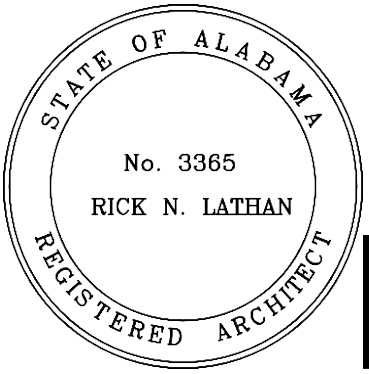

LATHAN
ARCHITECTS
LATHAN ▪ BRYANT ▪ CALMA

300 CHASE PARK SOUTH • SUITE 200 • HOOVER, ALABAMA 35244
205-988-9112

ADDENDUM NO. 1
NEW JROTC FACILITY FOR PLEASANT GROVE HIGH SCHOOL
Architect Job No. 21-66
March 10, 2022
DCM No. 2021505
Bid # 12-22

BIDS DUE:
Thursday, March 17, 2022, until
2:00 p.m., local time
Jefferson County Board of Education
2100 18th Street South
Birmingham, AL 35209

The Plans and Specifications are here by amended. The following supersedes all contrary and/or conflicting information and is made part of the contract documents.

PRE-BID SIGN IN SHEET IS ATTACHED

SPECIFICATIONS

1. Section 08710 – Finish Hardware
   Add this Section

MANDATORY PRE-BID CONFERENCE
SIGN-IN SHEET

Project: **New JROTC Facility for Pleasant Grove High School**
Architects Job No. 21-66, DCM No. 2021505, PSCA No. 9324

Date / Time: Wednesday, March 9, 2022 at 10:00 a.m.

Location: Jefferson County Board Office, 2100 18th Street South, Birmingham, AL 35209

Attendee (Please Print)	Company / Agency Name (Please Print)	Daytime Phone
FRED PREISS	WILLFORD ORR-AW	205 620-0644
Chris Miller	Tyson	205.366.3530
David Seward	Dominguez Design-Build, Inc.	334 314-1896
ALEX BATTLE	BATTLE MILLER	205-824-2501
Lacrista Bishop	Bennett Building	205-403-6511
Tracie Busby	Jefcoed	205 379-2215
JEFF CALFIELD	JEFCOED	205 379 2010

1.0 - GENERAL

1.1 Related Documents

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

1.2 Summary

A. This Section includes items known commercially as finish or door hardware that are required for swing, sliding, and folding doors, except special types of unique hardware specified in the same sections as the doors and door frames on which they are installed.

B. This Section includes the following:
1. Hinges
2. Continuous hinges
3. Key control system
4. Lock cylinders and keys
5. Lock and latch sets
6. Closers
7. Overhead holders
8. Miscellaneous door control devices
9. Door trim units
10. Protection plates
11. Weatherstripping for exterior doors
12. Thresholds

C. Related Sections: The following Sections contain requirements that relate to the following sections.
1. Section 08110: Hollow Metal Doors and Frames
2. Section 08215: Wood Doors

D. Products furnished but not installed under this Section to include:
1. Cylinders for locks on entrance doors.
2. Final replacement cores and keys to be installed by Owner.

1.3 References

A. Standards of the following as referenced:
1. American National Standards Institute (ANSI)
2. Door and Hardware Institute (DHI)
3. Factory Mutual (FM)
4. National Fire Protection Association (NFPA)
5. Underwriters' Laboratories, Inc. (UL)
   a. UL 10C - Fire Tests Door Assemblies
6. Warnock Hersey

B. Regulatory standards of the following as referenced:
1. Department of Justice, Office of the Attorney General, *Americans with Disabilities Act*, Public Law 101-336 (ADA).
2. CABO/ANSI A117.1: *Providing Accessibility and Usability for Physically Handicapped People*, 2010 edition.

1.4 Submittals

A. General: Submit the following in accordance with Conditions of Contract and

Division 1 Specification sections.

B. Product data including manufacturers' technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements. For items other than those scheduled in the “Headings” of Section 3, provide catalog information for the specified items and for those submitted.

