applies to the slab in the electrical/data rooms and elevator control room.
- m. Question 13: The Structural drawings do not seem to delineate between base bid and Alternate 01. Please clarify.
 - i. Answer: Add Alt 01 is an additional ½ level of parking on Level 3. We have designed the foundations for the worst case of maximum loading. The foundation design remains the same whether or not Add Alt 01 is selected.
- n. Question 14: Please provide roof framing plan and details for the Sair at Column Grid A7.
 - i. Answer: The roof structure for both stairs is a precast panel. The details for the stair can be found on A322, A311, and A511
- o. Question 15: Which Elevator company has the Campus Elevator Service Contract?
 - i. Answer: The university has a service contract with DC Elevator.
- p. Question 16: Please consider waiving the AISC Certification Requirement in Section 05 5213, since these railings are non-structural. (We cannot find any certified fabricators who are bidding).
 - i. Answer: We are open to waiving the AISC Certification requirement, but reserve the right to third party inspection, verification, or certification.
- q. Question 17: Please clarify the extent of High Performance Paint per GNA on A321. Is it only stairs and Handrails? Does it occur on walls?



DUDA | PAINE
ARCHITECTS

333 Liggett Street
Durham, NC 27701
919.688.5133
dudapaine.com



DUDA | PAINE
ARCHITECTS

333 Liggett Street
Durham, NC 27701
919.688.5133
dudapaine.com

- i. Answer: Only stairs and handrails. No walls.
- r. Question 18: Please provide missing specifications section 07 2400 for EFIS?
 - i. Answer: See attached 07 2400-Exterior Insulation and Fire Systems.
- s. Question 19: Where does Applied Fire Protection (07 8100) occur? What needs to be protected?
 - i. Answer: Section 07 8100 has been removed from the project manual.
- t. Question 20: Can you provide an updated list of plan holders:
 - i. Answer: Please see attached updated plan holders list
- u. Question 21: Please clarify the width of sloped concrete wash: 1/A311 indicates 24", while 7/S503 indicates 36".
 - i. Answer: 36"
- v. Question 22: Please provide plans for the reconstruction of MLK Drive. Please confirm if details 8 and 15 on Drawings C8.00 are to be used.
 - i. Answer: MLK drive should be returned to its existing grade. Trenches will need to be cut to install utilities, and a mill and overlay should be used along areas within the LOD. Detail 8 is a steel pipe bollard; these have since been removed from the project. Detail 15 is a curb & gutter detail which should be used where new C&G is proposed.
- w. Question 23: Re: "Retaining Wall Notes" on Drawing C3.00: Where are segmental concrete blocking retaining walls required?
 - i. Answer: There are no segmental block walls. The wall stemming out of the garage on the NW corner is CIP.
- x. Question 24: We are not clear regarding the color required for the architectural precast concrete. The suppliers have requested that a selection be made from the PCI Color and Selection Guide. https://www.pci.org/PCI/PCI/Design_Resources/Color_Texture_Guide/Search.aspx
 - i. Answer: The intent is that the color be the darkest color provided by the manufacturer that is in their standard color palate. Once a manufacturer is identified we will work within their standard colors to make the specific selection.
- y. Question 25: It looks like unit pavers are to be installed, but the extent is not clear. Also, no detail or spec has been found. In order for the subcontractors to bid this project, the limit of unit pavers & a detail with product info has to be provided.
 - i. Answer: The brick paver extents are shown on G2.00. The

total square footage is 2,213 sf. They are limited to the south side of the building. These pavers are called out on the plans for the pattern and brick to match the existing brick. FSU will need to provide some information regarding what the campus standard is.

5. Attachments:

- a. Plan Holder List
- b. Project Manual Specification Sections:
 - i. Revised 00 0110 – Table of Contents
 - ii. Removal 07 8100 - Applied Fire Protection.
 - iii. Added 00 0121 - Form of Bid Bond
 - iv. Added 07 2400 - Exterior Insulation and Fire Systems



