ADDENDUM NO. 1

PROJECT TITLE:	Cemetery Maintenance Building City of Jonesboro Jonesboro, Arkansas
OWNER:	City of Jonesboro 300 South Church Street Jonesboro, Arkansas 72401
OWNER'S REPRESENTATIVE:	Mayor Harold Perrin City of Jonesboro 300 South Church Street Jonesboro, Arkansas 72401 (870) 932-1052
ARCHITECT:	Brackett-Krennerich and Associates P.A. 100 East Huntington Avenue, Suite D Post Office Box 1655 Jonesboro, Arkansas 72403-1655 (870) 932-0571 *office*
CONSULTING ENGINEERS:	MECHANICAL/PLUMBING/ELECTRICAL ENGINEER Pack Engineering Inc. 425 West Capitol Avenue #325 Little Rock, AR 72201 (501) 372-6968 *office* STRUCTURAL ENGINEER Smith Engineering Co. P.O. Box 299 Marion, AR 72364 (870) 739-5533 *office* CIVIL ENGINEER Associated Engineering and Testing, LLC 103 S. Church Street Jonesboro, AR 72401 (870) 932-3594 *office*
COMMISSION NUMBER:	10217
DATE OF ISSUE:	June 2017
BID DATE/LOCATION:	Wednesday, June 28,2017 at 2:00 p.m. C.D.S.T Third Floor Engineering Department Room Municipal Building Center 300 South Church Street Jonesboro, Arkansas 72401

Contractor shall take note of the following listed revisions and/or additions to the drawings and specifications for the above referenced project and adjust the contract sum accordingly. These revisions are hereby made a part of said documents and subsequent construction as if therein included.

ARCHITECTURAL

1. Specifications: Section 00 0115 – List of Drawing Sheets; delete in its entirety and add section below:

SECTION 00 0115

LIST OF DRAWING SHEETS

THE FOLLOWING DRAWINGS DATED MAY 30, 2017 BEARING THE ARCHITECT'S COMMISSION NUMBER 10217 WITH THESE SPECIFICATIONS FORM THE CONTRACT DOCUMENTS.

GENERAL
G001 ..... COVER SHEET

CIVIL
C000 ..... SURVEY (REFERENCE ONLY)
C001 ..... SITE PLAN (ARCHITECTURAL)
C002 ..... SITE DEVELOPMENT PLAN
C003 ..... SITE DETAILS

LIFE SAFETY
LS001 ..... LIFE SAFETY PLAN, CODE ANALYSIS

ARCHITECTURAL
A001 ..... DOOR SCHEDULE, VISUAL DOOR TYPES, HOLLOW METAL FRAME SCHEDULE, ALUMINUM FRAME SCHEDULE, VISUAL WALL TYPES
A002 ..... HOLLOW METAL FRAME DETAILS, ALUMINUM FRAME DETAILS
A100 ..... FLOOR PLAN, ENLARGED FLOOR PLAN, ENLARGED MEZZANINE FLOOR PLAN, PLAN DETAIL
A101 ..... ROOF PLAN AND ROOF DETAILS
A200 ..... BUILDING ELEVATIONS
A201 ..... BUILDING SECTIONS
A202 ..... BUILDING SECTION
A400 ..... REFLECTED CEILING PLAN AND ENLARGED REFLECTED CEILING PLAN
A500 ..... WALL SECTIONS
A501 ..... WALL SECTIONS
A600 ..... STANDARD MOUNTING HEIGHTS, ADA NOTES
A601 ..... TOILET ELEVATION, MILLWORK ELEVATION, CABINET SECTIONS

STRUCTURAL
S100 ..... FOUNDATION PLAN AND DETAILS
S200 ..... MEZZANINE FRAMING PLAN AND DETAILS

MECHANICAL
M100..... MECHANICAL FLOOR PLAN
M200..... SCHEDULES AND DETAILS

PLUMBING
P100 ..... PLUMBING FLOOR PLAN
P200 ..... PLUMBING SCHEDULE AND RISERS
P201 ..... PLUMBING DETAILS

ELECTRICAL

E100 ..... ELECTRICAL INFORMATION
E200..... LIGHTING FLOOR PLAN
E201..... POWER FLOOR PLAN
E300..... SCHEDULES AND RISERS
E400..... ELECTRICAL DETAILS

End of List of Drawings

2. Specifications: Section 08 7100 – Door Hardware; delete in its entirety and add section below:

SECTION 08 7100
DOOR HARDWARE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Hardware for hollow steel doors.
B. Thresholds.
C. Weather-stripping and door gaskets.
D. Includes screws, special screws, bolts, special bolts, expansion shields, and other devices for proper application of hardware.