C. Final hardware schedule coordinated with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
   1. Final Hardware Schedule Content: Based on hardware indicated, organize schedule into vertical format “hardware sets" indicating complete designations of every item required for each door or opening. Use specification heading numbers with any variations suffixed a, b, etc. Include the following information:
      a. Type, style, function, size, and finish of each hardware item.
      b. Name and manufacturer of each item.
      c. Fastenings and other pertinent information.
      d. Location of each hardware set cross-referenced to indications on Drawings both on floor plans and in door and frame schedule.
      e. Explanation of all abbreviations, symbols, and codes contained in schedule.
      f. Mounting locations for hardware.
      g. Door and frame sizes and materials.
      h. Keying information.
      i. Cross-reference numbers used within schedule deviating from those specified.
         1) Column 1: State specified item and manufacturer.
         2) Column 2: State prior approved substituted item and its manufacturer.
   2. Submittal Sequence: Submit final schedule at earliest possible date particularly where acceptance of hardware schedule must precede fabrication of other work that is critical in the Project construction schedule. Include with schedule the product data, samples, shop drawings of other work affected by door hardware, and other information essential to the coordinated review of schedule.
   3. Keying Schedule: Submit separate detailed schedule indicating clearly how the Owner's final instructions on keying of locks has been fulfilled.

D. Provide samples if requested of each type of exposed hardware unit in finish indicated and tagged with full description for coordination with schedule. Submit samples prior to submission of final hardware schedule.
   1. Samples will be returned to the supplier. Units that are acceptable and remain undamaged through submittal, review, and field comparison process may, after final check of operation, be incorporated in the Work, within limitations of keying coordination requirements.

E. Templates for doors, frames, and other work specified to be factory prepared for the installation of 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.

F. Contract closeout submittals:
   1. Operation and maintenance data: Complete information for installed door hardware.
   2. Warranty: Completed and executed warranty forms.

1.5 Quality Assurance

A. Single Source Responsibility: Obtain each type of hardware (latch and locksets, hinges, closers, etc.) from a single manufacturer.

1. Supplier Qualifications: A recognized architectural door hardware supplier, with warehousing facilities in the Project's vicinity, that has a record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that employs an experienced Architectural Hardware Consultant (AHC) who is available for consultation to Owner, Architect, and Contractor, at reasonable times during the course of the Work.

B. Coordination Meetings:

1. Contractor to set up and attend the following:

a. Lock distributor to meet with the Owner to finalize lock functions and keying requirements and to obtain final instructions in writing.

b. Lock distributor and lock, closer and exit device manufacturer to meet with the installer prior to beginning of installation of door hardware. Instruct installer on proper installation of specified products.

C. Fire-Rated Openings: Provide door hardware for fire-rated openings that complies with NFPA Standard No. 80 requirements of authorities having jurisdiction.

1. Provide only items of door hardware that are listed and tested by UL or Warnock Hersey for given type/size opening and degree of label. Provide proper latching hardware, door closers, approved-bearing hinges and seals whether listed in the Hardware Schedule or not. All hardware to comply with State and local codes and UL 10C.

2. Where emergency exit devices are required on fire-rated doors, (with supplementary marking on doors' UL labels indicating "Fire Door to be equipped with Fire Exit Hardware") provide UL label on exit devices indicating "Fire Exit Hardware".

D. All hardware is to comply with Federal and State Handicap laws.

E. Substitutions: Request for substitutions of items of hardware other than those listed as "acceptable and approved" shall be made to the architect in writing no later than fourteen (14) days prior to bid opening. Approval of substitutions will only be given in writing by Addenda. Requests for substitutions shall be accompanied by samples and/or detailed information for each manufacturer of each product showing design, functions, material thickness and any other pertinent information needed to compare your product with that specified. Lack of this information will result in a refusal.

1.6 Product Handling

A. Tag each item or package separately with identification related to final hardware schedule, and include basic installation instructions with each item or package.

B. Packaging of door hardware is responsibility of supplier. As material is received by hardware supplier from various manufacturers, sort and repackage in containers clearly marked with appropriate hardware set number to match set numbers of approved hardware schedule. Two or more identical sets may be packed in same container.

C. Inventory door hardware jointly with representatives of hardware supplier and hardware installer until each is satisfied that count is correct.

D. Deliver individually packaged door hardware items promptly to place of

installation (shop or Project site).

E. Provide secure lock-up for door hardware delivered to the Project, but not yet installed. Control handling and installation of hardware items that are not immediately replaceable so that completion of the Work will not be delayed by hardware losses both before and after installation.

