ADDENDUM NO. 1
John A. Tuten & Associates, Architects
4680 Hwy 17 North
Brunswick, GA 31525

GENERAL ITEMS

1. Supplemental proposal form information due on **2/25/19 by 4:00 PM**.

2. **Project Schedule:**

3/13/19	Contract award by Board of Education. Purpose of early award is to allow lead time for scheduling, processing shop drawings, etc. so that construction can proceed without delay when building is vacated by Owner on 5/28/19. Notice to proceed will be date on construction contract.
4/1-5/19	Asbestos Survey.
4/11/19	Advertise for asbestos abatement proposals.
4/12/19	Final survey report from asbestos consultant.
4/16-26/19	Architect & GC develop detail demolition & asbestos removal phasing plan.
5/9/19	Receive asbestos abatement proposals.
5/13/19	Award asbestos abatement contract.
5/28-3/1/19	Initial GC demolition to allow asbestos abatement work to begin.
6/3-28/19	Asbestos abatement.
7/1/19	Balance of building construction continues.

3. Architect will work with GC to develop detailed schedule for Owner's equipment removal, demolition and asbestos abatement. Asbestos survey will identify known asbestos material.

4. Owner will remove loose furniture and equipment.

5. The Architect will work with the contractor to develop the demolition plan after the survey is complete. Initial demolition to remove ceilings will occur prior to asbestos abatement.

6. Door 207B is to be removed. Steel frame 207B is to be left in place.

7. Existing terrazzo listed as a floor finish in the completed work is to be protected, polished and sealed. Existing terrazzo in toilets and other areas to receive new finishes must be removed down to structural concrete slab. Existing vinyl and carpet floor finishes will be a part of the asbestos abatement contract.

8. Note 19, on demolition plans applies to **Sheet A8.2**.

9. The only sloped floors will be new ceramic tile floors with floor drains. The condition and elevation of structural concrete slabs will control the amount of finished floor slopes. If slab surfaces do not allow a gradual slope, a sump slightly recessed below finish floor will be provided at floor drains.

10. Existing foundation systems for walkway canopy are in place and will be uncovered as a part of the construction contract by the GC. The aluminum canopy system has been fabricated by Peachtree and stored for use on this project by the Owner. Installation of aluminum walkway system by Peachtree will be paid as a part of the Owner's contingency. GC will core existing sidewalks to expose column supports. If additional foundation work is required of GC, a price will be negotiated by Construction Change Directive.

11. Section B/S1.2 requires that all new reinforced concrete masonry and related poured in place concrete work be installed and allowed to achieve design strength, prior to existing concrete joists and slabs in the elevator shaft being cut out and removed.

12. Clarification drawings will be issued by addenda to provide additional detail about storm drains and related concrete work.

13. All repair work for aluminum sun screens installed horizontally over windows and vertically at west entrance is a part of Allowance No. 4.

14. Addendum drawings clarify sand oil separator piping.

15. Owner will pay any tap fess or building permit fees.

16. Revised sidewalk work will be defined by addendum drawings.

17. New pipe sleeves, if any, will be shown on addendum drawings.

18. Termite control is specified and is to be quoted per specification.

19. Laboratory fume hood specification **Section 115313; At Part 2.1, A.** delete "with Built-in exhaust blower".

20. All cabinets in Science Labs and Science Prep Rooms on the second floor will be units by the specified manufacturers in **Section 123553.19**. The units along the exterior walls and the island units in Prep Rooms are to be nominal 24" depth.

21. Metal Storage shelves in Room 107 will be removed by Owner.

22. Lab casework in Room 202 is shown as intended. Storage cabinet and Teacher cabinet are not a part of the scope of work.

23. Manufacturer will provide shop drawings showing details of lab casework in Rooms 216 and 226, matching layout shown of elevations. Lab sinks in Prep Rooms to be epoxy resin, approximately 16" deep and 20" wide.

24. **Section 122113** to be revised to require blinds at all CWA, CWB, CWC and CWD curtain wall systems.

25. **Section 072600** will be replaced via addendum.

26. Teacher and Storage cabinet locks will be selected and furnished as a part of Owner's contingency allowance.

27. Furnish waterproofing per specification **Section 071326**.

28. Room 135 will be scheduled to receive ceramic tile floor and base via addendum.

29. The Owner will pay concrete testing company. **Section 033000** will be revised via addendum.

30. Floor finish of 139, CORR#1, will be changed from existing terrazzo to LVT via addendum. The elevator pit installation will require removal of a portion of existing flooring system for several feet outside the limits of the pit. Add the following note to D1.1: "NEATLY SAW CUT AND REMOVE CONCRETE SLAB TO CREATE SUFFICIENT SPACE TO INSTALL ELEVATOR PIT AND PATHS FOR NEW UNDERFLOOR PLUMBING WASTE LINES. COMPACT FILL IN THESE AREAS AFTER CONCEALED CONSTRUCTION IS IN PLACE TO 98% MODIFIED PROCTOR; INSTALL VAPOR BARRIER AND NEW 4" CONCRETE SLAB FLUSH WITH ADJACENT EXISTING SLABS."

31. New stair guardrails are to be aluminum per **Section 055213**.

32. All existing lovers in Penthouse are to remain.

PROJECT MANUAL

1. PROPOSAL FORM

A. Discard issued page "PF-2" and replace with attached page "PF-2" giving date for Notice to Proceed and date for required supplemental attachments.

2. GEORGIA SECURITY AND IMMIGRATION COMPLIANCE ACT

A. Discard issued "Contractor, Subcontract and Sub-subcontractor Affidavits" and replace with attached "Contractor, Subcontract and Sub-subcontractor Affidavits".

3. SECTION 072600 – VAPOR RETARDERS

A. Discard issued "Section 072600" and replace with attached "Section 072600 – Under-Slab Vapor Barrier/Retarder" dated 2/06/19.

4. **SECTION 087100 – DOOR HARDWARE**

   A. Discard issued "Section 087100" and replace with attached "Section 087100" dated 2/06/19.

5. **SECTION 101400 – SIGNS**

   A. Replace Part 3.3, "Sign Schedule" with attached new "3.3 SIGN SCHEDULE" dated 2/06/19.

6. **SECTION 122113 – HORIZONTAL LOUVER BLINDS**

   A. At Part 1.1, A. 2 – Should read "Furnish and install interior blinds at all CWA, CWB, CWC and CWD curtain wall locations."

