

# **PART VI**

## **SCHEDULE E**

**NOTE TO OFFEROR -- COMMON AREAS OR BUILDING SERVICE AREAS THAT ARE INDICATED IN SCHEDULE E AND ARE NOT INCLUDED IN THE NUSF LEASED BY VA ARE SPECIFICALLY EXCLUDED FROM THE QUANTITIES LISTED IN SCHEDULE C.**

## **PART VI: SCHEDULE E--ROOM FINISH, DOORS & HARDWARE**

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## **SECTION 2 SCHEDULE E**

**PART VI SCHEDULE E--ROOM FINISH, DOORS & HARDWARE****SECTION 1 ROOM FINISH, DOOR AND HARDWARE SCHEDULE--GENERAL**

Schedule E lists each type of space or room required in the outpatient clinic. The following information is listed for each space in the Schedule:

Department, Area and Function

Floor, Wall and Ceiling Finishes

Door Symbol and Hardware Set

If the Lessor believes that there are spaces or conditions not included in this Schedule, the question shall be referred to the Contracting Officer.

**1.1 ROOM FINISHES, DOOR AND HARDWARE SCHEDULE****1.1.1 USE OF SCHEDULE E**

**THE REQUIREMENTS IN THIS SCHEDULE APPLY TO ALL SPACES TO BE OCCUPIED BY VA IN THE OUTPATIENT CLINIC. LESSOR SHALL PROVIDE MATERIALS, FINISHES, DOORS, FRAMES, AND HARDWARE IN ACCORDANCE WITH THIS SCHEDULE AND THE REQUIREMENTS SPECIFIED IN THIS SFO.**

Lessor shall provide each space with door(s) of the type and size as listed in Schedule E with hardware as noted. Doors and hardware requirements are indicated by their respective door symbols and hardware set numbers in this Schedule. Additional requirements are defined in Paragraph 1.3, "Finish Hardware".

The Lessor shall provide room finishes in each room in accordance with Schedule E. Finishes are shown in the schedule for the floor, base, wainscot, wall, and ceiling surfaces for each room or space. The following are abbreviations used for materials and codes throughout the room finishes, door, and hardware schedule. The Lessor shall coordinate abbreviations used in the construction documents prepared by the Lessor with the abbreviations and symbols used in this SFO.

ADO	Automatic Door Operator
AF	Access Flooring
AT	Acoustical Ceiling (Tile)
AT(SP)	Acoustical Ceiling (with Sprayed Plastic Finish)
AT(TG)	Acoustical Ceiling (with Tegular Edge)
AWF	Acoustical Wall Fabric (Tackable)
AWP	Acoustical Wall Panel
BP	Brick Pavers (Unit Pavers)
BR	Brick (Unit Masonry)
C	Concrete
CMU	Concrete Masonry Units (Unit Masonry)
CP	Carpet (without Cushion Broadloom)

CPT	Carpet Tile
CT	Ceramic Tile (Floor, Base, and Wall)
EFTR	Existing Finish to Remain
EPY	Epoxy (Coatings)
ERF	Epoxy Resinous Flooring
EX	Existing
EXP	Exposed
GL	Glass (Glazing)
GWB	Gypsum Wallboard Systems
HW	Hardware Set (Finish or Builders Hardware)
LM	Latex Mastic Flooring
MAT	Material
MC	Multi-Color Coating
NF	Natural Finish
NO	Number
P	Paint (Exterior, Interior, Transparent Finishes)
PC	Precast (Architectural Precast Concrete Panels)
PCP	Portland Cement Plaster
PFW	Polypropylene Fabric Wallcovering
PL	Plaster
PT	Porcelain Tile (Floor and Base)
PUT	Polyurethane
QT	Quarry Tile
RAF	Resilient Athletic Flooring
RB	Resilient Base (Rubber or Vinyl)
RES	Resinous Flooring
RF	Raised Rubber Flooring
RSF	Resilient Sheet Flooring
RT	Rubber Tread
S	Solid Surface
SC	High Build Glazed Coating (Special Coating)
SD	Static Dissipative
SP	Special Faced
SPEC	Special (Architect's Choice)
ST	Stone (Cast)
SVT	Solid Vinyl Tile (Luxury Vinyl Tile)

TT	Terrazzo Tile (Plastic Matrix)
TZ	Poured-in-Place Cementitious Terrazzo Flooring
VCT	Resilient Tile Flooring (Vinyl Composition Tile)
VP	Veneer Plaster
W	Wallcovering (Vinyl Coated Fabric)
WB	Wall Border
WD	Wood
WM	Walk-Off Mat (Modular Walk Off Carpet Tiles)
WP	Wallcovering Protective (Rigid PVC Sheet)
WSF	Welded Seam Sheet Flooring

**1.1.2 OTHER REQUIREMENTS****A. Laminated Fire Glass shall be used in fire rated assemblies**

Tempered Glass ("T") shall be used in all other Observations Windows and Doors with vision panels, including side lights.

**B. Wall Protection at Drinking Fountains and Lavatories**

Provide vinyl wall covering behind Drinking Fountain Alcoves where wallboard or plaster finish occur at a minimum 50 inches wide (or terminating at the nearest inside corner). The vinyl wall covering shall go from base to ceiling.

**C. Interior Side Lights**

Interior side lights shall be provided at all conference rooms.

**1.1.3 WALLCOVERING PROTECTIVE (WP), RIGID PVC SHEET**

Install rigid PVC sheet wall protection at locations indicated in Schedule E. Provide impact-resistant GWP under wallcovering of 0.060-inch or greater thickness. Do not seam within 24 inches of internal or external corners. Install covering before installation of bases, cabinets, hardware, or items attached to or spaced slightly from wall surface. Do not install covering more than 1/4 inch below top of resilient base. Terminate top of wallcovering at handrail or 34 inches above finished floor.