1.7 Warranty

A. Special warranties:
1. Door Closers: Thirty year period
2. Locks and Cylinders: Three year period

1.8 Maintenance

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions that are packed in hardware items for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

2.0 - PRODUCTS

2.1 Manufactured Units

(*Denotes preferred manufacturer)

A. Hinges:
1. Acceptable manufacturers:
a. Ives
b. Bommer
c. McKinney*
2. Characteristics:
a. Templates: Provide only template-produced units.
b. Screws: Provide Phillips flat-head screws complying with the following requirements:
1) For metal doors and frames install machine screws into drilled and tapped holes.
2) For wood doors and frames install threaded-to-the-head wood screws.
3) For fire-rated wood doors install #12 x 1-1/4 inch, threaded-to-the-head steel wood screws.
4) Finish screw heads to match surface of hinges or pivots.
c. Hinge pins: Except as otherwise indicated, provide hinge pins as follows:
1) Out-Swing Exterior Doors: Non-removable pins.
2) Out-Swing Corridor Doors with Locks: Non-removable pins.
3) Interior Doors: Non-rising pins.
4) Tips: Flat button and matching plug. Finished to match leafs.
d. Size: Size hinges in accordance with specified manufacturer’s published recommendations.
e. Quantity: Furnish one pair of hinges for all doors up to 5’-0" high. Furnish one hinge for each additional 2-1/2 feet or fraction thereof, unless otherwise specified in Hardware Headings.

B. Continuous Hinges:
1. Acceptable manufacturers:
a. Ives
b. Select Products
c. Pemko*
2. Characteristics:
a. Continuous gear hinges to be manufactured of extruded 6063-T6 aluminum alloy with anodized finish, or factory painted finish as scheduled.

b. All hinges are to be manufactured to template. Uncut hinges to be non-handed and to be a pinless assembly of three interlocking extrusions applied to the full height of the door and frame without mortising.
c. Vertical door loads to be carried on chemically lubricated polyacetal thrust bearings. The door and frame leaves to be continually geared together for the entire hinge length and secured with a full cover channel. Hinge to operate to a full 180º.
d. Hinges to be milled, anodized and assembled in matching pairs. Fasteners supplied to be steel self-drilling, self-tapping 12-24 x ¾" screws.
e. Provide UL listed continuous hinges at fire doors. Continuous hinges at fire doors (suffix -FR) to meet the required ratings without the use of auxiliary fused pins or studs.

C. Cylinders:
1. Acceptable manufacturers:
a. Match existing keying system
2. Characteristics:
a. Except as otherwise indicated, provide new master key system for project.
b. Metals: Construct lock cylinder parts from brass or bronze, stainless steel, or nickel silver.
c. Comply with Owner's instructions for master keying and, except as otherwise indicated, provide individual change key for each lock that is not designated to be keyed alike with a group of related locks.
1) Permanently inscribe each key with number of lock that identifies cylinder manufacturer's key symbol, and notation, "DO NOT DUPLICATE".
d. Key Material: Provide keys of nickel silver only.
e. Key Quantity: Furnish (3) change keys for each lock, (5) master keys for each master system, (5) grandmaster keys for each grandmaster system, (10) construction master keys, (2) construction Control Keys.
1) Furnish one extra blank for each lock.
2) Furnish construction master keys to General Contractor.
3) Deliver keys to Owner.

D. Mortise Locksets and Latchsets: as scheduled.
1. Acceptable manufacturers:
a. Sargent 8200 Series*
b. Or Approved Equal
2. Required Features:
a. Chassis: Cold-rolled steel, handing field-changeable without disassembly.
b. Latchbolts: 3/4-inch throw stainless steel anti-friction type.
c. Lever Trim: Through-bolted, accessible design, cast or solid rod lever as scheduled. Spindles: Independent break-away.
d. Thumbturns: Accessible design not requiring pinching or twisting motions to operate.
e. Deadbolts: Stainless steel 1-inch throw.

f. Strikes: 16 gage curved stainless steel, bronze or brass with 1" deep box construction, lips of sufficient length to clear trim and protect clothing.
g. Scheduled Lock Series and Design: Match existing lever design.
h. Certifications:
1) ANSI A156.13, 1994, Grade 1 Operational, Grade 1 Security.
2) ANSI/ASTM F476-84 Grade 30 UL Listed.

