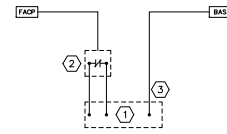
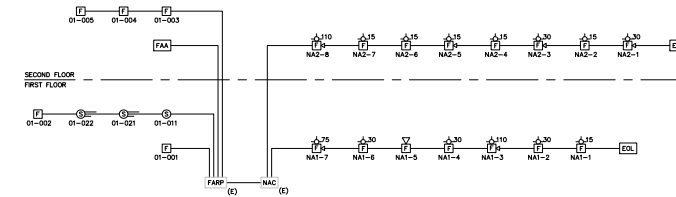


NOTES THIS DETAIL

- ① AIR HANDLER CONTROL UNIT WITH FAN SHUT DOWN JUMPER CONNECTION.
- ② FIRE ALARM ADDRESSABLE RELAY. PROGRAM TO STOP FAN UPON ACTIVATION OF SMOKE DETECTION SYSTEM. RELAY MAY BE INTEGRAL TO DUCT SMOKE DETECTOR.
- ③ BUILDING AUTOMATION SYSTEM CONTROL CONNECTION.



**HVAC FAN SHUT DOWN SCHEMATIC:
ADDRESSABLE FA SYSTEM WITH BAS**
NO SCALE



1 FIRE ALARM RISER DIAGRAM
NO SCALE

**NOTIFICATION CIRCUIT - NA1
VOLTAGE DROP CALCULATIONS**

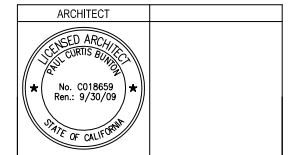
BASED ON POINT-TO-POINT OHM CALCULATIONS. ACCEPTABLE LIMIT IS ± 5% ± 54 MA/MS

CHAS - 84 FEET 107/200 448 FEET 104/200 + 88 FEET 125/200 ± 2

TYPE #	TO	LINEAR FEET	RESISTANCE	LOAD	VOLTAGE	ACCUAL
1	2	IN	OHMS	AMPS	DROP	DROP %
10 AV 80ed	10 AV 78ed	0.074	0.107	0.184		
10 AV 80ed	10 VO 80ed	0.244	0.060	0.092		
7) VO 78ed	10 AV 80ed	0.165	0.220	0.350		
10 AV 80ed	10 VO 80ed	0.477	0.300	0.044		

DEVICE	TO	LINEAR FEET	RESISTANCE	LOAD	VOLTAGE	ACCUAL
TYPE #	1	2	IN	OHMS	AMPS	DROP %
5	1	2	25	0.154	0.060	0.009
6	2	3	25	0.154	0.152	0.023
4	3	4	30	0.184	0.396	0.073
6	4	5	35	0.215	0.488	0.105
12	5	6	50	0.307	0.532	0.163
6	6	7	25	0.154	0.624	0.096
3	7	NAC	30	0.184	0.808	0.149

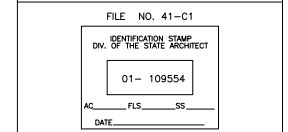
Percent Loss 2.58%



- GENERAL NOTES**
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REVISION HISTORY	REMARKS	DATE

DRAWING STATUS	DATE
● DSA PLAN CHECK	06/27/08
● DSA BACK CHECK	06/04/08
○ BECOMING	06/28/08
○ CONSTRUCTION	



**BUILDING 8
PHASE 2
RENOVATION PROJECT**

San Mateo County Community
College District

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

**FIRE ALARM RISER
DIAGRAM AND
CALCULATIONS**

SIEMENS

MODULE	QUANTITY	STANDBY 24VDC MODULE CURRENT	DEVICE CURRENT	LOAD CURRENT PER CIRCUIT	TOTAL STANDBY 24VDC
PSR-1	1	0.070			0.070
MKB-2	1	0.005			0.005
RCC-1/1F	1	0.075			0.075
CSM-4	1	0.010	0.024		0.034
ALD-2I	1	0.105		0.240	0.345
NET-7/7M	1	0.030			0.030
TOTAL SUPERVISORY CURRENT					0.559
TOTAL A X 24					13.416
BATTERY SIZE WITH ALARM RESERVE					17.441