DUDA | PAINE
ARCHITECTS

333 Liggett Street
Durham, NC 27701
919.688.5133
dudapaine.com

End of Document

FSU Plan Holer List

Oranization Name - Individual Name	Email address
UES - Sanders Howell	showell@teamues.com
Watertight Systems, Inc. - Andy Price	andy@watertightsystems.com
Stone Restoration of America - CJ Reed	creed@stoneres.com
Minuteman Security & Life Safety - Sloane Belue	sbelue@minutemanst.com
Restocon - Jonathan Croft	jcroft@restocon.com
Construction Connect - Marie San Juan	Marie.SanJuan@constructconnect.com
Allied Solutions Enterprise - Jason Collier	contracts@alliedsolutionenterprise.com
M-R Electric & Security Alarms, Inc.- Jacqueline Maynor	jlmrelec@nc.rr.com
Kevin K. Jacobs General Contracting, Inc. - Kevin	info@kkjgc.com
NovaTech - Sandy Jenkins	sjenkins@novatechnologiesgrp.com
Triangle Lighting Solutions - Tom Salter	Tom@TriangleLightingSolutions.com
PWX Press - Mary Miller	bids@pwxpress.com
Swinerton - Kyle Bailey	kyle.bailey@swinerton.com
Dodge Construction Network - Anne Therese Abad	Anne.Abad@construction.com
The Innovation Contracting Group, LLC - Karina Morel	kmorel@icg-usa.com
8M Solar - Faseeh Hadeed	f.hadeed@8msolar.com
Central Concrete - Andrew Sousa	andrew@centralconcretenc.com
Duke McGinnis - Camilla Hester	cnryan875@gmail.com
Contracting Specialists Incorporated - Caroline Woodard	caroline@contractingspecialists.com
JM Thompson - Jeffrey Stain	jstain@jmthompson.com
Performance Glass, Inc. - Lewis Fisher	lewis@performanceglassinc.com
Construction Connect - Eric France	Erica.France@ConstructConnect.com
Keller - Mary Susan Jackson	Mary-Susan.Jackson@keller-na.com
Swinerton Builders	Steve.raper@swinerton.com
JM Thompson	Jstain@jmthompson.com
M&E Contracting, Inc	Ryan@m-eci.com
Kevin K Jacobs GENERAL CONTRACTING Inc	Info@kkjgc.com
Fayetteville State University	Jmclain2@uncfsu.edu
JM Thompson - Brian Armstrong	barmstrong@jmthompson.com
JM Thompson - Mark Abbott	mabbott@jmthompson.com
JM Thompson - Ken Garrard	kgerrard@jmthompson.com
Minuteman Security & Life Safety - Howard Hutchinson	hhutchinson@minutemanst.com
Restocon - Jeromy Magill	j.magill@restocon.com
Dodge Construction Network - Brenda Cusack	brenda.cusack@construction.com



DUDA | PAINE
ARCHITECTS

333 Liggett Street
Durham, NC 27701
919.688.5133
dudapaine.com

Advanced Concrete - Tracey Florence	t.florence@advance-concrete.com
Carolina Time & Parking Group - Ali Clough	ali.clough@carolinatime.net
Msquare Construction, Inc. - Samantha Locklear	slocklear@msquareus.com
Msquare Construction, Inc. - Estimating	estimating@msquareus.com
Msquare Construction, Inc. - Marty Rentschler	MRentschler@msquareus.com
Whiting-Turner - Richard K. Wood	Rick.Wood@whiting-turner.com
J.M Thompson - Jeffrey Stain	JStain@jmthompson.com
J.M Thompson - Brian Armstrong	barmstrong@jmthompson.com
J.M Thompson - Jolen McKay	jmckay@jmthompson.com
Kaiser - Brooke Anderson	estimating@kaiserelevator.com
Raleigh East Concrete - Sarah Ide	sarah@raleigheastconcrete.com
Atlas Roofing Corporation - Ed Yesu	eyesu@atlasroofing.com