1.02 RELATED REQUIREMENTS

A. Section 08 1113 - Hollow Metal Doors and Frames.

1.03 REFERENCES

A. ANSI/ICC A117.1 - American National Standard for Accessible and Usable Buildings and Facilities; International Code Council; latest issue.
B. DHI (LOCS) - Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames; Door and Hardware Institute; 2001.
C. IBC 2012 - International Building Code.

1.04 SUBMITTALS

A. See Section 01 3323 - Submittals, for submittal procedures.
B. Shop Drawings:
    1. Indicate locations and mounting heights of each type of hardware, schedules, catalog cuts.
    2. No templates are to be distributed until all Hardware Schedule has been approved by the architect.
    3. Approval of the schedule will not relieve the contractor of the responsibility of furnishing all necessary hardware.
    4. Copies of the approved schedule with necessary templates are to be furnished by the hardware suppliers to other affected subcontractor or material supplier.
    5. Include with each schedule a door index, list of related information to facilitate checking by architect.
    6. Hardware Schedule shall clearly indicate architect's hardware group and manufacturer of each item proposed.
C. The schedule shall be reviewed prior to submission by a certified Architectural Hardware Consultant (AHC), who shall affix his or her seal attesting to the completeness and correctness of the schedule.
    1. Provide 2 copies of illustrations from manufacturer's catalogs and data in brochure form.
    2. Check specified hardware for suitability and adaptability to details and surrounding conditions. Indicate unsuitable or incompatible items and proposed substitutions in hardware schedule.
    3. Provide listing of manufacturer's template numbers for each item of hardware in hardware schedule.

4. Furnish other Contractors and Subcontractors concerned with copies of final approved hardware schedule. Submit necessary templates and schedules as soon as possible to hollow metal door fabricators in accordance with schedule they require for fabrication.
5. Samples: Lever design or finish sample: Provide 3 samples if requested by architect.

D. Installation Instructions: Provide manufacturer's written installation and adjustment instructions for finish hardware. Send installation instructions to site with hardware.

E. Templates: Submit templates and "reviewed Hardware Schedule" to door and frame supplier and others as applicable to enable proper and accurate sizing and locations of cutouts and reinforcing.

F. Contract Closeout Submittals: Comply with Section 01 7800 including specific requirements indicated below.
1. Operating and maintenance manuals: Submit 3 sets containing the following:
2. Complete information in care, maintenance, and adjustment, and data on repair and replacement parts, and information on preservation of finishes.
3. Catalog pages for each product.
4. Name, address, and phone number of local representative for each manufacturer.
5. Parts list for each product.
6. Copy of final approved hardware schedule, edited to reflect "As installed".
7. Copy of final keying schedule.
8. One complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

G. Warranty: Submit manufacturer's warranty and ensure that forms have been completed in Owners name and registered with the manufacturer.

1.05 QUALITY ASSURANCE

A. Supplier: Recognized architectural finish hardware supplier, with warehousing facilities, who has been providing hardware for period of not less than 3 years. The supplier shall be, or employ, a certified Architectural Hardware Consultant (AHC) The hardware schedule shall be prepared and signed by a certified AHC.

B. Installer: Firm with 3 years experience in installation of similar hardware to that required for this project, including specific requirements indicated.

C. Regulatory Label Requirements: Provide nationally recognized testing agency label or stamp on hardware for labeled openings. Where UL requirements conflict with drawings or specifications, hardware conforming to UL requirements shall be provided. Conflicts and proposed substitutions shall be clearly indicated in hardware schedule.

D. Handicapped Requirements: Doors to loading platforms, boiler rooms, stages and doors serving other hazardous locations shall have knurled or other similar approved marking of door lever handles or cross bars in accordance with local building codes.

E. Pre-Installation Conference: Prior to the installation of hardware, arrange and hold a jobsite meeting to instruct the installing contractor's personnel on the proper installation of their respective products.

F. Source Limitations: Obtain each type and variety of Door Hardware specified in this Section from a single source, qualified supplier unless otherwise indicated.

G. Regulatory Requirements: Comply with NFPA 70, NFPA 80, NFPA 101 and ANSI A117.1 requirements and guidelines as directed in the model building code including, but not limited to, the following:
1. Where indicated to comply with accessibility requirements, comply with Americans with Disabilities Act (ADA), "Accessibility Guidelines for Buildings and Facilities (ADAAG)," ANSI A117.1 as follows:
   a. Handles, Pulls, Latches, Locks, and other Operating Devices: Shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist.
   b. Door Closers: Comply with the following maximum opening-force requirements indicated:
      1) Interior Hinged Doors: 5 lbf applied perpendicular to door.

c. Thresholds: Not more than 1/2 inch high. Bevel raised thresholds with a slope of not more than 1:2.

