July 19, 2018

Renovation with Addition to Building D and Renovation of Building V, Orange Park Campus
St. Johns River State College

Architect's Job Number: 015R01
BID-SJR-01-2018

ADDENDUM 1
All items in the Addendum are incorporated into the Contract Documents.

Item 1.
List of attendees at the Pre-Bid Meeting and Site Visit on Thursday, June 28th, 2018:

Melissa Miller, St. Johns River State College
Anna Lebesch, St. Johns River State College
Mike Canaday, St. Johns River State College
Tom Reynolds, St. Johns River State College
Beverly Barker, St. Johns River State College
Glen Roberts, St. Johns River State College
Robert C. Goodwin, CRG Architects/Palatka, Inc.
Joseph Kuehmeier, CRG Architects/Palatka, Inc.
Robert Reyes, General Mechanical Corporation
Scott Gattsall, Foresight CGI
Charles Rossi, Native American Services Corp.
Mark Staschke, E. Vaughan Rivers Construction, Inc.
David Sypniewski, ACON Construction Co., Inc.
Josh Goff, Thomas May Construction
Eric Canoura, F&G Construction
Vaughn Paul, C.C. Borden Construction, Inc.
Woody Baugher, DiMare Construction Company

Item 2.
Questions Received at Mandatory Pre-Bid Meeting:

Q1: May the Contractor work on Weekends?
A1: Yes, provided the General Contractor’s supervisor is on site.

Q2: What are the allowable work hours?
A2: 7 a.m. to 7 p.m.

Q3: May the Contractor obtain a key to the building?
A3: Campus security will unlock and lock the building on a schedule agreed upon by the Owner and the Contractor.

Q4: What is the last day to submit questions?
A4: Ten (10) days prior to the Bid Date.

Q5: Is the construction site required to be fenced for security and safety?
A5: Yes, fencing is required. See Project Manual, Section 01 56 00, Temporary Barriers and Enclosures,
Q6:  Does the Owner have a preferred company for termite treatment services on this building?
A6:  Yes.  The Owner uses Massey Services, Preventech Jacksonville for their termite inspections and termite bonds on the Orange Park campus.

Q7:  Is there a Bid Bond required for this Project?
A7:  Yes, A Bid Bond of 5% of the total bid value is required.

Q8:  Are there liquidated damages for this Project?
A8:  Yes, liquidated damages are detailed in the Project Manual, Section 00 22 13, Supplemental Instruction to Bidders.

Q9:  Will the buildings be occupied during the renovation projects?
A9:  The buildings will be occupied.  Temporary barriers and dust protection will be the Contractor’s responsibility.

Q10:  Will the Contractor be allowed to conduct power/water shut downs during the duration of the project?
A10:  The Contractor shall coordinate with the Owner for all utility shut downs which directly affect the normal operation of the campus or of a single building.

Q11:  Will the Contractor be required to provide portable restroom facilities?
A11:  Yes, the Contractor shall provide portable restroom facilities for the duration of the Project.

Q12:  Will there be a Pre-Construction meeting?
A12:  Yes.  The Owner/Architect/Contractor will conduct a Pre-Construction meeting before the NTP is issued.  Project parking and material storage areas will be determined during the Pre-Construction meeting.

Q13:  Is there a geo-technical report for the area of the new addition?
A13:  Yes, a geotechnical exploration report is included in the Project Manual, Section 02 30 00, Subsurface Investigation.

Q14:  Who should the Contractor contact in the event additional site visits are required for bidding purposes?
A14:  Site visits shall be coordinated through Mike Canaday (386) 312-4091

Q15:  The only waterproofing specification, 07 13 00, lists a product (Grace Construction Products Ice & Water Shield), that is not for use below grade.  Is this product then specified as an underlayment for the roofing?
A15:  Yes, the waterproofing products in Section 07 13 00 are specified for roofing underlayment.

Q16:  There is no specification section for the below grade waterproofing at the elevator pit (the wall sections do reference a Bentonite Waterproofing)
A16:  Specification Section 07 17 00, Bentonite Waterproofing, is included in the addendum as Attachment ‘A’ and shall be added to the Project Manual, including the Table of Contents.

Q17:  Section 07 21 20 – Foam Plastic Masonry Wall Insulation contains a note at the end of the section referencing Supplemental Drawing SD-7 for the extent of insulation use.  I cannot locate this supplemental drawing.
A17:  Delete this reference to Supplemental Drawing SD-7.  It does not apply.
Q18: Referencing the list of subcontractors: Will you please allow us to provide the name and class of work only, of the proposed subcontractors in our bid package? The other information can be provided at a later time the same day by the bidders. Because we do not know who many of our subcontractors are until five minutes before your designated time for receipt of proposals, it is very difficult to get all of this information included in the final minutes of a bid submittal and is a distraction from focusing on obtaining the best possible bid price for the owner.