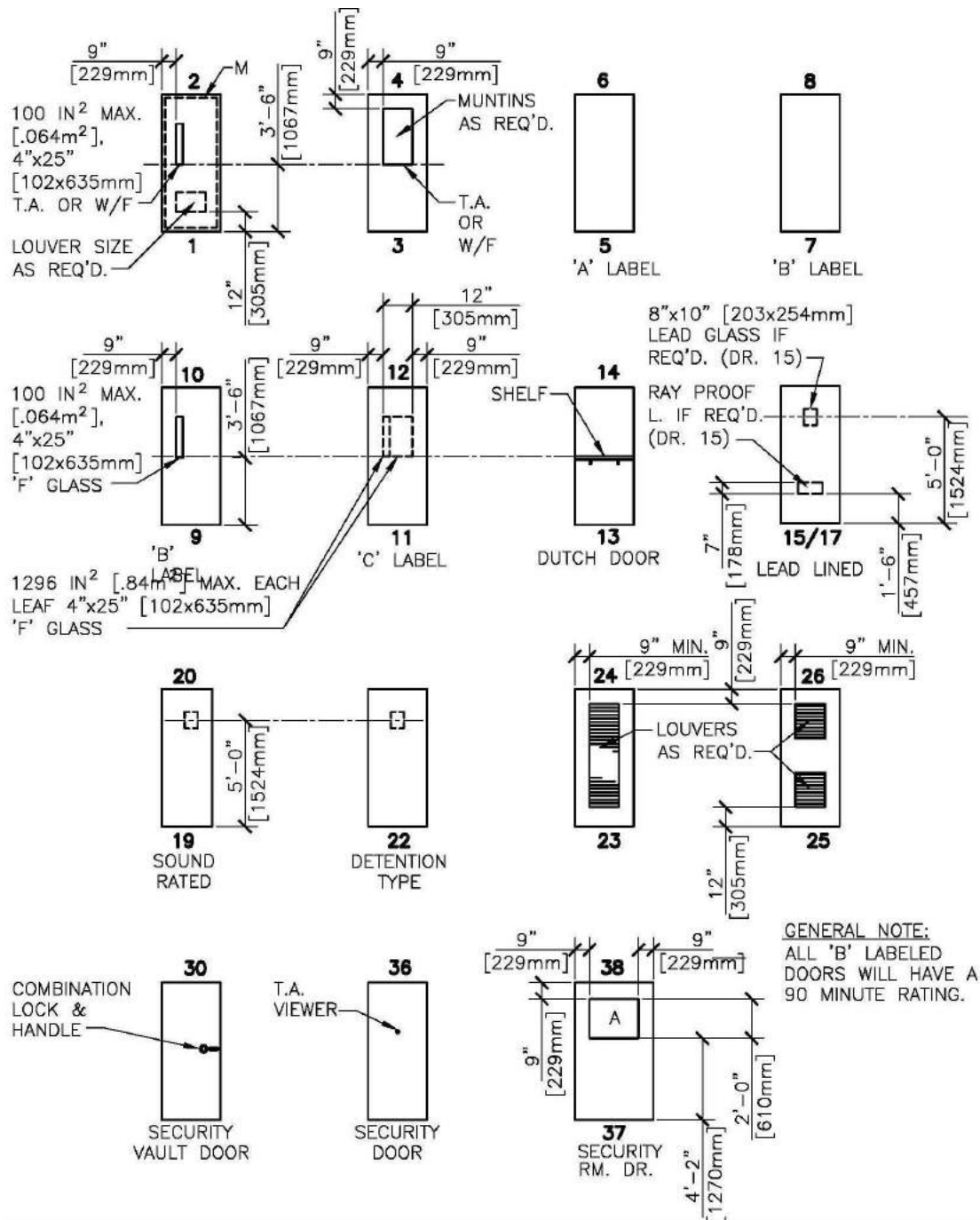
**1.2 DOORS****1.2.1 DOORS**

The Door Symbol column in Schedule E identifies the type, size and special features of doors for use in a room or space. The number and letters used for the Door Symbol have the following meaning; the first number indicates door type and door material (odd nos. wood and even nos. steel), e.g., "1, 2, 4, etc.". The first letter (or letters) indicate door size e.g. "S, UU, V, etc." The letter after a dash (e.g., "-A") indicates a modification to a door. Use these symbols and designations at door openings on floor plan drawings.

For additional door requirements see Architectural Criteria in Sections 6 and 7 in Part I of the SFO.

Doors to Housekeeping Closets shall open out. All private patient toilet room doors shall swing out 180 degrees or have double-acting rescue hardware where possible.

## 1.2.2 DOOR TYPES

Department of  
Veterans AffairsDETAIL TITLE / DOOR SCHEDULE, LEGEND, NOTES  
AND MODIFICATIONS

