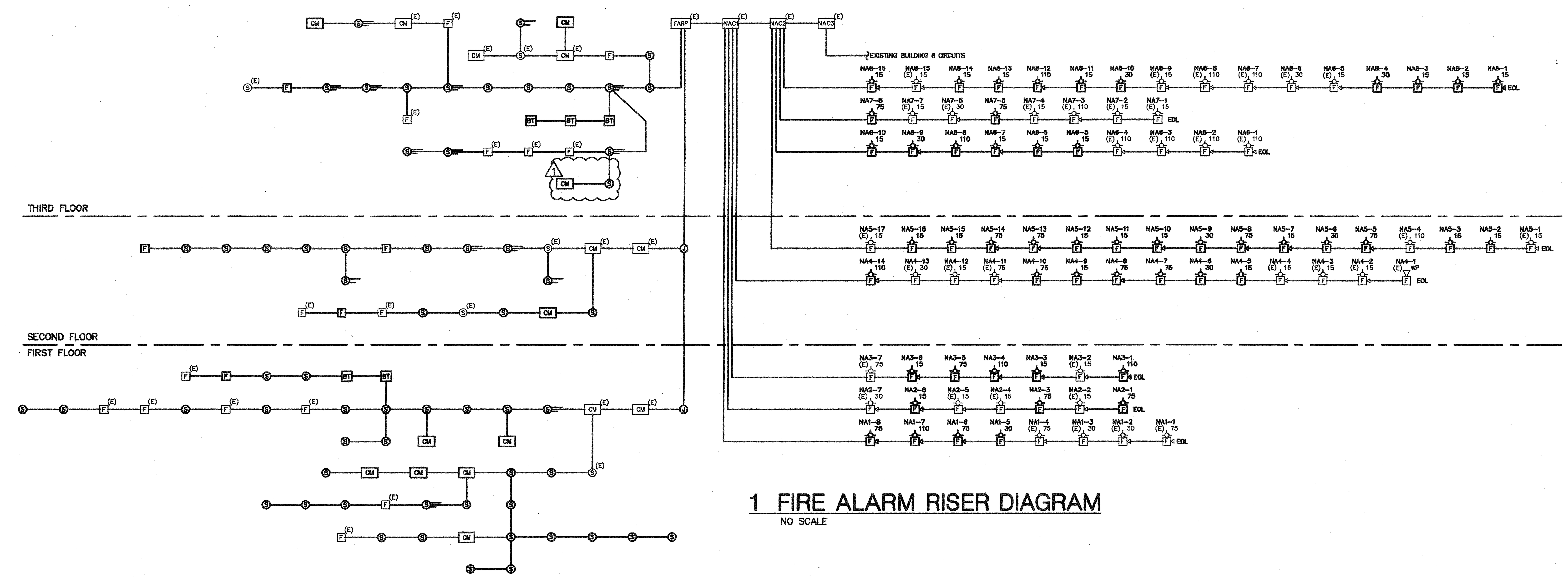



# 1 FIRE ALARM RISER DIAGRAM

NO SCALE

## NOTIFICATION CIRCUIT - NA8
### VOLTAGE DROP CALCULATIONS

BASED ON POINT-TO-POINT OHM'S CALCULATIONS. ACCEPTABLE LIMIT: 10% x 24V = 2.4 (MAX)

OHMS = (#14 FEET* 3.07/1000 +#12 FEET* 1.93/1000 + #10 FEET* 1.21/1000) * 2

| | | | | | |
|---|---|---|---|---|---|
| 1) A/V 15cd | 0.074 | 2) A/V 30cd | 0.107 | 3) A/V 75cd | 0.184 |
| 4) A/V 110cd | 0.244 | 5) V/O 15cd | 0.060 | 6) V/O 30cd | 0.092 |
| 7) V/O 75cd | 0.165 | 8) V/O 110cd | 0.220 | 9) | 0.000 |
| 10) | 0.000 | 11) V/O 135cd | 0.300 | 12) V/O 185cd | 0.420 |

