

CHANGES TO SPECIFICATIONS

ADD1.1 DELETE the following subparagraph from specification Section 01100 (Summary) Part 1.3.D.1:

- d. Preparation for installation of new air-conditioning units which will be installed by another contractor where indicated in the Drawings.

ADD the following subparagraph to specification Section 01100 (Summary) Part 1.3.D.1:

- d. Installation of new air-conditioning units which will be furnished by another Contractor where indicated in the Drawings.

ADD1.2 ADD the following subparagraph to specification Section 08511 (Aluminum Windows) Part 1.4:

- I. Field quality-control test reports.

ADD1.3 ADD the following subparagraphs to specification Section 08511 (Aluminum Windows) Part 1.4.F:

- 4. Mockup shall include Window Types A and Q.
- 5. Do not proceed with installation of any other window units until mockup has passed required field tests.”

ADD1.4 ADD the following subparagraphs to specification Section 08511 (Aluminum Windows) Part 1.5:

- G. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination." Review methods and procedures related to aluminum windows including, but not limited to, the following:
 - 1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 2. Review and discuss the finishing of aluminum windows that is required to be coordinated with the finishing of other aluminum work for color and finish matching.
 - 3. Review, discuss, and coordinate the interrelationship of aluminum windows with other exterior wall components. Include provisions for structural anchorage, glazing, flashing, weeping, sealants, and protection of finishes.
 - 4. Review and discuss the sequence of work required to construct a watertight and weathertight exterior building envelope.
 - 5. Inspect and discuss the condition of substrate and other preparatory work performed by other trades.

ADD1.5 DELETE the following subsection from specifications Section 08511 (Aluminum Windows) PART 2 – PRODUCTS:

2.1 MANUFACTURERS

- A. Basis of Design Product: The design for aluminum fixed and operable windows is based on the 3-1/4” deep heavy commercial 3902(T) by EFCO Corporation. Subject to

compliance with requirements, provide the named product or a product approved by the Architect by one of the following manufacturers:

1. Kawneer North America; an Alcoa company.
2. Pittco Architectural Metals, Inc.
3. TRACO.
4. Vistawall Architectural Products; The Vistawall Group; a Bluescope Steel company.

ADD the following subsection to 08511 (Aluminum Windows) PART 2 – PRODUCTS:

2.1 MANUFACTURERS

A. Basis of Design Product: The design for aluminum fixed and operable windows is based on the 3-1/4” deep heavy commercial 3902(T) by EFCO Corporation. A minimum frame depth of 3-1/4” and a maximum frame depth of 3-3/4” will be acceptable. Subject to compliance with requirements, provide the named product or a product approved by the Architect by one of the following manufacturers:

1. TRACO.
2. Graham Architectural Products
3. Peerless Products

ADD1.6 DELETE the following subsection from specifications Section 08511 (Aluminum Windows) Part 2.4.E:

1. Safety Devices: Limit clear opening to 9 inches for ventilation; with custodial key release.

ADD the following subsection to 08511 (Aluminum Windows) Part 2.4.E:

1. Safety Devices: Provide limiting devices, with custodial key release.
 - a. Where operable windows open inward, the limiting device shall be set to allow a maximum opening of 10” when located above casework or fixed equipment and 6” in all other locations, unless noted otherwise.
 - b. Where operable windows open outward, the window limiting device shall be set to allow a maximum opening of 12”, unless noted otherwise.

ADD1.7 ADD the following subsection to 08511 PART 3 – EXECUTION:

3.3 FIELD QUALITY CONTROL

A. Testing Agency: Engage, at Contractor’s expense, a qualified testing agency to perform tests and inspections and prepare test reports.

1. Testing and inspecting agency will interpret tests and state in each report whether tested work complies with or deviates from requirements.

B. Testing Services: Testing and inspecting of installed windows shall take place as follows:

1. Testing Methodology: Testing of windows for air infiltration and water resistance shall be performed according to AAMA 502, Test Method A, by

- applying same test pressures required to determine compliance with AAMA/WDMA 101/I.S.2/NAFS in Part 1 "Performance Requirements" Article.
2. Testing Extent: Three mockup windows as selected by Architect and a qualified independent testing and inspecting agency. Windows shall be tested immediately after installation. **No other windows shall be installed until mockup windows pass required tests.**
 3. Test Reports: Shall be prepared according to AAMA 502.

- C. Remove and replace noncomplying aluminum window(s) and retest as specified above.
- D. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

ADD1.8 ADD specification Section 12362 (Epoxy Resin Window Sills), attached.

ADD1.9 ADD specification Section 12491 (Horizontal Louver Blinds), attached.

CHANGES TO DRAWINGS

ADD1.10 DELETE Window Detail S1 on drawing 1/A8.3.
ADD SKA-01 (Revised Window Detail S1), attached.

ADD1.11 DELETE Window Detail S4 on drawing 1/A8.3.
ADD SKA-02 (Revised Window Detail S4), attached.

ADD1.12 DELETE Window Detail S5 on drawing 1/A8.3.
ADD SKA-03 (Revised Window Detail S5), attached.

ADD1.13 DELETE Window Detail S6 on drawing 1/A8.3.
ADD SKA-04 (Revised Window Detail S6), attached.

ADD1.14 ADD SKA-05 (AC Unit Schedule Added to Sheet A8.1), attached.

GENERAL NOTES

ADD1.15 Provide horizontal louver blinds per specification Section 12491 (refer to item ADD1.9 above).

QUESTIONS FROM BIDDERS

ADD1.16 Most of the specified window manufacturers do not have a product that is 3 ¼" with 0.125" wall thickness. Is this requirement going to be enforced?
Response: Yes. Refer to item ADD1.5 above.

ADD1.17 Please confirm that the cost for testing of the mockup will fall on the window installer.
Response: Refer to item ADD1.7 above.

ADD1.18 Are the casement windows to be used as emergency egress windows? This would require hardware other than what is specified.

