

SE5.AC
SINGLE DOOR, CARD IN, FREE EXIT, ELECTRIC PANIC WITH REX & LATCH RETRACTION, FAIL SECURE, PIEZO, SIREN

DOOR HARDWARE

#	QTY	Description	MANUFACTURE	MODEL #	CODE	NOTES
1	1	RIM PANIC WITH REX	VON DUPRIN	LD-35A-NL-OP	D	1, 2, 4, 6
2	1	LATCH RETRACTION KIT WITH REX, 24VDC, FAIL SECURE	COMMAND ACCESS	VLPKIT (36" OR 48")	D	1, 2, 4, 11
3	1	ELECTRIC HINGE, 4 WIRE, 630, CENTER TO CENTER TRANSFER, UL-F RATED	COMMAND ACCESS	ETH4WH545-FINISH-SHW	D	1, 2, 4, 6, 12
4	1	ELECTRIC HINGE, INTERMEDIATE PIVOT, 4 WIRE	COMMAND ACCESS	ETH4WHCATPIVOT-FINISH-HANDING	D	1, 2, 4, 6, 12

SECURITY EQUIPMENT

#	QTY	Description	MANUFACTURE	MODEL #	CODE	NOTES
1	AR	SURFACE MOUNT ACCESS CONTROL / SECURITY ENCLOSURE & PANEL	GAYLORD	10104HC1WT	A, E	8, 9
2	1	FLUSH MOUNT ACCESS CONTROL / SECURITY ENCLOSURE & PANEL	GAYLORD	10104TGFWT	A, E	8, 9
3	1	ACCESS CONTROL INTERFACE	UTC SECURITY	430150001	A, I	3
4	1	MULTI TECHNOLOGY MIRRORIMAGE READER	SCHLAGE	SXF-2100PIV	A, I	3
5	1	MULTI TECHNOLOGY MULLION READER	SCHLAGE	SXF-1100PIV	A, I	3
6	1	RELAY MODULE, DOUBLE POLE, DOUBLE THROW	ALTRONIX	RBS1	A, I	9
7	1	RELAY MODULE, SINGLE POLE, DOUBLE THROW	ALTRONIX	RB20	A, I	9
8	1	RELAY MODULE, DOUBLE POLE, DOUBLE THROW	ALTRONIX	RBSNTTL	A, I	9
9	1	RELAY MODULE SNAP TRAC	ALTRONIX	ST1	A, I	9
10	1	1" PUSH TO FIT CONTACT	GRI SECURITY	184-12WGG	A, I	5, 9
11	AR	SURFACE MOUNT CONTACT	GRI SECURITY	4400A	A, I	5, 9
12	AR	ROLL-UP CONTACT	GRI SECURITY	4532L	A, I	9
13	AR	RESISTOR PACK	GRI SECURITY	6644T	A, I	9
14	AR	TAMPER SWITCH	GRI SECURITY	TSW-01	A, I	9
15	1	PIEZO	ATW	PB-005	A, I	10
16	1	SIREN	HONEYWELL	748LC	A, I	
17	AR	4-40 X MALE / FEMALE X 1/2" X 1/4" HEX STAINLESS STEEL STANDOFF	OLANDER	4C50HM4S	A, I	
18	AR	4-40 X 1/4" BINDER HEAD SLOTTED SCREW STAINLESS STEEL	OLANDER	4C25SBMS	A, I	
19	AR	4-40 KEPT NUT STAINLESS STEEL	OLANDER	4CKNTS	A, I	
20	AR	6-32 X 1/2" STAINLESS STEEL	OLANDER	6C50SBMS	A, I	
21	AR	6-32 X 1/4" TORX PIN TAMPER	OLANDER	6C25BHS/T	A, I	
22	AR	8-32 X 3/8" TORX PIN TAMPER	OLANDER	8C37BHS/T	A, I	
23	AR	10-32 X 3/8" TORX PIN TAMPER	OLANDER	10F37BHS/T	A, I	
24	AR	10-32 X 1/2" TORX PIN TAMPER	OLANDER	10F50BHS/T	A, I	
25	AR	10-32 X 3/4" TORX PIN TAMPER	OLANDER	10F75BHS/T	A, I	