| DEVICE TYPE # | DEVICE # | TO DEVICE # | LINEAR FEET BETWEEN DEVICES #14 | #12 | #10 | RESISTANCE OF WIRES (OHMS) | LOAD ON RUN (AMPS) | VOLTAGE DROP (VOLTS) | ACCUM. VOLTAGE DROP (V) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 2 | | 10 | | 0.039 | 0.074 | 0.003 | 0.003 |
| 5 | 2 | 3 | | 20 | | 0.077 | 0.134 | 0.010 | 0.013 |
| 5 | 3 | 4 | | 30 | | 0.116 | 0.194 | 0.022 | 0.036 |
| 6 | 4 | 5 | | 40 | | 0.154 | 0.286 | 0.044 | 0.080 |
| 1 | 5 | 6 | | 45 | | 0.174 | 0.360 | 0.063 | 0.142 |
| 2 | 6 | 7 | | 55 | | 0.212 | 0.467 | 0.099 | 0.242 |
| 4 | 7 | 8 | | 45 | | 0.174 | 0.711 | 0.124 | 0.365 |
| 4 | 8 | 9 | | 25 | | 0.097 | 0.955 | 0.092 | 0.457 |
| 1 | 9 | 10 | | 30 | | 0.116 | 1.029 | 0.119 | 0.576 |
| 6 | 10 | 11 | | 30 | | 0.116 | 1.121 | 0.130 | 0.706 |
| 5 | 11 | 12 | | 25 | | 0.097 | 1.181 | 0.114 | 0.820 |
| 4 | 12 | 13 | | 35 | | 0.135 | 1.425 | 0.193 | 1.013 |
| 5 | 13 | 14 | | 25 | | 0.097 | 1.485 | 0.143 | 1.156 |
| 5 | 14 | 15 | | 25 | | 0.097 | 1.545 | 0.149 | 1.305 |
| 1 | 15 | 16 | | 15 | | 0.058 | 1.619 | 0.094 | 1.399 |
| 1 | 16 | 17 | | 75 | | 0.290 | 1.693 | 0.490 | 1.889 |

Percent Loss 7.87%

## SIEMENS

| MODULE | QUANTITIY | STANDBY 24VDC MODULE CURRENT | LOAD CURRENT PER CIRCUIT: EOL DEVICE | DEVICE CURRENT | 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 |

## PS-24-8MC BATTERY CLACULATION SHEET

STANDBY BATTERY CALCULATION

| | STANDBY | ALARM |
|---|---|---|
| PS-24-8MC | 0.080 | 0.240 |
| NAC CURRENT | | 8.000 |
| STANDBY AH = STANDBY A X 24 = | 1.920 | |
| ALARM AH = ALARM A X 0.0833H = | | 0.686 |
| TOTAL AH = ALARM AH + STANDBY AH = | | 2.606 |
| BACKUP BATTERY = TOTAL AH X 1.1 = | | 2.867 |

## NOTIFICATION CIRCUIT - NA5
### VOLTAGE DROP CALCULATIONS

BASED ON POINT-TO-POINT OHM'S CALCULATIONS. ACCEPTABLE LIMIT: 10% x 24V = 2.4 (MAX)

OHMS = (#14 FEET* 3.07/1000 +#12 FEET* 1.93/1000 + #10 FEET* 1.21/1000) * 2

| | | | | | |
|---|---|---|---|---|---|
| 1) A/V 15cd | 0.074 | 2) A/V 30cd | 0.107 | 3) A/V 75cd | 0.184 |
| 4) A/V 110cd | 0.244 | 5) V/O 15cd | 0.060 | 6) V/O 30cd | 0.092 |
| 7) V/O 75cd | 0.165 | 8) V/O 110cd | 0.220 | 9) | 0.000 |
| 10) | 0.000 | 11) V/O 135cd | 0.300 | 12) V/O 185cd | 0.420 |