Response: *Yes, the casement windows are intended to be used for emergency egress. Provide manufacturer's standard emergency egress hardware.*

ADD1.19 Are AC units to be installed with aluminum angle on all four (4) sides? Are any additional brackets required?

Response: *Provide continuous angles at perimeter of opening on all four (4) sides. Provide angled bracing, as required, to support unit.*

ADD1.20 Are the AC units deep enough that they will interfere with the security screens? Should the security screens be designed to fit around the AC units?

Response: *The AC units will project beyond the primary plane of the security screens. Screens are to be designed to fit around the AC units, as indicated in specification Section 10606 Part 2.9.*

ADD1.21 Can we use other manufacturers such as Peerless or Wausau?

Response: *Refer to item ADD1.5 above.*

ADD1.22 There is a possibility that other asbestos abatement contractors (Access Demolition, ARC Construction Services, Inc., Power Component Systems, Inc., or Page Technologies) will be used on this Project. Does BCPSS have any objections to these companies?

Response: **BCPS TO RESPOND**

ADD1.23 Is an asbestos/lead report for the window caulking and glazing available? If not, is it reasonable to assume that they are ACM?

Response: **BCPS TO RESPOND. Of the 7 tests conducted, 3 showed ACM. Therefore proceed under the assumption that all of the caulk is ACM.**

ADD1.24 If construction is to take place after school hours/weekends, can more than two (2) classrooms be available for construction activities per day?

Response: **BCPS TO RESPOND. No, the contractor is limited to two classrooms at any given time during the school week, M-F.**

ADD1.25 The General Notes indicate that all lintels are to be scraped and painted. Is this necessary if the lintels are being covered with brake metal?

Response: *The existing lintels must be scraped and painted as indicated.*

ADD1.26 Are the reinforcing brackets required at the AC units to carry the dead load?

Response: *Yes.*

ADD1.27 On drawing 4/AD3.1 (South Elevation), there is an existing large HVAC unit in a window opening on the Third Floor. Will this unit be addressed by the Contract for the interior renovations? Who is responsible for the interior ductwork for this unit?

Response: *The removal of this unit in its entirety is included in this Contract. There is no ductwork associated with this unit inside the building.*

ADD1.28 There is no detail showing the security screens or AC brackets/boxes. Should the one of the manufacturer's standards be proposed?

Response: *Provide the manufacturer's standard detail for this condition.*

- ADD1.29** Alternate #1 of abating ACM at the windows is not possible during the summer months (prior to demolition of the existing /arrival of the new assembly). Please advise how to proceed.
Response: BCPS TO RESPOND. Remove the alternate #1.
- ADD1.30** What is the gage of the sheet metal to be used at the sills and headers?
Response: Provide 18 gage.
- ADD1.31** On drawing A1.3, the window opening in the stairwell adjacent to Classroom 303 is unmarked. Please verify that this is to be window **Type F**, as indicated on drawing 2/A3.1.
Response: Yes, this window is Type F.
- ADD1.32** General Notes #14 and #15 (re: opening limits on projecting windows) are in conflict with specification Section 08511 Part 2.4.E.1. Which is correct?
Response: Delete General Notes #14 and #15. Refer to item ADD1.6 for opening limit requirements.
- ADD1.33** Specification Section 08800 Parts 2.4 and 2.5 call for patterned and sputter-coated glass. Please verify that these glass types are not required on this project.
Response: Patterned glass is not required. Refer to specification Section 08800 Part 3.8.A for location of sputter-coated glass.
- ADD1.34** Specification Section 10606 Part 2.9 indicates that AC units are to be enclosed by the security screen. Please provide size of AC units, if available.
Response: Refer to SKA-05 indicated above for the sizes of the Basis of Design units.
- ADD1.35** Please confirm responsibility for the following: Construction of the swing space(s) for the client-use (teachers and students), physical relocation (and re-relocation) of the client-user before and after each phase of Construction.
Response: BCPS TO RESPOND. The contractor will be responsible for moving some equipment and teaching materials to and from designated spaces. In general this will not include an entire classroom of furniture.
- ADD1.36** Please confirm responsibility for the draining/refilling of the hydronic piping (baseboards) before and after Construction.
Response: There is no mechanical/plumbing Work in this Contract.
- ADD1.37** The cleaning requirements included in the documents provided seem extensive for the Work being performed. Do all of the cleaning requirements pertain to this Contract? Please clarify.
Response: BCPS TO RESPOND. The cleaning requirements in the RFP are intended for general renovation construction, and not this window replacement project. However, the selected window contractor will be responsible for proving that no ACM or dust migrated into the space and will be responsible for any cleaning required to pass IH testing.
- ADD1.38** The drawings indicate the “future re-use of sills”. Is the re-use and re-installation of the sills to be included in this Contract, or in the future Contract for interior renovations?

Response: *Delete references to “future re-use of sills”. This Contract is to include the removal of the existing sills. Provide epoxy resin sills throughout similar to SKA-001, SKA-002, SKA-004, and per specification Section 12362 (attached).*

ADD1.39 Please clarify who is to certify the MBE requirements for this Project, Baltimore City or MDOT.

Response: **BCPS TO RESPOND. Refer to the RFP-10042 for MBE/DBE instructions.**

END ADDENDUM NO. 1

From: Robert Nash [mailto:rnash@rkk.com]
Sent: Thursday, May 13, 2010 9:13 AM
To: dseeberger; Craig Abell; Todd Ward; timh@wsincusa.com; rdahms@tcco.com; justin schneider; john@cambuilds.com; bmckay@titocontractors.com; rcg@qualityww.com
Cc: sbroache; jeasterling; Larry Flynn; Don Brock
Subject: 102 Thomas G. Hayes (E-mail #05) - Architect Addendum No.1, Item No. ADD1.22

To All,

Addendum No. 1, Item No. ADD1.22 was inadvertently not answered. The question and answer is as follows:

ADD1.22 There is a possibility that other asbestos abatement contractors (Access Demolition, ARC Construction Services, Inc., Power Component Systems, Inc., or Page Technologies) will be used

on this Project. Does BCPSS have any objections to these companies?