## 1.2.3 DOOR SIZES

DOOR SIZES									
MK	WIDTH		HEIGHT		MK	WIDTH		HEIGHT	
	IN	[mm]	IN	[mm]		IN	[mm]	IN	[mm]
A	1'-6"	[457]	6'-8"	[2032]	N	2'-0"	[610]	7'-0"	[2134]
B	2'-0"	[610]	6'-8"	[2032]	O	2'-2"	[660]	7'-0"	[2134]
C	2'-2"	[660]	6'-8"	[2032]	P	2'-4"	[711]	7'-0"	[2134]
D	2'-4"	[711]	6'-8"	[2032]	Q	2'-6"	[762]	7'-0"	[2134]
E	2'-6"	[762]	6'-8"	[2032]	R	2'-8"	[813]	7'-0"	[2134]
F	2'-8"	[813]	6'-8"	[2032]	S	3'-0"	[914]	7'-0"	[2134]
G	2'-10"	[864]	6'-8"	[2032]	T	3'-4"	[1016]	7'-0"	[2134]
H	3'-0"	[914]	6'-8"	[2032]	U	3'-6"	[1067]	7'-0"	[2134]
I	3'-2"	[965]	6'-8"	[2032]	V	3'-8"	[1118]	7'-0"	[2134]
J	3'-4"	[1016]	6'-8"	[2032]	W	3'-10"	[1168]	7'-0"	[2134]
K	3'-8"	[1118]	6'-8"	[2032]	X	4'-0"	[1219]	7'-0"	[2134]
L	3'-10"	[1168]	6'-8"	[2032]	Y	3'-0"	[914]	8'-0"	[2438]
M	1'-6"	[457]	7'-8"	[2337]	Z	UNASSIGNED			

DOOR MODIFICATIONS

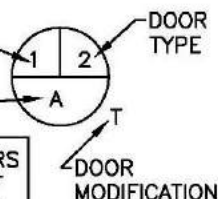
A LAMINATED GLASS  
D DOUBLE GLAZED  
TEMPERED GLASS  
H ELECTRIC HOLD  
L LOUVER  
LP LIGHT PROOF LOUVER  
M MECH. SEAL FOR LIGHT  
PROOF & SOUND  
RETARDING DOOR  
T TEMPERED GLASS  
U UNDERCUT 1" [25mm]  
V LEAD GLASS  
F FIRE RATED GLAZING

DOOR SYMBOL

FRAME TYPE  
(JAMB DETAIL)

DOOR SIZE

DOUBLE LETTERS  
EQUAL SIZE OF  
LEAF FOR PAIR  
OF DOORS

LEGEND (SEE ELEVATIONS)

[ ] GLASS OR LOUVER  
REQUIRED BY  
MODIFICATION

[ ] GLASS OR LOUVER  
REQUIRED BY  
ELEVATION TYPE

NOTES:

1. ALL DOORS SHALL BE FLUSH - 1 3/4" [44mm] THICK UNLESS NOTED OTHERWISE.
2. TOP & SIDE RAILS SHALL BE 9" [229mm] MIN. BOTTOM RAILS SHALL BE 12" MIN. [305mm].
3. DOOR TYPES 7, 8, & 9 SHALL NOT BE USED FOR OPPOSING DOORS.
4. EVEN NUMBERS ARE METAL; ODD NUMBERS ARE WOOD.

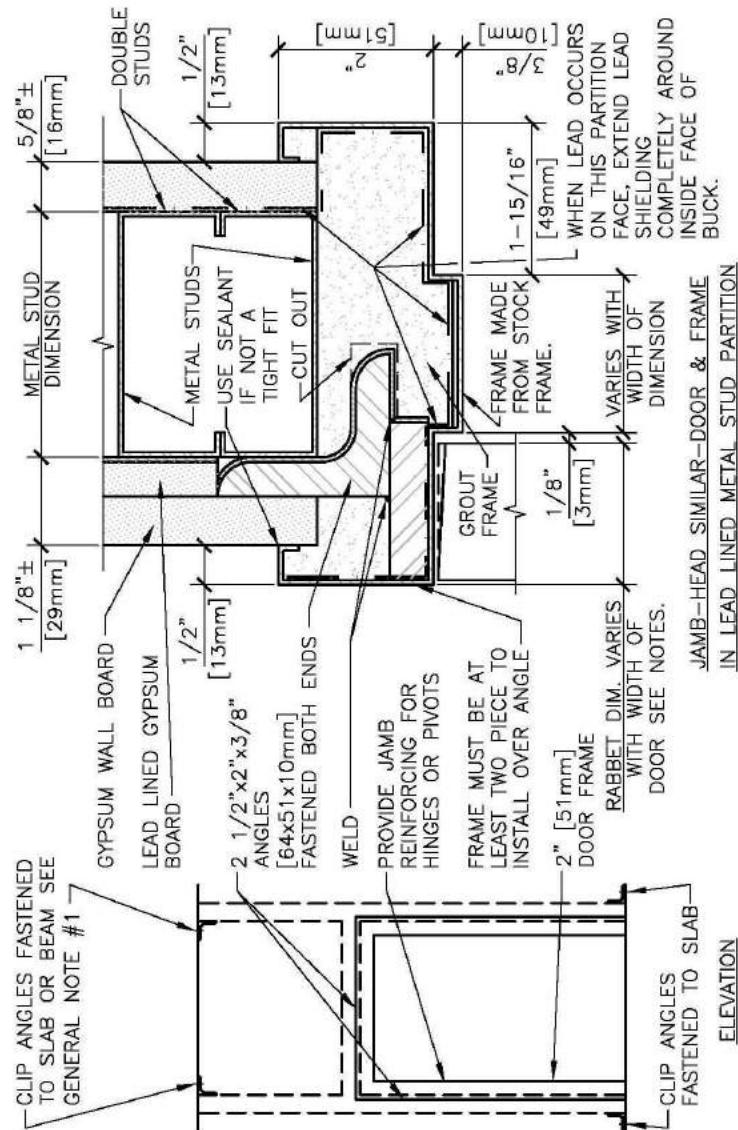


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DETAIL TITLE / DOOR SCHEDULE



#### 1.2.4 LEAD LINED DOORS AND FRAMES



## LEAD LINED DOOR TYPE 15 AND FRAME

NTS

**#**

GENERAL NOTES:

1. SPECIAL ANCHORAGE OF CLIP ANGLES AT INTERSTITIAL DECKS MAY BE REQUIRED.
2. THICKNESS OF LEAD AND LEAD GLASS IN DOORS IS TO BE DETERMINED BY A REGISTERED HEALTH PHYSICIST AND REVIEWED BY THE VA HEALTH PHYSICS PROGRAM OFFICE.
3. LEAD IS NOT REQUIRED IN THE DOOR HEAD WHEN IT IS ONLY REQUIRED IN WALLS TO 7'-0" [2134mm] HEIGHT.