DUDA | PAINE
ARCHITECTS

333 Liggett Street
Durham, NC 27701
919.688.5133
dudapaine.com

**SECTION 00 0110
TABLE OF CONTENTS**

PROCUREMENT AND CONTRACTING REQUIREMENTS

1.01 DIVISION 00 -- PROCUREMENT AND CONTRACTING REQUIREMENTS

- 00 0107 - Seals Page
- 00 0108 - News Paper Advertisement
- 00 0109 - Notice to Bidders
- 00 0110 - Table of Contents
- 00 0111 - Instructions to Bidders and General Conditions
- 00 0112 - Supplemental General Conditions
- 00 0113 - Guidelines for MBE Participation
- 00 0115 - Subsurface Investigation Report Hazardous, Materials Survey
- 00 0116 - Statement of Special Inspections
- 00 0119 - Form of Proposal
- 00 0120 - MBE Contractors List and Affidavits A-D
- 00 0121 - Form of Bid Bond
- 00 0122 - Form of Construction Contract
- 00 0123 - Form of Performance Bond
- 00 0124 - Form of Payment Bond
- 00 0125 - Sheet for Attaching Power of Attorney
- 00 0126 - Sheet for Attaching Certificates of Insurance
- 00 0127 - Approval of the Attorney General
- 00 0128 - Office of State Budget and Management
- 00 3100 - Available Project Information
- 00 5000 - Contracting Forms and Supplements
- 00 6325 - Substitution Request Form - During Construction

SPECIFICATIONS

2.01 DIVISION 01 -- GENERAL REQUIREMENTS

- 01 1000 - Summary
- 01 2000 - Price and Payment Procedures
- 01 2300 - Alternates
- 01 2500 - Substitution Procedures
- 01 3000 - Administrative Requirements
- 01 3114 - Facility Services Coordination
- 01 3216 - Construction Progress Schedule

- 01 3329.04 - Material Content Form
- 01 3329.07 - Prohibited Content Installer Certification
- 01 4000 - Quality Requirements
- 01 4100 - Special Inspection Services
- 01 4533 - Code-Required Special Inspections and Procedures
- 01 5000 - Temporary Facilities and Controls
- 01 5719 - Temporary Environmental Controls
- 01 6000 - Product Requirements
- 01 6116 - Volatile Organic Compound (VOC) Content Restrictions
- 01 7000 - Execution and Closeout Requirements
- 01 7419 - Construction Waste Management and Disposal
- 01 7800 - Closeout Submittals
- 01 7900 - Demonstration and Training
- 01 9113 - General Commissioning Requirements
- 01 9114 - Commissioning Authority Responsibilities
- 01 9913 - General Requirements for Divisions 22-28 Work
- 01 9919 - Excavation for Divisions 22-28 Work
- 01 9926 - Owner instruction and Training for Divisions 22-28

2.02 DIVISION 02 -- EXISTING CONDITIONS

- 02 4100 - Demolition

2.03 DIVISION 03 -- CONCRETE

- 03 0516 - Underslab Vapor Barrier
- 03 1000 - Concrete Forming and Accessories
- 03 2000 - Concrete Reinforcing
- 03 3000 - Cast-in-Place Concrete
- 03 3511 - Concrete Floor Finishes
- 03 4100 - Precast Structural Concrete

2.04 DIVISION 04 -- MASONRY

- 04 2000 - Unit Masonry

2.05 DIVISION 05 -- METALS

- 05 5000 - Metal Fabrications
- 05 5213 - Pipe and Tube Railings
- 05 5200 - Barrier Cable System

2.06 DIVISION 06 -- WOOD, PLASTICS, AND COMPOSITES

2.07 DIVISION 07 -- THERMAL AND MOISTURE PROTECTION

- 07 0553 - Fire and Smoke Assembly Identification
- 07 1300 - Sheet Waterproofing

- 07 1616 - Crystalline Waterproofing
- 07 1800 - Traffic Coatings
- 07 2100 - Thermal Insulation
- 07 2400 – Exterior Insulation and Finish Systems
- 07 2600 - Vapor Retarders
- 07 2700 - Aire Barriers
- 07 5400 - Thermoplastic Membrane Roofing
- 07 6200 - Sheet Metal Flashing and Trim
- ~~07 8100 - Applied Fire Protection~~
- 07 8400 - Firestopping
- 07 9100 - Preformed Joint Seals
- 07 9200 - Joint Sealants

2.08 DIVISION 08 -- OPENINGS

- 08 1113 - Hollow Metal Doors and Frames
- 08 4313 - Aluminum-Framed Storefronts
- 08 7100 - Door Hardware
- 08 8000 - Glazing

2.09 DIVISION 09 -- FINISHES

- 09 0561 - Common Work Results for Flooring Preparation
- 09 9113 - Exterior Painting
- 09 9150 - Traffic Stripping Paint
- 09 9600 - High-Performance Coatings