Response: BCPS TO RESPOND. In accordance with the RFP Instructions, City Schools does not currently have enough information with regards to project performance and safety history to evaluate these subcontractors above in a timely manor prior to the bid date on Friaday, May 14, 2010. Please see paragraph VIII.IV.C, page 8 of the RFP Instructions.

Sincerely,

Robert Nash, PE, CCM
Project Manager

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SECTION 12362 – EPOXY RESIN WINDOW SILLS

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 the following:
 - 1. Epoxy resin interior window sills.

1.3 SUBMITTALS

- A. Product Data: For each type of product specified.
- B. Shop Drawings: For typical window types. Include plans, elevations, sections, details, and attachments to other work.
 - 1. Indicate locations and types joints.
 - 2. Show adjacent walls, doors, windows and other building components. Indicate clearances from above items.
- C. Samples for Verification: 6-inch- square samples for sill material.
- D. Qualification Data: For firms and persons specified in the "Quality Assurance" Article to demonstrate their capabilities and experience in fabricating epoxy resin products..
- E. Product Test Reports: Based on tests performed by a qualified independent testing agency, indicate compliance of sills with requirements specified for chemical and physical resistance.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain sills through one source from a single manufacturer.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver sills until painting, utility roughing-in, and similar operations that could damage, soil, or deteriorate casework have been completed in installation areas. If sills must be stored in other than installation areas, store only in areas whose environmental conditions meet requirements specified in "Project Conditions" Article below.

- B. Protect finished surfaces from soiling and damage during handling and installation. Keep covered with polyethylene film or other protective covering.

1.6 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install sills until building is enclosed, wet-work is completed, and HVAC system is operating and will maintain temperature and relative humidity at occupancy levels through remainder of construction period.

1.7 EXTRA MATERIALS

- A. Furnish complete touchup kit. Include scratch fillers, stains, finishes, and other materials necessary to perform permanent repairs to damaged sill finish.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 1. Durcon Company, Inc. (The).
 2. Laboratory Tops, Inc.

2.2 EPOXY RESIN WINDOW SILLS

- A. Sills, General: Provide smooth, clean exposed sills and edges in uniform plane free of defects. Make exposed edges and corners uniformly beveled. Align front edge of sill to be flush with face of wall below.
- B. Epoxy Sills: Factory molded of modified epoxy-resin formulation, uniform mixture throughout full thickness with smooth, nonspecular finish.
 1. Physical Properties: Comply with the following minimum requirements:
 - a. Flexural strength: 15,000 psi.
 - b. Compressive strength: 30,000 psi.
 - c. Hardness (Rockwell M): 100.
 - d. Water absorption (24 hours): 0.02 percent (maximum).
 - e. Heat distortion point: 350 deg F.
 - f. Thermal-shock resistance: Highly resistant.
 2. Chemical Resistance: Epoxy-resin material has the following ratings when tested with indicated reagents according to NEMA LD 3, test procedure 3.9.5:
 - a. Acetone: Moderate effect.
 - b. Acetic acid (98 percent): No effect.

- c. Hydrochloric acid (37 percent): No effect.
 - d. Nitric acid (70 percent): No effect.
 - e. Phosphoric acid (85 percent): No effect.
 - f. Sulfuric acid (33 percent): No effect.
 - g. Benzene: No effect.
 - h. Butyl alcohol: No effect.
 - i. Carbon tetrachloride: No effect.
 - j. Ethyl acetate: No effect.
 - k. Ethyl ether: No effect.
 - l. Formaldehyde: No effect.
 - m. Phenol (85 percent): No effect.
 - n. Xylene: No effect.
 - o. Ammonium hydroxide (28 percent): No effect.
 - p. Sodium hydroxide (50 percent): Moderate effect.
 - q. Zinc chloride: No effect.
3. Colors: Provide products that result in colors complying with the following requirements:
- a. Color: Black.
4. Sill Fabrication: Cast surfaces very smooth. Fabricate plain butt-type joints assembled with epoxy adhesive and prefitted, concealed metal splines.
- a. Sill Configuration: Square edge.
 - b. Sill Thickness: 1 inch.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas, with Installer present, for compliance with requirements for installation tolerances, location of reinforcement, and other conditions affecting performance of wood laboratory casework installation.
 - 1. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION OF SILLS

- A. Fabricate sills in longest lengths possible.
- B. Field Jointing: Locate field joints where shown on approved Shop Drawings. Where joints are required, align with center of columns or vertical window mullions.
- C. Fastenings: Secure epoxy sills to top of wall with epoxy cement, applied at each corner and along perimeter edges of not more than 48 inches (1200 mm) o.c. Shim as required for a level installation.
- D. Abut top and edge surfaces in one true plane, with internal supports placed to prevent deflection. Provide flush hairline joints in tops using clamping devices.

1. Where necessary to penetrate tops with fasteners, countersink heads approximately 1/8 inch and plug hole flush with material equal to top in chemical resistance, hardness, and appearance.

E. Carefully dress joints smooth, remove surface scratches, and clean entire surface.

F. Provide scribe moldings for closures at junctures of sill with walls as recommended by manufacturer for materials involved. Use chemical-resistant, permanently elastic sealing compound where recommended by manufacturer.

3.3 CLEANING AND PROTECTING

A. Repair or remove and replace defective work as directed on completion of installation.

B. Clean finished surfaces, touch up as required, and remove or refinish damaged or soiled areas to match original factory finish, as approved by Architect.

C. Protection: Provide 6-mil plastic or other suitable water-resistant covering over window sill surfaces. Tape to underside of sill at minimum of 48 inches o.c.

