

ADDENDUM #2

DATE: April 12, 2019

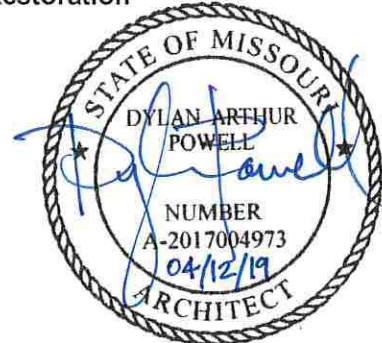
TO BIDDING DOCUMENTS ENTITLED:
CPS RFP #19/67
Columbia Public Schools
Midway Heights Elementary Masonry Restoration

PWA PROJECT NUMBER: 201621.30

BID DATE: 2:00p.m. April 18, 2019 (Unchanged)

PREPARED FOR: Columbia Public Schools

CONSULTANT: PWArchitects, Inc.
Attn: Dylan Powell, AIA
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Drawings and Specifications for the above noted project and the work covered thereby are herein modified as follows, and except as set forth herein, otherwise remain unchanged and in full force and effect:

General:

1. **Clarification:** At the West wing of the building along the playground, there is asphalt paving adjacent to the building which has separated from the building and constitutes the potential for leaks. However, this joint is not shown to be caulked with new sealant on the drawings.

Change to the following:

- a. **Add new Sealant work per Scope of Work Note "K" to these joints as shown in the attached drawing Sheet A-101-a.**
 - b. **Replace the original Section 07 92 00 Joint Sealants with the attached version. The attached version adds self-leveling sealant products and Sealant Types suitable for asphalt substrate applications.**
2. **Clarification:** Drawings indicate the existing cast stone piece with cast-in lettering at the monument sign is to be replaced, but no detail is shown for how the lettering should be designed.
Change to the following:
Add the attached detail Sheet A-501-b showing typical detailing of letters in cast stone for the monument sign.
Replacement Cast Stone at monument sign shall be 3.75 inches thick or thickness shall be as required to match existing cast stone panel thickness. Contractor shall verify exact Cast Stone panel size, thickness, and lettering layout via shop drawing submittal for approval by Architect prior to fabrication and installation.
 3. **Clarification:** Drawings do not clearly show lettering shall be painted at the new cast stone panel for monument sign. However, Section 09 90 00 Painting and Coating indicates lettering in the new cast stone for the monument sign shall be painted.
Change to the following:
All lettering in the new cast stone for the monument sign shall be painted black. Painting requirements shall comply with Section 09 90 00 Painting and Coating.

4. **Clarification:** Drawings indicate several conditions on the North façade of the building where the existing soffits need to be repaired at existing downspout penetrations of the soffit. However, not all locations of soffit repairs at downspouts appear to be shown.

Change to the following:

All locations where existing or new downspouts penetrate the existing soffits shall receive soffit repairs per Scope of Work Note "W", whether shown on drawings or not. Additionally, all existing or new downspouts shall receive new continuous tooled sealant joints at the soffit-to-downspout joint and shall receive installation of new 1"x4" fiber cement trim at perimeter of the soffit-to-downspout joint. All new fiber cement panels and trim shall be painted to match the existing finish.

5. **Clarification:** Photographs G5 & K1 on Sheet A-204 show new traffic coating per Scope of Work Note "T" extending to the full length of the concrete landing on the south side of the stairs. However, floor plans on Sheet A-101 do not show the traffic coating extending farther than the bottom stair tread.