2.10 DIVISION 10 -- SPECIALTIES

- 10 1423 - Panel Signage
- 10 2213 - Wire Mesh Partitions
- 10 4400 - Fire Protection Specialties

2.11 DIVISION 11 -- EQUIPMENT

2.12 DIVISION 12 -- FURNISHINGS

2.13 DIVISION 13 -- SPECIAL CONSTRUCTION

2.14 DIVISION 14 -- CONVEYING EQUIPMENT

- 14 2100 - Electric Traction Elevators

2.15 DIVISION 21 -- FIRE SUPPRESSION

2.16 DIVISION 22 -- PLUMBING

- 22 0210 - Plumbing Summary of Work
- 22 0510 - Plumbing Basic Requirements
- 22 0511 - Electrical Provisions for Plumbing Work
- 22 0517 - Sleeves and Sleeve Seals for Plumbing Piping
- 22 0529 - Plumbing Hangers and Supports

- 22 0533 - Heat Tracing for Plumbing Piping
- 22 0553 - Plumbing Painting and Identification
- 22 0700 - Plumbing Insulation
- 22 1116 - Domestic Water Distribution Piping
- 22 1416 - Storm Water Piping
- 22 1429 - Sump Pumps

2.17 DIVISION 23 -- HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)

- 23 0210 - HVAC Summary of Work
- 23 0510 - HVAC Basic Requirements
- 23 0511 - Electrical Provisions for HVAC Work
- 23 0513 - Electrical Motors for HVAC Equipment
- 23 0517 - Sleeves and Sleeve seals for HVAC Piping
- 23 0529 - Hangers and Supports for Piping, Ductwork and Equipment
- 23 8116 - Ductless Split System Air-Conditioning Units

2.18 DIVISION 25 -- INTEGRATED AUTOMATION

2.19 DIVISION 26 -- ELECTRICAL

- 26 0000 - Summary of Electrical Work
- 26 0500 - Basic Electrical Requirements
- 26 0513 - Primary Voltage Distribution Power Cables
- 26 0519 - Secondary Voltage Wires and Cables
- 26 0526 - Grounding
- 26 0529 - Supporting Devices
- 26 0533 - Electrical Identification
- 26 0534 - Raceways
- 26 0535 - Electrical Boxes and Fittings
- 26 0543 - Underground Duct and Raceways for Electric Systems
- 26 0579 - Temporary Power and Lighting
- 26 0593 - Electrical Connections for Equipment
- 26 0800 - Testing and Placing in Services
- 26 0923 - Lighting Control Devices
- 26 1200 - Medium Voltage Transformers
- 26 2416 - Panelboards
- ~~26 2653 - Electric Vehicle Charging Equipment~~
- 26 2726 - Wiring Devices
- 26 4313 - Surge Protective Devices (SPD)
- 26 5000 - Lighting Fixtures

2.20 DIVISION 27 -- COMMUNICATIONS

Table of Contents

27 0528 - Telephone Raceway System

27 2000 - Telephone Data System

27 5124 – Emergency Telephones

2.21 DIVISION 28 -- ELECTRONIC SAFETY AND SECURITY

28 3100 – Fire Alarm Systems

2.22 DIVISION 31 -- EARTHWORK

31 1000 - Site Clearing

31 2000 - Earth Moving

31 2319 - Dewatering

31 6100 - Aggregate Piers

2.23 DIVISION 32 -- EXTERIOR IMPROVEMENTS

32 1216 - Asphalt Paving

32 1313 - Concrete Paving

32 1373 - Concrete Paving Joint Sealants

32 9200 - Turf and Grasses

32 9300 - Plants

2.24 DIVISION 33 -- UTILITIES

33 1000 - Water Utilities

33 3000 - Sanitary Sewerage Utilities

33 4100 - Storm Utility Drainage

33 4200 - Subdrainage

2.25 DIVISION 34 -- TRANSPORTATION

2.26 DIVISION 40 -- PROCESS INTEGRATION

2.27 DIVISION 46 -- WATER AND WASTEWATER EQUIPMENT

END OF SECTION 00 0110

FORM OF BID BOND

KNOW ALL MEN BY THESE PRESENTS THAT _____

_____ as principal, and _____, as surety, who is duly licensed to act as surety in North Carolina, are held and firmly bound unto the State of North Carolina* through _____ as obligee, in the penal sum of _____ DOLLARS, lawful money of the United States of America, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this ____ day of ____ 20__

WHEREAS, the said principal is herewith submitting proposal for and the principal desires to file this bid bond in lieu of making the cash deposit as required by G.S. 143-129.