26	AR	1/4-20 X 1/2" TORX PIN TAMPER	OLANDER		A, I	
27	AR	6-32 X 1 1/2" SCREW PHILIPS STAINLESS	OLANDER		A, I	
28	AR	6-32 X 2" SCREW PHILIPS STAINLESS	OLANDER		A, I	
29	AR	6 X 1 1/2" SHEET METAL SCREW PHILIPS STAINLESS	OLANDER		A, I	
30	AR	6 X 2" SHEET METAL SCREW PHILIPS STAINLESS	OLANDER		A, I	
31	AR	8 X 1 1/2" SHEET METAL SCREW PHILIPS STAINLESS	OLANDER		A, I	
32	AR	8 X 2" SHEET METAL SCREW PHILIPS STAINLESS	OLANDER		A, I	
33	AR	CONCRETE ANCHOR & SCREW KIT FOR ROLL-UP CONTACTS ONLY	HILTI	00336483	B	
34	AR	3/16" X 1 1/4" CONCRETE ANCHOR/SCREW KIT FOR WALL MOUNTING	HILTI	03477615	B	
35	AR	1/4" X 1 1/4" CONCRETE ANCHOR/SCREW KIT FOR WALL MOUNTING	HILTI	03477607	B	
36	1	TERMINAL STRIP 18 POINT	MULTICOMP	MC24322	A	
37	1	INLINE FUSE ILLUMINATING HOLDER 16 AWG LEADS	COOPER BUSSMANN	ATC-FHID	A	
38	2	ATC FUSE 1 AMP	COOPER BUSSMANN	ATC-1	A	
39	AR	22-16 (RED) SPADE LUG #6	AMP	8-326861-1	A	
40	AR	16-14 (BLUE) SPADE LUG #6	AMP	8-326861-1	A	
41	AR	24-20 (NATURAL) BUTT SPLICE	AMP	323975	A	
42	AR	22-16 (RED) BUTT SPLICE	AMP	320559	A	
43	AR	16-14 (BLUE) BUTT SPLICE	AMP	320562	A	
44	AR	16-14 & 22-16 (BLUE & RED) BUTT SPLICE	AMP	327583	A	
45	AR	HOOK UP WIRE UL1007 / UL1569 300 VOLT RED	OMNI	L818ST-03	A	
46	AR	HOOK UP WIRE UL1007 / UL1569 300 VOLT BLACK	OMNI	L818ST-01	A	
47	AR	HOOK UP WIRE UL1007 / UL1569 300 VOLT WHITE	OMNI	L818ST-02	A	
48	AR	HOOK UP WIRE UL1007 / UL1569 300 VOLT GREEN	OMNI	L818ST-04	A	
49	AR	HOOK UP WIRE UL1007 / UL1569 300 VOLT YELLOW	OMNI	L818ST-06	A	
50	AR	HOOK UP WIRE UL1007 / UL1569 300 VOLT BLUE	OMNI	L818ST-05	A	
51	AR	HOOK UP WIRE UL1007 / UL1569 300 VOLT ORANGE	OMNI	L818ST-07	A	
52	AR	HOOK UP WIRE UL1007 / UL1569 300 VOLT BROWN	OMNI	L818ST-10	A	
53	AR	HOOK UP WIRE UL1007 / UL1569 300 VOLT VIOLET	OMNI	L818ST-09	A	
54	AR	HOOK UP WIRE UL1007 / UL1569 300 VOLT SLATE	OMNI	L818ST-08	A	
55	AR	DIODE, ROHS COMPLIANT, UL FLAMABILITY CLASSIFICATION RATING 94V-0		1N4004	C	
56	AR	SURFACE MOUNT 4-11 JUNCTION BOX	UL LISTED		C	3
57	AR	SURFACE MOUNT 4-SQUARE JUNCTION BOX	UL LISTED		C	3
58	AR	TWO SCREW CONNECTOR 1/2" STEEL-ELECTRO ZINC PLATED	Thomas & Betts	3302-TB	C	3
59	AR	CABLE CLAMP UV BLACK NYLON	IDEAL	IT250CCL-C0	A	