END OF SECTION 12362

SECTION 12491 - HORIZONTAL LOUVER BLINDS

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 the following:
 - 1. Horizontal louver blinds with aluminum slats.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Show fabrication and installation details for horizontal louver blinds.
- C. Samples for Initial Selection: For each type and color of horizontal louver blind indicated.
 - 1. Include similar Samples of accessories involving color selection.
- D. Samples for Verification: For each type and color of horizontal louver blind indicated.
 - 1. Slat: Not less than 12 inches (300 mm) long.
 - 2. Tapes: Full width, not less than 6 inches (150 mm) long.
 - 3. Horizontal Louver Blind: Full-size unit, not less than 16 inches (400 mm) wide by 24 inches (600 mm) long.
 - 4. Valance: Full-size unit, not less than 12 inches (300 mm) wide.
 - 5. Cornice: Full-size unit, not less than 12 inches (300 mm) wide.
- E. Product Certificates: For each type of horizontal louver blind, signed by product manufacturer.
- F. Maintenance Data: For horizontal louver blinds to include in maintenance manuals.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain horizontal louver blinds through one source from a single manufacturer.
- B. Fire-Test-Response Characteristics: Provide horizontal louver blinds with the fire-test-response characteristics indicated, as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having

jurisdiction. Identify materials with appropriate markings of applicable testing and inspecting agency.

1. Flame-Resistance Ratings: Passes NFPA 701.

C. Product Standard: Provide horizontal louver blinds complying with WCSC A 100.1.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver horizontal louver blinds in factory packages, marked with manufacturer and product name, fire-test-response characteristics, lead-free designation, and location of installation using same designations indicated on Drawings and in a window treatment schedule.

1.6 PROJECT CONDITIONS

A. Environmental Limitations: Do not install horizontal louver blinds until construction and wet and dirty finish work in spaces, including painting, is complete and dry and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

B. Field Measurements: Where horizontal louver blinds are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operable glazed units' operation hardware throughout the entire operating range. Notify Architect of discrepancies. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1.7 EXTRA MATERIALS

A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Horizontal Louver Blinds: Before installation begins, for each size, color, texture, pattern, and gloss indicated, full-size units equal to 5 percent of amount installed, but no fewer than 3 units.

PART 2 - PRODUCTS

2.1 HORIZONTAL LOUVER BLINDS, ALUMINUM SLATS

A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:

1. Levolor, a Newell Rubbermaid Company; Riviera Dustguard Audio Visual School Blind by Levelor Home Fashions, 2" or 1" as specified..

B. Slats:

1. Description: 5000 series magnesium aluminum alloy which includes recycled aluminum materials, tempered to optimize mechanical properties;
2. Size for Macroblinds: nominal 2 inch wide x nominal 0.009 inch thick after coating.
3. Size for Miniblinds: nominal 1 inch wide
4. Slats shall be routed with notches on back edge to give superior closure
5. Finish: Painted solid colors with Levelor Dustguard.

C. Headrail:

1. Description: U-shaped low-profile channel of corrosion resistant Tomized steel.
2. Thickness: Minimum .025 inch thick
3. Size for Macroblinds: 2 5/16 inch high by 2 1/4" wide
4. Finish: Baked on polyester paint in finish to match slats
5. Hardware: Enclosed in headrail.

D. Bottom Rail:

1. Description: Formed of corrosion resistant Tomized steel
2. Thickness: Minimum 0.025 inch thick. Form with two 1/2" parallel ribs running lengthwise for optimum beam and torsional strength. Fabricate to accept hold-down pins to secure bottom rail to jamb or sill.
3. End caps: Provide with snap-on plastic end caps to protect window jamb and sill.
4. Finish: Baked in polyester paint in finish to match slats.

E. Maximum Light-Blocking Blinds: Designed for eliminating all visible light gaps if slats are tilted closed; with tight tape spacing indicated and slats with minimal-sized rout holes for ladders hidden and placed near back edge for maximum slat overlap; with headrail and bottom rail extended and formed for light-tight joints between rail and adjacent slats or construction.

1. Finish: Painted solid colors with Levelor Dustguard.

F. Ladder tape rolls

1. Description: Steel with stabilized loops to hold tape ends firmly and provide full tilting action.

G. Lift cord:

1. Description: Braided polyester cord of sufficient length to properly control raising and lowering with pull ring. Meet or exceed commercial item specification number 1029-86.
2. Lift Cord Option: Lift cord shall terminate in the front of the bottom rail on same side with cord lock.

H. Tilt Control: Enclosed worm-gear mechanism, slip clutch or detachable wand preventing overrotation, and linkage rod, and the following:

1. Tilt Operation: Manual with clear plastic wand.
2. Length of Tilt Control: Length required to make operation convenient from floor level.
3. Tilt: Full.

- I. Lift Operation: Manual, top-locking cord lock; locks pull cord to stop blind in either fully opened or fully closed position only and is equipped with a ring pull not more than 4 inches (100 mm) long.
- J. Mounting: Wall, ceiling, end or wall extension bracket mounting to permit easy removal and replacement without damaging blind or adjacent surfaces and finishes; with spacers and shims required for blind placement and alignment indicated.
 - 1. Provide intermediate support brackets if end support spacing exceeds spacing recommended by manufacturer for weight and size of blind.
- K. Colors, Textures, Patterns, and Gloss: As selected by Architect from manufacturer's full range.