Department of  
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DETAIL TITLE / LEAD LINED DOOR  
TYPE 15 AND FRAME

**1.3 FINISH HARDWARE****1.3.1 GENERAL****A. Hardware Set Numbers on Schedule**

Except for protective plates, door stops, mutes, thresholds and the like specified herein, hardware requirements for each door are indicated in the Room Finish and Door Schedule by numbers that correspond to the following hardware sets listed in this SFO.

**B. Manufacturers' Catalog Number References**

Where manufacturers' products are specified herein, products of other manufacturers which are considered equivalent to those specified may be used. Manufacturers whose products are specified are identified by abbreviations as follows:

Adams-Rite	Adams Rite Mfg. Co.	Glendale, CA
Best	The Stanley Works	Indianapolis, IN
Glynn Johnson	Glynn Johnson Co.	Chicago, IL
LCN	LCN Closers	Princeton, IL
Firemark	Rixon-Firemark Co.	Chicago, IL
Hager	Hager Hinge Company	Saint Louis, MO
Precision	The Stanley Works	Indianapolis, IN
Schlage	An Ingersoll Rand Company	Indianapolis, IN
Stanley	The Stanley Works	Indianapolis, IN
Sargent	An ASSA ABLOY Group Company	New Haven, CN
Trimco	Triangle Brass Mfg. Co.	Los Angeles, CA
Unican	Simplex Security Systems	Collinsville, CT
Von Duprin	Von Duprin Hardware Co.	Indianapolis, IN
Zero	Zero Weather Stripping Co.	New York, NY

**C. Keying**

All cylinders shall be keyed into Grand Master Key System. Provide removable core cylinders that are removable only with a special key or tool without disassembly of knob or lockset. Cylinders shall be 7 pin type. Keying information shall be furnished at a later date by the Resident Engineer.

**1.3.2 BUTT HINGES****A. ANSI A156.1.**

The following types of butt hinges shall be used for the types of doors listed, except where otherwise specified:

*(1) Exterior Doors*

Type A2112 for doors 900 mm (3 feet) wide or less and Type A2111 for doors over 900 mm (3 feet) wide. Hinges for exterior doors shall have non-removable pins.

(2) *Interior Doors*

Type 8112 for doors 900 mm (3 feet) wide or less and Type A8111 for doors over 900 mm (3 feet) wide.

(3) *Automatic doors hung on butts*

Type A2111 for exterior doors and aluminum doors, and Type A8111 for other doors.

(4) *Labeled Wood Fire Doors*

Type 8411 or Type 8412; these hinges shall be thru bolted to door with hex nuts and bolts.

Furnish hinge sizes and quantities conforming to manufacturer's recommendations for height, width and thickness as applicable to door size, height, weight and thickness. Hinges for fire rated doors are to be furnished conforming to NFPA 80.

**1.3.3****CONTINUOUS HINGES****A. ANSI/BHMA A156.26**

Grade 1-150

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

**B. General**

Minimum 0.120-inch- (3.0-mm-) thick, hinge leaves with minimum overall width of 4 inches (102 mm); fabricated to full height of door and frame and to template screw locations; with components finished after milling and drilling are complete:

(1) *Fire Pins*

Steel pins to hold labeled fire doors in place if required by tested listing.

**C. 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*

Aluminum.

(3) *Base Metal for Hinges for Fire-Rated Assemblies*

Steel.

(4) *Manufacturers*

Hager Companies.

Markar Architectural Products, Inc.; a Subsidiary of Adams Rite Manufacturing Co.

McKinney Products Company; an ASSA ABLOY Group company.

Stanley Commercial Hardware; Division. of the Stanley Works and Zero International.

**D. 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) *Manufacturers*

Bommer Industries, Inc.

Hager Companies.

McKinney Products Company; an ASSA ABLOY Group company.

Pemko Manufacturing Co.

Select Products Limited. Stanley Commercial Hardware, Division of the Stanley Works

Zero International.

#### 1.3.4 DOOR CLOSING DEVICES

Closing devices shall be products of one manufacturer for each type required.

The closer shall have 50 percent adjustable closing force over minimum value for that closer and have adjustable hydraulic back check effective between 60 degrees and 85 degrees of door opening.

Where specified, closer shall have hold-open feature.

Size Requirements: Size closers in accordance with manufacturer's recommendations or provide multi-size closers, sizes 1 through 6.

Furnish heavy duty arm stops at exterior doors or as indicated in the hardware sets.

Manufacturers:

Stanley Commercial Hardware; Indianapolis, IN

LCN; LCN Closers, Princeton, IL

Sargent; New Haven, CN

#### 1.3.5 DOOR STOPS

A. Conform to ANSI A156.16.

B. Provide door stops wherever an opened door or any item of hardware thereon would strike a wall, column, equipment or other parts of building construction. For concrete, masonry or quarry tile construction, use lead expansion shields for mounting door stops.

C. Where cylindrical locks with turn pieces or pushbuttons occur, equip wall bumpers Type L02251 (rubber pads having concave face) to receive turn piece or button.

D. Substitute floor stops Type L02141 or L02161 as appropriate, when wall bumpers would not provide an effective door stop.

