

SYMBOL	DEVICE	MFR & CAT#	REMARKS	SIGNAL LISTING
DPM	DISTRIBUTED POWER MODULE	NOTIFIER ACS-610	SURFACE MOUNT IN PORTABLE	7315-0028-248
MM	MONITOR MODULE	NOTIFIER FMM-101	INSTALL IN MAIN FIRE ALARM PANEL	7300-0028-202
SD	SMOKE DETECTOR	NOTIFIER FSP-481	PROVIDE BASE B110 LP ON 4" SQ DEEP BOX	7272-0028-208
HD	HEAT DETECTOR (IN ATTIC SPACE)	NOTIFIER FST-481	PROVIDE 4" SQ DEEP BOX	7270-0028-198
AM	SPEAKER STROBE	NOTIFIER	PROVIDE 4" SQ DEEP BOX	7230-1653-201
EX	EXTERIOR SPEAKER	NOTIFIER SPRK	PROVIDE AWBB BACKBOX	7230-1653-201
B	EXISTING BELL			
F	EXISTING PULL STATION			
H	EXISTING HORN			

CONTRACTOR SHALL TEST SYSTEM AND ENSURE ALL EXISTING HORNS, PULL STATIONS AND BELLS ARE OPERATIONAL.

EQUIPMENT DESCRIPTION	QUANTITY	SUPERVISORY CURRENT (AMPERES)	ALARM CURRENT (AMPERES)
DISTRIBUTED POWER MODULE	EXISTING: 0 NEW: 1	EACH 0.025 SUB-TOTAL 0.025	EACH 0.025 SUB-TOTAL 0.025
SPEAKER/STROBE	15 cd 75 cd	0.066 0.158	0.264 0.33
SPEAKER/STROBE	75 cd	0.158	0.158
SUB TOTAL AMPERE-HOURS		0.205 AMPS x 24 HOURS	1.461 AMPS x 24 HOURS
TOTAL REQUIRED AMPERE-HOURS FOR DISTRIBUTED POWER MODULE		0.6 A.H.	1.461 AMPS x 24 HOURS
BATTERY NON-LINEAR DISCHARGE CHARACTERISTIC FACTOR			0.722724 A.H.
TOTAL MINIMUM AMPERE HOURS REQUIRED			0.862269 A.H.
PROVIDED BATTERY CAPACITY			7.00 A.H.