A18: No, the contractor shall submit the subcontractor list in their sealed bid, however, the only information that will be required on the subcontractor form submitted with the bid is the name of the company. If the contractor fails to submit the subcontractor list with, at minimum, the names of the subcontractors, the bid will be considered non-responsive, and it will invalidate the bid. The contractor may not remove or replace subcontractors listed in the bid subsequent to the list being made public at the bid opening except upon good cause shown. Contractor shall submit a detailed subcontractors list to the College by 5:00 p.m. on August 8, 2018.

Q19: Specification Section 00 21 13, Instructions to Bidders, Paragraph K.4.a, instructs bidders to furnish with their bids, the names and class of work to be performed by subcontractors whose bid amount exceeds 5% of the total price. This is more reasonable than Section 00 43 36, Subcontractors List, which additionally requires the name of a corporate principal/officer, the corporate address, and the license number for 27 different proposed subcontractors. Please confirm that the list of subcontractors submitted with the bid should be in accordance with Section 00 21 13, Paragraph K.4.a.

A19: See answer to Question 18.

Q20: Please confirm if both Base Bid 1 and Base Bid 2 are awarded, that they both will be awarded to one contractor. If one single award is your intent, for clarity, it would be better to change the scope of work in Building V to Additive Alternate No. 2. Language in the Supplementary Instructions To Bidders (Section 00 22 13) under Bid Award Process (... the college reserves the right to award by individual item, groups of items, all or none, or a combination...) suggests the possibility of having 2 separate contractors for Base Bid 1 and Base Bid 2. Separate awards would require that bidders must include additional and separate general conditions for Base Bid 2, thus causing a higher price to the college for the overall project. If separate awards are your intent, then it would be to the college’s advantage to receive separate bids for Building D and Building V with a deductive alternate should they both be awarded to one contractor.

A20: See Project Manual, Section 00 11 16, Invitation to Bid, Page 2, Paragraph B which reads as follows: “SJR State anticipates awarding BID-SJR-01-2018 to a single bidder submitting the lowest and best bid meeting specifications and within budget parameters. SJR State reserves the right to reject any or all bids submitted, to award all or parts of the bid, to waive any informalities in regards thereto, to waive any minor deviations in an otherwise valid bid proposal, to rebid or not, and to accept the bid which will be in the best interest of the College. The College is not necessarily bound to accept the lowest bid if that bid is contrary to its best interest.”

Q21: Details 1/A1-8.2 and 2/A1-8.2 both indicate 5/8”x4-1/2” painted wood window sills. Multiple locations on the plan drawings indicate marble window sills. There appears to be no specification for marble window sills. Please advise.

A21: Project Manual, Section 09 30 00, Part 2 – Products, 2.2 Components: Add the following:

J. Marble window sills (Stools)
   1. Marble window sills, Dimension Stone, ASTM C503
   2. Color: Light Grey or White
   3. Thickness: ¾”
   4. Edge Detail: Eased (Radius ¼”)
5. Dress joints (bed and vertical) straight and at right angle to face, unless otherwise indicated
6. Cut sill material to produce joints of uniform width and in locations indicated
   a. Joint width: 1/8”
   b. Provide uniform sealant joint between units and dissimilar materials.
7. Finishes: Smooth, polished finish

Q22: Please identify the location of the new acoustical wall panels. The Lecture Hall details on drawing A1-2.8 indicates the existing wall panels are to remain and be painted. No other panels appear to be shown.

A22: Provide and install 12 – 4’x2xx2” acoustic panels in DMD mesh fabric. The acoustic panels shall be installed on the underside of the exposed structural floor deck of the mechanical/electrical Room No. D0044. Acoustic panels DMD Series manufactured by Acoustimac, LLC or an approved equal.

Q23: Detail 9/A1-1.3 indicates a tread nosing in the concrete steps. There appears to be no specification for a tread nosing. Please advise.

A23: Cast aluminum stair tread nosing shall be Babcock Davis’ short tipped nose model BSTCA-P4C, 4” width, cast aluminum with cross hatch tread and abrasive girt. Mounting – cast in bolt. ADA compliant.

Q24: What type of stair nosing needs to be installed in the lecture hall?
A24: Stair nosings at lecture hall shall be “Johnsonite “ vinyl stair nosing No. SLN-XX-A, or an approved equal. Color shall be selected from manufacturer’s full line of 12 standard colors.