2. NFPA 101: Comply with the following for means of egress doors:
   a. Latches, Locks, and Exit Devices: Not more than 15 lbf to release the latch. Locks shall not require the use of a key, tool, or special knowledge for operation.
   b. Thresholds: Not more than 1/2 inch high.

H. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.

I. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
   1. Function of building, purpose of each area and degree of security required.
   2. Plans for existing and future key system expansion.
   3. Requirements for key control storage and software.
   4. Installation of permanent keys, cylinder cores and software.
   5. Address and requirements for delivery of keys.

J. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
   1. Prior to installation of door hardware, arrange for manufacturers' representatives to hold a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware for aluminum and hollow metal doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
   2. Review sequence of operation narratives for each unique access controlled opening.
   3. Review and finalize construction schedule and verify availability of materials.
   4. Review the required inspecting, testing, commissioning, and demonstration procedures

K. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule

1.06 DELIVERY, STORAGE AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.07 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

1.08 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
   1. Structural failures including excessive deflection, cracking, or breakage.

2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.

C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.

D. Special Warranty Periods:
1. Ten years for mortise locks and latches.
2. Ten years for extra heavy duty cylindrical (bored) locks and latches.
3. Seven years for heavy duty cylindrical (bored) locks and latches.
4. Five years for standard duty cylindrical (bored) locks and latches.
5. Five years for exit hardware.
6. Twenty five years for manual door closers.

1.09 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

B. Continuing Service: Beginning at Substantial Completion, and running concurrent with the specified warranty period, provide continuous (6) months full maintenance including repair and replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper door opening operation. Provide parts and supplies as used in the manufacture and installation of original products.

PART 2 - PRODUCTS

2.01 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.
1. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:
a. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

B. Substitutions: Requests for substitution and product approval for inclusive mechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.02 HANGING DEVICES

A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles as specified in the Door Hardware Sets.
1. Quantity: Provide the following hinge quantity, unless otherwise indicated:
a. Two Hinges: For doors with heights up to 60 inches.
b. Three Hinges: For doors with heights 61 to 90 inches.
c. Four Hinges: For doors with heights 91 to 120 inches.
d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
4. Hinge Options: Comply with the following where indicated in the Hardware Sets or on Drawings:

a. Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the following applications:
   1) Out-swinging exterior doors.
   2) Out-swinging access controlled doors.

5. Acceptable Manufacturers:
   a. Stanley (ST).
   b. Hager Companies (HA).
   c. McKinney Products (MK).

B. Continuous Geared Hinges: ANSI/BHMA A156.26 certified continuous geared hinge with minimum 0.120-inch thick extruded 6060 T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Provide concealed flush mount (with or without inset), full surface, or half surface, in standard and heavy duty models, as specified in the Hardware Sets. Concealed continuous hinges to be U.L. listed for use on up to and including 90 minute rated door installations and U.L. listed for windstorm components where applicable. Factory cut hinges for door size and provide with removable service power transfer panel where indicated at electrified openings.

1. Acceptable Manufacturers:
   a. Stanley (ST).
   b. Hager Companies (HA).
   c. McKinney Products (MK).

2.03 DOOR OPERATING TRIM

A. Flush Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified automatic, self-latching, and manual flush bolts and surface bolts. Manual flush bolts to be furnished with top rod of sufficient length to allow bolt location approximately six feet from the floor. Furnish dust proof strikes for bottom bolts. Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.

1. Acceptable Manufacturers:
   a. Rockwood Manufacturing (RO).
   b. Hager Companies (HA).
   c. Trimco

B. Door Push Plates and Pulls: ANS/BHMA A156.6 certified door pushes and pulls of type and design specified below or in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Push/Pull Plates: Minimum.050 inch thick, 4-inches wide by 16-inches high, with square corners and beveled edges, secured with exposed screws unless otherwise indicated.
2. Straight Pull Design: Minimum 1-inch round diameter stainless steel bar or tube stock pulls with 2 1/2-inch projection from face of door unless otherwise indicated.
3. Offset Pull Design: Minimum 1-inch round diameter stainless steel bar or tube stock pulls with 2 1/2-inch projection and offset of 90 degrees unless otherwise indicated.
4. Push Bars: Minimum 1-inch round diameter horizontal push bars with minimum clearance of 2 1/2-inch projection from face of door unless otherwise indicated.
5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.
   a. Acceptable Manufacturers:
      1) Rockwood Manufacturing (RO).
      2) Hager Companies (HA).
      3) Trimco

2.04 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.

C. Cylinders: Original manufacturer cylinders complying with the following:

1. Mortise Type: Threaded cylinders with rings and straight- or clover-type cam.
2. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored-Lock Type: Cylinders with tailpieces to suit locks.