E. Where drywall partitions occur, use floor stops, Type L02141 or L02161.

F. Provide stop Type L02011 or L02181, as applicable for exterior doors.

G. Omit stops where floor mounted door holders are required and where automatic operated doors occur.

H. Provide appropriate roller bumper for each set of doors (except where closet doors occur) where two doors would interfere with each other in swinging.

- I. Provide appropriate door mounted stop on doors in individual toilets where floor or wall mounted stops cannot be used.
- J. Provide overhead surface applied stop Type C02541, ANSI A156.8 on patient toilet doors in bedrooms where toilet door could come in contact with the bedroom door.
- K. Provide door stops on doors where combination closer magnetic holders are specified.

### 1.3.6 LOCKS AND LATCHES

A. Conform to ANSI A156.2. Locks and latches for doors 45 mm (1-3/4 inch) thick or over shall have beveled fronts. Lock cylinders shall have not less than seven pins. Cylinders for all locksets shall be removable core type. Cylinders shall be furnished with construction removable cores and construction master keys. Cylinder shall be removable by special key or tool. Construct all cores so that they will be interchangeable into the core housings of all mortise locks, rim locks, cylindrical locks, and any other type locks included in the Great Grand Master Key System. Disassembly of lever or lockset shall not be required to remove core from lockset. All locksets or latches on double doors with fire label shall have latch bolt with 19 mm (3/4 inch) throw. Provide temporary keying device or construction core to allow opening and closing during construction and prior to the installation of final cores.

B. In addition to above requirements, locks and latches shall comply with following requirements:

- 1. Cylindrical Lock and Latch Sets: levers shall meet ADA (Americans with Disabilities Act) requirements. Cylindrical locksets to be certified to ANSI/BHMA A156.2 Operational Grade 1, Security Grade 1 series 4000. Where two turn pieces are specified for lock F76, turn piece on inside knob shall lock and unlock inside knob, and turn piece on outside knob shall unlock outside knob when inside knob is in the locked position. (This function is intended to allow emergency entry into these rooms without an emergency key or any special tool.)
- 2. Mortise Lock and Latch Sets: Certified to ANSI/BHMA A156.13. Mortise locksets shall be series 1000, Operational Grade 1 Security Grade 2. Levers to be stainless steel base material. Locks and latchsets shall be furnished with 4 7/8" strikes conforming to ANSI A115.1 and furnished with wrought strike boxes. Furnish armored fronts for all mortise locks.
- 3. Auxiliary locks shall be as specified under hardware sets and conform to ANSI A156.5.

Manufacturers:

Best Access Systems; a Division of The Stanley Works

Schlage; an Ingersoll Rand Company

Sargent; an ASSA ABLOY Group Company

### 1.3.7 PUSH-BUTTON COMBINATION LOCKS

- A. ANSI/BHMA A156.5, Grade 1. Mechanical or electrically operated as indicated.
- B. Construction: Heavy duty cylindrical lock housing conforming to ANSI/BHMA A156.2, Grade 1. Lever handles and operating components in compliance with the UFAS and the ADA Accessibility Guidelines.

C. Special Features: Key override to permit a master keyed security system and a key activated passage feature to allow access without using the entry code.

D. Manufacturers:

1. Alarm Lock.
2. Code Locks, LLC
3. Locknetics; an Ingersoll Rand company.
4. Kaba Ilco.

### 1.3.8 ELECTROMAGNETIC LOCKS

#### A. ANSI/BHMA A156.23

Electrically powered, of strength and configuration indicated; with electromagnet attached to frame and armature plate attached to door. Listed under Category E in BHMA's "Certified Product Directory."

(1) *Type*

Full exterior or full interior, as required by application indicated.

(2) *Strength Ranking*

1000 lbf (4448 N).

(3) *Inductive Kickback Peak Voltage*

Not more than 53V.

(4) *Residual Magnetism*

Not more than 0 lbf (0 N) to separate door from magnet.

#### B. Delayed-Egress Locks

BHMA A156.24.

(1) *Means of Egress Doors*

Lock releases within 15 seconds after applying a force not more than 15 lbf (67 N) for not more than 3 seconds, as required by NFPA 101.

(2) *Security Grade*

Activated from secure side of door by initiating device.

(3) *Movement Grade*

Activated by door movement as initiating device.

#### C. Manufacturers

Door Controls International.

Doorguard Systems, Inc.

Dortronics Systems, Inc.

DynaLock Corp.

Locknetics; an Ingersoll-Rand Company.

Rutherford Controls Int'l. Corp.

SARGENT Manufacturing Company; an ASSA ABLOY Group company.

Securitron Magnalock Corporation; an ASSA ABLOY Group company.

Security Door Controls.

### 1.3.9 CARD READERS

Provide and install card readers where indicated and at all departmental suite entry doors. Integrate card readers with other specified systems and systems that are in place.

### 1.3.10 ELECTRIC STRIKES

A. ANSI/ BHMA A156.31 Grade 1.

B. General: Use fail-secure electric strikes with fire-rated devices.

C. Manufacturers:

1. Adams Rite Manufacturing Co.

2. Folger Adam Security Inc.; an ASSA ABLOY Group company.

3. HES, Inc.; an ASSA ABLOY Group company.

4. Locknetics; an Ingersoll-Rand Company.

5. Von Duprin; an Ingersoll Rand Company

### 1.3.11 KEYS

A. Stamp all keys with change number and key set symbol. Furnish keys in quantities as follows:

Locks/Keys	Quantity
Cylinder locks	2 keys each
Cylinder lock change key blanks	100 each different key way
Master-keyed sets	6 keys each
Grand Master sets	6 keys each
Control key	1 key

### 1.3.12 KEY CABINET

A. ANSI Standard A156.5. Provide key cabinet made of cold rolled, 1.2 mm (0.0478 inch) thick furniture steel electro-welded. Doors shall have "no sag" continuous brass-pin piano type hinge and be equipped with chrome plated locking door handles, hook cam and two parasentric keys. All locks shall be nickel plated with solid brass pin tumbler cylinder keyed as directed. Key Cabinet and Key Control System shall accommodate all keys for this project plus 25 percent.