| DEVICE TYPE # | DEVICE # | TO DEVICE # | LINEAR FEET BETWEEN DEVICES #14 | #12 | #10 | RESISTANCE OF WIRES (OHMS) | LOAD ON RUN (AMPS) | VOLTAGE DROP (VOLTS) | ACCUM. VOLTAGE DROP (V) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 2 | | 25 | | 0.097 | 0.074 | 0.007 | 0.007 |
| 5 | 2 | 3 | | 25 | | 0.097 | 0.134 | 0.013 | 0.020 |
| 5 | 3 | 4 | | 25 | | 0.097 | 0.194 | 0.019 | 0.039 |
| 8 | 4 | 5 | | 35 | | 0.135 | 0.414 | 0.056 | 0.095 |
| 3 | 5 | 6 | | 20 | | 0.077 | 0.598 | 0.046 | 0.141 |
| 6 | 6 | 7 | | 20 | | 0.077 | 0.690 | 0.053 | 0.194 |
| 1 | 7 | 8 | | 20 | | 0.077 | 0.764 | 0.059 | 0.253 |
| 3 | 8 | 9 | | 20 | | 0.077 | 0.948 | 0.073 | 0.326 |
| 6 | 9 | 10 | | 20 | | 0.077 | 1.040 | 0.080 | 0.407 |
| 1 | 10 | 11 | | 20 | | 0.077 | 1.114 | 0.086 | 0.493 |
| 5 | 11 | 12 | | 30 | | 0.116 | 1.174 | 0.136 | 0.629 |
| 5 | 12 | 13 | | 20 | | 0.077 | 1.234 | 0.095 | 0.724 |
| 3 | 13 | 14 | | 20 | | 0.077 | 1.418 | 0.109 | 0.833 |
| 3 | 14 | 15 | | 10 | | 0.039 | 1.602 | 0.062 | 0.895 |
| 5 | 15 | 16 | | 20 | | 0.077 | 1.662 | 0.128 | 1.023 |
| 5 | 16 | 17 | | 20 | | 0.077 | 1.722 | 0.133 | 1.156 |
| 5 | 17 | NAC | | 160 | | 0.618 | 1.782 | 1.101 | 2.257 |

Percent Loss 9.40%

## NOTIFICATION CIRCUIT - NA6
### VOLTAGE DROP CALCULATIONS

BASED ON POINT-TO-POINT OHM'S CALCULATIONS. ACCEPTABLE LIMIT: 10% x 24V = 2.4 (MAX)

OHMS = (#14 FEET* 3.07/1000 +#12 FEET* 1.93/1000 + #10 FEET* 1.21/1000) * 2

| | | | | | |
|---|---|---|---|---|---|
| 1) A/V 15cd | 0.074 | 2) A/V 30cd | 0.107 | 3) A/V 75cd | 0.184 |
| 4) A/V 110cd | 0.244 | 5) V/O 15cd | 0.060 | 6) V/O 30cd | 0.092 |
| 7) V/O 75cd | 0.165 | 8) V/O 110cd | 0.220 | 9) | 0.000 |
| 10) | 0.000 | 11) V/O 135cd | 0.300 | 12) V/O 185cd | 0.420 |

| DEVICE TYPE # | DEVICE # | TO DEVICE # | LINEAR FEET BETWEEN DEVICES #14 | #12 | #10 | RESISTANCE OF WIRES (OHMS) | LOAD ON RUN (AMPS) | VOLTAGE DROP (VOLTS) | ACCUM. VOLTAGE DROP (V) |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 1 | 2 | | 25 | | 0.097 | 0.244 | 0.024 | 0.024 |
| 4 | 2 | 3 | | 55 | | 0.212 | 0.488 | 0.104 | 0.127 |
| 4 | 3 | 4 | | 65 | | 0.251 | 0.732 | 0.184 | 0.311 |
| 4 | 4 | 5 | | 30 | | 0.116 | 0.976 | 0.113 | 0.424 |
| 5 | 5 | 6 | | 15 | | 0.058 | 1.036 | 0.060 | 0.484 |
| 5 | 6 | 7 | | 20 | | 0.077 | 1.096 | 0.085 | 0.568 |
| 1 | 7 | 8 | | 20 | | 0.077 | 1.170 | 0.090 | 0.659 |
| 8 | 8 | 9 | | 20 | | 0.077 | 1.390 | 0.107 | 0.766 |
| 2 | 9 | 10 | | 15 | | 0.058 | 1.497 | 0.087 | 0.853 |
| 5 | 10 | 11 | | 185 | | 0.714 | 1.557 | 1.112 | 1.965 |