2.2 HORIZONTAL LOUVER BLIND FABRICATION

- A. Concealed Components: Noncorrodible or corrosion-resistant-coated materials.
 - 1. Lift-and-Tilt Mechanisms: With permanently lubricated moving parts.
- B. Unit Sizes: Obtain units fabricated in sizes to fill window and other openings as follows, measured at 74 deg F (23 deg C):
 - 1. Blind Units Installed between (inside) Jambs: Width equal to 1/4 inch (6 mm) per side or 1/2 inch (13 mm) total, plus or minus 1/8 inch (3.1 mm), less than jamb-to-jamb dimension of opening in which each blind is installed. Length equal to 1/4 inch (6 mm), plus or minus 1/8 inch (3.1 mm), less than head-to-sill dimension of opening in which each blind is installed.
 - 2. Blind Units Installed outside Jambs: Width and length as indicated, with terminations between blinds of end-to-end installations at centerlines of mullion or other defined vertical separations between openings.
- C. Installation Brackets: Designed for easy removal and reinstallation of blind, for supporting headrail and operating hardware, and for hardware position and blind mounting method indicated.
- D. Installation Fasteners: No fewer than two fasteners per bracket, fabricated from metal noncorrosive to blind hardware and adjoining construction; type designed for securing to supporting substrate; and supporting blinds and accessories under conditions of normal use.
- E. Color-Coated Finish:
 - 1. Metal: For components exposed to view, apply manufacturer's standard baked finish complying with manufacturer's written instructions for surface preparation including pretreatment, application, baking, and minimum dry film thickness.
- F. Component Color: Provide rails, cords, ladders, and exposed-to-view metal and plastic matching or coordinating with slat color, unless otherwise indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, operational clearances, and other conditions affecting performance.
 - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install horizontal louver blinds level and plumb and aligned with adjacent units according to manufacturer's written instructions, and located so exterior slat edges in any position are not closer than 2 inches (51 mm) to interior face of glass. Install intermediate support as required to prevent deflection in headrail. Allow clearances between adjacent blinds and for operating glazed opening's operation hardware if any.

3.3 LOCATION SCHEDULE

- A. Provide 2" louver blinds at all exterior windows except in Boiler Room 103, Gymnasium 123, all corridors and stairs.
- B. Mounting: Install horizontal louver blinds on face of new window system frame.

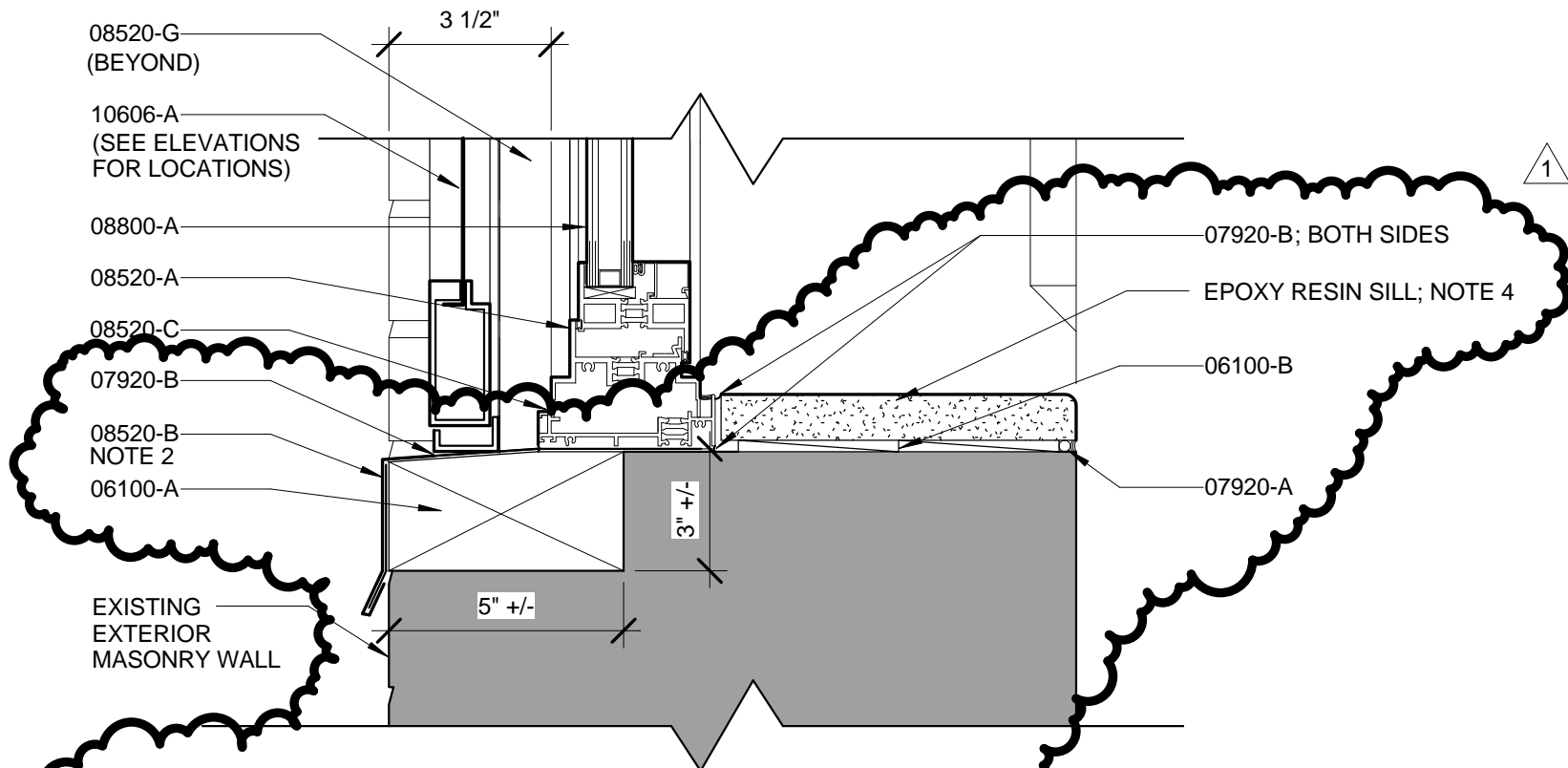
3.4 ADJUSTING

- A. Adjust horizontal louver blinds to operate smoothly, easily, safely, and free of binding or malfunction throughout entire operational range.