Q25: Will you please provide some dimensions for the walkway cover on the east side of existing Building D? Decorative Column height and diameter, walkway cover height, would be helpful.
A25: The decorative columns shown on the proposed covered walkway on the east side of Building ‘D’ shall be high density polymer with higher skin density, split shaft columns. Column style shall be smooth tapered column split shaft with Tuscan Cap, Neck Ring, and Tuscan Base as manufactured by Spectis Mouldings, Inc. smooth tapered column #CLM 100-12, height 8'-0”, Tuscan Cap #100-10”, Neck Ring #NR-10”, and Tuscan Base #BSE100-12”
   The decorative columns shown on proposed entrance lobby connecting the existing ‘D’ Building and the proposed ‘D’ Building shall be smooth tapered column split shaft with Tuscan Cap, Neck Ring, and Tuscan Base as manufactured by Spectis Mouldings, Inc. smooth tapered column #CLM100-14, height 10'-0”, Tuscan Cap #100-12, Neck Ring #NR-12”, and Tuscan Base #BSE100-14”

Q27: The schedule for Roller Window Shades (Section 122413 paragraph 3.4.A) only indicates “exterior windows”. Will this include all exterior windows on existing buildings D & V as well as those in the new addition of Bldg. D? Please clarify.
A27: Provide Roller Window Shades as specified only in the addition to Building ‘D’, except at Entrance Lobby, Room #D0040

Q28: Who is responsible for the building permit and the fee?
A28: It is the responsibility of the contractor to obtain the building permit from NEFEC for this project. The cost of the permit shall not be a part of the contractors bid. After the scope of the project to be awarded is determined and awarded to the contractor, the contractor shall provide the cost of the building permit to SJRSC. SJRSC will cover the direct cost incurred to the contractor for the permit fee and reimburse the contractor for the cost.
Item 3.
Specification Section 07 11 13, Bituminous Dampproofing, is included in the addendum as Attachment ‘B’ and shall be added to the Project Manual, including the Table of Contents.

Item 4.
Linear wood ceiling shown on Reflected Ceiling Plan, Drawings A2-1.4 shall be “Armstrong Woodworks” Linear Veneered Planks, 6” modules with ¾” reveals and suspension system, or an approved equal, prior to bid.

Item 5.
Specification Section 07 18 16, Pedestrian Deck Coatings, is included in the addendum as Attachment ‘C’ and shall be added to the Project Manual, including the Table of Contents.

Item 6.
Revise Drawings as shown on the attached drawings DWG1, DWG2, DWG3, and DWG4 included in this Addendum as Attachment as Attachment ‘D’.

Item 7.
DWG5 and DWG6 details shall be added to sheet A/1-6.8 and are included in this Addendum as Attachment ‘E’.

Item 8.
Delete existing demolition sheet A2-1.0 and replace with sheet A2-1.0 included in this Addendum as Attachment ‘F’.

Item 9.
Contractor shall submit a completely filled out “Public Entity Crimes Form” as a part of their sealed bid.

End of Addendum No. 1
SECTION 07 17 00

BENTONITE WATERPROOFING

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. The general provision of the Contract, including General and Supplementary Conditions and General Requirements, apply to the work specified in this section.

1.2 DESCRIPTION OF WORK

A. The extent of Geotextile/Bentonite Clay waterproofing membrane is shown on the drawing and/or as specified herein.

1.3 RELATED WORK

A. Concrete
B. Masonry
C. Backfill
D. Expansion Joints

1.4 QUALITY ASSURANCE

A. Manufacturer: Provide Geotextile/Bentonite Clay waterproofing membrane produced by a manufacturer with a minimum of 5 years experience in the waterproofing industry.
B. Installer: A firm with a minimum of 2 years experience in installing bentonite clay or other related waterproofing products.
C. Shotcrete installations should have an independent inspector to record and monitor the shotcrete installation.

1.5 SUBMITTALS

A. Manufacturer: Submit six copies of product data sheets, specifications, installation instructions and general recommendations for each type of product specified.
B. Installer: Submit detail drawings for installation of product specified.
C. Water Sample Test Result: A water sample (2 liters) is required on projects that have ground water and should be submitted to the waterproofing manufacturer to test for contamination and compatibility with waterproofing membrane. Submit to architect a letter of compatibility recommending which formulation to use.
D. Warranty: Submit specimen of manufacturers’ standard warranty.

1.6 WARRANTY

A. Upon completion and acceptance of the work required by this section, the manufacturer will issue a warranty agreeing to promptly replace defective materials for a period of 5 years.
B. The formation or presence of mold or fungi in a building is dependent upon a broad range of factors including, but not limited to, the presence of spores and nutrient sources, moisture, temperatures, climatic conditions, relative humidity, and heating/ventilating systems and their maintenance and operating capabilities. These factors are beyond the control of Carlisle and Carlisle shall not be responsible for any claims, repairs, restoration, or damages relating to the presence of any irritants, contaminants, vapors, fumes, molds, fungi, bacteria, spores, mycotoxins, or the like in any building or in the air, land, or water serving the building.
1.7 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Deliver materials in original manufacturer’s packaging and store materials in strict accordance with manufacturer’s instructions.