D. Keying System: Each type of lock and cylinders to be factory keyed. Conduct specified "Keying Conference" to define and document keying system instructions and requirements. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner. Incorporate decisions made in keying conference, and as follows:
1. Master Key System: Cylinders are operated by a change key and a master key.
2. Grand Master Key System: Cylinders are operated by a change key, a master key, and a grand master key.
3. Great-Grand Master Key System: Cylinders are operated by a change key, a master key, a grand master key, and a great-grand master key.
4. Existing System: Master key or grand master key locks to Owner's existing system.
   a. Provide Sargent "LC" keyway for all cylinders and lock cores to match
      1) the owner's existing key system.
5. Keyed Alike: Key all cylinders to same change key.

E. Key Quantity: Provide the following minimum number of keys:
1. 1 each Grand Masterkeys
2. 4 each Masterkeys
3. 2 each Change keys each keyed core
4. 15 each Construction masterkeys
5. 3 each Construction Control keys

F. Key Registration List: Provide keying transcript list to Owner's representative in the proper format for importing into key control software.

2.05 MECHANICAL LOCKS AND LATCHING DEVICES

A. Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 certified mortise locksets furnished in the functions as specified in the Hardware Sets. Locksets to be manufactured with a corrosion resistant, stamped 12 gauge minimum formed steel case and be field-reversible for handing without disassembly of the lock body. Lockset trim (including knobs, levers, escutcheons, roses) to be the product of a single manufacturer. Furnish with standard 2 3/4" backset, 3/4" throw anti-friction stainless steel latchbolt, and a full 1" throw stainless steel bolt for deadbolt functions.
1. Acceptable Manufacturers:
   a. Sargent 8200
   b. No Substitution - Facility Standard.

B. Cylindrical Locksets, Grade 2: ANSI/BHMA A156.2, Series 4000, Grade 2 certified cylindrical (bored) locksets furnished in the functions as specified in the Hardware Sets. Lock chassis fabricated of heavy gauge steel, zinc dichromate plated, with through-bolted application. Furnish with solid cast levers, standard 2 3/4" backset, 1/2" (3/4" at rated paired openings) throw brass or stainless steel latchbolt. Locks are to be non-handed and fully field reversible.
1. Acceptable Manufacturers:
   a. Sargent 7 Line
   b. No Substitution - Facility Standard.

C. Lock Trim Design: As specified in Hardware Sets.
   a. Yale

2.06 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.

B. Standards: Comply with the following:
1. Strikes for Mortise Locks and Latches: BHMA A156.13.

2. Strikes for Bored Locks and Latches: BHMA A156.2.

2.07 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
   1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
   2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
   3. Flush End Caps: Provide heavy weight impact resistant flush end caps made of architectural metal in the same finish as the devices as in the Hardware Sets. Plastic end caps will not be acceptable.
   4. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty trim with cold forged escutcheons, beveled edges, and four threaded studs for thru-bolts.
      a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets. Provided free-wheeling type trim where indicated.
   5. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 certified panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Mounting rails to be formed from smooth stainless steel, brass or bronze architectural materials no less than 0.072" thick, with push rails a minimum of 0.062" thickness. Painted or aluminum metal rails are not acceptable. Exit device latch to be investment cast stainless steel, pullman type, with deadlock feature.
   1. Acceptable Manufacturers:
      a. Sargent 30 Series
      b. No Substitutions – Facility Standard

2.08 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:
   1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers including installation and adjusting information on inside of cover.
   2. Standards: Closers to comply with UL-10C and UBC 7-2 for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
   3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the physically handicapped, provide units complying with ANSI ICC/A117.1.
   4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
      a. Where closers are indicated to have mechanical dead-stop, provide heavy duty arms and brackets with an integral positive stop.
      b. Where closers are indicated to have mechanical hold open, provide heavy duty units with an additional built-in mechanical holder assembly designed to hold open against normal wind and traffic conditions. Holder to be manually selectable to on-off position.
      c. Where closers are indicated to have a cushion-type stop, provide heavy duty arms and brackets with spring stop mechanism to cushion door when opened to maximum degree.
      d. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics. Provide drop plates or other accessories as required for proper mounting.
   5. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates, and through-bolt or security type fasteners as specified in the door Hardware Sets.

B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 certified surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.
   1. Acceptable Manufacturers:
      a. Norton 8000
      b. LCN 4040 ZP

2.09 ARCHITECTURAL TRIM

A. Door Protective Trim
   1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
   2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
   3. Metal Protection Plates: ANSI/BHMA A156.6 certified metal protection plates (kick, armor, or mop), fabricated from the following.
      a. Stainless Steel: 050-inch thick.
      b. Brass or Bronze: 050-inch thick.
      c. Laminate Plastic or Acrylic: 1/8-inch thick.
   4. Fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets.
   5. Acceptable Manufacturers:
      a. Rockwood Manufacturing (RO).
      b. Hager Companies (HA).