3.5 CLEANING AND PROTECTION

- A. Clean horizontal louver blind surfaces after installation, according to manufacturer's written instructions.
- B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure that horizontal louver blinds are without damage or deterioration at time of Substantial Completion.
- C. Replace damaged horizontal louver blinds that cannot be repaired, in a manner approved by Architect, before time of Substantial Completion.

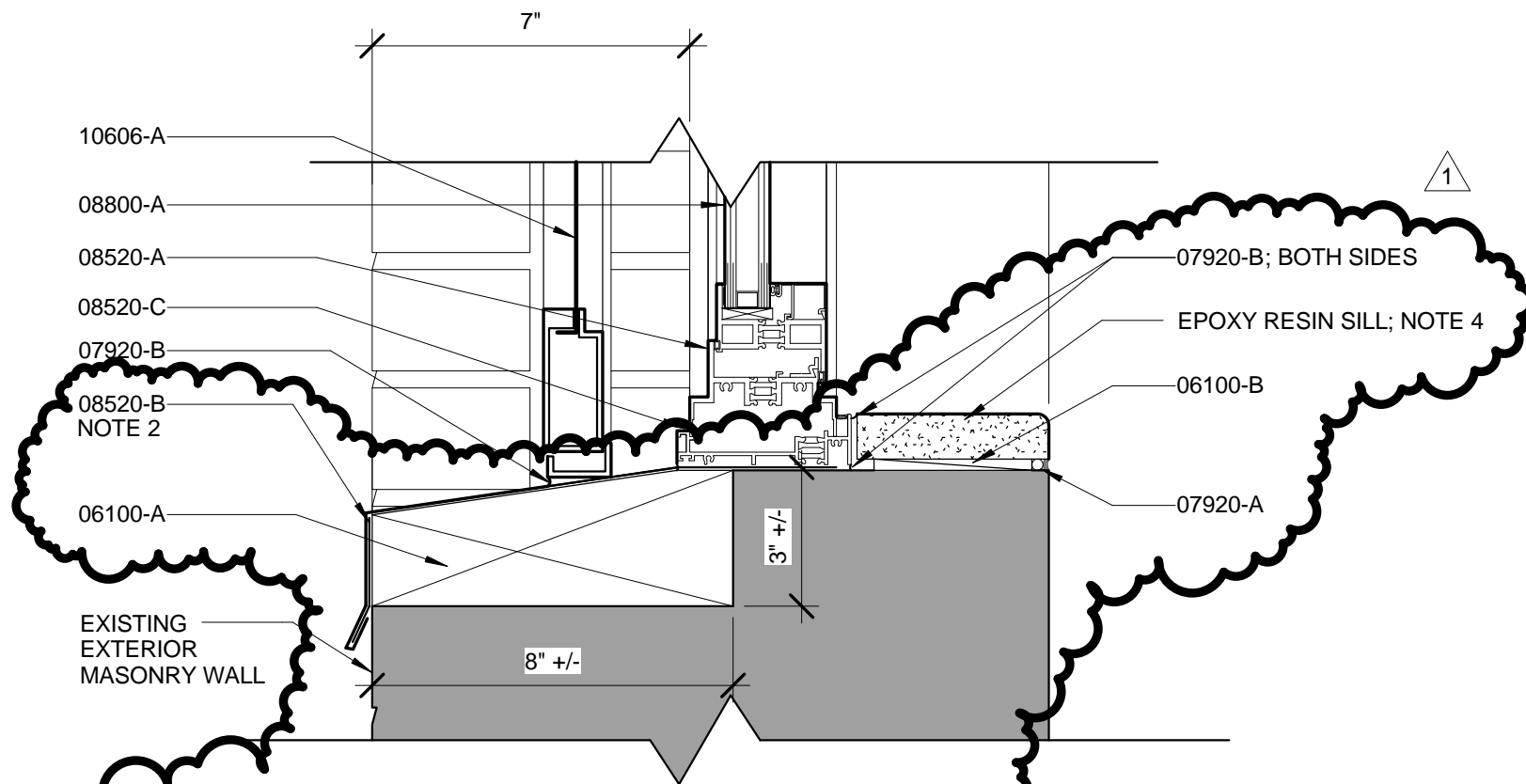
END OF SECTION 12491



S1


- NOTE 1:** REMOVE EXISTING EXTERIOR STONE SILL AND ANY EXCESS MORTAR TO PREPARE FOR INSTALLATION OF NEW WORK.
NOTE 2: WRAP 06100-A; EXTEND UNDER 08520-C AS REQUIRED.
NOTE 3: 06100-A TO BE PRESSURE TREATED; CONTINUOUS.
NOTE 4: REFER TO SPECIFICATION SECTION 12362 FOR REQUIREMENTS.