E. Exit Devices:
1. Acceptable manufacturers:
a. Sargent 80 Series*
b. Or Approved Equal
2. Characteristics:
a. Exit devices to be UL Listed for life safety. Exit devices for fire rated openings to have “UL" labels for “Fire Exit Hardware."
b. Exit devices mounted on labeled wood doors to be mounted on the door per the door manufacturer’s requirements.
c. All trim to be thru-bolted to the lock stile case.
d. Lever trim to be solid case material with a break-away feature to limit damage to the unit from vandalism. Lever design to match locksets.
e. All exit devices to be made of brass, bronze, stainless steel, or aluminum material, powder coated, anodized, or plated to the standard architectural finishes to match the balance of the door hardware.
f. Provide glass bead conversion kits to shim exit devices on doors with raised glass beads.
g. All exit devices to be one manufacturer. No deviation will be considered.
h. All series exit devices to incorporate a fluid damper, which decelerates the touchpad on its return stroke and eliminates noise associated with exit device operation. All exit devices to be non-handed. Touchpad to extend a minimum of 1/2 of the door width and to extend to the height of the cross rail housing for a “no pinch” operation. Plastic touchpads are not acceptable. All latchbolts to be the deadlocking type. Latchbolts to have a self-lubricating coating to reduce wear. Plated or plastic coated latchbolts are not acceptable. Plastic linkage and “dogging” components are not acceptable.
i. Surface vertical rod devices to be UL labeled for fire door applications without the use of bottom rod assemblies. Where bottom rods are required for security applications, the devices to be UL labeled for fire doors applications with rod and latch guards by the device manufacturer.
j. Exit devices to include impact resistant, flush mounted end cap design to avoid damage due to carts and other heavy objects passing through an opening. End cap to be of heavy-duty metal alloy construction and provide horizontal adjustment to provide alignment with device cover plate. When exit device end cap is installed, no raised edges will protrude.

F. Closers and Door Control Devices:
1. Acceptable manufacturers:
a. Sargent 281 Series*
2. Characteristics:

a. Door Closers shall be cast construction, minimum 1 ½" closer piston diameter, manufactured in USA, to be certified to exceed ten million (10,000,000) full load cycles by a recognized independent testing laboratory and shall have minimum ten year service record in K-12 school environments. Requests for approval for surface door closers shall be accompanied by project references. Approval shall be solely at the architect's discretion. All closers (overhead, surface and concealed) to be of one manufacturer and carry manufacturer's thirty year warranty
b. Door closers to have fully hydraulic, full rack and pinion action.
c. All closers to utilize a stable fluid withstanding temperature range of 120°F to -30°F without seasonal adjustment of closer speed to properly close the door. Closers for fire-rated doors to be provided with temperature stabilizing fluid that complies with standards UBC 7-2 (1997) and UL 10C.
d. Spring power to be continuously adjustable over the full range of closer sizes, and allow for reduced opening force for the physically handicapped. Spring power adjustment (LCN Fast ™ Power Adjust) allows for quick and accurate power adjustment and visually shows closer power size settings by way of dial adjustment gauge located on closer spring tube. Hydraulic regulation to be by tamper-proof, non-critical valves. Closers to have separate adjustment for latch speed, general speed and back check.
e. All closers to have solid forged steel main arms (and forearms for parallel arm closers) and where specified to have a cast-in solid stop on the closer shoe ("CUSH"). All parallel arm mounted closers to have "EDA" type arms or, where door travel on out-swing doors must be limited, use "CUSH" or "SCUSH" type closers. Auxiliary stops are not required when "CUSH" type closers are used. Provide drop plates where top rail of door is not sufficient for closer mounting. Provide "cush shoe supports" and "blade stop spacers" where dictated by frame details.
f. Access-Free Manual Closers: Where manual closers are indicated for doors required to be accessible to the physically handicapped provide adjustable units complying with ADA and ANSI A-117.1 provisions for door opening force.
g. Closers to be installed to allow door swing as shown on plans. Doors swinging into exit corridors to provide for corridor clear width as required by code. Where possible, mount closers inside rooms.
h. Powder coating finish to be certified to exceed 100 hours salt spray testing by ETL, an independent testing laboratory used by BHMA for ANSI certification.

F. Floor Stops and Wall Bumpers:
1. Acceptable manufacturers:
a. Ives
b. Trimco
c. Rockwood Manufacturing*
2. Characteristics: Refer to Hardware Headings.

G. Protective Plates:
1. Acceptable manufacturers:
a. Ives
b. Trimco

c. Rockwood Manufacturing

2. Characteristics:
   a. Provide manufacturers standard exposed fasteners for door trim units consisting of either machine screws or self-tapping screws.
   b. Materials:
      1) Metal Plates: Stainless Steel, .050 inch (U.S. 18 gage).
   c. Fabricate protection plates not more than 2 inches less than door width on push side and not more than 1 inch less than door width on pull side.
   d. Heights:
      1) Kick plates to be 8 inches in height.
      2) Mop plates to be 6 inches in height.
      3) Kick plates and Mop plates to be 1” less that bottom rail height where applicable.