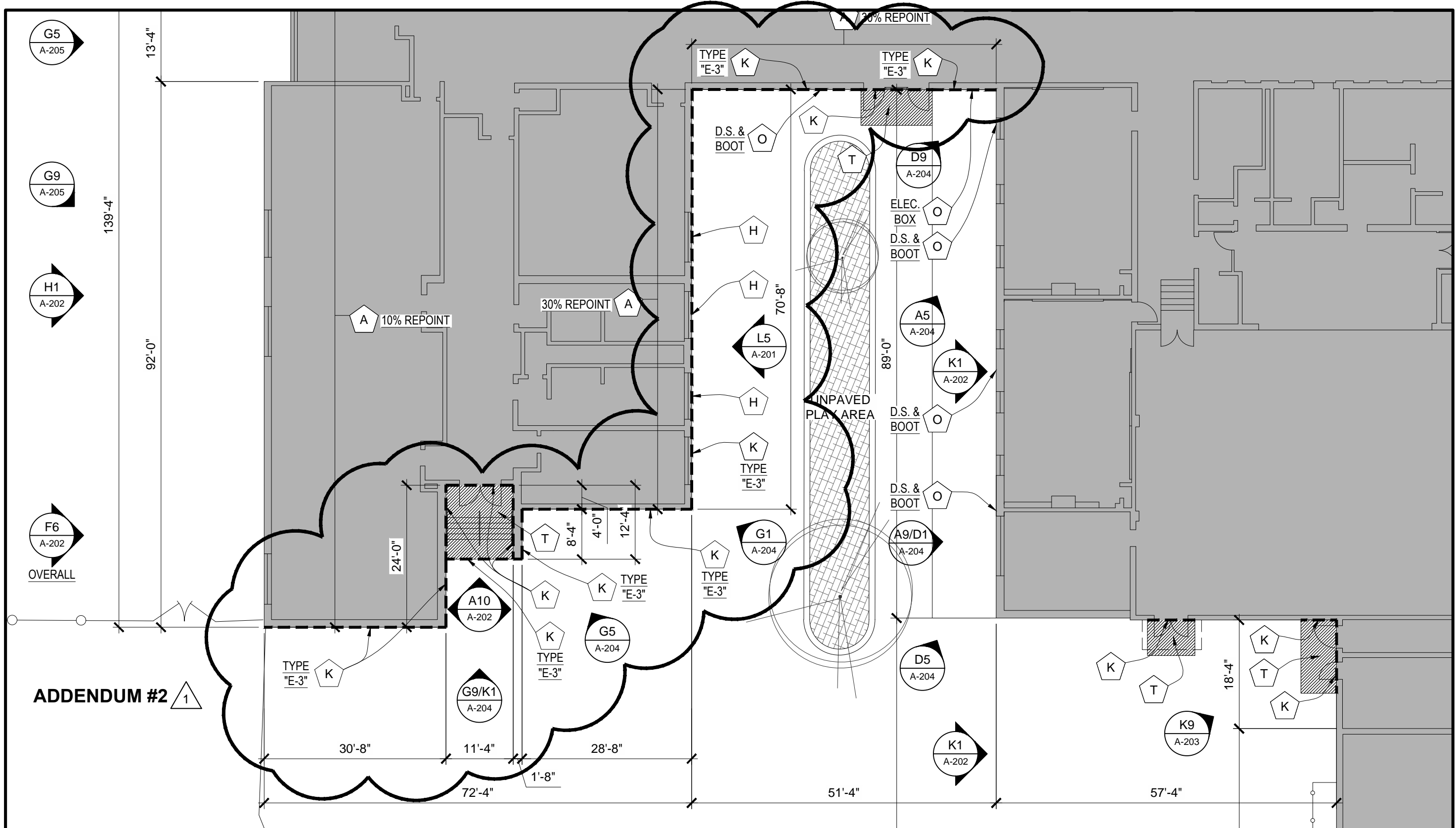
Change to the following:

The traffic coating at this location shall extend to the full extent of the concrete landing on the south side of the stairs. Refer to attached Sheet A-101-a to see the updated floor plan for this location.

Attachments:

1. Sheet A-101-a.
2. Revised Section 07 92 00 Joint Sealants.
3. Sheet A-501-b.

END OF ADDENDUM 2



G5
A-205

G9
A-205

H1
A-202

F6
A-202
OVERALL

ADDENDUM #2
1

PARTIAL FLOOR PLAN

SCALE: 1/16" = 1'-0"



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DRAWING NO.

A-101-a

SECTION 07 92 00
JOINT SEALANTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Nonsag gunnable joint sealants.
- B. Self-leveling pourable joint sealants.
- C. Joint backings and accessories.

1.02 SUBMITTALS

- A. See Division One for submittal procedures.
- B. Product Data for Sealants: Submit manufacturer's technical data sheets for each product to be used, that includes the following.
 - 1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.
 - 2. List of backing materials approved for use with the specific product.
 - 3. Substrates that product is known to satisfactorily adhere to and with which it is compatible.
 - 4. Substrates the product should not be used on.
 - 5. Substrates for which use of primer is required.
 - 6. Substrates for which laboratory adhesion and/or compatibility testing is required.
 - 7. Installation instructions, including precautions, limitations, and recommended backing materials and tools.
 - 8. Sample product warranty.
 - 9. Certification by manufacturer indicating that product complies with specification requirements.
- C. Product Data for Accessory Products: Submit manufacturer's technical data sheet for each product to be used, including physical characteristics, installation instructions, and recommended tools.
- D. Color Cards for Selection: Where sealant color is not specified, submit manufacturer's color cards showing standard colors available for selection.