B. Key tags shall consist of two sets: Permanent self-locking and loan key snaphook type with tag colors as follows: Red fiber marker of the permanent self-locking type approximately 32 mm (1-1/4 inch) in diameter engraved with the legend "FILE KEY MUST NOT BE LOANED." Also furnish for each hook a white cloverleaf key marker with snap-hooks engraved with the legend "LOAN KEY."

C. The manufacturer of the lock cylinders and locks shall attach a key tag to keys of each lock cylinder and shall mark thereon the respective item number and key change number. Provide each group of keys in a key gathering envelope (supplied by Key Cabinet Manufacturer) in which the lock manufacturer shall include the following information: Item number, key change number and door number. The contractor shall furnish the Key Cabinet Manufacturer the hardware and keying schedules and change keys.

D. The Key Cabinet Manufacturer shall set up a three-way cross index system, including master keys, listing the keys alphabetically, the hooks numerically and the key changes numerically on different colored index cards. Index cards shall be typewritten and inserted in a durable binder. Attach the keys to the two sets of numbered tags supplied with the cabinet. (The permanent tag and the loan key tag). Instruct the owner in proper use of the system. Install cabinet as directed by the Resident Engineer.

### 1.3.13 ARMOR PLATES, COMBINATION KICK-MOP PLATES AND DOOR EDGING

A. Conform to ANSI Standard A156.6.

B. Provide protective plates and door edging as specified below:

1. Kick-mop plates and armor plates plastic or metal, Type J100 series, color as required.

2. Provide kick-mop plates for both sides of each door, except where noted as not required. Kick-mop plates shall be 125 mm (5 inches) high. On push side of doors where jamb stop extends to floor, make combination kick-mop plates 38 mm (1-1/2 inches) less than width of door, except pairs of metal doors which shall have plates 25 mm (1 inch) less than width of each door. Extend all other combination kick-mop plates to within 6 mm (1/4 inch) of each edge of doors. Kick mop plates shall butt astragals. For jamb stop requirements, see specification sections pertaining to door frames.

3. Kick-mop plates are not required on following door sides:

- a) Armor plate side of doors;
- b) Exterior side of exterior doors;
- c) Closet side of closet doors;
- d) Storage side of doors to or from storage spaces; and
- e) Both sides of aluminum entrance doors.

4. Armor plates for doors are listed under "Hardware Sets". Armor plates shall be 875 mm (35 inches) high and 38 mm (1-1/2 inches) less than width of doors, except on pairs of metal doors. Plates on pairs of metal doors shall be 25 mm (1 inch) less than width of each door. Where top of intermediate rail of door is less than 875 mm (35 inches) from door bottom, extend armor plates to within 13 mm (1/2 inch) of top rail. On doors equipped with panic devices, extend armor plates to within 13 mm (1/2 inch) of panic bolt cross bar.



5. Where louver or grille occurs in lower portion of doors, substitute stretcher plate and kick-mop plate in place of armor plate. Size of stretcher plate and kick-mop plate shall be 125 mm (5 inches) high.

**1.3.14 EXIT DEVICES**

A. Certified to ANSI Standard A156.3. Exit devices shall be Grade 1; type and function are specified in hardware sets. Provide flush with finished floor strikes for vertical rod exit devices in interior of building. Trim shall have lever handles similar to locksets, unless otherwise specified.

B. Exit devices for fire doors shall comply with Underwriters Laboratories, Inc., requirements for Fire Exit Hardware. Submit proof of compliance.

**1.3.15 WEATHERSTRIPS (FOR EXTERIOR DOORS)**

Conform to ANSI A156.22. Air leakage shall not to exceed 0.50 CFM per foot of crack length (0.000774m<sup>3</sup>/s/m).

**1.3.16 MISCELLANEOUS HARDWARE**

A. Cylinders for Various Partitions and Doors: Key cylinders same as entrance doors of area in which partitions and door occur. Provide cylinders to operate locking devices where specified for following partitions and doors:

1. Folding doors and partitions.
2. Slide-up doors.

D. Mutes: Conform to ANSI A156.16. Provide door mutes or door silencers Type L03011, of white or light gray color, on each steel door frame, except lead-lined frames and frames for sound-resistant, lightproof and electromagnetically shielded doors. Furnish 3 mutes for single doors and 2 mutes for each pair of doors, except double-acting doors. Provide 4 mutes or silencers for frames for each Dutch type door. Provide 2 mutes for each edge of sliding door which would contact door frame.

**1.3.17 PADLOCKS FOR VARIOUS DOORS, GATES AND HATCHES**

A. ASTM E883, size 50 mm (2 inch) wide chain; furnish extended shackles as required by job conditions. Provide padlocks, with key cylinders, for each door in following areas as noted.

B. Key padlocks as follows:

1. Chain Link Fence Gates for Electrical Substation and other Fenced Buildings or Areas: Engineer's set, except as otherwise specified.
2. Chain Link Fence Gates for Oxygen Storage: Maintenance supply set.
3. Roof Access and Scuttles: Engineer's set.

1.3.18 Soundproofing gasketing

1. Adjustable door stops at head and jambs and an automatic door bottom per set, two auto door bottoms at pairs. Both extruded aluminum, clear anodized, surface applied with sponge silicon seals between plunger and housing. Furnish door bottoms with plunger and adjustable operating rod and sponge silicon rubber gasket and stainless steel actuating spring. Doorstops mitered at corners. Furnish type and function designation as specified in the hardware sets.