B. Remove and replace products that have been prematurely exposed to moisture.

1.8 PROJECT CONDITIONS

A. Install materials in accordance with all safety and weather conditions required by the manufacturer.

B. Install materials only after work on the applicable substrate is complete.

C. Complete cast-in-place reinforced columns prior to membrane installation.

PART 2 – PRODUCTS

2.1 WATERPROOFING SYSTEM

A. The Geotextile/Bentonite clay waterproofing membrane shall be CCW MiraCLAY supplied by Carlisle Coatings & Waterproofing Incorporated, 900 Hensley Lane, Wylie, Texas 75098, Phone (800) 527-7092 Fax: (972) 442-0076.

B. Physical Properties for Geotextile/Bentonite Clay Waterproofing Membrane:

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bentonite Content</td>
<td>—</td>
<td>1.0 lb./ft² (.488 kg/m²)*</td>
</tr>
<tr>
<td>Nominal Dry Thickness</td>
<td>—</td>
<td>0.25 in. (6.4 mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>—</td>
<td>75 lb. (34.05 kg)</td>
</tr>
<tr>
<td>Permeability</td>
<td>ASTM D 5084</td>
<td>5 x 10⁻⁹ cm/sec</td>
</tr>
<tr>
<td>Grab Tensile Strength</td>
<td>ASTM D 4632</td>
<td>95 lb. (422 N)</td>
</tr>
<tr>
<td>Grab Elongation</td>
<td>ASTM D 4632</td>
<td>150%</td>
</tr>
<tr>
<td>Puncture Resistance</td>
<td>ASTM D 4833</td>
<td>120 psi (828 kPa)</td>
</tr>
<tr>
<td>Hydrated Internal Shear</td>
<td>ASTM D 5321</td>
<td>500 psf (24 kPa)</td>
</tr>
<tr>
<td>Swell Index</td>
<td>ASTM D 5890</td>
<td>2g (24 ml) min.</td>
</tr>
<tr>
<td>Fluid Loss</td>
<td>ASTM D 5891</td>
<td>18 ml max</td>
</tr>
</tbody>
</table>

* - at 12% moisture content

D.防水系统供应的配套辅助材料由防水膜制造商提供:

1. Mastic: CCW MiraCLAY Mastic is used for detailing at terminations and penetrations. Also used to fill minor voids in concrete and as a fillet in angle changes.

2. Granules: CCW MiraCLAY Granules used for horizontal to vertical transitions and for detailing at seams and slab penetrations.

3. Waterstop: CCW MiraSTOP used as a waterstop at cold concrete pours and between pre-cast concrete panels.

E. Membrane to Substrate Fasteners: Fasteners, of the type and length suitable for the substrate, shall be used in conjunction with washers, of at least 1“ diameter, to attach the geotextile/bentonite clay waterproofing membrane to the substrate.

F. Membrane to Membrane Fasteners: Mechanically fasten membrane sheets together with a box-stapler or similar device for horizontal applications.

G. The Geotextile/Bentonite membrane shall consist of geotextile panels of sodium bentonite clay sandwiched between two layers of needle-punched woven and non-woven polypropylene fabrics.

H. Drainage Composite: Shall be CCW MiraDRAIN® as recommended by the manufacturer for each condition.

I. Perimeter Drainage System: Where required shall be CCW QuickDRAIN™.
PART 3 – EXECUTION

3.1 INSPECTION

A. Examine substrate and condition under which waterproofing will be installed. Do not proceed with the work until unsatisfactory conditions have been corrected.

3.2 SURFACE PREPARATION

A. Lagging, Concrete Cassions, Shotcrete or Gunite Applications:
   1. Fill all spaces that are over 1" (25mm) in width with grout or concrete to a smooth and uniform surface. Cover large gaps with 1/2" (12mm) plywood or CCW MiraDRAIN 6000 or 6000XL.
   2. Trowel CCW MiraCLAY Mastic around all tieback plates and soldier beams a minimum of 1 1/2" (39mm) thick and extend a minimum of 4" (10cm) beyond the flange.
   3. Remove projections from the wall surface in excess of 3/4" (20mm).

B. Grade Substrates: Shall be level and uniform that is compacted to a minimum of 85% modified proctor.

C. Concrete Application:
   1. Apply CCW MiraCLAY Mastic to all construction joints at a minimum of 1/4" (7mm) thickness and a 3" (8cm) minimum width.
   2. Remove projections from the wall surface in excess of 3/4" (20mm).