DRAWINGS

1. **SHEET C1.2 – SITE PLAN – SCIENCE BUILDING**

   A. Discard issued "Sheet C1.2" and replace with attached "Sheet C1.2" dated 2/06/19.

2. **SHEET C1.3 – SITE PLAN – ENLARGED AREAS**

   A. Discard issued "Sheet C1.3" and replace with attached "Sheet C1.3" dated 2/06/19.

3. **SHEET D1.1 – FIRST FLOOR PLAN DEMOLITION**

   A. Discard issued "Sheet D1.1" and replace with attached "Sheet D1.1" dated 2/06/19.

4. **SHEET D1.2 – SECOND FLOOR PLAN – DEMOLITION**

   A. Discard issued "Sheet D1.2" and replace with attached "Sheet D1.2" dated 2/06/19.

5. **SHEET D1.3 – PENTHOUSE FLOOR PLAN – DEMOLITION**

   A. Discard issued "Sheet D1.3" and replace with attached "Sheet D1.3" dated 2/06/19.

6. **SHEET A1.1 – FLOOR PLAN – LIFE SAFETY**

   A. Discard issued "Sheet A1.1" and replace with attached "Sheet A1.1" dated 2/06/19.

7. **SHEET A2.1 – FIRST FLOOR PLAN – RENOVATION**

   A. Discard issued "Sheet A2.1" and replace with attached "Sheet A2.1" dated 2/06/19.

8. **SHEET A2.3 – PENTHOUSE FLOOR PLAN – RENOVATION**

   A. Discard issued "Sheet A2.3" and replace with attached "Sheet A2.3" dated 2/06/19.

9. **SHEET A3.1 – FINISH SCHEDULE AND DETAILS**

   A. Discard issued "Sheet A3.1" and replace with attached "Sheet A3.1" dated 2/06/19.

10. **SHEET A6.1 – WALL SECTIONS AROUND MAIN BUILDING**

    A. Discard issued "Sheet A6.1" and replace with attached "Sheet A6.1" dated 2/06/19.

11. **SHEET A6.3 – ELEVATOR WALL SECTIONS AND DETAILS**

    A. Discard issued "Sheet A6.3" and replace with attached "Sheet A6.3" dated 2/06/19.

12. **SHEET A8.2 – ENLARGED ELEVATOR PLANS AND INTERIOR ELEVATIONS**

    A. Discard issued "Sheet A8.2" and replace with attached "Sheet A8.2" dated 2/06/19.

13. **SHEET A9.1 – INTERIOR ELEVATIONS**

    A. Discard issued "Sheet A9.1" and replace with attached "Sheet A9.1" dated 2/06/19.

14. **SHEET A9.2 – INTERIOR ELEVATIONS**

    A. Discard issued "Sheet A9.2" and replace with attached "Sheet A9.2" dated 2/06/19.

15. **SHEET A14.2 – ROOFING DETAILS**

    A. Discard issued "Sheet A14.2" and replace with attached "Sheet A14.2" dated 2/06/19.

END OF ADDENDUM NO. 1

Attachments:
Page PF-2
GSIC Affidavits (3)
Section 072600
Section 087100
Sign Schedule
Sheet C1.2
Sheet C1.3
Sheet D1.1

Sheet D1.2
Sheet D1.3
Sheet A1.1
Sheet A2.1
Sheet A2.3
Sheet A3.1
Sheet A6.1
Sheet A6.3
Sheet A8.2
Sheet A9.1
Sheet A9.2
Sheet A14.2

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Attachment #1: Relevant Experience of Contractor Form
Attachment #2: Project Team and Record of Performance of Past Projects Form
Attachment #3: Detailed Bar Chart Project Construction Schedule based on Notice to Proceed on or before **March 14, 2019**.

Required Supplemental Proposal Form Attachments to be submitted at time of Proposal Form submittal or to be delivered or sent by email to Architect at johnt@johntuten.com on/or before **4:00 PM on February 25, 2019.**

Attachment #4: Base Bid Cost Detail Form

Which are or will be completed and are required as a part of this Proposal.

We understand that we may attach in a separate envelope additional photographs and other information, but the quantity content and aesthetic quality of this material will not be a part of the evaluation process and is not encouraged by the Owner.

I certify that this proposal is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a proposal for the same materials, labor supplies, or equipment and is in all respects fair and without collusion or fraud. We understand collusive bidding is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. We agree to abide by all conditions of this proposal.

The full names and addresses of persons and firms interested in the foregoing proposal as principals are as follows:

_____

_____

_____

Date: _____

Legal Name of Firm: _____

By: _____
Signature

By: _____
Print Name

Title: _____

Sworn to and subscribed before me this _____ day of _____, 20_____.

_____
(Notary Public)

My commission expires on _____.

Contractor Affidavit under O.C.G.A. § 13-10-91(b)(1)

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services on behalf of (Glynn County School System) has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned contractor will continue to use the federal work authorization program throughout the contract period and the undersigned contractor will contract for the physical performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the contractor with the information required by O.C.G.A. § 13-10-91(b). Contractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

_____
Federal Work Authorization User Identification Number – ID# is 4-7 numbers {no letters}

_____
Date of Authorization

_____
Name of Contractor

_____
Name of Project

GLYNN COUNTY SCHOOL SYSTEM
Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, _____, 201____ in _____(city), _____(state).

_____
Signature of Authorized Officer or Agent

_____
Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME
ON THIS THE _____ DAY OF _____,201__.

_____
NOTARY PUBLIC

My Commission Expires:

_____

Subcontractor Affidavit under O.C.G.A. § 13-10-91(b)(3)

By executing this affidavit, the undersigned subcontractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services under a contract with (name of contractor) on behalf of Glynn County Schools has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned subcontractor will continue to use the federal work authorization program throughout the contract period and the undersigned subcontractor will contract for the physical performance of services in satisfaction of such contract only with sub-subcontractors who present an affidavit to the subcontractor with the information required by O.C.G.A. § 13-10-91(b). Additionally, the undersigned subcontractor will forward notice of the receipt of an affidavit from a sub-subcontractor to the contractor within five business days of receipt. If the undersigned subcontractor receives notice that a sub-subcontractor has received an affidavit from any other contracted sub-subcontractor, the undersigned subcontractor must forward, within five business days of receipt, a copy of the notice to the contractor. Subcontractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

_____
Federal Work Authorization User Identification Number

_____
Date of Authorization

_____
Name of Subcontractor

_____
Name of Project

_____
Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, ___, 201__ in _____(city), _____(state).

_____
Signature of Authorized Officer or Agent

_____
Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME
ON THIS THE _____ DAY OF _____,201__.

_____
NOTARY PUBLIC

My Commission Expires:

_____

Sub-subcontractor Affidavit under O.C.G.A. § 13-10-91(b)(4)

By executing this affidavit, the undersigned sub-subcontractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services under a contract for (name of subcontractor or sub-subcontractor with whom such sub-subcontractor has privity of contract): _____ and (name of contractor): _____ on behalf of (Glynn County Schools has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned sub-subcontractor will continue to use the federal work authorization program throughout the contract period and the undersigned sub-subcontractor will contract for the physical performance of services in satisfaction of such contract only with sub-subcontractors who present an affidavit to the sub-subcontractor with the information required by O.C.G.A. § 13-10-91(b). The undersigned sub-subcontractor shall submit, at the time of such contract, this affidavit to (name of subcontractor or sub-subcontractor with whom such sub-subcontractor has privity of contract). Additionally, the undersigned sub-subcontractor will forward notice of the receipt of any affidavit from a sub-subcontractor to (name of subcontractor or sub-subcontractor with whom such sub-subcontractor has privity of contract). Sub-subcontractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

_____
Federal Work Authorization User Identification Number

_____
Date of Authorization

_____
Name of Sub-subcontractor

_____
Name of Project
GLYNN COUNTY SCHOOL SYSTEM
Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, ___, 201__ in _____(city), _____(state).

_____
Signature of Authorized Officer or Agent

_____
Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME
ON THIS THE _____ DAY OF _____,201__.

_____
NOTARY PUBLIC
My Commission Expires:

_____

SECTION 072600 – UNDER-SLAB VAPOR BARRIER / RETARDER

PART 1 – GENERAL

1.1 SUMMARY

A. Products Supplied Under This Section

1. Vapor Barrier, seam tape, mastic, pipe boots, detail strip for installation under concrete slabs.

B. RELATED SECTIONS

1. Section 033000 Cast-in-place Structural Concrete

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM)

1. ASTM E 1745-04 Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs
2. ASTM E 154-88 Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs
3. ASTM E 96-95 Standard Test Methods for Water Vapor Transmission of Materials
4. ASTM E 1643-04 Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs

B. American Concrete Institute (ACI)

1. ACI 302.1R-96 Vapor Barrier Component (plastic membrane) is not less than 15 mils thick

1.3 SUBMITTALS

A. Quality Control / Assurance

1. Independent laboratory test results showing compliance with ASTM & ACI Standards.
2. Manufacturer's samples, literature
3. Manufacturer's installation instructions for placement, seaming and pipe boot installation

PART 2 – PRODUCTS

2.1 MATERIALS

A. Typical Vapor Barrier

1. Vapor Barrier must have the following qualities

a. WVTR less than or equal to 0.006 as tested by ASTM E 96
b. ASTM E 1745 Class A (Plastics)

2. Vapor Barrier Products
a. Stego Wrap 15 –mil Class A Vapor Barrier by Stego Industries (877) 464-7834
b. Griffolyn 15-mil Green Class A Vaopr Barrier by Griffolyn a division of Reef Ind. (800) 231-6074
c. Barrier-Bac VB-350 (16 mil) vapor retarder.
d. Viper Vapor Check II, 15 mil Class A Vapor Barrier
e. W. R. Meadows, Perminator, 15 mils.
f. Tex-Trude Xtreme Vapor Barrier as an approved manufacturer pending compliance with the contract documents.