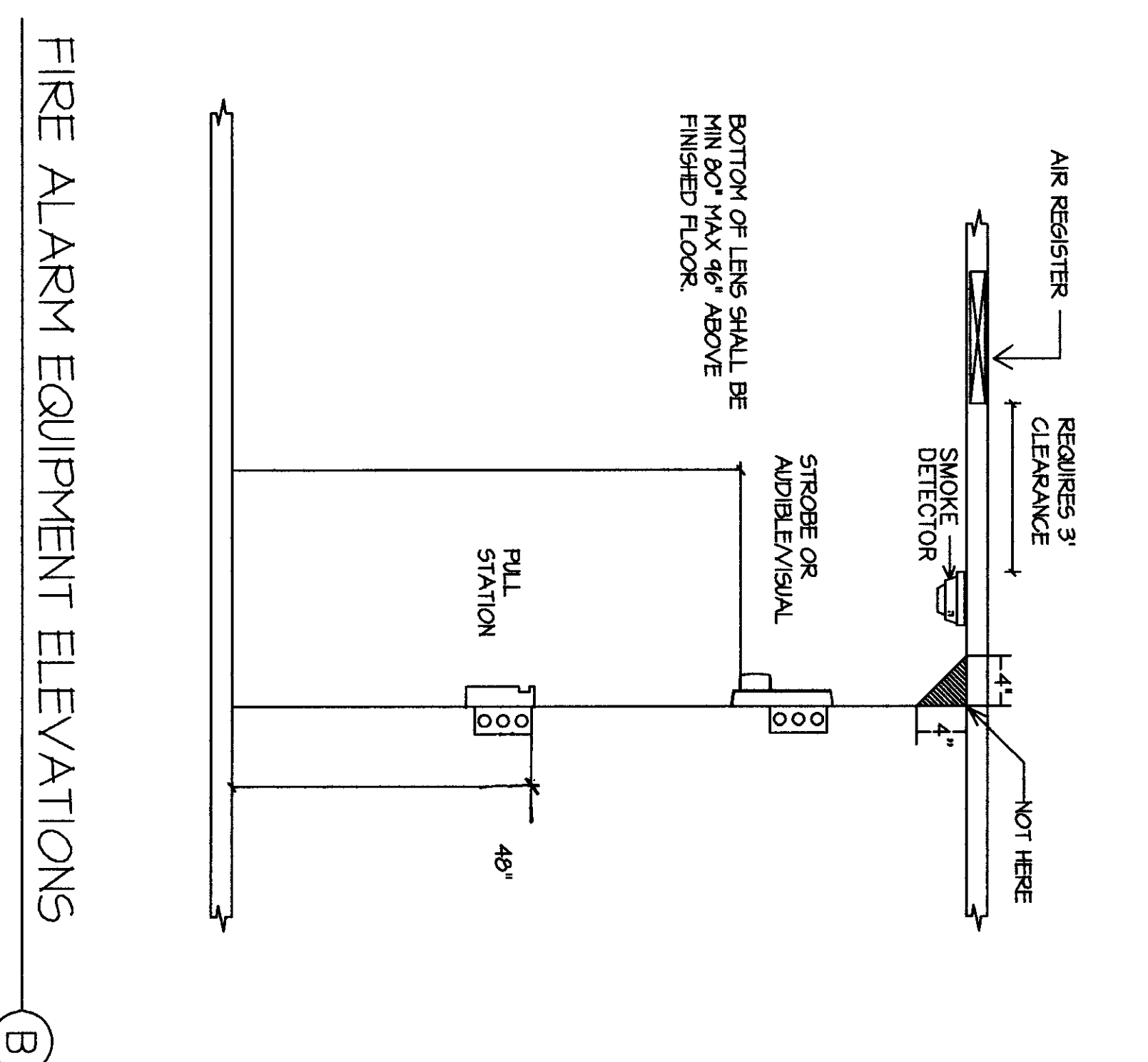
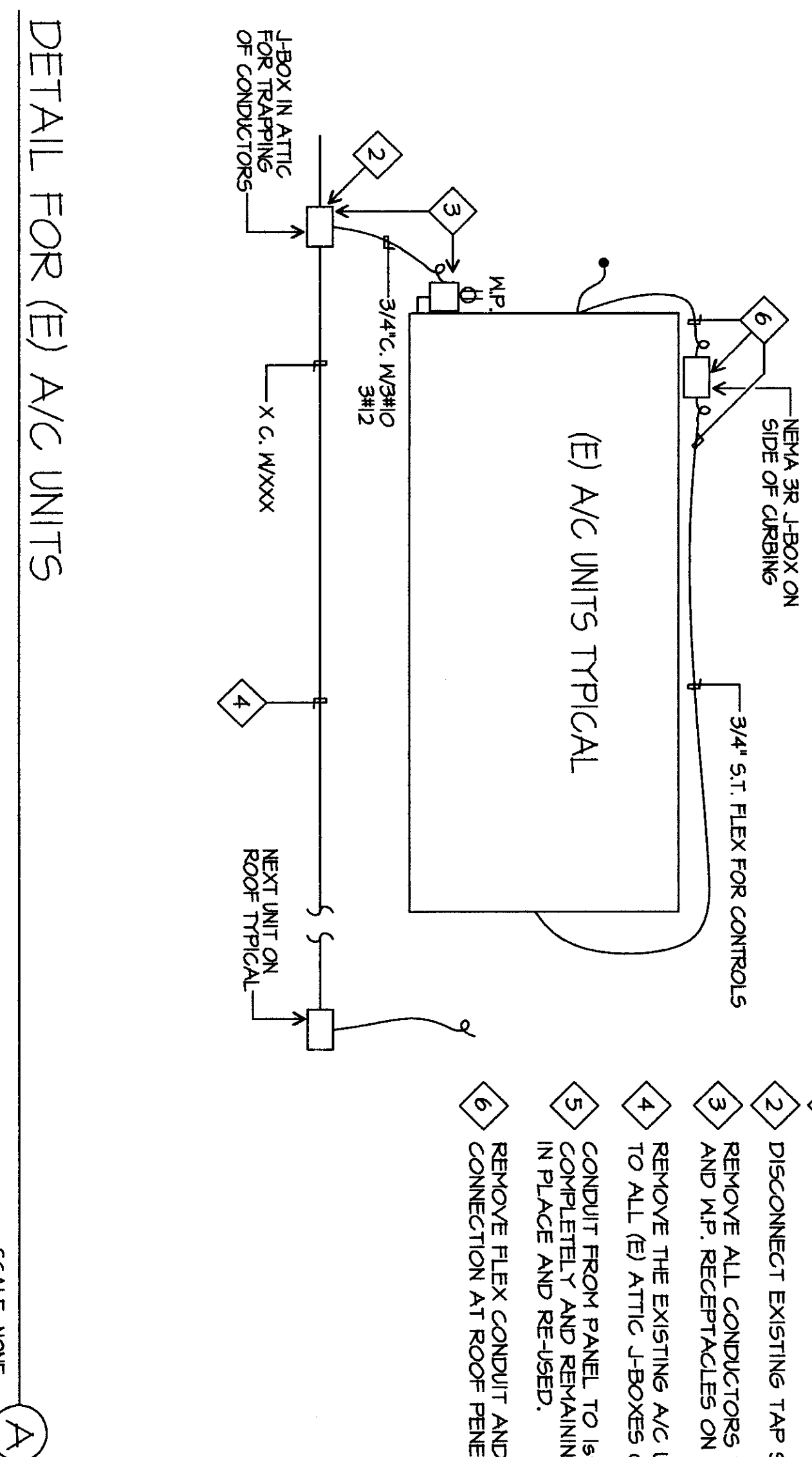
EQUIPMENT DESCRIPTION	QUANTITY	SUPERVISORY CURRENT (AMPERES)	ALARM CURRENT (AMPERES)
DISTRIBUTED POWER MODULE	EXISTING: 0 NEW: 1	EACH 0.025 SUB-TOTAL 0.025	EACH 0.025 SUB-TOTAL 0.025
SPEAKER/STROBE	15 cd 75 cd	0.066 0.158	0.264 0.33
SPEAKER/STROBE	75 cd	0.158	0.158
SUB TOTAL AMPERE-HOURS		0.205 AMPS x 24 HOURS	1.505 AMPS x 24 HOURS
TOTAL REQUIRED AMPERE-HOURS FOR DISTRIBUTED POWER MODULE		0.6 A.H.	1.505 AMPS x 24 HOURS
BATTERY NON-LINEAR DISCHARGE CHARACTERISTIC FACTOR			0.125642 A.H.
TOTAL MINIMUM AMPERE HOURS REQUIRED			0.72642 A.H.
PROVIDED BATTERY CAPACITY			0.871704 A.H.