D. Honeycombing, voids and aggregate pockets exceeding 1 inch in diameter or have a depth greater than ¾" should be filled with a non-shrink cementitious grout. Fill tie-rod holes with a non-shrink cementitious grout.

3.3 INSTALLATION

A. Prevent geotextile/bentonite clay waterproofing membrane from hydrating before being covered with overburden. When threat of rain is imminent or backfill is not immediate, geotextile/bentonite clay waterproofing membrane should be covered with polyethylene sheeting.

B. Lagging Application
   1. Install CCW MiraCLAY with the white non-woven side out, facing the installer.
   2. Starting at the bottom of the wall, unroll CCW MiraCLAY and nail across top of panel one nail per 12" (31cm) on center. Allow sheet to hang down nailing only as required to stabilize.
   3. Install adjacent membrane by overlapping edges a minimum of 4" (10cm).
   4. Fasten membrane once every 18" (45cm) on seams or as required to prevent blousing.
   5. Extend waterproofing membrane to or above grade and fasten membrane once every 12" to 15" (31cm to 39cm).
   6. Install CCW MiraSTOP at all pour joints and exterior perimeter of tie-back box outs.

C. Concrete Wall Application:
   1. Install CCW MiraCLAY with the white non-woven side out, facing the installer.
   2. Starting at the bottom of the wall, unroll CCW MiraCLAY and nail across top of panel one nail per 12" (31cm) on center. Allow sheet to hang down nailing only as required to stabilize.
   3. Install adjacent membrane by overlapping edges a minimum of 4" (10cm).
   4. Fasten membrane once every 18" (45cm) on seams or as required to prevent blousing with 3/4" (20mm) to 1" (25mm) concrete nails with washers.
   5. Extend waterproofing membrane to 6-inches below grade and fasten membrane to the substrate to maintain constant compression using a 1/8” X 1” (3 X 25 mm) minimum termination bar. Trowel a 1/2” (12mm) thick and 2” (5cm) wide bead of CCW MiraCLAY Mastic at top edge of membrane and cover termination bar.
   6. Create a cant at any vertical to horizontal transition by applying a 1.5” to 2” (4cm to 5cm) cant of CCW MiraCLAY Granules or CCW MiraCLAY Mastic.
   7. Strip in all corners and transitions with a 12” to 15” (31cm to 39cm) piece of CCW MiraCLAY membrane to double cover these areas.
   8. Backfill must be compactable soils free of construction debris and must be uniformly compacted to a minimum 85% Modified Proctor on each lift.
3.4 SHOTCRETE PLACEMENT

A. Apply shotcrete in strict accordance with ACI 506.2-95 Specification for Shotcrete.

B. Moisten the MiraCLAY non-woven surface to improve adhesion.

C. Commence spraying from the bottom to the top at a pressure not to vibrate or move the CCW MiraCLAY.

D. Install to the designed thickness in lifts not to exceed 4’ (1.2m).

E. Protect adjacent CCW MiraCLAY from overspray and remove rebound and sand pockets.

3.5 PROTECTION AND DRAINAGE

A. Protect the geotextile/bentonite clay waterproofing membrane with CCW MiraDRAIN Drainage Composite.

B. Install the CCW MiraDRAIN Drainage Composite according to the detailed drawings for the specific installation requirements of the project.

3.6 BACKFILL

A. Backfill with smooth and uniform material with no sharp projections or stones larger than ¾”. Compact backfill to an 85% Modified Proctor. Insure backfill material is not contaminated with salt or other materials that could prevent the CCW MiraCLAY from hydrating.

END OF SECTION
SECTION 07 11 13

BITUMINOUS DAMPPROOFING

PART 1 – GENERAL

1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY
A. This Section includes cold-applied, cut-back asphalt dampproofing Vapor Barrier applied to the following surfaces.
   1. Exterior face of inner wythe of all exterior masonry cavity walls.
   2. All below-grade exterior surfaces of concrete footing walls in contact with soil, rigid insulation, gravel or other fill materials. Include basement walls, perimeter foundation walls, and other concrete walls that retain for enclosure space.

1.3 SUBMITTALS
A. Product Data: For each type of product indicated. Include recommendations for method of application, primer, number of coats, coverage or thickness, and protection course.
B. Material Certificates: For each product, signed by manufacturers.

1.4 QUALITY ASSURANCE
A. Source Limitations: Obtain primary dampproofing materials and primers through one source from a single manufacturer. Provide secondary materials recommended by manufacturer of primary materials.