B. Vapor Barrier Under Wood Flooring

1. Vapor Retarder at Wood Athletic Flooring: 110-mil-thick, semiflexible, seven-ply sheet membrane consisting of reinforced core and carrier sheet fortified asphalt layers, protective weathercoating, and removable plastic release liner. Furnish manufacturer's accessories including bonding asphalt, pointing mastics, and self-adhering joint tape.
a. Water-Vapor Permeance: 0.00 grains/h x sq. ft. x inches Hg; ASTM E 154.
b. Tensile Strength: 140 lbf/in. (24.5 kN/m); ASTM E 154.
c. Puncture Resistance: 90 lbf (400N); ASTM E 154.
d. Product: Subject to compliance with requirements; provide "Premoulded Membrane Vapor Seal" by W. R. Meadows, Inc."

2.2 ACCESSORIES

A. Seam Tape

1. Tape must have the following qualities:
a. Water Vapor Transmission Rate ASTM E 96 0.3 perms or lower

B. Vapor Proofing Mastic

1. Mastic must have the following qualities:
a. Water Vapor Transmission Rate ASTM E 96 0.3 perms or lower

C. Pipe Boots

1. Construct pipe boots from vapor barrier material, pressure sensitive tape and/or mastic per manufacturer's instructions.

PART 3 – EXECUTION

3.1 PREPARATION

A. Ensure that subsoil is approved by architect or geotechnical firm.

1. Level and tamp or roll aggregate, sand or tamped earth base.

3.2 INSTALLATION

A. Install Vapor Barrier/Retarder:

1. Installation shall be in accordance with manufacturer's instructions and ASTM E 1643-04.
   a. Unroll Vapor Barrier/Retarder with the longest dimension parallel with the direction of the pour.
   b. Lap Vapor Barrier/Retarder over footings and seal to foundation walls.
   c. Overlap joints 6 inches and seal with manufacturer's tape.
   d. Seal all penetrations (including pipes) per manufacturer's instructions.
   e. No penetration of the Vapor Barrier/Retarder is allowed except for reinforcing steel and permanent utilities.
   f. Repair damaged areas by cutting patches of Vapor Barrier/Retarder, overlapping damaged area 6 inches and taping all four sides with tape.

END OF SECTION 072600

SECTION 087100 – DOOR HARDWARE

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. Commercial door hardware for the following:

    a. Swinging doors.
    b. Other doors to the extent indicated.

2. Cylinders for doors specified in other Sections.

B. Related Sections include the following:

1. Division 8 Section "Standard Steel Doors and Frames"
2. Division 8 Section "Custom Steel Doors and Frames"
3. Division 8 Section "Flush Wood Doors"
4. Division 8 Section "Aluminum-Framed Entrances and Storefronts" for entrance door hardware.

C. Products furnished, but not installed, under this Section include the following. Coordinating, purchasing, delivering, and scheduling remain requirements of this Section.

1. Permanent cores to be installed by Owner.

1.3 SUBMITTALS

A. Product Data: Include construction and installation details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Samples for Initial Selection: For each finish, color, and texture required for each type of door hardware indicated.

C. Samples for Verification: For exposed door hardware of each type, in specified finish, full size. Tag with full description for coordination with the door hardware sets. Submit Samples before, or concurrent with, submission of the final door hardware sets.

1. Samples will be returned to Contractor. Units that are acceptable and remain undamaged through submittal, review, and field comparison process may, after final check of operation, be incorporated into the Work, within limitations of keying requirements.

D. Product Certificates: For electrified door hardware, signed by product manufacturer.

1. Certify that door hardware approved for use on types and sizes of labeled fire doors complies with listed fire door assemblies.

E. Qualification Data: For Architectural Hardware Consultant.

F. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency.

G. Maintenance Data: For each type of door hardware to include in maintenance manuals. Include final hardware and keying schedule.

H. Warranty: Special warranty specified in this Section.

I. Other Action Submittals:

1. Door Hardware Sets: Prepared by or under the supervision of Architectural Hardware Consultant, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final door hardware sets with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

a. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
b. Format: Use same scheduling sequence and format and use same door numbers as in the Contract Documents.
c. Content: Include the following information:

1) Identification number, location, hand, fire rating, and material of each door and frame.
2) Type, style, function, size, quantity, and finish of each door hardware item. Include description and function of each lockset and exit device.
3) Complete designations of every item required for each door or opening including name and manufacturer.
4) Fastenings and other pertinent information.
5) Location of each door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
6) Explanation of abbreviations, symbols, and codes contained in schedule.
7) Mounting locations for door hardware.
8) Door and frame sizes and materials.
9) Description of each electrified door hardware function, including location, sequence of operation, and interface with other building control systems.

a) Sequence of Operation: Include description of component functions that occur in the following situations: authorized person wants to

enter; authorized person wants to exit; unauthorized person wants to enter; unauthorized person wants to exit.

10) List of related door devices specified in other Sections for each door and frame.
11) Cut Sheets of each product in the Submittal.

d. Submittal Sequence: Submit the final door hardware sets at earliest possible date, particularly where approval of the door hardware sets must precede fabrication of other work that is critical in Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the door hardware sets.

2. Keying Schedule: Prepared by or under the supervision of Architectural Hardware Consultant, detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: An employer of workers trained and approved by lock manufacturer.

1. Supplier’s responsibilities may include furnishing and installing door hardware and providing a qualified Architectural Hardware Consultant available during the course of the Work to consult with Contractor, Architect, and Owner about door hardware and keying.
2. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.

B. Architectural Hardware Consultant Qualifications: A person who is currently certified by DHI as an Architectural Hardware Consultant and who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project.

C. Source Limitations: Obtain each type and variety of door hardware from a single manufacturer, unless otherwise indicated.

1. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated. Manufacturers that perform electrical modifications and that are listed by a testing and inspecting agency acceptable to authorities having jurisdiction are acceptable.

D. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to NFPA 252 & UBC Standard 7-2.

1. Test Pressure: Test at atmospheric pressure. After 5 minutes into the test, neutral pressure level in furnace shall be established at 40” or less above the sill.

E. Keying Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination." In addition to the Architectural Hardware Consultant other decision makers shall be in attendance. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including, but not limited to, the following:

1. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
2. Preliminary key system schematic diagram.
3. Requirements for key control system.
4. Address for delivery of keys.

F. 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 electrified door hardware including, but not limited to, the following:

1. Inspect and discuss electrical roughing-in and other preparatory work performed by other trades.
2. Review sequence of operation for each type of electrified door hardware.
3. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
4. Review required testing, inspecting, and certifying procedures.

1.5 DELIVERY, STORAGE, AND HANDLING

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

B. Tag each item or package separately with identification related to the final door hardware sets, and include basic installation instructions, templates, and necessary fasteners with each item or package.