SECURITY EQUIPMENT NOTES

- IF USING OTHER MANUFACTURE FOR LOCKING HARDWARE, SUBMIT DOCUMENTATION TO SHOW FUNCTIONAL AND OPERATIONAL EQUIVALENCY.
- HARDWARE SUPPLIED THROUGH THE ARCHITECT'S SPECIFICATIONS.
- SECURITY CONTRACTOR TO SUPPLY AND INSTALL TAMPER SCREWS ON ALL CARD READERS, JUNCTION BOXES, AND TWO SCREW CONNECTORS.
- FOR RATED ASSEMBLIES, THE DOOR AND FRAME MUST BE FACTORY PREPARED FOR ALL ELECTRIC HARDWARE AND DEVICES.
- USE SURFACE MOUNT CONTACT WHEN IT'S NOT POSSIBLE TO INSTALL RECESSED CONTACT.
- ONLY USE ONE PART DEPENDING ON FIELD CONDITIONS. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.
- USE STAINLESS STEEL FINISH, 629 & 630, FOR ALL LABS AND EXTERIOR DOORS.
- INSTALL TAMPER SWITCH ON THE ACCESS CONTROL / SECURITY INTERFACE ENCLOSURE IF INSTALLED ON THE UNSECURED SIDE OF THE DOOR.
- ALL 200I INPUTS MUST HAVE END OF LINE RESISTOR PACKS.
- INSTALL THE PIEZO IN ONE OF THE 1/2" KOS ON THE 4-11 JUNCTION BOX. IF THE 4-11 JUNCTION BOX IS INSIDE THE WALL, THE PIEZO CAN BE INSTALLED ON THE ACCESS CONTROL INTERFACE BY DRILLING A 3/4" HOLE ON EITHER SIDE.
- WHEN ORDERING THE LATCH RETRACTION DOOR KIT, SPECIFY DOOR WIDTH, 36" OR 48".
- ONLY SELECT ONE PART DEPENDING ON FIELD CONDITIONS. REFER TO DOOR HARDWARE SPECIFICATION FOR ADDITIONAL INFORMATION.

CODE INDEX

- A) NO SUBSTITUTE
- B) OR APPROVED EQUAL
- C) OR EQUAL
- D) BY GENERAL CONTRACTOR
- E) BY OWNER
- F) EXISTING
- G) REFER TO DRAWING PACKAGE
- H) REFER TO SCOPE DEFINITION
- I) BY SECURITY CONTRACTOR
- J) REFER TO HARDWARE SCHEDULE

AC-2

SINGLE DOOR, CARD IN/FREE EXIT
 ELECTRIC PANIC w/LATCH RETRACTION & REX SWITCH
 LOCAL NOISE (SIREN & PIEZO), FAIL SECURE

EQUIPMENT LIST

SCALE: N.T.S.

LBNL ELECTRICAL STANDARDS
 SECURITY CARD ACCESS AC-2
 SINGLE DOOR, CARD IN/FREE EXIT ELECTRIC PANIC w/LATCH RETRACTION & REX SWITCH

UNIVERSITY OF CALIFORNIA LAWRENCE BERKELEY NATIONAL LABORATORY
 FACILITIES DIVISION

DRAWN BY	DATE
CHECKED BY	
APPROVED BY	
CAD FILE PATH	
SCALE	N.T.S.
DRAWING NO.	SHEET
SEC111A	AC-2
PROJECT NO.	