1 Keying
1.1 The contractor will provide cylinders and deliver to Purdue Lockshop. Purdue Lockshop will design key system and key all cylinders. The contractor will install cylinders.

2 As built schedules
2.1 Furnish ‘as-built’ or ‘as-installed’ schedule with closeout documents, including:
- keying schedule
- wiring/riser diagrams
- manufacturers’ installation, adjustment and maintenance information
- supplier’s final inspection report

3 Automatic door operators
3.1 Automatic door operators used for accessibility purposes shall be electro-mechanical.
   3.1.1 Besam Automatic Entrance Systems, Inc., model SW200i for high traffic and/or exterior doors
   3.1.2 LCN Closers, Inc., Benchmark
   3.1.3 Norton Door Controls, model 5900

4 Acceptable Hardware Manufacturers
4.1 Door hardware manufacturers are limited to those that follow to provide ease of maintenance, longevity of parts, and limit inventory for our maintenance personnel.
- Hinges: Ives, Hager, Stanley, McKinney
- Locksets: Sargent, Schlage
- Cylinders: Interior - Sargent non-removable core restricted keyways-BA, BB, BE. Exterior - Schlage RC restricted keyway-D125. Mechanical – Sargent RC restricted keyway-BF-6 (must be approved by Purdue Lock Shop).
- Flush bolts: Ives, DCI, Trimco.
- Panic Exit Devices: Von Duprin.
- Electronic Exit Devices: Von Duprin.
- Closers: LCN
- Continuous Hinges: Ives, Hagar Roton, Select Products Limited, Pemko.
- Pull and Push Plates: Ives, Rockwood, Trimco, Burns, Forms & Surfaces.
- Door Armor and Kick Plates (aluminum or stainless steel): Ives, Burns, Rockwood.
- Stops: Glynn-Johnson, Ives, DCI, Trimco.
- Sweeps: Pemko, National Guard, Reese.
- Electric Door Holder: LCN, Rixson.
- Thresholds: National Guard, Pemko, Reese.
- Weather Stripping: National Guard, Pemko, Reese.
- Smoke Gaskets: National Guard, Pemko, Reese.

5 Commissioning
5.1 Conduct commissioning tests three weeks prior to request for certificate of substantial completion.
5.2 Test door hardware operation with climate control system and stairwell pressurization system both at rest and while in full operation.
5.3 Test electrical, electronic and electro-pneumatic hardware systems for satisfactory operation.
5.4 Test hardware interfaced with fire/life-safety system for proper operation and release.

6 Warranties
6.1 Provide manufacturers’ standard warranties for all hardware.

7 Mortise locksets and latchsets
7.1 Sargent 8200 Series, LW1B or LW1J.
7.2 Accepted substitutions: Schlage

8 Electromagnetic hold-open closers
8.1 Integrate with UL listed fire/life-safety alarm systems.
8.2 Multi-point units to have hold-open bypass at 80 deg or 140 deg. Closers to be swing-free/no-drift arms at pull-side mounted units.

9 Low operating force units
9.1 Doors with automatic door bottoms plus head and jamb seals cannot require more than two pounds operating force to open when closer
is disconnected.

10 Wall & Floor-mounted Electromagnetic Door Holders

10.1 LCN’s to be SEM series or approved equivalent. Incorporate into U.L.-listed fire & life-safety system such that doors are to release to allow closure and latching when door’s zone is in alarm state.

10.2 Use the minimum projection required to allow door to open as widely as allowed by wall conditions and projection of door hardware.

11 Shelter in Place

11.1 In order to provide for a shelter-in-place event, classroom doors shall have interior thumbturn dogging hardware.