C. Deliver keys to manufacturer of key control system for subsequent delivery to Owner as required.

D. Deliver keys and permanent cores to Owner.

1.6 COORDINATION

A. Coordinate layout and installation of recessed pivots and floor closers with floor construction. Cast anchoring inserts into concrete. Concrete, reinforcement, and formwork requirements are specified in Division 3.

B. Templates: Distribute door hardware templates for doors, frames, and other work specified to be factory prepared for installing door hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

C. Existing Openings: Where new hardware components are scheduled for application to existing construction or where modifications to existing door hardware are required, field verify existing conditions and coordinate installation of door hardware to suit opening conditions and to provide for proper operation.

1.7 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Structural failures including excessive deflection, cracking, or breakage.
b. Faulty operation of operators and door hardware.
c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.

2. Warranty Period: Three years from date of Substantial Completion, except as follows:

a. Bored Locksets: 7 years from date of Substantial Completion.
b. Mortise Locksets: 10 years from date of Substantial Completion.
c. Exit Devices: 5 years from date of Substantial Completion.
d. Manual Closers: 10 years from date of Substantial Completion.

1.8 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. Maintenance Service: Beginning at Substantial Completion, provide six months' full maintenance by skilled employees of door hardware Installer.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in this Section and door hardware sets indicated in Part 3 "Door Hardware Sets" Article.

1. Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and named manufacturers' products.
2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.

B. Designations: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of door hardware are indicated in Part 3 "Door Hardware Sets" Article. Products are identified by using door hardware designations, as follows:

1. Named Manufacturers' Products: Manufacturer and product designation are listed for each door hardware type required for the purpose of establishing minimum requirements. Manufacturers' names are abbreviated in Part 3 "Door Hardware Sets" Article.

C. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include manufacturers listed as “Approved Manufacturers” in this Section.

2.2 HINGES

A. Butts and Hinges: BHMA A156.1 - Listed under Category A in BHMA's "Certified Product Directory."

B. Template Hinge Dimensions: BHMA A156.7.

C. Approved Manufacturers:

1. Bommer Industries, Inc. (BOM).
2. Hager Companies (HAG).
3. McKinney Products Company; an ASSA ABLOY Group company (MCK).
4. **Stanley Hardware; Div. of dormakaba, USA (STN).**

2.3 CONTINUOUS HINGES

A. Standard: BHMA A156.26.

1. Listed under Category N in BHMA's "Certified Product Directory."

2. Fire Pins: Steel pins to hold labeled fire doors in place if required by tested listing.

B. Continuous, Barrel-Type Hinges: Hinge with knuckles formed around a pin that extends entire length of hinge.

1. Base Metal for Exterior Hinges: Stainless steel.
2. Base Metal for Interior Hinges: As specified.
3. Base Metal for Hinges for Fire-Rated Assemblies: Stainless steel, Steel.
4. Approved Manufacturers:

a. Hager Companies (HAG).
b. Markar Architectural Products, Inc.; an ASSA ABLOY Group company (MAR).
c. McKinney Products Company; an ASSA ABLOY Group company (MCK).

d. Stanley Hardware; Div. of dormakaba, USA (STN).

C. Continuous, Gear-Type Hinges: Extruded-aluminum, pinless, geared hinge leaves; joined by a continuous extruded-aluminum channel cap; with concealed, self-lubricating thrust bearings.

1. Approved Manufacturers:

a. Hager Companies (HAG).
b. McKinney Products Company; an ASSA ABLOY Group company (MCK).
c. Pemko Manufacturing Co. (PEM).
d. National Guard Company, Inc. (NGP).
e. Stanley Hardware; Div. of dormakaba, USA (STN).

2.4 LOCKS AND LATCHES, GENERAL

A. Accessibility Requirements: Where indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)." And ANSI A117.1.

1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than 5 lbf.

B. Latches and Locks for Means of Egress Doors: Comply with NFPA 101. Latches shall not require more than 15 lbf to release the latch. Locks shall not require use of a key, tool, or special knowledge for operation.

C. Electrified Locking Devices: BHMA A156.25.

D. Lock Trim:

1. Levers: As Specified.
2. Escutcheons (Roses): As Specified.
3. Dummy Trim: Match lock trim and escutcheons.

E. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows:

1. Bored Locks: Minimum 1/2-inch latchbolt throw.
2. Mortise Locks: Minimum 3/4-inch latchbolt throw.
3. Deadbolts: Minimum 1-inch bolt throw.

F. Backset: 2-3/4 inches, unless otherwise indicated.

G. Strikes: Manufacturer's standard strike with strike box for each latchbolt or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, and as follows:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Auxiliary Deadlocks: BHMA A156.5.

3. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.

2.5 MECHANICAL LOCKS AND LATCHES

A. Lock Functions: Function numbers and descriptions indicated in door hardware sets comply with the following:

1. Mortise Locks: BHMA A156.13.
2. Interconnected Locks: BHMA A156.12.

B. Mortise Locks: Stamped steel case with steel or brass parts; BHMA A156.13 - Listed under Category F in BHMA's "Certified Product Directory."

1. Approved Manufacturers:

a. Best Access Systems; Div. of dormakaba, USA (BST).
b. SARGENT Manufacturing Company; an ASSA ABLOY Group company (SGT).
c. Schlage Commercial Lock Division; an Ingersoll-Rand Company (SCH).

2.6 AUXILIARY LOCKS AND LATCHES

A. Auxiliary Locks: BHMA A156.5 - Listed under Category E in BHMA's "Certified Product Directory."

1. Approved Manufacturers:

a. Accurate Lock & Hardware Co. (ALH).
b. Adams Rite Manufacturing Co. (ARM).
c. Best Access Systems; Div. of dormakaba, USA (BST).
d. Falcon Lock; an Ingersoll-Rand Company (FAL).
e. SARGENT Manufacturing Company; an ASSA ABLOY Group company (SGT).
f. Schlage Commercial Lock Division; an Ingersoll-Rand Company (SCH).

2.7 EXIT DEVICES

A. Exit Devices: BHMA A156.3 - Listed under Category G in BHMA's "Certified Product Directory."

B. Accessibility Requirements: Where handles, pulls, latches, locks, and other operating devices are indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)." ANSI A117.1.

1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than 5 lbf.

C. Exit Devices for Means of Egress Doors: Comply with NFPA 101. Exit devices shall not require more than 15 lbf to release the latch. Locks shall not require use of a key, tool, or special knowledge for operation.

D. Panic Exit Devices: Listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing according to UL 305.

E. Fire Exit Devices: Devices complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252.

F. Removable Mullions: BHMA A156.3.

G. Fire-Exit Removable Mullions: Provide removable mullions for use with fire exit devices complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252. Mullions shall be used only with exit devices for which they have been tested.

H. Outside Trim: Material and finish to match locksets, unless otherwise indicated.

I. Through Bolts: For exit devices and trim on fire-rated wood doors.

J. Approved Manufacturers:

1. **Precision; a Div. of dormakaba, USA. (PHI).**
2. DORMA Architectural Hardware; Div. of dormakaba, USA. (DOR).
3. Sargent Manufacturing Co; a Div. of Assa Abloy (SGT).
4. Von Duprin; a Div. of Allegion (VND).

2.8 LOCK CYLINDERS

A. Standard Lock Cylinders: BHMA A156.5.

B. High-Security Lock Cylinders: BHMA A156.30.

C. Cylinders: Manufacturer's standard tumbler type, constructed from brass or bronze, stainless steel, or nickel silver, and complying with the following:

1. Number of Pins: As required for this project or as specified.
2. Mortise Type: Threaded cylinders with rings and straight- or clover-type cam.
3. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
4. Bored-Lock Type: Cylinders with tailpieces to suit locks.

    a. High-Security Grade: BHMA A156.5, Grade 1A, listed and labeled as complying with pick- and drill-resistant testing requirements in UL 437 (Suffix A).