EQUIPMENT DESCRIPTION	QUANTITY	SUPERVISORY CURRENT (AMPERES)	ALARM CURRENT (AMPERES)
DISTRIBUTED POWER MODULE	EXISTING: 0 NEW: 1	EACH 0.025 SUB-TOTAL 0.025	EACH 0.025 SUB-TOTAL 0.025
SPEAKER/STROBE	15 cd 75 cd	0.066 0.158	0.264 0.33
SPEAKER/STROBE	75 cd	0.158	0.158
SUB TOTAL AMPERE-HOURS		0.205 AMPS x 24 HOURS	0.447 AMPS x 0.084 HOURS
TOTAL REQUIRED AMPERE-HOURS FOR DISTRIBUTED POWER MODULE		0.6 A.H.	0.637548 A.H.
BATTERY NON-LINEAR DISCHARGE CHARACTERISTIC FACTOR			0.637548 x 1.2
TOTAL MINIMUM AMPERE HOURS REQUIRED			0.765058 A.H.
PROVIDED BATTERY CAPACITY			7.00 A.H.

EQUIPMENT DESCRIPTION	QUANTITY	SUPERVISORY CURRENT (AMPERES)	ALARM CURRENT (AMPERES)
MASTER PANEL	1	0.23	0.23
RENOVATE ANNUNCIATOR PANEL	1	0	0.4
SPEAKER/STROBE	15 cd 75 cd	0.066 0.158	0.4 0.792
SPEAKER/STROBE	75 cd	0.158	0.158
SPEAKER/STROBE	110 cd	0.202	2.054
UDACT 411	1	0.04	0.1
DVC	1	0.44	0.44
FMM-101 MODULE	2	0.0038	0.0076
SMOKE DETECTOR	25	0.0036	0.0312
HEAT DETECTOR	40	0.0003	0.0192
PULL STATION	1	0.000375	0.00225
SUB TOTAL AMPERE-HOURS		1.14322 AMPS x 24 HOURS	4.0179 AMPS x 0.084 HOURS
TOTAL REQUIRED AMPERE HOURS FOR DISTRIBUTED POWER MODULE		22.43728 A.H.	0.337504 A.H.
BATTERY NON-LINEAR DISCHARGE CHARACTERISTIC FACTOR			36.00 A.H.
TOTAL MINIMUM AMPERE HOURS REQUIRED			36.00 A.H.

RESPONSE	ALARM AND TROUBLE	ALARM AND TROUBLE	ALARM AND TROUBLE	ALARM AND TROUBLE	ALARM AND TROUBLE
ANNUNCIATE AT FIRE CONTROL ROOM	YES	YES	YES	YES	YES
ANNUNCIATE AT 24 HOUR ATTEND LOCATION	YES	YES	YES	YES	YES
ACTIVATE AUDIO VISUAL THROUGHOUT FLOOR OF ALARM	YES	YES	YES	YES	YES
CENTRAL STATION MONITORING	YES	YES	YES	YES	YES

CIRCUIT	LENGTH x AMPS x RESISTANCE x = VOLTS	VOLTAGE DROP
BN1	2x 205 0.914 0.00205	0.768 3.20 %
BN2	2x 170 0.672 0.00205	0.468 1.95 %
BN3	2x 280 0.698 0.00205	0.801 3.34 %
KN1	2x 80 0.422 0.00205	0.138 0.58 %
G1	2x 350 1.48 0.00205	2.124 8.85 %
BN4	2x 300 0.764 0.00205	0.940 3.92 %
FN1	2x 200 0.83 0.00205	0.681 2.84 %
FN2	2x 310 0.606 0.00205	0.770 3.21 %



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APPROVED:
DIR. OF THE STATE ARCHITECT
APPROX 11/28/17
AC 11/28/17
DATE 11/28/17

DESIGNED BY: AC

CHECKED BY: PH

DATE: 1-14-2009

PROJECT: MODERNIZATION PROJECT AT EVERGREEN ELEMENTARY SCHOOL
2600 ROSE MARIE DRIVE
BAKERSFIELD, CA 93304

CLIENT: BAKERSFIELD CITY SCHOOL DISTRICT

SCALE: SCALE NONE

FIGURE: E-04