H. Thresholds:
1. Acceptable manufacturers:
   a. Pemko*
   b. National Guard Products, Inc.
   c. Zero
2. Types: Indicated in Hardware Headings.

I. Door Seals/Gasketing:
1. Acceptable manufacturers:
   a. Pemko*
   b. National Guard Products, Inc.
   c. Zero
2. Types: Indicated in Hardware Headings.

2.2 Materials And Fabrication

A. Manufacturer's Name Plate: Do not use manufacturers' products that have manufacturer's name or trade name displayed in a visible location (omit removable nameplates) except in conjunction with required fire-rated labels and as otherwise acceptable to Architect.
1. Manufacturer's identification will be permitted on rim of lock cylinders only.

B. Base Metals: Produce hardware units of basic metal and forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness, but in no case of lesser (commercially recognized) quality than specified for applicable hardware units by applicable ANSI/BHMA A156 series standards for each type of hardware item and with ANSI/BHMA A156.18 for finish designations indicated. Do not furnish "optional" materials or forming methods for those indicated, except as otherwise specified.

C. Fasteners: Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation.
1. Do not provide hardware that has been prepared for self-tapping sheet metal screws, except as specifically indicated.
2. Furnish screws for installation with each hardware item. Provide Phillips flat-head screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match hardware finish or, if exposed in surfaces of other work, to match finish of this other work as closely as possible including “prepared for paint" surfaces to receive

painted finish.

3. Provide concealed fasteners for hardware units that are exposed when door is closed except to the extent no standard units of type specified are available with concealed fasteners.
4. Use thru-bolts for installation of all exit devices, closers, and surface-mounted overhead stops. Coordinate with wood doors and metal doors and frames. Where thru-bolts are used, provide sleeves for each thru-bolt as a means of reinforcing the work, or provide sex nuts and bolts.

2.3 Hardware Finishes

A. Match items to the manufacturer's standard color and texture finish for the latch and lock sets (or push-pull units if no latch or lock sets).

B. Provide finishes that match those established by ANSI or, if none established, match the Architect's sample.

C. 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.

D. Provide protective lacquer coating on all exposed hardware finishes of brass, bronze, and aluminum, except as otherwise indicated. The suffix "-NL" is used with standard finish designations to indicate "no lacquer."

E. The designations used to indicate hardware finishes are those listed in ANSI/BHMA A156.18, "Materials and Finishes," including coordination with the traditional U.S. finishes shown by certain manufacturers for their products.

1. Hinges: 652 (US26D) Satin Chrome Plated Steel
2. Continuous Hinges: 628 (US28) Clear Anodized Aluminum
3. Mortise Locks: 630 (US32D) Satin Stainless Steel
4. Door Closers: 689 Powder Coat Aluminum
5. Push Plates: 630 (US32D) Satin Stainless Steel
6. Pull Plates: 630 (US32D) Satin Stainless Steel
7. Protective Plates: 630 (US32D) Satin Stainless Steel
8. Door Stops: 626 (US26D) Satin Chrome Plated Brass/Bronze
9. Overhead Holders: 630 Satin Stainless Steel

3.0 - EXECUTION

3.1 Installation

A. Mount hardware units at heights indicated in following applicable publications, except as specifically indicated or required to comply with governing regulations and except as otherwise directed by Architect.
1. "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute.
2. "Recommended Locations for Builders Hardware for Custom Steel Doors and Frames" by the Door and Hardware Institute.
3. NWWDA Industry Standard I.S.1.7, "Hardware Locations for Wood Flush Doors."

B. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Where cutting and fitting is required to install hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation or application of surface protection with

finishing work specified in the Division 9 Sections. Do not install surface-mounted items until finishes have been completed on the substrates involved.

C. Set units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.

D. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

E. Set thresholds for exterior doors in full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements specified in Division 7 Section “Joint Sealers”.

F. Weatherstripping and Seals: Comply with manufacturer's instructions and recommendations to the extent installation requirements are not otherwise indicated.

3.2 ADJUSTING, CLEANING, AND DEMONSTRATING

A. Adjust and check each operating item of hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate freely and smoothly or as intended for the application made.
   1. Where door hardware is installed more than one month prior to acceptance or occupancy of a space or area, return to the installation during the week prior to acceptance or occupancy and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to function properly with final operation of heating and ventilating equipment.