D. Permanent Cores: Manufacturer's standard; finish face to match lockset; complying with the following:

1. Interchangeable Cores: Core insert, removable by use of a special key; usable with other manufacturers' cylinders.

E. Construction Keying: Comply with the following:

1. Construction Cores: Provide construction cores that are replaceable by permanent cores. Provide 10 construction master keys.

a. Replace construction cores with permanent cores as indicated in keying schedule or as directed by Owner.
b. Furnish permanent cores as directed for installation.

F. Manufacturer: Same manufacturer as for locks and latches.

G. Approved Manufacturers:

1. **Best Access Systems; Div. of dormakaba, USA (BST). Match Owner System.**

2.9 KEYING

A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, Appendix A. Incorporate decisions made in keying conference.

B. Keys: Nickel silver.

1. Stamping: Permanently inscribe each key as determined at Keying Conference.

2. Quantity: In addition to one extra key blank for each lock, provide the following:

a. Cylinder Change Keys: Three.
b. Master Keys: Five.
c. Grand Master Keys: Five.
d. Great-Grand Master Keys: Five.

2.10 OPERATING TRIM

A. Standard: BHMA A156.6.

B. Approved Manufacturers:

1. Burns Manufacturing Incorporated (BRN).
2. Hager Companies (HAG).
3. Rockwood Manufacturing Company (RM).
4. **Trimco (TRM).**

2.11 CLOSERS

A. Accessibility Requirements: Where handles, pulls, latches, locks, and other operating devices are indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)." ANSI A117.1.

B. Comply with the following maximum opening-force requirements:

a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf applied perpendicular to door.
b. Sliding or Folding Doors: 5 lbf applied parallel to door at latch.
c. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.

C. Door Closers for Means of Egress Doors: Comply with NFPA 101. Door closers shall not require more than 30 lbf to set door in motion and not more than 15 lbf to open door to minimum required width.

D. Size of Units: Unless otherwise indicated, comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.

E. Surface Closers: BHMA A156.4 - Listed under Category C in BHMA's "Certified Product Directory." Provide type of arm required for closer to be located on non-public side of door, unless otherwise indicated.

1. Approved Manufacturers:

a. DORMA Architectural Hardware; Div. of dormakaba, USA. (DOR).
b. Stanley Door Closer. Div. of dormakaba, USA (SDC)
c. Stanley Commercial Hardware. Div. of dormakaba, USA (STCH)
d. LCN Closers; an Ingersoll-Rand Company (LCN).
e. SARGENT Manufacturing Company; an ASSA ABLOY Group company (SGT).

2.12 PROTECTIVE TRIM UNITS

A. Size: 2 inches less than door width on push side and 1 inch less than door width on pull side, by height specified in door hardware sets.

B. Fasteners: Manufacturer's standard machine or self-tapping screws, counter-sunk.

C. Metal Protective Trim Units: BHMA A156.6; beveled 4 sides.

1. Material: 050-inch thick.
2. Approved Manufacturers:

a. Burns Manufacturing Incorporated (BM).
b. Hager Companies (HAG).
c. Rockwood Manufacturing Company (RM).

d. Trimco (TRM).

2.13 STOPS AND HOLDERS

A. Stops and Bumpers: BHMA A156.16.

1. Provide floor stops for doors unless wall or other type stops are scheduled or indicated. Do not mount floor stops where they will impede traffic. Where floor or wall stops are not appropriate, provide overhead holders.

B. Silencers for Wood Door Frames: BHMA A156.16, Grade 1; neoprene or rubber.

C. Silencers for Metal Door Frames: BHMA A156.16, Grade 1; neoprene or rubber.

D. Approved Manufacturers:

1. Burns Manufacturing Incorporated (BRN).
2. Hager Companies (HAG).
3. Rockwood Manufacturing Company (ROC).
4. **Trimco (TRM).**

2.14 DOOR GASKETING

A. Standard: BHMA A156.22. - Listed under Category J in BHMA's "Certified Product Directory."

B. General: Provide continuous weather-strip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated or scheduled. Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.

1. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
2. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
3. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

C. 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 gasketing on 20-minute-rated doors and on smoke-labeled doors.

D. Fire-Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to NFPA 252 and/or UBC Standard 7-2.

E. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated, based on testing according to ASTM E 1408.

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

G. Approved Manufacturers:

1. **National Guard Products (NGP).**
2. Pemko Manufacturing Co. (PEM).
3. Zero International (ZRO).

2.15 THRESHOLDS

A. Standard: BHMA A156.21. - Listed under Category J in BHMA's "Certified Product Directory."

B. Accessibility Requirements: Where thresholds are indicated to comply with accessibility requirements.

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

2. Thresholds for Means of Egress Doors: Comply with NFPA 101. Maximum 1/2 inch high.

C. Approved Manufacturers:

1. **National Guard Products (NGP).**
2. Pemko Manufacturing Co. (PEM).
3. Zero International (ZRO).

2.16 FABRICATION

A. Base Metals: Produce door hardware units of base metal, fabricated by forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness. Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18. Do not furnish manufacturer's standard materials or forming methods if different from specified standard.

B. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to commercially recognized industry standards for application intended, except aluminum fasteners are not permitted. Provide Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated.

1. Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use through bolts for installation where bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow door and frame construction, provide sleeves for each through bolt.

2. Steel Machine or Wood Screws: For the following fire-rated applications:

   a. Mortise hinges to doors.
   b. Strike plates to frames.
   c. Closers to doors and frames.

3. Steel Through Bolts: For the following fire-rated applications unless door blocking is provided:

   a. Surface hinges to doors.
   b. Closers to doors and frames.
   c. Surface-mounted exit devices.

4. Spacers or Sex Bolts: For through bolting of hollow-metal doors.
5. Fasteners for Wood Doors: Comply with requirements in DHI WDHS.2, "Recommended Fasteners for Wood Doors."

2.17 FINISHES

A. Standard: BHMA A156.18, as indicated in door hardware sets.

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

C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine doors and frames, 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. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Steel Doors and Frames: Comply with DHI A115 Series.

1. Surface-Applied Door Hardware: Drill and tap doors and frames according to ANSI A250.6.

B. Wood Doors: Comply with DHI A115-W Series. Provide pilot holes for fasteners.

3.3 INSTALLATION

A. Mounting Heights: Mount door hardware units at heights indicated on Drawings and as follows unless otherwise 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. Custom Steel Doors and Frames: DHI's "Recommended Locations for Builders' Hardware for Custom Steel Doors and Frames."
3. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."

B. Install each door hardware item to comply with manufacturer's 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.

1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

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

3.4 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.

1. Spring Hinges: Adjust to achieve positive latching when door is allowed to close freely from an open position of 30 degrees.
2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
3. Door Closers: Unless otherwise required by authorities having jurisdiction, adjust sweep period so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the leading edge of the door.

B. Occupancy Adjustment: Approximately Three months after date of Substantial Completion, Installer's Architectural Hardware Consultant shall examine and readjust, including adjusting

operating forces, each item of door hardware as necessary to ensure function of doors, door hardware, and electrified door hardware.

3.5 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items as necessary to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure that door hardware is without damage or deterioration at time of Substantial Completion.

3.6 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes. Refer to Division 1 Section "Demonstration and Training."