1.5 PROJECT CONDITIONS
A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit asphalt dampproofing to be performed according to manufacturer’s written instruction.
B. Ventilation: Provide adequate ventilation during application of dampproofing in enclosed spaces. Maintain ventilation until dampproofing has thoroughly cured.

PART 2 – PRODUCTS

2.1 MANUFACTURERS
A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. Cold-Applied, Cut-Back (Solvent Based) Asphalt Dampproofing, indicated as Vapor Barrier:
      a. Karnak Corporation
      b. Meadows, W.R., Inc.
      c. Sonneborn, Division of ChemRex, Inc.

2.2 BITUMINOUS DAMPPROOFING
A. Cold-Applied, Cut-Back (Solvent Based) Asphalt Dampproofing:
   1. Trowel Coats: ASTM D 4586, Type I.
   2. Brush and Spray Coats: ASTM D 4479, Type I.

2.3 MISCELLANEOUS MATERIALS
B. Asphalt-Coated Glass Fabric: ASTM D 1668, Type I.
C. Protection Course, Asphalt-Board Type: Premolded, 1/8” (3 mm) thick, multiply, semirigid board consisting of a mineral-stabilized asphalt core sandwiched between layers of asphalt-saturated felt, and faced on 1 side with polyethylene film.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Applicator present, for compliance with requirements for surface smoothness and other conditions affecting performance of work.

1. Begin dampproofing application only after substrate construction and penetrating work have been completed and unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Protection of Other Work: Mask or otherwise protect adjoining exposed surfaces from being stained, spotted, or coated with dampproofing. Prevent dampproofing materials from entering and closing weep holes and drains.

B. Clean substrates of projections and substances detrimental to work; fill voids, seal joints, and apply bond breakers if any, as recommended by prime material manufacturer.

3.3 APPLICATION, GENERAL

A. Comply with manufacturer’s written recommendations unless more stringent requirements are indicated or required by Project conditions to ensure satisfactory performance of dampproofing.

1. Apply additional coats if recommended by manufacturer or required to achieve coverage indicated.

2. Allow each coat of dampproofing to cure 24 hours before applying subsequent coats.

B. Apply dampproofing to provide continuous plane of protection on exterior face of inner wythe of exterior masonry cavity walls.

1. Apply from finished –grade line to top of footing, extend over top of footing, and down a minimum of 6” (150 mm) over outside face of footing.

2. Extend 12” (300 mm) onto intersecting walls and footings, but do not extend onto surfaces exposed to view when Project is completed.

3. Install flashings and corner protection stripping at internal and external corners, changes in plane, construction joints, cracks and where shown as “reinforced”, by embedding an 8” (200 mm) wide strip of asphalt coated glass fabric in a heavy coat of dampproofing.

Dampproofing coat required for embedding fabric is in addition to other coats required.

4. Lap dampproofing at least ¼” (6 mm) onto flashing, masonry reinforcement, veneer ties, and other items that penetrate inner wythe.

5. Extend dampproofing over outer face of structural members and concrete slabs that interrupt inner wythe, and lap dampproofing at least ¼” (6 mm) onto shelf angles supporting veneer.

3.4 COLD-APPLIED, CUT-BACK ASPHALT DAMPPROOFING

A. On concrete Foundations: Apply two brush or spray coats at not less than 1.25 gal/100 sq ft for first coat and 1 gal/100 sq ft for second coat, or one trowel coat at not less than 4 gal/100 sq ft.

B. On Exterior Face of Inner Wythe of Cavity Walls: Apply primer and one brush or spray coat at not less than 1 gal/100 sq ft.

3.5 INSTALLATION OF PROTECTION COURSE

A. Where indicated, install protection course over completed and cured dampproofing. Comply with dampproofing material manufacturer’s written recommendations for attaching protection course. Support protection course with spot application of trowel-grade mastic where not otherwise indicated.

3.6 CLEANING

A. Remove dampproofing materials from surfaces not intended to receive dampproofing.

END OF SECTION
SECTION 07 18 16
PEDESTRIAN DECK COATINGS

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes
   1. Waterproofing and exterior deck coating. Pedestrian system for exterior elevated slabs

B. Related Sections
   1. Section 03 30 00 – Cast-in-Place Concrete

1.2 SUBMITTALS

A. Comply with Section 01 33 00 – Submittals

B. Product Data: Submit manufacturer’s technical data sheets and LEED product information for each product.

C. Submit list of project references as documented in this section under Quality Assurance article. Include contact name and phone number of person charged with oversight of each project.

D. Quality Control Submittals: Provide protection plan of surrounding areas and non-work surfaces.

1.3 QUALITY ASSURANCE

A. Manufacturer Qualifications
   1. Company with minimum of 15 years experience in manufacturing of specified products and systems.