B. Clean adjacent surfaces soiled by hardware installation.

C. Door Hardware Supplier's Field Service:
   1. Inspect door hardware items for correct installation and adjustment after complete installation of door hardware.
   2. Instruct Owner's personnel in the proper adjustment and maintenance of door hardware and hardware finishes.
   3. File written report of this inspection to Architect.

HARDWARE SCHEDULE

HWSET: A

EACH TO HAVE:

2	CONT. HINGE	FM_	PEM
1	REMOVABLE MULLION	L980S STAB	SAR
1	PANIC HARDWARE	16-19-43-GL-TB-8810	SAR
1	PANIC HARDWARE	16-19-43-GL-TB-8804-810	SAR
4	CYL/CORE	AS REQUIRED	
4	CONSTRUCTION CORE	AS REQUIRED	
2	SURFACE CLOSER	MC-TB-281 CPS	SAR
2	KICK PLATE	K1050 10” X 2” LDW B-CS	PEM
1	MULLION SEAL	139 PSA	ZER
1	RAIN DRIP	142	ZER
1	DOOR SWEEP	8198	ZER
1	SEALS	188	ZER
1	THRESHOLD	65	ZER

HWSET: B

EACH TO HAVE:

1	CONT. HINGE	FM_	PEM
1	PANIC HARDWARE	16-19-43-GL-TB-8804-810	SAR
2	CYL/CORE	AS REQUIRED	
2	CONSTRUCTION CORE	AS REQUIRED	
1	SURFACE CLOSER	MC-TB-281 CPS	SAR
1	KICK PLATE	K1050 10” X 2” LDW B-CS	PEM
1	RAIN DRIP	142	ZER
1	DOOR SWEEP	8198	ZER
1	SEALS	188	ZER
1	THRESHOLD	65	ZER

HW SET: C

EACH TO HAVE:

1	CONT. HINGE	FM	PEM
1	CLASSROOM DEADBOLT	8203	SAR
1	PULL PLATE	73CL X 70C	ROC
1	PUSH PLATE	70C	ROC
1	CYLINDER/CORE	AS REQUIRED	
1	SURFACE CLOSER	MC-TB-281 O	SAR
1	KICK PLATE	K1050 10" X 2" LDW B-CS	ROC
1	WALL STOP	406/407/408	ROC

HW SET: D

EACH TO HAVE:

2	CONT. HINGE	FM	PEM
2	FLUSH BOLT	550	ROC
1	STOREROOM LOCK	8204	SAR
1	CYLINDER/CORE	AS REQUIRED	
2	OH STOP	9-336	ROC
1	ASTRAGAL	43ST	ZER
2	DOOR SWEEP	8198	ZER
1	SEALS	188	ZER
1	THRESHOLD	65	ZER

HW SET: E

EACH TO HAVE:

6	HINGES	TA2714 4.5 X 4.5	MCK
2	FLUSH BOLT	550	ROC
1	STOREROOM LOCK	8204	SAR
1	CYLINDER/CORE	AS REQUIRED	
2	OH STOP	9-336	ROC

HW SET: F

EACH TO HAVE:

3	HINGES	TA2714 4.5 X 4.5	MCK
1	PRIVACY LOCK	8266	SAR
1	CYLINDER/CORE	AS REQUIRED	
1	SURFACE CLOSER	MC-TB-281 O	SAR
1	KICK PLATE	K1050 10" X 2" LDW B-CS	ROC
1	WALL STOP	406/407/408	ROC

HW SET: G

EACH TO HAVE:

3	HINGES	TA2714 4.5 X 4.5	MCK
1	ENTRY LOCK	8225	SAR
1	CYLINDER/CORE	AS REQUIRED	
1	WALL STOP	406/407/408	ROC

HW SET: H

EACH TO HAVE:

3	HINGES	TA2714 4.5 X 4.5	MCK
1	CLASSROOM LOCK	8237	SAR
1	CYLINDER/CORE	AS REQUIRED	
1	WALL STOP	406/407/408	ROC

HW SET: J

EACH TO HAVE:

3	HINGES	TA2714 4.5 X 4.5	MCK
1	CLASSROOM LOCK	8237	SAR
1	CYLINDER/CORE	AS REQUIRED	
1	OH STOP	90S	GLY

HW SET: K

EACH TO HAVE:

3	HINGES	TA2714 4.5 X 4.5	MCK
1	STOREROOM LOCK	8204	SAR
1	CYLINDER/CORE	AS REQUIRED	
1	OH STOP	90S	GLY
1	KICK PLATE	K1050 10" X 2" LDW B-CS	ROC

END OF SECTION