3.7 DOOR HARDWARE SETS

GENERAL BUILDING AREA

HARDWARE SET # 01.0 - MAIN ENTRY/EXIT, MEDIA CENTER EXTERIOR ENTRY/EXIT CORRIDOR ENTRY/EXIT (2-3470/ALDXALF/AC)

DOOR(S): 101A, 103B, 142B,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
2	EA	CONTINUOUS HGE	661HD EPT X LAR	AL	STN
2	EA	POWER TRANSFER	PT1000	628	ABH
1	EA	MULLION	KR822 X LAR (STABILIZERS INCLUDED)	689	PHI
2	EA	CYLINDER	12E-72 CORMAX (RIM) (1/MULLION, 1/ED TRIM)	626	BST
1	EA	RIM EXIT DEVICE	3RO TS MLR 2103 X 4903D X SNB (LATCH RETRACTION, REQ TO EXIT) (STOREROOM) (ACTIVE LEAF)	626W	PHI
1	EA	RIM EXIT DEVICE	3RO TS 2102 X 4902D (REQ TO EXIT) (DUMMY TRIM) (INACTIVE LEAF)	626W	PHI
2	EA	CLOSER	CLD-4550 CS SN (COMPRESSION STOP) (MOUNT PARALLEL ARM - PUSH SIDE)	689	SDC
2	EA	HD FLOOR STOP	1209 (MOUNT AT LOCATION OF MAXIMUM SWING OF DOOR LEAVES)	630	TRM
1	EA	MULLION SEAL	5100S X LAR	GREY	NGP

2	EA	SWEEP	601A X LAR	AL	NGP
1	EA	THRESHOLD	896S X LAR X FASTENERS FOR SECURE ATTACHMENT TO SUBSTRATE	AL	NGP
2	EA	DOOR POSITION SWITCH	MC-4	BLK	DOR
1	EA	AC READER	BY OTHER SECTIONS	N/A	B/O

NOTE (S):

BALANCE OF SEALS PROVIDED BY DOOR MANUFACTURER AND/OR SUPPLIER

OPERATIONAL NARRATIVE:

VALID CREDENTIAL AT AC READER RETRACTS LATCH BOLT AT ACTIVE LEAF EXIT DEVICE ALLOWING INGRESS.

EACH DEVICE HAS A TS - TOUCH BAR REQUEST TO EXIT TO SHUNT ALARM.

DOOR POSITION SWITCHES SIGNAL SECURITY SYSTEM.

FREE EGRESS AT ALL TIMES

HARDWARE SET # 02.0 - MAIN ENTRY/EXIT VESTIBULE, CROSS CORRIDOR (2-3470/SCWDXHMF/UL)

DOOR(S): 101B, 142A,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
8	EA	HINGE	FBB168 5 X 4.5 NRP	652	STN
1	EA	MULLION	FLKR822 X LAR (STABILIZERS INCLUDED)	689	PHI
1	EA	CYLINDER	12E-72 CORMAX (RIM) (MULLION)	626	BST
2	EA	RIM EXIT DEVICE	3RO FL2114 X 4914D X SNB (PASSAGE)	626W	PHI
2	EA	CLOSER	CLD-4550 SN (MOUNT REGULAR ARM - PULL SIDE)	689	SDC
2	EA	PROTECTION PLT	KO050 10" X 2" LDW B4E/CSK (KICK-PUSH)	630	TRM
1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP
1	EA	MULLION SEAL	5100S X LAR	GREY	NGP

HARDWARE SET # 03.0 - MEDIA CENTER (2-3670/ALDXALF)

DOOR(S): 103A,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
2	EA	CONTINUOUS HGE	661HD X LAR	AL	STN
1	EA	MULLION	FLKR822 X LAR (STABILIZERS INCLUDED)	689	PHI
3	EA	CYLINDER	12E-72 CORMAX (RIM) (1/MULLION, 2/ED TRIM)	626	BST
2	EA	RIM EXIT DEVICE	3RO FL2108 X 4908D X SNB (CLASSROOM)	630	PHI
2	EA	CLOSER	CLD-4550 CS SN (COMPRESSION STOP) (MOUNT PARALLEL ARM - PUSH SIDE)	689	SDC
1	EA	MULLION SEAL	5100S X LAR	GREY	NGP

NOTE (S):

BALANCE OF SEALS PROVIDED BY DOOR MANUFACTURER AND/OR SUPPLIER

HARDWARE SET # 04.0 - MEDIA CENTER (3470/SCWDXEXISTING FRM)

DOOR(S): 103C

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
1	EA	CONTINUOUS HGE	654HD X LAR (HALF MORTISE)	630	STN
1	EA	LOCKSET	45H7R14J CORMAX (CLASSROOM)	626	BST
1	EA	CLOSER	CLD-4550 SN (MOUNT REGULAR ARM - PULL SIDE)	689	SDC
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP

HARDWARE SET # 05.0 - COMPUTER SCIENCE, CONFERENCE ROOM, WORK ROOM (3070/SCWDXHMF)

DOOR(S): 104A, 104B,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
3	EA	HINGE	FBB179 4.5 X 4.5 NRP	652	STN
1	EA	LOCKSET	45H7R14J CORMAX (CLASSROOM)	626	BST
1	EA	CLOSER	CLD-4550 CS SN (COMPRESSION STOP) (MOUNT PARALLEL ARM - PUSH SIDE)	689	SDC
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP

HARDWARE SET # 06.0 - COMPUTER SCIENCE, CONFERENCE ROOM, WORK ROOM (3070/SCWDXEXISTING FRM)

DOOR(S): 106A, 107A, 107B,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
1	EA	CONTINUOUS HGE	654HD X LAR (HALF MORTISE)	630	STN
1	EA	LOCKSET	45H7R14J CORMAX (CLASSROOM)	626	BST
1	EA	CLOSER	CLD-4550 CS SN (COMPRESSION STOP) (MOUNT PARALLEL ARM - PUSH SIDE)	689	SDC
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
3	EA	SILENCER	1229A	GREY	TRM

HARDWARE SET # 07.0 - DATA (3070/SCWDXHMF/UL)

DOOR(S): 105A,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
3	EA	HINGE	FBB179 4.5 X 4.5 NRP	652	STN
1	EA	LOCKSET	45H7D14J CORMAX (STOREROOM)	626	BST
1	EA	CLOSER	CLD-4550 SN (MOUNT REGULAR ARM - PULL SIDE)	689	SDC
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP

HARDWARE SET # 08.0 - OFFICE SPACE (3070/SCWDXEXISTING FRM)

DOOR(S): 108A, 108B, 112A, 113B, 114A,
EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
1	EA	CONTINUOUS HGE	654HD X LAR (HALF MORTISE)	630	STN
1	EA	LOCKSET	45H7A14J CORMAX (OFFICE)	626	BST
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP

HARDWARE SET # 09.0 - STORAGE (3470/SCWDXHMF/UL)

DOOR(S): 109A,
EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
4	EA	HINGE	FBB168 5 X 4.5 NRP	652	STN
1	EA	LOCKSET	45H7D14J CORMAX (STOREROOM)	626	BST
1	EA	CLOSER	CLD-4550 SN (MOUNT REGULAR ARM - PULL SIDE)	689	SDC
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP

HARDWARE SET # 10.0 - STORAGE, ELECTRICAL, ELEVATOR EQUIP (2870 & 3070/SCWDXEXISTING FRM/UL)

DOOR(S): 110A, 111A, 126A, 127A, 137A, 138A, 208A,
EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
1	EA	CONTINUOUS HGE	654HD X LAR (HALF MORTISE)	630	STN
1	EA	LOCKSET	45H7D14J CORMAX (STOREROOM)	626	BST
1	EA	CLOSER	CLD-4550 SN (MOUNT OUT OF PUBLIC VIEW)	689	SDC
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP

HARDWARE SET # 11.0 - OFFICE SPACE (3070/SCWDXEXISTING FRM)

DOOR(S): 113A,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
1	EA	CONTINUOUS HGE	654HD X LAR (HALF MORTISE)	630	STN
1	EA	LOCKSET	45H7A14J CORMAX (OFFICE)	626	BST
1	EA	CLOSER	CLD-4550 SN (MOUNT REGULAR ARM - PULL SIDE)	689	SDC
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP

HARDWARE SET # 12.0 - CLASSROOM (3470/SCWDXEXISTING FRM)

DOOR(S): 115A, 116A, 118A, 119A, 120A, 121A, 122A, 125A, 129A, 130A, 203A, 204A, 205A, 206A, 210A, 211A, 212A, 213A, 214A, 219A, 219B, 222A, 222B,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
1	EA	CONTINUOUS HGE	654HD X LAR (HALF MORTISE)	630	STN
1	EA	LOCKSET	45H7IND14J VIT CORMAX (INTRUDER W/INDICATOR THUMBTURN)	626	BST
1	EA	CLOSER	CLD-4550 SN (MOUNT REGULAR ARM - PULL SIDE)	689	SDC
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP

HARDWARE SET # 13.0 - T LOUNGE (3070/SCWDXEXISTING FRM)

DOOR(S): 117A,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
1	EA	CONTINUOUS HGE	654HD X LAR (HALF MORTISE)	630	STN
1	EA	LOCKSET	45H7R14J CORMAX (CLASSROOM)	626	BST

1	EA	CLOSER	CLD-4550 CS SN (COMPRESSION STOP) (MOUNT PARALLEL ARM - PUSH SIDE)	689	SDC
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP

HARDWARE SET # 14.0 - RISER ROOM (3470/FRPXFRP)

DOOR(S): 123A,
EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
1	EA	CONTINUOUS HGE	651HD X LAR	630	STN
1	EA	LOCKSET	45H7D14J CORMAX (STOREROOM)	626	BST
1	EA	CLOSER	CLD-4550 CS SN (MOUNT PARALLEL ARM - PUSH SIDE)	689	SDC
1	EA	HD FLOOR STOP	1209 (MOUNT AT LOCATION OF MAXIMUM SWING OF DOOR)	630	TRM
1	EA	PROTECTION PLT	KO050 10" X 2" LDW B4E/CSK (KICK-PUSH)	630	TRM
1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP
1	EA	SWEEP	601A X LAR	AL	NGP
1	EA	THRESHOLD	896S X LAR X FASTENERS FOR SECURE ATTACHMENT TO SUBSTRATE	AL	NGP

HARDWARE SET # 15.0 - STORAGE, ROOF STAIR (3070 & 3470/SCWDXEXISTING FRM/UL)

DOOR(S): 124A, 224A, 227A, 232A, 301A,
EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
1	EA	CONTINUOUS HGE	654HD X LAR (HALF MORTISE)	630	STN
1	EA	LOCKSET	45H7D14J CORMAX (STOREROOM)	626	BST
1	EA	CLOSER	CLD-4550 SN (MOUNT OUT OF PUBLIC VIEW)	689	SDC
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP

HARDWARE SET # 16.0 - TECH, STORAGE (2870 & 3070/SCWDXEXISTING FRM)

DOOR(S): 131A, 223A,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
1	EA	CONTINUOUS HGE	654HD X LAR (HALF MORTISE)	630	STN
1	EA	LOCKSET	45H7D14J CORMAX (STOREROOM)	626	BST
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
3	EA	SILENCER	1229A	GREY	TRM

HARDWARE SET # 17.0 - RESTROOM (3070/SCWDXEXISTING FRM)

DOOR(S): 132A, 221A,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
1	EA	CONTINUOUS HGE	654HD X LAR (HALF MORTISE)	630	STN
1	EA	PUSH/PULL	1895-4 4" X 16"	630	TRM
1	EA	CLOSER	CLD-4550 SN (MOUNT OUT OF PUBLIC VIEW)	689	SDC
1	EA	PROTECTION PLT	KO050 10" X 2" LDW B4E/CSK (KICK-PUSH)	630	TRM
1	EA	PROTECTION PLT	KO050 6" X 1" LDW B4E/CSK (MOP-PULL)	630	TRM
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
3	EA	SILENCER	1229A	GREY	TRM

HARDWARE SET # 18.0 - RESTROOM (3070/SCWDXHMF)

DOOR(S): 133A, 220A,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
3	EA	HINGE	FBB179 4.5 X 4.5 NRP	652	STN
1	EA	PUSH/PULL	1895-4 4" X 16"	630	TRM
1	EA	CLOSER	CLD-4550 SN (MOUNT OUT OF PUBLIC VIEW)	689	SDC
1	EA	PROTECTION PLT	KO050 10" X 2" LDW B4E/CSK (KICK-PUSH)	630	TRM
1	EA	PROTECTION PLT	KO050 6" X 1" LDW B4E/CSK (MOP-PULL)	630	TRM
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
3	EA	SILENCER	1229A	GREY	TRM

HARDWARE SET # 19.0 - JANITOR, PREP (3070/SCWDXHMF/UL)

DOOR(S): 135A, 216A, 226B,
EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
3	EA	HINGE	FBB179 4.5 X 4.5	652	STN
1	EA	LOCKSET	45H7R14J CORMAX (CLASSROOM)	626	BST
1	EA	CLOSER	CLD-4550 SN (MOUNT OUT OF PUBLIC VIEW)	689	SDC
1	EA	PROTECTION PLT	KO050 16" X 2" LDW B4E/CSK (KICK-PUSH)	630	TRM
1	EA	PROTECTION PLT	KO050 10" X 1" LDW B4E/CSK (MOP-PULL)	630	TRM
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP

HARDWARE SET # 20.0 - TOILET (3070/SCWDXHMF)

DOOR(S): 134A,
EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
3	EA	HINGE	FBB179 4.5 X 4.5	652	STN
1	EA	LOCKSET	45H0L14J VIN (PRIVACY W/ INDICATOR)	626	BST
1	EA	PROTECTION PLT	KO050 10" X 2" LDW B4E/CSK (KICK-PUSH)	630	TRM
1	EA	PROTECTION PLT	KO050 6" X 1" LDW B4E/CSK (MOP-PULL)	630	TRM
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP

HARDWARE SET # 21.0 - TOILET (3070/SCWDXHMF)

DOOR(S): 136A, 217A, 218A,
EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
3	EA	HINGE	FBB179 4.5 X 4.5	652	STN
1	EA	LOCKSET	45H0L14J VIN (PRIVACY W/ INDICATOR)	626	BST

1	EA	PROTECTION PLT	KO050 10" X 2" LDW B4E/CSK (KICK-PUSH)	630	TRM
1	EA	OVERHEAD STOP	4420 SERIES	626	ABH
1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP

HARDWARE SET # 22.0 - STAIR (4070/SCWDXHMF/UL)

DOOR(S): 201A, 209A,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
1	EA	CONTINUOUS HGE	651HD X LAR	630	STN
1	EA	RIM EXIT DEVICE	3RO FL2114 X 4914D X DR WIDTH (PASSAGE)	630	PHI
1	EA	CLOSER	CLD-4550 SN (MOUNT REGULAR ARM - PULL SIDE)	689	SDC
1	EA	PROTECTION PLT	KO050 10" X 2" LDW B4E/CSK (KICK-PUSH)	630	TRM
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP

HARDWARE SET # 23.0 - LAB (3470/SCWDXEXISTING FRM)