NOW, THEREFORE, THE CONDITION OF THE ABOVE OBLIGATION is such, that if the principal shall be awarded the contract for which the bid is submitted and shall execute the contract and give bond for the faithful performance thereof within ten days after the award of same to the principal, then this obligation shall be null and void; but if the principal fails to so execute such contract and give performance bond as required by G.S. 143-129, the surety shall, upon demand, forthwith pay to the obligee the amount set forth in the first paragraph hereof. Provided further, that the bid may be withdrawn as provided by G.S. 143-129.1

_____(SEAL)

_____(SEAL)

_____(SEAL)

_____(SEAL)

_____(SEAL)

*(Community college projects: Delete State of North Carolina as owner and replace with community college name.)

**SECTION 07 2400
EXTERIOR INSULATION AND FINISH SYSTEMS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Composite wall and soffit cladding of rigid insulation and reinforced finish coating, Class PB.
- B. Drainage and water-resistive barriers behind insulation board.
- C. Incidental uses of same finish coating applied directly to concrete and masonry.

1.02 RELATED REQUIREMENTS

- A. Section 05 4000 - Cold-Formed Metal Framing: Sheathing on metal studs.
- B. Section 07 6200 - Sheet Metal Flashing and Trim: Perimeter flashings.
- C. Section 07 9200 - Joint Sealants: Sealing joints between EIFS and adjacent construction and penetrations through EIFS.

1.03 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Convene at least one week before starting work of this section.
 - 1. Review preparation and installation procedures and coordinating and scheduling required with related work.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide data on system materials, product characteristics, performance criteria, and system limitations.
- C. Shop Drawings: Indicate wall and soffit joint patterns, joint and flashing details, and molding profiles.
- D. Verification Samples: Submit actual samples of selected coating on specified substrate, minimum 12 inches square, illustrating project colors and textures.
- E. Installer's Qualification Statement.
- F. Manufacturer's Installation Instructions: Indicate preparation required, installation techniques, and jointing requirements.

1.05 QUALITY ASSURANCE

- A. Maintain copy of specified installation standard and manufacturer's installation instructions at project site during installation.
- B. EIFS Manufacturer Qualifications: Provide EIFS products other than insulation from the same manufacturer with qualifications as follows:
 - 1. Member in good standing of EIMA (EIFS Industry Members Association).
 - 2. Manufacturer of EIFS products for not less than 5 years.
- C. Insulation Manufacturer Qualifications: Approved by manufacturer of EIFS and approved and labeled under third party quality program as required by applicable building code.
- D. Installer Qualifications: Company specializing in the type of work specified and with at least three years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to project site in manufacturer's original, unopened containers with labels intact. Inspect materials and notify manufacturer of any discrepancies.
- B. Storage: Store materials as directed by manufacturer's written instructions.
 - 1. Protect adhesives and finish materials from freezing, temperatures below 40 degrees F and temperatures in excess of 90 degrees F.

FSU Parking Deck
 Bid Set
 Duda|Paine Architects - 22303
 SCO ID #: 23-26220-02-A

2. Protect insulation materials from exposure to sunlight.

1.07 FIELD CONDITIONS

- A. Do not prepare materials or apply EIFS under conditions other than those described in the manufacturer's written instructions.
- B. Do not prepare materials or apply EIFS during inclement weather unless areas of installation are protected. Protect installed EIFS areas from inclement weather until dry.
- C. Do not install coatings or sealants when ambient temperature is below 40 degrees F.
- D. Do not leave installed insulation board exposed to sunlight for extended periods of time.

1.08 WARRANTY

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
- B. Provide manufacturer's standard material warranty, covering a period of not less than 5 years.
- C. Provide separate warranty from installer covering labor for repairs or replacement for a period of not less than 5 years.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturers:
 1. Dryvit Systems, Inc; Dryvit Outsulation Plus MD EIFS, Class PB with Moisture Drainage: www.dryvit.com/#sle.
 2. Sto Corp; StoTherm ci: www.stocorp.com/#sle.
 3. Substitutions: See Section 01 6000 - Product Requirements.