B. Applicator Qualifications
   1. Company with minimum of 5 years experience in application of specified products and systems on projects of similar size and scope, and is acceptable to product manufacturer.
   2. Successful completion of a minimum of 5 projects of similar size and complexity to specified Work.

1.4 DELIVERY, STORAGE AND HANDLING

A. Comply with manufacturer’s ordering instructions and lead-time requirements to avoid construction delays.

1.5 PROJECT CONDITIONS

A. Environmental Requirements
   1. Do not apply when substrates are over 110°F (32°C) or under 40°F (4°C).
   2. Do not apply in rain or when rain is expected within 24 hours.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. Subject to compliance with requirements, provide products from the following manufacturer:
   1. BASF Corporation
      889 Valley Park Drive
      Shakopee, MN 55379
      Customer Service: 800-433-9517
      Technical Service: 800-243-6739
      Internet: www.buildingsystems.basf.com

B. Substitution: Comply with Section 01 60 00 – Product Requirements
2.2 MATERIALS

A. Fluid-applied, moisture-curing, polyurethane, waterproofing, traffic-bearing, membrane deck coating system.

B. Acceptable Products
   1. Primer: MasterSeal P 222. One component, solvent-based primer and sealer.
   3. Top Coat: MasterSeal TC 225. One-component, aliphatic, moisture-curing polyurethane.
   4. Top Coat Tint Base: MasterSeal TC 225 TB. One-component, aliphatic, moisture-curing polyurethane consisting of 40 standard colors.
   5. Aggregate: MasterSeal 941
   7. Sealant Primer: MasterSeal P173
   11. Clean-Up: MasterSeal 990.

C. Compliances:
   1. UL 790, Class A fire rating
   2. ASTM C957
   3. ASTM E108
   4. ASTM E 84

D. Properties of Cured Membranes:
   1. Hardness, Shore A, ASTM D 2240
      a. Base Coat: 60
      b. Top Coat: 89
   2. Tensile Strength, ASTM D 412:
      a. Base Coast: 752 psi (5.2 MPa)
      b. Top Coat: 2,500 psi (17.2 MPa)
   3. Elongation, ASTM D412
      a. Base Coat: 595%
      b. Top Coat: 502%
   4. Tear Strength, ASTM D 1004:
      a. Base Coat: 74PIT
      b. Top Coat: 199 PIT
   5. Weight Loss, Maximum 40
      a. Base Coat: 16%
      b. Top Coat: 17%
   6. Low Temperature Flexibility and Crack Bridging
      a. Base Coat: No cracking
      b. Top Coat: No cracking
   7. Adhesion in Peel after Water Immersion
   8. Pull-Out Adhesion, ASTM D 4541:

E. Color: To be selected

PART 3 – EXECUTION

3.1 EXAMINATION

A. Comply with Section 01 70 00 – Project Closeout

3.2 SURFACE PREPARATION

A. Prepare substrates in accordance with manufacturer’s instruction.

B. Substrates: Sound and free of dust, dirt, laitance, paints, oils, grease, curing compounds, or other contaminants.
C.Verify substrate has properly cured. Mechanically remove efflorescence before proceeding. For extreme cases where this is not adequate, contact manufacturer.

D. Concrete
   1. Minimum Compressive Strength: 3,000 psi (21 MPa)
   2. Cure for a minimum of 28 days or 80% of design strength.

E. Mechanically prepare substrate to remove previous coatings, laitance, and miscellaneous surface contamination. Provide surface profile to achieve specified adhesion equal to International Concrete Repair Institute surface profile CSP 3.
   1. Roughen or brush blast extremely smooth surfaces to ensure good mechanical adhesion.
   2. Patch holes and cracks before installation.

F. Repair voids and delaminated areas with cementitious and epoxy patching materials.

3.3 MIXING
A. Mix materials in accordance with manufacturer’s instruction.

3.4 APPLICATION – GENERAL
A. Apply materials in accordance with manufacturer’s instructions.
B. Do not apply materials to damp, wet, or contaminated substrates.
C. Surface Prestriping and Detailing:
   1. Prestripe with primer 1” beyond surfaces that require detail work.
   2. For nonmoving joints and cracks less than 1/16” wide, apply 25 wet mils (.6 mm) prestriping of base coat over cured primer. Apply base coat to fill and overlap joint or crack 3” on each side. Feather the edges.
   3. Dynamic cracks and joints over 1/16” wide shall be routed to a minimum of ¼” x ¼” and cleaned. Install bond breaker tape to prevent adhesion to bottom of joint. Prime joint faces only with sealant primer and fill with sealant. Fill joints deeper than ¼” with backer rod and deep joint sealant. For cracks, sealant shall be flush with adjacent surface. For expansion joints, sealant shall be slightly concave.
   4. Sealed joints 1” or less shall be coated over with deck coating system.
   5. Expansion joints exceeding 1” wide, including primary wide expansion-joint system, shall not be coated.
   6. Where coating system will be terminated and no wall, joint, or other break exists, cut ¼” x ¼” keyway into concrete. Fill and coat keyway as application of base coat progresses.