DOOR(S): 202A,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
1	EA	CONTINUOUS HGE	654HD X LAR (HALF MORTISE)	630	STN
1	EA	RIM EXIT DEVICE	3RO 2108 X 4908D (CLASSROOM)	626	BST
1	EA	CYLINDER	12E-72 CORMAX (RIM)	626	BST
1	EA	CLOSER	CLD-4550 SN (MOUNT PARALLEL ARM - PUSH SIDE)	689	SDC
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
3	EA	SILENCER	1229A	GREY	TRM

HARDWARE SET # 24.0 - RESOURCE (3470/SCWDXHMF)

DOOR(S): 207A,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
4	EA	HINGE	FBB168 5 X 4.5 NRP	652	STN
1	EA	LOCKSET	45H7D14J CORMAX (STOREROOM)	626	BST
1	EA	CLOSER	CLD-4550 SN (MOUNT PARALLEL ARM - PUSH SIDE)	689	SDC
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
3	EA	SILENCER	1229A	GREY	TRM

HARDWARE SET # 25.0 - RESOURCE (3070/SCWDXEXISTING FRM)

DOOR(S): 207B,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
1	EA	CONTINUOUS HGE	654HD X LAR (HALF MORTISE)	630	STN
1	EA	LOCKSET	45H7R14J CORMAX (CLASSROOM)	626	BST
1	EA	CLOSER	CLD-4550 SN (MOUNT REGULAR ARM - PULL SIDE)	689	SDC
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
3	EA	SILENCER	1229A	GREY	TRM

HARDWARE SET # 26.0 - LAB (3470/SCWDXHMF)

DOOR(S): 215A,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
4	EA	HINGE	FBB168 5 X 4.5 NRP	652	STN
1	EA	RIM EXIT DEVICE	3RO 2108 X 4908D (CLASSROOM)	626	BST
1	EA	CYLINDER	12E-72 CORMAX (RIM)	626	BST
1	EA	CLOSER	CLD-4550 SN (MOUNT PARALLEL ARM - PUSH SIDE)	689	SDC
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
3	EA	SILENCER	1229A	GREY	TRM

HARDWARE SET # 27.0 - JANITOR, PREP (3070/SCWDXEXISTING FRM/UL)

DOOR(S): 225A, 226A,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
1	EA	CONTINUOUS HGE	654HD X LAR (HALF MORTISE)	630	STN
1	EA	LOCKSET	45H7R14J CORMAX (CLASSROOM)	626	BST
1	EA	CLOSER	CLD-4550 CS SN (COMPRESSION STOP) (MOUNT PARALLEL ARM - PUSH SIDE)	689	SDC
1	EA	WALL STOP	1270WX (CONVEX)	630	TRM
1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP

HARDWARE SET # 28.0 - BOOK STORAGE (2-2670 & 2-3070/SCWDXHMF)

DOOR(S): 228A, 229A, 230A,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
6	EA	HINGE	FBB179 4.5 X 4.5 NRP	652	STN
2	EA	FLUSHBOLT	3917-12	626	TRM
1	EA	LOCKSET	45H7D14J CORMAX (STOREROOM)	626	BST
2	EA	OVERHEAD STOP	4420 SERIES	S1	ABH
2	EA	SILENCER	1229A	GREY	TRM

HARDWARE SET # 29.0 - ROOF ACCESS (2-2458/FRPXFRP)

DOOR(S): 301B,

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
2	EA	CONTINUOUS HGE	661HD X LAR	AL	STN
2	EA	FLUSHBOLT	3917-12	630	TRM
1	EA	LOCKSET	45H7D14J CORMAX (STOREROOM) (MECHANICAL ROOM SECURE SIDE)	630	BST
1	EA	CLOSER	CLD-4550 CS SN (MOUNT PARALLEL ARM - PUSH SIDE)	689/SRI	SDC
1	EA	OVERHEAD STOP	N9020 SERIES (INACTIVE LEAF)	630	ABH
2	EA	PROTECTION PLT	KO050 10" X 1" LDW B4E/CSK (KICK-PUSH)	630	TRM

1	EA	SEAL	5050B X LAR (HEAD/JAMBS)	BLK	NGP
2	EA	SWEEP	601A X LAR	AL	NGP
1	EA	THRESHOLD	896S X LAR X FASTENERS FOR SECURE ATTACHMENT TO SUBSTRATE	AL	NGP

HARDWARE SET # 100.0 - MISCELLANEOUS MATERIAL

DOOR(S): MISC

EACH TO HAVE:

QTY	UNIT	PRODUCT	DESCRIPTION	FINISH	MFG
1	EA	KEY CABINET	2018-XX-003 SERIES X 150% CAPACITY	N/A	MMF
1	EA	KNOX BOX	3200 SERIES	BLK	KNX

END OF SECTION 087100

A. General: Locate sign units and accessories where indicated, using mounting methods of the type described and in compliance with the manufacturer's instructions.

1. Install signs level, plumb, and at the height indicated, with sign surfaces free from distortion or other defects in appearance.

3.2 CLEANING AND PROTECTION

A. At completion of the installation, clean soiled sign surfaces in accordance with the manufacturer's instructions. Protect units from damage until acceptance by the Owner.

3.3 SIGN SCHEDULE

NUMBER OF SIGNS	SIGN COPY	ROOM #	SIGN TYPE
1	FIRST FLOOR	101	C
1	MEDIA CENTER	103	C
1	COMPUTER SCIENCE	104	C
1	COMPUTER SCIENCE	104	C
1	DATA	105	C
1	CONFERENCE	106	C
1	WORK ROOM	107	C
1	TECH OFFICE	107	C
1	OFFICE	108	B
1	OFFICE	108	B
1	MEDIA CENTER	103	C
1	OFFICE	113	B
1	OFFICE	113	B
1	OFFICE	114	B
1	STORAGE	110	C
1	STORAGE	111	C
1	OFFICE	112	B
1	2115	115	B
1	2116	116	B
1	TEACHER RESOURCE	117	C
1	2118	118	B
1	2119	119	B
1	2120	120	B
1	2121	121	B
1	2122	122	B
1	WATER RISER	123	C Aluminum weather proof sign.
1	STORAGE	124	C
1	2125	125	B
1	STORAGE	126	C

NUMBER OF SIGNS	SIGN COPY	ROOM #	SIGN TYPE
1	STORAGE	109	C
1	STORAGE	127	C
1	2129	129	B
1	2130	130	B
1	TECH OFFICE	131	B
3		132	1 ea. A1; 2 ea. A3
3		133	1 ea. A2; 2 ea. A3
1		134	A4
1	JANITOR	135	C
1		136	A4
1	ELECTRICAL	137	C
1	ELEVATOR EQUIPMENT	138	C
1	STAIR	201	C
1	2202	202	B
1	2203	203	B
1	2204	204	B
1	2205	205	B
1	2206	206	B
1	STORAGE	207	C
1	STORAGE	207	C
1	CHEMISTRY STORAGE	208	C
1	STAIR	209	C
1	2210	210	B
1	2211	211	B
1	2212	212	B
1	2213	213	B
1	2214	214	B
1	2215	215	B
1	PREP ROOM #1	216	C
1		217	A4
1		218	A4
1	2219	219	B
1	2219	219	B
3		220	1 ea. A1; 2 ea. A3
3		221	1 ea. A2; 2 ea. A3
1	2222	222	B
1	2222	222	B
1	DATA	223	C
1	JANITOR	225	C
1	PREP ROOM #2	226	C
1	PREP ROOM #2	226	C
1	STORAGE	227	C
1	BOOKS	228	C
1	BOOKS	229	C

NUMBER OF SIGNS	SIGN COPY	ROOM #	SIGN TYPE
1	BOOKS	230	C
1	MECH / ELECT	301	C

END OF SECTION 101400