2.02 EXTERIOR INSULATION AND FINISH SYSTEM

- A. Exterior Insulation and Finish System: DRAINAGE type; reinforced finish coating on flat-backed insulation board adhesive-applied directly to water-resistive coating over substrate; provide a complete system that has been tested to show compliance with the following characteristics; include all components of specified system and substrate(s) in tested samples.
- B. Allowable Wind Loading: At least 40 psf, positive and negative, determined in accordance with $\{rs\#1\}$ or 16 CFR 1201 using factor of safety of 3.0.
- C. Fire Characteristics:
 1. Flammability: Pass, when tested in accordance with NFPA 285.
 2. Ignitibility: No sustained flaming when tested in accordance with NFPA 268.
 3. Potential Heat of Foam Plastic Insulation Tested Independently of Assembly: No portion of the assembly having potential heat that exceeds that of the insulation sample tested for flammability (above), when tested in accordance with NFPA 259 with results expressed in Btu per square foot.
- D. Adhesion of Water-Resistive Coating to Substrate: For each combination of coating and substrate, minimum flatwise tensile bond strength of 15 psi, when tested in accordance with ASTM C297/C297M.
- E. Adhesion to Water-Resistive Coating: For each combination of insulation board and substrate, when tested in accordance with ASTM C297/C297M, maximum adhesive failure of 25 percent unless flatwise tensile bond strength exceeds 15 psi in all samples.
- F. Water Penetration Resistance: No water penetration beyond the plane of the base coat/insulation board interface after 15 minutes, when tested in accordance with ASTM E331 at 6.24 psf differential pressure with tracer dye in the water spray; include in tested sample at least two vertical joints and one horizontal joint of same type to be used in construction; disassemble sample if necessary to determine extent of water penetration.
- G. Drainage Efficiency: Average minimum efficiency of 90 percent, when tested in accordance with ASTM E2273 for 75 minutes.

FSU Parking Deck
 Bid Set
 Duda|Paine Architects - 22303
 SCO ID #: 23-26220-02-A

- H. Salt Spray Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating after 300 hours exposure in accordance with ASTM B117, using at least three samples matching intended assembly, at least 4 by 6 inches in size.
- I. Freeze-Thaw Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating when viewed under 5x magnification after 10 cycles, when tested in accordance with ICC-ES AC219 or ICC-ES AC235.
- J. Weathering Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating when viewed under 5x magnification after 2000 hours of accelerated weathering conducted in accordance with ASTM G153 Cycle 1 or ASTM G155 Cycles 1, 5, or 9.
- K. Water Degradation Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating after 14 days exposure, when tested in accordance with ASTM D2247.
- L. Mildew Resistance: No growth supported on finish coating during 28 day exposure period, when tested in accordance with ASTM D3273.
- M. Abrasion Resistance Of Finish: No cracking, checking or loss of film integrity when tested in accordance with ASTM D968 with 113.5 gallons of sand.
- N. Impact Resistance: Construct system to provide the following impact resistance without exposure of broken reinforcing mesh, when tested in accordance with ASTM E2486/E2486M:
 - 1. Standard: 25 to 49 in-lb, for areas not indicated as requiring higher impact resistance.

2.03 MATERIALS

- A. Finish Coating Top Coat: Water-based, air curing, acrylic or polymer-based finish with integral color and texture.
 - 1. Texture: Fine.
 - 2. Color: As scheduled.
- B. Base Coat: Fiber-reinforced, acrylic or polymer-based product compatible with insulation board and reinforcing mesh, Class PB.
- C. Reinforcing Mesh: Balanced, open weave glass fiber fabric, treated for compatibility and improved bond with coating, weight, strength, and number of layers as required to meet required system impact rating.
- D. Drainage Layer or Spacers: Furnished or approved by EIFS manufacturer; capable of achieving specified drainage rate; not required to be water-resistive, air retarder, or vapor retarder.
- E. Water-Resistive Barrier Coating: Fluid-applied air and water barrier membrane; applied to sheathing; furnished or approved by EIFS manufacturer.
- F. Fluid-Applied Flashing: Flexible water based polymer material suitable for use with reinforcing mesh and, if used with water-resistive barrier sheet, certified compatible with sheet material.
- G. Flashing Tape: Self-adhering rubberized asphalt tape with polyethylene backing or other material and surface conditioner furnished or approved by EIFS manufacturer.