#### 1.3.18 HARDWARE SETS

Following sets of hardware correspond to hardware numbers shown in Room Finish and Door Schedule. Where hardware set for a single door is specified for a pair of doors; equip each leaf of such pair of doors with set noted. Only those hardware sets that are referenced in the Schedule will be required. Disregard breaks in hardware set numbering sequence. Disregard hardware sets listed below but not shown in Schedule.

<u>HW 1</u> Continuous Hinge Door Pull w/ Plate Push Plate Kick Plate Mop Plate (@ Inswing Door) Closer Floor Stop 3 Silencers	<u>HW 1F</u> Continuous Hinge Latchset Kickplate Wall Stop 3 Silencers
<u>HW 1L</u> Continuous Hinge Latchset Kick Plate Wall Stop Threshold Auto Door Bottom 2 Sets Self-Adhesive Seals	<u>HW 1P</u> Floor Closer 2 Push Plates 2 Kick Plates 2 Edge Guards Overhead Stop
<u>HW 1R</u> Continuous Hinge Latchset Kick Plate Closer (@ Rated Doors) Wall Stop Set Self-Adhesive Seals	<u>HW 2C</u> Hinges as required Privacy Lock Kick Plate Mop Plate (@ Inswing Doors) Wall Stop 3 Silencers
<u>HW 2G</u> Hinges as required Keyed Privacy Indicator Lock Closer Kick Plate Mop Plate (@ Inswing Door) Floor Stop Auto Door Bottom 2 Set Self-Adhesive Seals	<u>HW 3B</u> Hinges as required Office Lock Closer Floor Stop Door Viewer (omit if door has vision lite) Set Self-Adhesive Seals
<u>HW 3E</u> Hinges as required Office Lock Floor Stop Set Self-Adhesive Seals Coat Hook	<u>HW 3G</u> Hinges as required Office Lock Floor Stop Coat Hook Door Viewer Threshold Auto Door Bottom 2 Sets Self-Adhesive Seals
<u>HW 3H</u> Continuous Hinge Office Lock Closer Kick Plate Edge Guard Floor Stop Set Self-Adhesive Seals	<u>HW 3J</u> Continuous Hinge Office Lock Kick Plate Edge Guard Floor Stop Threshold Auto Door Bottom Set Sound/ Light Seals

<u>HW 4</u> Hinges as required Classroom Lock Overhead Stop 3 Silencers	<u>HW 4B</u> Continuous Hinge Public Restroom Lock 2 Closer Kick Plate Mop Plate (@ Inswing Doors) Floor Stop (@ Outswing Doors) Wall Stop (@ Inswing Doors) Threshold Auto Door Bottom 2 Sets Self-Adhesive Seals
<u>HW 4E</u> Hinges as required Utility Lock Closer Kick Plate Floor Stop Threshold Auto Door Bottom 2 Sets Self-Adhesive Seals	<u>HW 4F</u> Continuous Hinge Utility Lock Closer Armor Plate Edge Guard Floor Stop (@ Outswing Doors) Wall Stop (@ Inswing Doors) Set Self-Adhesive Seals
<u>HW 4G</u> Hinges as required Utility Lock Closer (@rated doors) Kick Plate Floor Stop Set Self-Adhesive Seals	<u>HW 4J</u> Hinges as required Utility Lock Closer (@ Rated Doors) Kick Plate Floor Stop Threshold Auto Door Bottom 2 Sets Self-Adhesive Seals
<u>HW 4K</u> Continuous Hinge Utility Lock Armor Plate Edge Guard (@Wood Doors) Floor Stop Set Self-Adhesive Seals	<u>HW 4L</u> Continuous Hinge Classroom Lock Kick Plate Edge Guard Floor Stop Threshold Auto Door Bottom Set Sound/ Light Seals
<u>HW 4M</u> Continuous Hinge Classroom Hospital Lock Heavy-Duty Armor Plate Edge Guard Floor Stop Set Self-Adhesive Seals	<u>HW 4N</u> Continuous Hinge Utility Lock Closer (@rated doors) Kick Plate Edge Guard (@Wood Doors) Floor Stop Auto Door Bottom 2 Sets Self-Adhesive Seals

<u>HW 4P</u> Continuous Hinge Classroom Hospital Lock Armor Plate Edge Guard Overhead Stop Threshold Auto Door Bottom 2 Sets Self-Adhesive Seals	<u>HW 4Q</u> Pivot Set Intermediate Pivot Utility Hospital Lock Armor Plate 2 Edge Guard Overhead Stop Set Self-Adhesive Seals
<u>HW 4V</u> Pivot Set Intermediate Pivot Utility Hospital Lock Closer Armor Plate 2 Edge Guard Overhead Holder-Stop Set Self-Adhesive Seals	<u>HW 5</u> Hinges as required Storeroom Lock Closer Kick Plate Floor Stop Set Self-Adhesive Seals
<u>HW 5B</u> Continuous Hinge Storeroom Lock Closer Armor Plate Edge Guard (@Wood Doors) Floor Stop Set Self-Adhesive Seals	<u>HW 5D</u> Hinges as required Storeroom Lock Kick Plate Floor Stop Wall Stop 3 Silencers
<u>HW 5E</u> Continuous Hinge Storeroom Lock Armor Plate Edge Guard Floor Stop Set Self-Adhesive Seals	<u>HW 5G</u> Hinges as required Storeroom Lock Kick Plate Floor Stop Threshold Auto Door Bottom 2 Set Self-Adhesive Seals
<u>HW 6C</u> Continuous Hinge Exit Device Key Cylinder Closer Kick Plate Edge Guard Floor Stop Threshold Auto Door Bottom 2 Sets Self-Adhesive Seals	<u>HW 7</u> Key Cylinder (for keyswitch)