2.10 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
   1. Acceptable Manufacturers:
      a. Rockwood Manufacturing (RO).
      b. Hager Companies (HA).

2.11 ARCHITECTURAL SEALS

A. General: Thresholds, weather-stripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weather-strip gasketing on exterior doors and provide smoke, light, or gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
   1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

D. Acceptable Manufacturers:
   1. Pemko Manufacturing (PE).
   2. Hager Companies (HA).

2.12 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware.

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.02 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

3.03 INSTALLATION

A. Install each item of mechanical hardware to comply with manufacturer's written instructions and according to specifications.
   1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
   1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
   2. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
   3. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.04 FIELD QUALITY CONTROL

A. Field Inspection: Supplier will perform a final inspection of installed door hardware and state in report whether work complies with or deviates from requirements, including whether door hardware is properly installed, operating and adjusted.

3.05 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.06 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. and provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.07 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical door hardware.

3.08 DOOR HARDWARE SCHEDULE

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

MATERIALS

Manufacturer's Index:

HA..... HAGER
NO ..... NORTON
SA..... SARGENT

HARDWARE SCHEDULE

The following is a general listing of hardware requirements and is not intended to be a final hardware schedule. Any items of hardware required by good practice or to meet state and local codes shall be furnished whether or not specifically called out in the below listed groups.

Abbreviations: Alum = Clear / Mill Aluminum
DW = Door Width
DH = Door Height
DOW = Door Opening Width
DOH = Door Opening Height
TBD = To Be Determined

SET 1		Door(s) 100.1, 100.2	
Each To Have:			
HA	3 ea	Hinge	BB1279 4.5" x 4.5" NRP US26D
SA	1 ea	Mortise Lockset	8255 LE1-L x US26D
HA	1 ea	Latch Guard	342D x US2C
NO	1 ea	Door Closer	UNI 8501 x 689
HA	1 ea	Kick Plate	190S (10" x DW – 2") US32D
HA	1 ea	Drip	810S (DOW + 4") Alum
HA	1 ea	Weather-strip	891SV (DOW x DOH) Alum
HA	1 ea	Threshold	412S x DOW x Alum
HA	1 ea	Sweep	756SV x DW x Alum

SET 2		Door(s) 105	
Each To Have:			
HA	3 ea	Hinge	BB1279 4.5" x 4.5" US26D
SA	1 ea	Cylindrical Lockset	28-7G05 LL x US26D
NO	1 ea	Door Closer	8501 x 689
HA	1 ea	Kick Plate	190S (10" x DW – 2") US32D
HA	1 ea	Wall Stop	236W x US32D
HA	3 ea	Silencers	307D

SET 3		Door(s) 103	
Each To Have:			
HA	3 ea	Hinge	BB1279 4.5" x 4.5" US26D
SA	1 ea	Cylindrical Lockset	28-7G05 LL x US26D
HA	1 ea	Wall Stop	232W x US32D
HA	3 ea	Silencers	307D

SET 4		Door(s) 104	
Each To Have:			
HA	3 ea	Hinge	BB1279 4.5" x 4.5" US26D
SA	1 ea	Cylindrical Privacy Latchset	28-7U65 LL x US26D
NO	1 ea	Door Closer	8501 x 689
HA	1 ea	Kick Plate	190S (10" x DW – 2") US32D
HA	1 ea	Wall Stop	236W x US32D
HA	3 ea	Silencers	307D

SET 5		Door(s) 102	
Each To Have:			
HA	3 ea	Hinge	BB1279 4.5" x 4.5" US26D
HA	1 ea	Pull Plate	33E (4" x 16") US32D
HA	1 ea	Push Plate	30S (4" x 16") US32D
NO	1 ea	Door Closer	8501 x 689
HA	1 ea	Kick Plate	190S (10" x DW – 2") US32D
HA	3 ea	Silencers	307D

SET 6		Door(s) 101	
Each To Have:			
HA	6 ea	Hinge	BB1279 4.5" x 4.5" US26D
HA	2 ea	Manual Extension Flushbolts	282D – 12" x US26D
*	1 ea	Metal Astragal	By Hollow Metal Door Manufacturer
HA	1 ea	Door Coordinator	297D x Black
HA	2 ea	Coordinator Mounting Bracket	297N x Black
SA	1 ea	Cylindrical Lockset	28-7G05 LL x US26D
NO	2 ea	Door Closer	8501 x 689
HA	2 ea	Kick Plate	190S (10" x DW – 2") US32D
HA	2 ea	Silencers	307D

SET 7	Door(s) 100.3, 100.4, 100.5, 100.6, 100.7, 100.8		
Each To Have:			