2.04 ACCESSORIES

- A. Insulation Adhesive: Type required by EIFS manufacturer for project substrate.
- B. Metal Flashings: See Section 07 6200.
- C. Sealant Materials: Compatible with EIFS materials and as recommended by EIFS manufacturer.

FSU Parking Deck
Bid Set
Duda|Paine Architects - 22303
SCO ID #: 23-26220-02-A

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that substrate is sound and free of oil, dirt, other surface contaminants, efflorescence, loose materials, or protrusions that could interfere with EIFS installation and is of a type and construction that is acceptable to EIFS manufacturer. Do not begin work until substrate and adjacent materials are complete and thoroughly dry.
- B. Verify that substrate surface is flat, with no deviation greater than 1/4 in when tested with a 10 ft straightedge.

3.02 PREPARATION

- A. Apply primer to substrate as recommended by EIFS manufacturer for project conditions.

3.03 INSTALLATION - GENERAL

- A. Install in accordance with EIFS manufacturer's instructions and ASTM C1397.
 - 1. Where different requirements appear in either document, comply with the most stringent.
 - 2. Neither of these documents supercedes provisions of Contract Documents that defines contractual relationships between parties or scope of this work.

3.04 INSTALLATION - WATER-RESISTIVE BARRIER

- A. Apply barrier coating as recommended by coating manufacturer; prime substrate as required before application.
- B. Seal substrate transitions and intersections with other materials to form continuous water-resistive barrier on exterior of sheathing, using method recommended by manufacturer.
- C. At door and window rough openings and other wall penetrations, seal water-resistive barrier and flexible flashings to rough opening before installation of metal flashings, sills, or frames, using method recommended by manufacturer.
- D. Lap flexible flashing or flashing tape at least 2 inches on each side of joint or transition.
- E. Install drainage layer or spacers after flashing tape has been completed.

3.05 INSTALLATION - INSULATION

- A. Install in accordance with manufacturer's instructions.
- B. Prior to installation of boards, install starter track and other trim level and plumb and securely fastened. Install only in full lengths, to minimize moisture intrusion; cut horizontal trim tight to vertical trim.
- C. Install back wrap reinforcing mesh at all openings and terminations that are not to be protected with trim.
- D. On wall surfaces, install boards horizontally.
- E. Place boards in a method to maximize tight joints. Stagger vertical joints and interlock at corners. Butt edges and ends tight to adjacent board and to protrusions. Achieve a continuous flush insulation surface, with no gaps in excess of 1/16 inch.
- F. Provide architectural reveals as indicated in drawings.
- G. Fill gaps greater than 1/16 inch with strips or shims cut from the same insulation material.
- H. Rasp irregularities off surface of installed insulation board.
- I. Adhesive Attachment: Use method required by manufacturer to achieve drainage efficiency specified; do not close up drainage channels when placing insulation board.

3.06 INSTALLATION - CLASS PB FINISH

- A. Base Coat: Apply in thickness as necessary to fully embed reinforcing mesh, wrinkle free, including back-wrap at terminations of EIFS. Install reinforcing fabric as recommended by EIFS manufacturer.

FSU Parking Deck
Bid Set
Duda|Paine Architects - 22303
SCO ID #: 23-26220-02-A

1. Lap reinforcing mesh edges and ends a minimum of 2-1/2 inches.
 2. Allow base coat to dry a minimum of 24 hours before next coating application.
- B. Install expansion joints at floor lines as recommended by EIFS manufacturer.
 - C. Apply finish coat after base coat has dried not less than 24 hours, embed finish aggregate, and finish to a uniform texture and color.
 - D. Finish Coat Thickness: As recommended by manufacturer.
 - E. Seal control and expansion joints within the field of exterior finish and insulation system, using procedures recommended by sealant and finish system manufacturers.

3.07 CLEANING

- A. See Section 01 7000 - Execution and Closeout Requirements for additional requirements.
- B. Clean EIFS surfaces and work areas of foreign materials resulting from EIFS operations.

3.08 PROTECTION

- A. Protect completed work from damage and soiling by subsequent work.

END OF SECTION