1.03 QUALITY ASSURANCE

- A. Maintain one copy of each referenced document covering installation requirements on site.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- C. Installer Qualifications: Company specializing in performing the work of this section and with at least three years of documented experience.

1.04 MOCK-UP

- A. Provide mock-up of sealant joints under provisions of Section 01 40 00, Quality Requirements. Coordinate with Section 04 01 00, Maintenance of Masonry.
- B. For silicone sealant joints, meet on-site with manufacturer's designated representative prior to and during installation of mock-up. Install as directed by manufacturer's designated representative. Coordinate further on-site meetings with manufacturer's designated representative as required for proper and complete installation of product, and as required to fulfill manufacturer's warranty requirements.
- C. Construct mock-up with specified sealant types and with other components noted.
- D. Locate where directed.
- E. Mock-up may remain as part of the Work.

1.05 FIELD CONDITIONS

- A. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

1.06 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Silicone Sealants: Correct defective work within a twenty year period after Date of Substantial Completion.
- C. Butyl Sealants: Correct defective work within a two year period after Date of Substantial Completion.
- D. Warranty: Include coverage for installed sealants and accessories that fail to achieve watertight seal, exhibit loss of adhesion or cohesion, or do not cure.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Non-Sag Sealants: Permits application in joints on vertical surfaces without sagging or slumping.
 - 1. BASF Construction Chemicals-Building Systems: www.buildingsystems.basf.com.
 - 2. Dow Corning Corporation: www.dowcorning.com/construction/.
 - 3. Pecora Corporation: www.pecora.com.
 - 4. Sika Corporation: www.usa-sika.com/.
 - 5. Tremco Commercial Sealants & Waterproofing: www.tremcosealants.com/.
 - 6. ADFAST Corporation; www.adfastcorp.com/en.
 - 7. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Self-Leveling Sealants: Pourable or self-leveling sealant that has sufficient flow to form a smooth, level surface when applied in a horizontal joint.
 - 1. Dow Chemical Company;
consumer.dow.com/en-us/industry/ind-building-construction.html.
 - 2. Pecora Corporation; www.pecora.com.
 - 3. Sika Corporation; www.usa-sika.com.
 - 4. Tremco Commercial Sealants & Waterproofing; www.tremcosealants.com.

2.02 NONSAG JOINT SEALANTS

- A. Type E-1 - General Purpose Exterior Sealant: Silicone Sealant: ASTM C920, Grade NS, Uses NT, M, G, A, O; single or multi-component, non-sagging, neutral-curing.
 - 1. Non-Staining to Porous Stone: Non-staining to light-colored natural stone when tested in accordance with ASTM C1248.
 - 2. Color: To be selected by Architect from manufacturer's standard range.
 - 3. Applications: Use for:
 - a. Control joints and other sealant joints in masonry and stone work.
 - b. Sealant joints at exterior perimeters of doors, windows, louvers, pipes, and other penetrations of exterior walls.
 - c. Exterior building sealant joints for which no other sealant is specified.
 - 4. Manufacturers:
 - a. ADFAST Corporation; ADSEAL DWS 4580 Series: www.adfastcorp.com/en.
 - b. Dow Corning Corporation; 790 Silicone Building Sealant: www.dowcorning.com/construction.
 - c. Tremco Commercial Sealants & Waterproofing; Spectrem 2: www.tremcosealants.com.
 - d. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Type E-2 - Butyl Sealant: ASTM C920, Grade NS, Class 12-1/2, Uses NT, M, G, A, O; single component, solvent release, non-skinning, non-sagging.
 - 1. Color: To be selected by Architect from manufacturer's standard range.