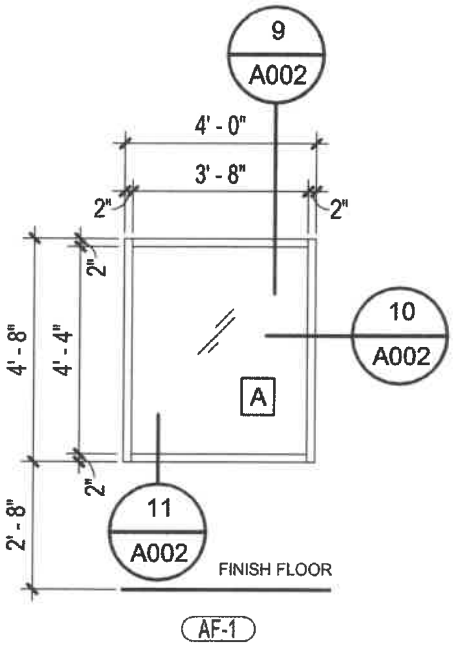
- ALL HARDWARE BY OVERHEAD DOOR SUPPLIER

Note: Door thresholds and closers must meet ADA requirements.

END OF SECTION

DRAWINGS

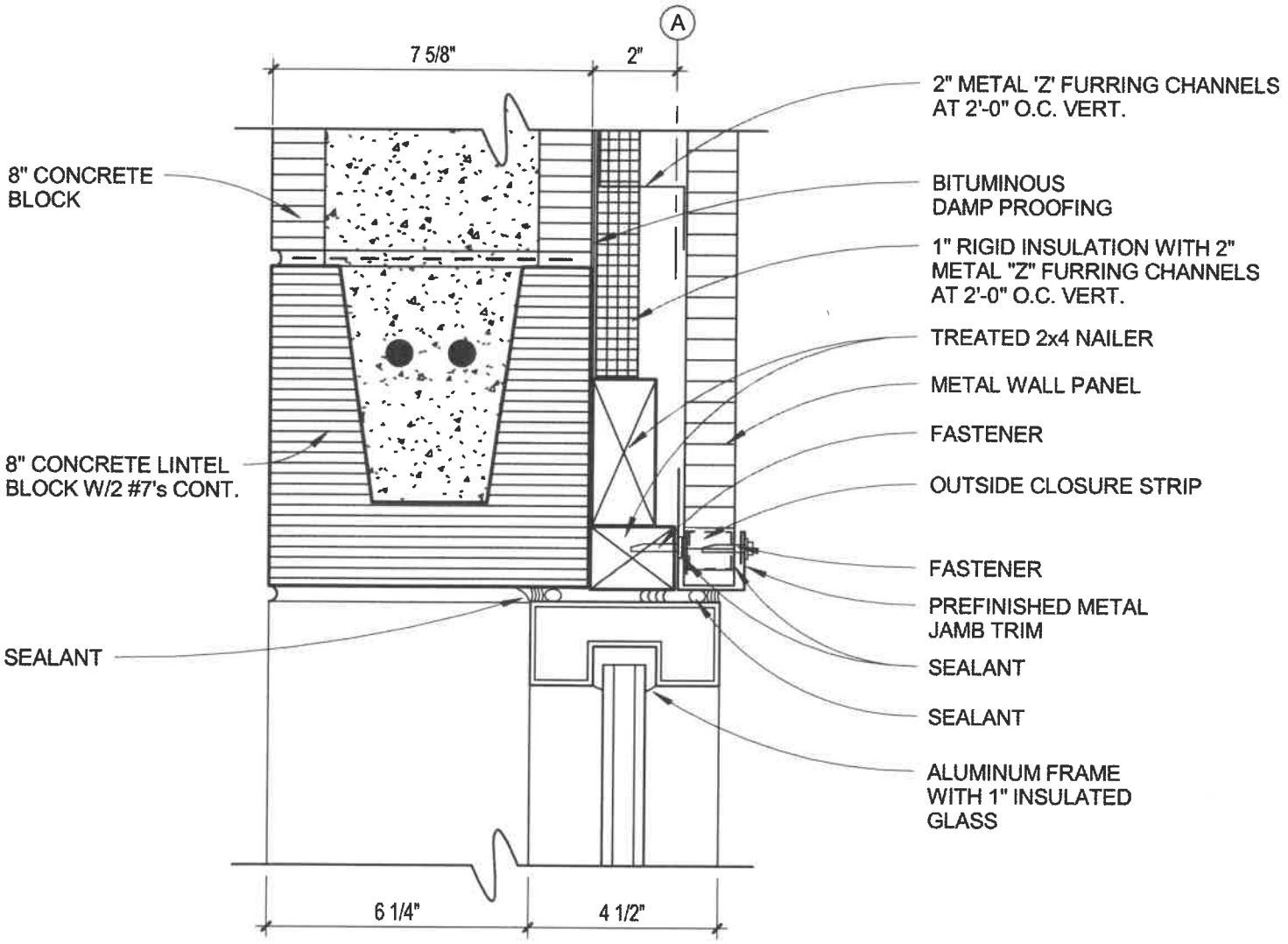
3. Reference Sheet A001 – See attached aluminum frame schedule detail.
4. Reference Sheet A002 – See attached head detail.
5. Reference Sheet A002 – See attached jamb detail.
6. Reference Sheet A002 – See attached sill detail.