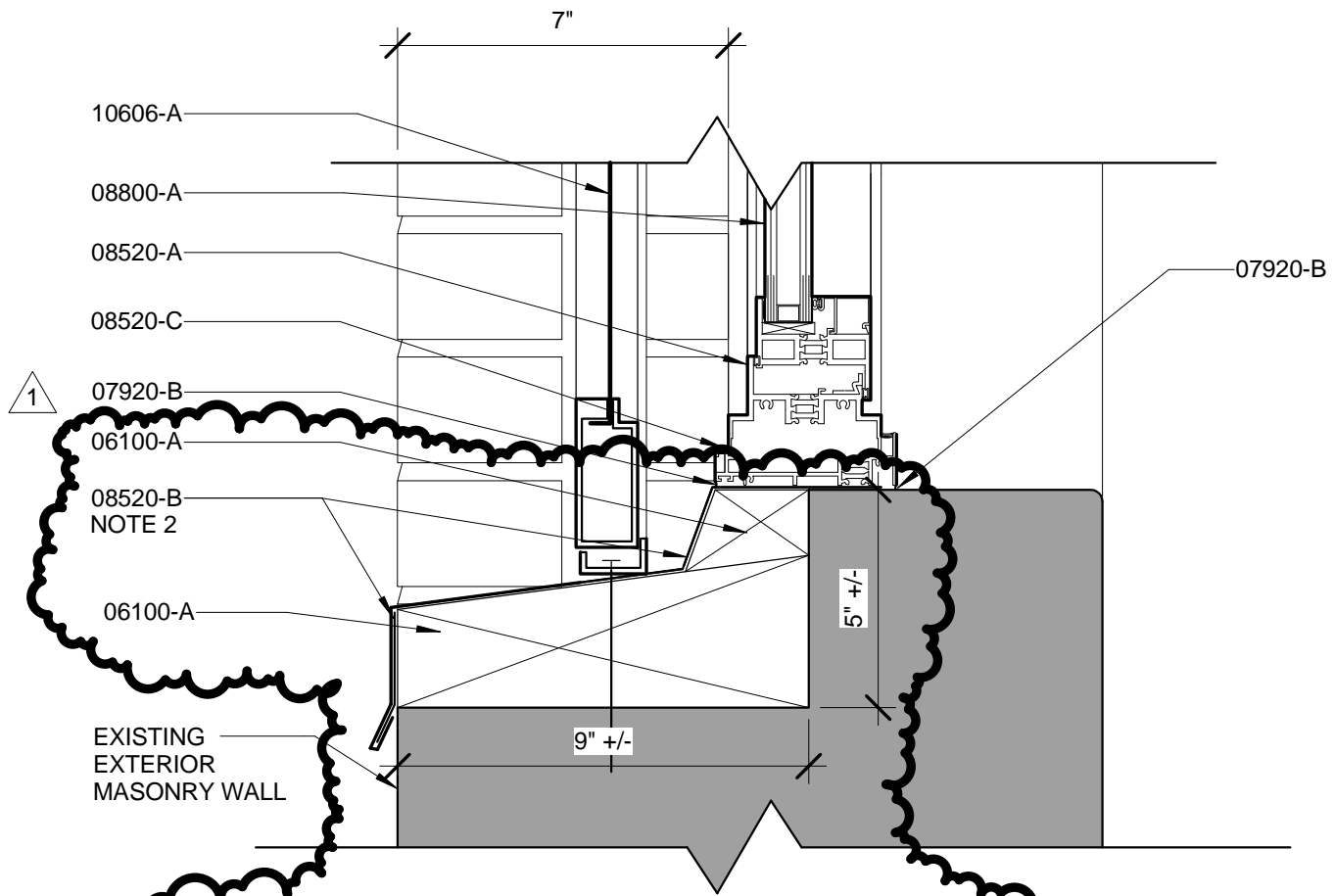
| | | | | |
|--|--------|------------|--------------|---|
| DRAWING: REVISED WINDOW DETAIL S1 (1/A8.3) | REV # | DATE | ADDENDUM NO. |  |
| | 1 | 05/12/2010 | ADD-001 | |
| PROJECT: NO. 102 THOMAS G. HAYES WINDOW REPLACEMENT | SCALE: | 3" = 1'-0" | SKETCH NO. | <small>GWGO INC. 800 WYMAN PARK DRIVE, SUITE 200 BALTIMORE, MARYLAND 21211, 410-332-1009 © 2010 GWGO INC.</small> |
| | | JOB NO. | 1003.1 | |



NOTE 1: REMOVE EXISTING EXTERIOR STONE SILL AND ANY EXCESS MORTAR TO PREPARE FOR INSTALLATION OF NEW WORK.
NOTE 2: WRAP 06100-A; EXTEND UNDER 08520-C AS REQUIRED.
NOTE 3: 06100-A TO BE PRESSURE TREATED; CONTINUOUS
NOTE 4: REFER TO SPECIFICATION SECTION 12362 FOR REQUIREMENTS.