D. Metal Surfaces:
   1. Remove dust, debris, and other contaminants from vent, drain pipe, and post penetrations; reglets; and other metal surfaces. Clean surfaces to bright metal and prime with sealant primer. Provide cant with deep joint sealant to eliminate 90° angles.
   2. Detail cant with primer and base coat in accordance with manufacturer’s instructions before application of deck coating system.

E. Priming:
   1. After thoroughly vacuuming surface, apply primer to properly prepared deck surfaces at rate of 200 to 250 square feet per gallon. Force primer into pores and voids to eliminate pinholes. Do not apply over prestriping.
   2. Allow primer to dry tack free. Apply base coat same working day.

3.5 LIGHT-TO MEDIUM-DUTY PEDESTRIAN SYSTEM
A. Apply 25 wet mils (.6 mm) of base coat. Immediately backroll to level base coat. Allow to cure overnight.
B. Apply 25 wet mils (.6 mm) of top coat. Immediately backroll to level top coat.
C. While coating is still wet, broadcast aggregate at rate of 10 to 15 pound per 100 ft². Backroll into coating to fully encapsulate.
3.6 PROTECTION

A. Pedestrian Traffic: Allow minimum curing time of 48 hours before pedestrian use.

B. Extend curing time in cool-weather conditions.

C. Protect system from damage during construction.

END OF SECTION
MAKE CHANGES TO A2-1.3
NOTE:
CONTRACTOR SHALL PAINT ALL ITEMS ABOVE CEILING IN VENDING, GAMES, COFFEE BAR, LOBBY AND QUITE LOUNGE. ITEMS TO INCLUDE BUT NOT LIMITED TO UNDERSIDE OF ROOF DECK, ALL STRUCTURE, PIPING, DUCTWORK ETC....

MAKE CHANGES TO A2-1.4
ADDENDUM No. 1
ATTACHMENT 'D'

2x2 FINISHED WOOD SPACER, ALL SIDES PAINTED, DEPTH VARIES, FIELD VERIFY, ATTACH WITH S.S. SCREWS THAT GOES THRU BRACKET, TUBE STEEL, SPACER AND INTO STOREFRONT MULLION

EXISTING STOREFRONT SYSTEM

NOTE:
ALL PLYWOOD SHALL BE B-C EXTERIOR GRADE PLYWOOD. PLYWOOD JOINTS SHALL HAVE A DOVE TAIL

COUNTER SECTION

SCALE: 1" = 1'-0"

MAKE CHANGES TO A2-4.2
BRACKET DETAIL

SCALE: 1/2" = 1'-0"

1/8" THICK PLATE STEEL BRACKET W/ POWDER COAT FINISH

GRIND AND POLISH ALL EXPOSED EDGES TO A SMOOTH ROUNDED EDGE, TYP

MAKE CHANGES TO A2-4.2
DETAIL AT SECOND FLOOR TERRACE AND BRICK WRAPPED SUPPORT COLUMN

SCALE: 1/2" - 1'-0" A1-6.8

ADDENDUM NO. 1
ATTACHMENT 'E'

RENOVATION WITH ADDITION TO BUILDING D & RENOVATION TO BUILDING V, ORANGE PARK CAMPUS
ST. JOHNS RIVER STATE COLLEGE
ORANGE PARK, FL.

CRG ARCHITECTS
2144 ST. JOHNS AVE.
PALATKA, FL 32177
P. 386.323.0213
F. 386.328.1401
DETAIL AT SECOND FLOOR TERRACE AND BUILDING D ADDITION EXTERIOR WALL

FOAM INSULATION
CEM STUCCO
DIRECT APPLIED TO CMU WALL
HORZ. JOINT REINF.
NP 1 OR NP 2 WITH BACKER ROD
MASTERSEAL TC 225 W/ AGGREGATE BACKROLLED INTO WET TOP COAT
MASTERSEAL M200 PRIMER
CONC. DECK METAL DECKING
1/2" EXP. JOINT MATL.

8" CMU
1-1/2" FURRING STRIPS
1-1/2" RIGID INSULATION
5/8" GWB, PAINT
4" VINYL COVE BASE
FINISHED FLOOR

SCALE: 1/2" - 1'-0" A1-6.8

ADD DETAIL TO SHEET A1-6.8