aluminum frame schedule

SCALE: 1/4" = 1'-0"

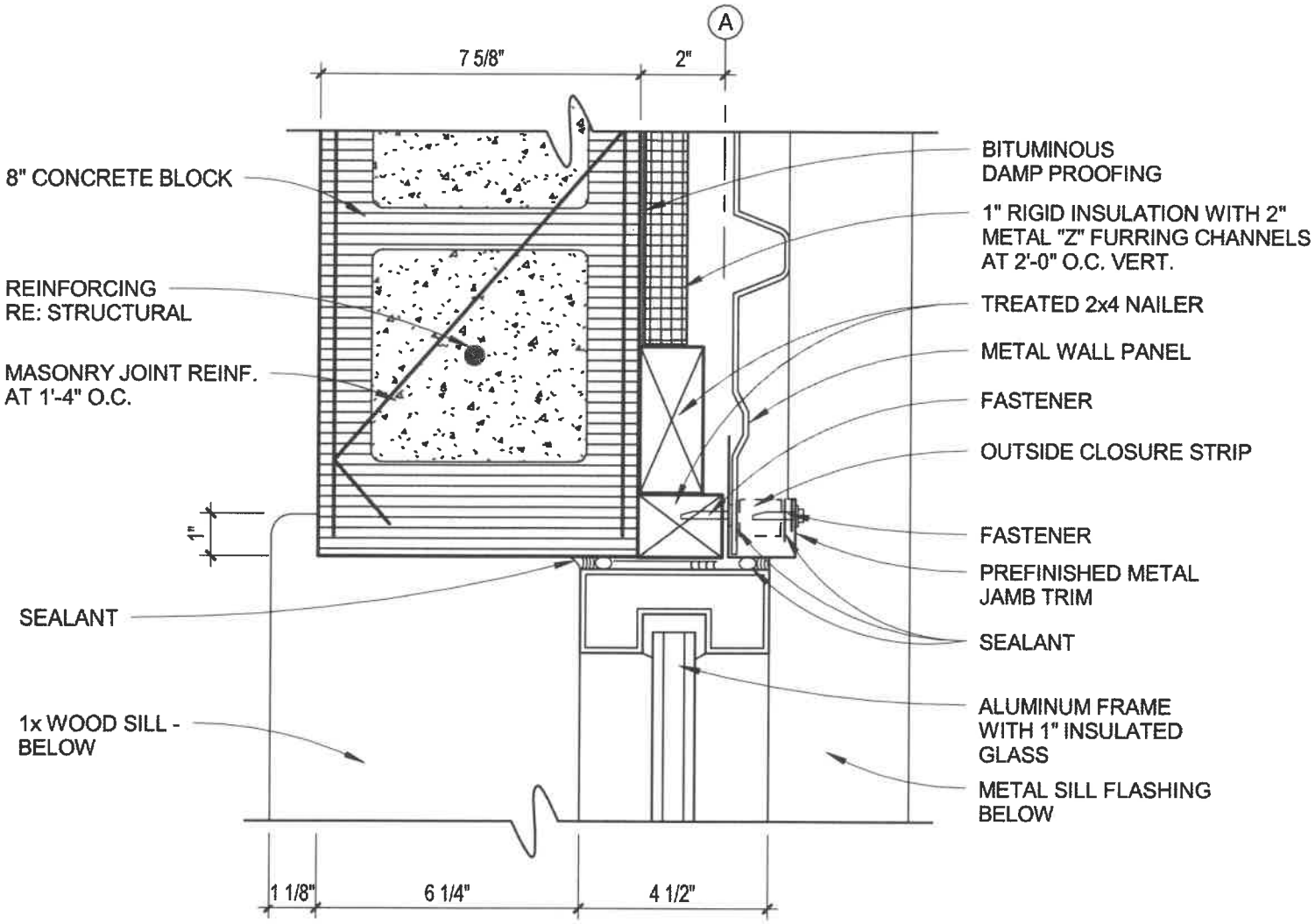
City of Jonesboro **Cemetery Maintenance Building** Jonesboro, Arkansas			BRACKETT KRENNERICH architects	
	COMMISION NUMBER: 10217	REFERENCE SHEET: A001	SHEET: ADD.-1	DATE: 06/19/17



9 head detail

SCALE: 3" = 1'-0"