S4

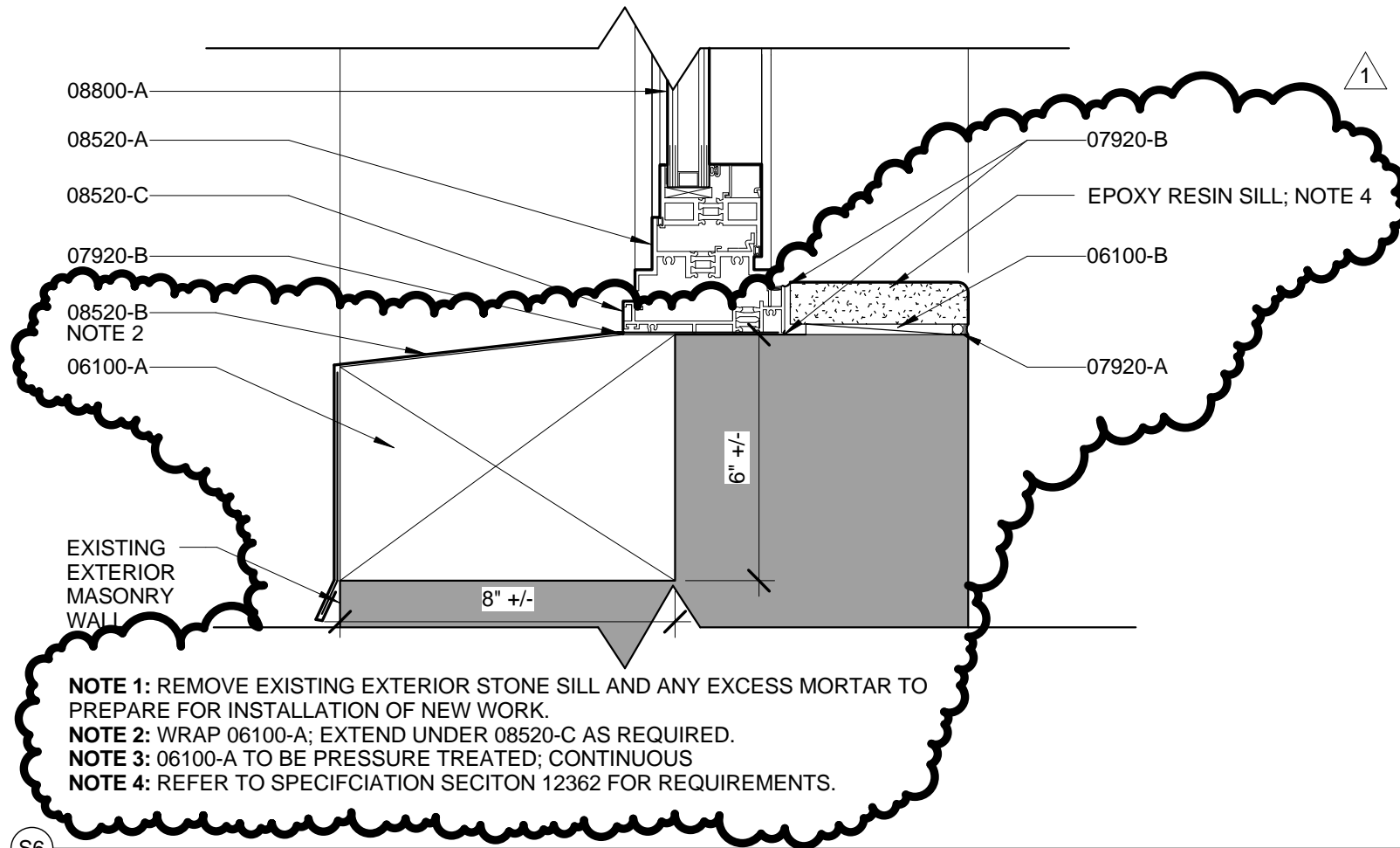
| | | | | |
|--|--------|------------|--------------|---|
| DRAWING: REVISED WINDOW DETAIL S4 (1/A8.3) | REV # | DATE | ADDENDUM NO. |  |
| | 1 | 05/12/2010 | ADD-001 | |
| PROJECT: NO. 102 THOMAS G. HAYES WINDOW REPLACEMENT | SCALE: | 3" = 1'-0" | SKETCH NO. | <small>GWWO INC. 800 WYMAN PARK DRIVE, SUITE 200 BALTIMORE, MARYLAND 21211, 410-332-1009 © 2010 GWWO INC.</small> |
| | | JOB NO. | 1003.1 | |



NOTE 1: REMOVE EXISTING EXTERIOR STONE SILL AND ANY EXCESS MORTAR TO PREPARE FOR INSTALLATION OF NEW WORK.
NOTE 2: WRAP 06100-A; EXTEND UNDER 08520-C AS REQUIRED.
NOTE 3: 06100-A TO BE PRESSURE TREATED; CONTINUOUS

S5

| | | | | |
|--|--------|------------|--------------|---|
| DRAWING: REVISED WINDOW DETAIL S5 (1/A8.3) | REV # | DATE | ADDENDUM NO. |  |
| | 1 | 05/12/2010 | ADD-001 | |
| PROJECT: NO. 102 THOMAS G. HAYES WINDOW REPLACEMENT | SCALE: | 3" = 1'-0" | SKETCH NO. | <small>GWWO INC. 800 WYMAN PARK DRIVE, SUITE 300 BALTIMORE, MARYLAND 21211, 410-332-1009 © 2010 GWWO INC.</small> |
| | | JOB NO. | 1003.1 | |



S6

DRAWING:

REVISED WINDOW DETAIL S6 (1/A8.3)

PROJECT:

NO. 102 THOMAS G. HAYES WINDOW REPLACEMENT

| REV # | DATE |
|-------|------------|
| 1 | 05/12/2010 |

| | |
|--------|------------|
| SCALE: | 3" = 1'-0" |
|--------|------------|

| | |
|---------|--------|
| JOB NO. | 1003.1 |
|---------|--------|

ADDENDUM NO.

ADD-001

SKETCH NO.

SKA-004


G | W
W | O

GWWO INC.
800 WYMAN PARK DRIVE, SUITE 300
BALTIMORE, MARYLAND 21211, 410-332-1009
© 2010 GWWO INC.

| AC UNIT SCHEDULE | |
|------------------|---|
| BASIS OF DESIGN | LOCATIONS/ROOMS |
| GE AKM06LN | 100C, 101A, 108 (2), 210 & 310 |
| GE AKM12AN | 100B, 101B, 108, 210 & 310 |
| GE AKM18DN | 100, 100A, 102C, 107 (2), 112 & 114 |
| GE AKM25DN | 102A, 105 (4), 110, 111, 113, 115, 116, 117, 117A, 204, 205, 206, 208, 209 (2), 209A, 211, 212, 213 (2), 214, 215 (2), 216, 303, 304, 305, 307, 308, 309, 311, 312, 313 (2), 314, 315 & 316 |

NOTE: AC UNITS ARE FURNISHED UNDER A SEPARATE CONTRACT AND TO BE INSTALLED UNDER THIS CONTRACT. POWER WILL ALSO BE PROVIDED UNDER A SEPARATE CONTRACT.

1

| | | | | |
|--|---------|--------------|-------------------------|---|
| DRAWING: AC UNIT SCHEDULE ADDED TO SHEET A8.1 | REV # | DATE | ADDENDUM NO. ADD-001 |  |
| | 1 | 05/12/2010 | | |
| PROJECT: NO. 102 THOMAS G. HAYES WINDOW REPLACEMENT | SCALE: | 1/4" = 1'-0" | SKETCH NO. SKA-005 | <small>GWVO INC. 300 WYMAN PARK DRIVE, SUITE 300 BALTIMORE, MARYLAND 21211, 410.332.1009 © 2010 GWVO INC.</small> |
| | JOB NO. | 1003.1 | | |