2. Applications: Use for:
 - a. Concealed sealant bead in sheet metal work.
- C. Type E-3 - Exterior Asphalt Sealant: Silicone Sealant: ASTM D5893, ASTM C920, Type S or SL, Grade P or SL, Class 100/50, Uses T, M, G, A, O; single or multi-component, self-leveling, neutral-curing.
 1. Color: To be selected by Architect from manufacturer's standard range.
 2. Applications: Use for:
 - a. Sealant joints at exterior asphalt paving to building joints.
 3. Manufacturers:
 - a. Dow Corning Corporation; DOWSIL 890-SL: www.dowcorning.com/construction.
 - b. Sika Corporation; Sikasil-728 SL: www.usa.sika.com.
 - c. Pecora Corporation; Pecora 300 SL: www.pecora.com.
 - d. Tremco Commercial Sealants & Waterproofing; Spectrem 900SL: www.tremcosealants.com.
 - e. Substitutions: See Section 01 60 00 - Product Requirements.

2.03 ACCESSORIES

- A. Backer Rod: Cylindrical cellular foam rod with surface that sealant will not adhere to, compatible with specific sealant used, and recommended by backing and sealant manufacturers for specific application.
 1. Type for Joints Not Subject to Pedestrian or Vehicular Traffic: ASTM C1330; Type O - Open Cell Polyurethane.
 2. Type for Joints Subject to Pedestrian or Vehicular Traffic: ASTM C1330; Type B - Bi-Cellular Polyethylene.
 3. Open Cell: 40 to 50 percent larger in diameter than joint width.
 4. Closed Cell and Bi-Cellular: 25 to 33 percent larger in diameter than joint width.
- B. Backing Tape: Self-adhesive polyethylene tape with surface that sealant will not adhere to and recommended by tape and sealant manufacturers for specific application.
- C. Masking Tape: Self-adhesive, nonabsorbent, non-staining, removable without adhesive residue, and compatible with surfaces adjacent to joints and sealants.
- D. Joint Cleaner: Non-corrosive and non-staining type, type recommended by sealant manufacturer; compatible with joint forming materials.
- E. Primers: Type recommended by sealant manufacturer to suit application; non-staining.
- F. Fine, smooth, clean, silica sand for sanded sealant joints.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that joints and substrates are ready to receive work.
- B. Verify that backing materials are compatible with sealants.
- C. Verify that backer rods are of the correct size.

3.02 PREPARATION

- A. Remove loose materials and foreign matter that could impair adhesion of sealant.
- B. Clean joints, and prime as necessary, in accordance with manufacturer's instructions.
- C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.
- D. Mask elements and surfaces adjacent to joints from damage and disfigurement due to sealant work; be aware that sealant drips and smears may not be completely removable. Protect all elements surrounding the work of this section from damage or disfigurement.
- E. Concrete Floor Joints That Will Be Exposed in Completed Work: Test joint filler in inconspicuous area to verify that it does not stain or discolor slab.

3.03 INSTALLATION

- A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Perform installation in accordance with ASTM C1193.
- C. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated.
- D. Install bond breaker backing tape where backer rod cannot be used.
- E. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.
- F. Do not install sealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the entire curing period, unless manufacturer's approval is obtained and instructions are followed.
- G. Nonsag Sealants: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface.
- H. Concrete Floor Joint Filler: After full cure, shave joint filler flush with top of concrete slab.
- I. Sand all sealant joints in brick and stone work using fine, smooth, clean silica sand "thrown" or "dusted" into sealant after it has been tooled and is still "tacky".

3.04 TESTING AND INSPECTION

- A. The Owner may hire an independent testing agency to cut out and remove installed sealant joints in six (6) locations per each side of building, each approximately one (1) linear foot. Locations will be randomly selected by the testing agency or Architect. The work will be checked by the testing agency for compliance with the contract documents in accordance with ASTM C1193. If defective work is found in any of the test locations, additional tests may be required of the Contractor at no additional cost to the Owner. If any test section removed reveals non-complying work, remove all adjacent sealant work to the point where work is found to be in compliance. Re-seal in accordance with the contract documents. If all tests fail to meet the contract document requirements, the Contractor shall be required to re-seal the entire section of the building at no additional cost to the Owner. Provide lifts or other acceptable means of access to the work.

3.05 CLEANING

- A. Clean adjacent soiled surfaces.

3.06 PROTECTION

- A. Protect sealants until cured.

3.07 POST-SUBSTANTIAL COMPLETION INSPECTION

- A. Post-Substantial Completion Inspection: Perform visual inspection of entire length of project sealant joints at a time that joints have opened to their greatest width; i.e. at the low temperature in the thermal cycle. Report failures immediately and repair.

END OF SECTION