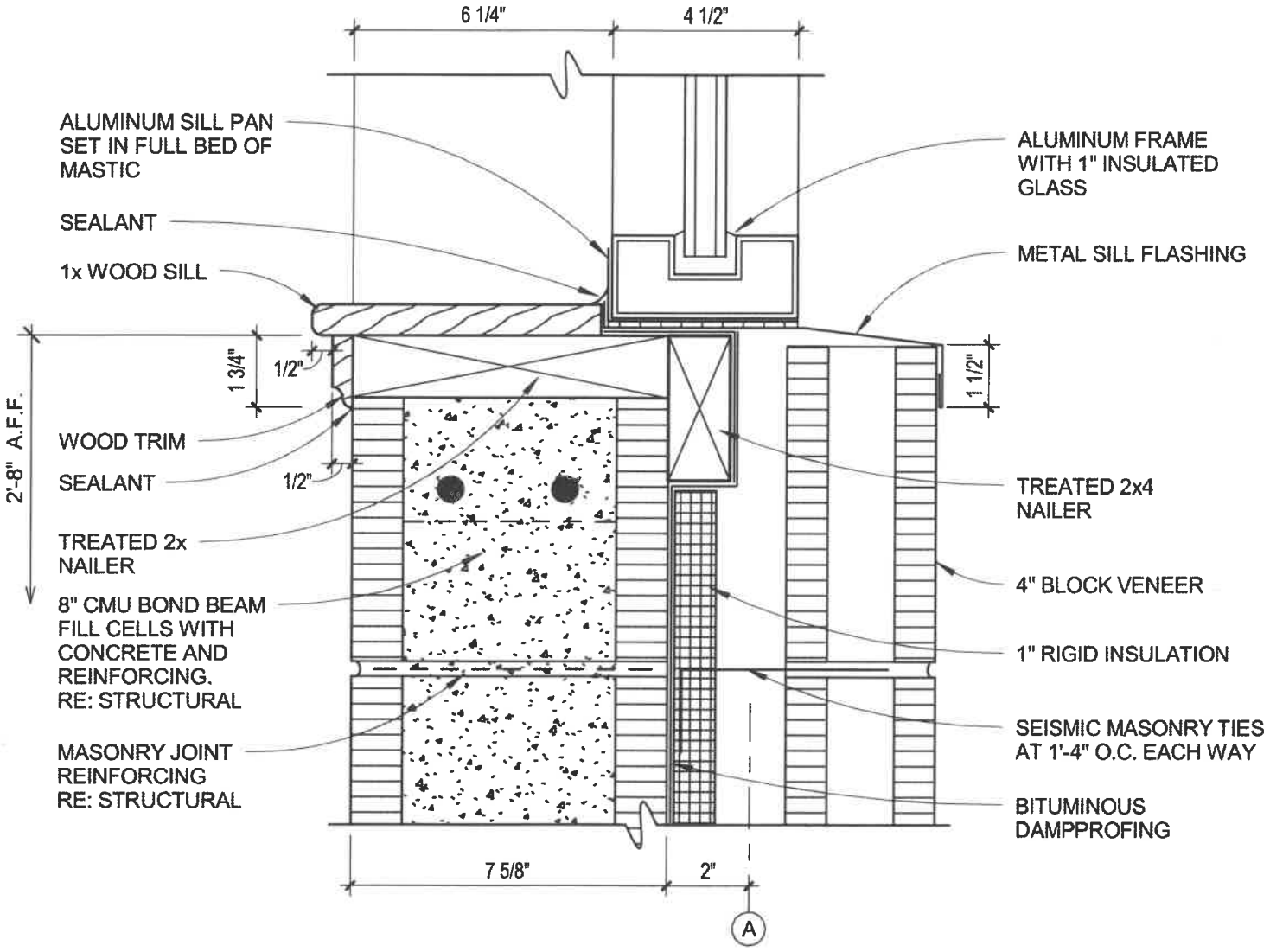
City of Jonesboro **Cemetery Maintenance Building** Jonesboro, Arkansas			BRACKETT KRENNERICH architects	
	COMMISION NUMBER: 10217	REFERENCE SHEET: A002	SHEET: ADD.-2	DATE: 06/19/17



10 jamb detaill

SCALE: 3" = 1'-0"

City of Jonesboro **Cemetery Maintenance Building** Jonesboro, Arkansas			BRACKETT KRENNERICH architects	
	COMMISION NUMBER: 10217	REFERENCE SHEET: A002	SHEET: ADD.-3	DATE: 06/19/17



11 sill detail

SCALE: 3" = 1'-0"

City of Jonesboro **Cemetery Maintenance Building** Jonesboro, Arkansas			BRACKETT KRENNERICH architects	
	COMMISION NUMBER: 10217	REFERENCE SHEET: A002	SHEET: ADD.-4	DATE: 06/19/17