<u>HW 8D</u> 2 Pivot Sets 2 Intermediate Transfer Pivots 2 Intermediate Pivots 2 Push/Pull Bar Sets 2 Overhead Stops	<u>HW 10A</u> 2 Continuous Hinges Set Auto Flush Bolts Classroom Lock Electric Unlatch Strike Power Supply Coordinator Overlapping Astragal with Self-Adhesive Seal 2 Armor Plates 2 Edge Guards 2 Floor Stops 1 Threshold 2 Auto Door Bottoms 2 Set Self-Adhesive Seals
<u>HW 10B</u> 2 Continuous Hinges Set Auto Flush Bolts Classroom Hospital Lock Overlapping Astragal with Self-Adhesive Seal Closers (@ Rated Doors) 2 Heavy-Duty Armor Plates 2 Edge Guards 2 Floor Stops	<u>HW 10C</u> 2 Continuous Hinges Set Auto Flush Bolts Utility Lock Overlapping Astragal with Self-Adhesive Seal 2 Kick Plates 2 Edge Guard (@Wood Doors) 2 Floor Stops Set Self-Adhesive Seals
<u>HW 10E</u> 2 Pivot Sets 2 Intermediate Pivots Set Auto Flush Bolts Classroom Lock Overlapping Astragal with Self-Adhesive Seal 2 Armor Plates 4 Edge Guards 2 Floor Stops Set Self-Adhesive Seals	<u>HW 11A</u> 2 Continuous Hinges Set Auto Flush Bolts Security Storeroom Lock Overlapping Astragal with Self-Adhesive Seal 2 Armor Plates 2 Edge Guards 2 Floor Stops Set Self-Adhesive Seals
<u>HW 11B</u> 2 Continuous Hinges Set Auto Flush Bolts Storeroom Lock Coordinator Overlapping Astragal with Self-Adhesive Seal 2 Closers 2 Armor Plates 2 Edge Guards 2 Floor Stops Set Self-Adhesive Seals	<u>HW 11C</u> Hinges as required Set Auto Flush Bolts Storeroom Lock Coordinator Overlapping Astragal with Self-Adhesive Seal 2 Closers 2 Kick Plates 2 Floor Stops Threshold 2 Auto Door Bottoms 2 Set Self-Adhesive Seals

<u>HW 12A</u> Steel Frame Integrated Door w/ Exit Device Continuous Transfer Hinge Power Supply Armor Plate Floor Stop Set Self-Adhesive Seals	<u>HW 12B</u> Key Cylinder Steel Frame Integrated Pair Doors w/ Elec Exit Device 2 Continuous Transfer Hinges Power Supply Self-Adhesive Astragal 2 Armor Plates 2 Floor Stops Set Self Adhesive Seals
<u>HW 12C</u> Steel Frame Integrated Pair Doors w/ Exit Devices 2 Continuous Hinges Overlapping Astragal with Self-Adhesive Seal 2 Closers 2 Magnetic Holders Set Self-Adhesive Seals	<u>HW 12D</u> Steel Frame Integrated Pair Doors w/ Elec Exit Devices 2 Continuous Transfer Hinges Power Supply Overlapping Astragal with Self-Adhesive Seal 2 Armor Plates 2 Floor Stops Set Self-Adhesive Seals
<u>HW 12G</u> 2 Continuous Hinges 2 Exit Devices Key Cylinder Set Meeting Stile Astragals 2 Closers 2 Kick Plates 2 Edge Guards 2 Floor Stops 2 Auto Door Bottoms 2 Sets Self-Adhesive Seals	<u>HW E4</u> Continuous Hinge Anti-Vandal Pull Exit Device Latch Protector (outswing door) Key Cylinder Closer Kick Plate Floor Stop Threshold Door Sweep Set Frame Seals Drip
<u>HW SH-2</u> Continuous Hinge Door Pull w/ Plate Lock Strike/ Keeper Overhead Stop Door Position Switch	<u>HW SH-3</u> Hinges as required Transfer Hinge Electrified Lock Power Supply Closer Floor Stop Threshold Auto Door Bottom 2 Sets Self-Adhesive Seals Alarm Contact
<u>HW SH-3B</u> Continuous Hinge Push-button Combination Lock Closer Kick Plate Mop Plate (@ Inswing Doors) Floor Stop Set Self-Adhesive Seals	<u>HW SH-3C</u> Continuous Hinge Push-button Combination Lock Closer Armor Plate Edge Guard (@Wood Doors) Floor Stop Set Self-Adhesive Seals

<u>HW SH-3D</u> Continuous Hinge Electrified Lock Power Supply Closer Armor Plate Edge Guard (@Wood Doors) Threshold Auto Door Bottom 2 Sets Self-Adhesive Seals Alarm Contact	<u>HW SH-3F</u> Continuous Transfer Hinge Electrified Lock Power Supply Closer Armor Plate Edge Guard (@Wood Doors) Floor Stop Set Self-Adhesive Seals Alarm Contact
<u>HW SH-10</u> Steel Frame Integrated Pair Doors w/ Elec Exit Devices 2 Continuous Transfer Hinges Power Supply Self-Adhesive Astragal 2 Closers 2 Armor Plates 2 Floor Stops Set Self-Adhesive Seals	<u>HW SH-10A</u> Key Cylinder Steel Frame Integrated Pair Doors w/ Elec. Exit Devices 2 Continuous Transfer Hinges Power Supply Self-Adhesive Astragal 2 Armor Plates 2 Floor Stops Set Self-Adhesive Seals