Percent Loss 8.19%

## NOTIFICATION CIRCUIT - NA7
### VOLTAGE DROP CALCULATIONS

BASED ON POINT-TO-POINT OHM'S CALCULATIONS. ACCEPTABLE LIMIT: 10% x 24V = 2.4 (MAX)

OHMS = (#14 FEET* 3.07/1000 +#12 FEET* 1.93/1000 + #10 FEET* 1.21/1000) * 2

| | | | | | |
|---|---|---|---|---|---|
| 1) A/V 15cd | 0.074 | 2) A/V 30cd | 0.107 | 3) A/V 75cd | 0.184 |
| 4) A/V 110cd | 0.244 | 5) V/O 15cd | 0.060 | 6) V/O 30cd | 0.092 |
| 7) V/O 75cd | 0.165 | 8) V/O 110cd | 0.220 | 9) | 0.000 |
| 10) | 0.000 | 11) V/O 135cd | 0.300 | 12) V/O 185cd | 0.420 |

| DEVICE TYPE # | DEVICE # | TO DEVICE # | LINEAR FEET BETWEEN DEVICES #14 | #12 | #10 | RESISTANCE OF WIRES (OHMS) | LOAD ON RUN (AMPS) | VOLTAGE DROP (VOLTS) | ACCUM. VOLTAGE DROP (V) |
|---|---|---|---|---|---|---|---|---|---|
| 5 | 1 | 2 | | 50 | | 0.193 | 0.060 | 0.012 | 0.012 |
| 5 | 2 | 3 | | 60 | | 0.232 | 0.120 | 0.028 | 0.039 |
| 4 | 3 | 4 | | 65 | | 0.251 | 0.364 | 0.091 | 0.131 |
| 5 | 4 | 5 | | 20 | | 0.077 | 0.424 | 0.033 | 0.163 |
| 7 | 5 | 6 | | 30 | | 0.116 | 0.589 | 0.068 | 0.232 |
| 2 | 6 | 7 | | 20 | | 0.077 | 0.696 | 0.054 | 0.285 |
| 5 | 7 | 8 | | 20 | | 0.077 | 0.756 | 0.058 | 0.344 |
| 7 | 8 | NAC | | 20 | | 0.077 | 0.921 | 0.071 | 0.415 |

Percent Loss 1.73%

## NOTIFICATION CIRCUIT - NA1
### VOLTAGE DROP CALCULATIONS

BASED ON POINT-TO-POINT OHM'S CALCULATIONS. ACCEPTABLE LIMIT: 10% x 24V = 2.4 (MAX)

OHMS = (#14 FEET* 3.07/1000 +#12 FEET* 1.93/1000 + #10 FEET* 1.21/1000) * 2

| | | | | | |
|---|---|---|---|---|---|
| 1) A/V 15cd | 0.074 | 2) A/V 30cd | 0.107 | 3) A/V 75cd | 0.184 |
| 4) A/V 110cd | 0.244 | 5) V/O 15cd | 0.060 | 6) V/O 30cd | 0.092 |
| 7) V/O 75cd | 0.165 | 8) V/O 110cd | 0.220 | 9) | 0.000 |
| 10) | 0.000 | 11) V/O 135cd | 0.300 | 12) V/O 185cd | 0.420 |

| DEVICE TYPE # | DEVICE # | TO DEVICE # | LINEAR FEET BETWEEN DEVICES #14 | #12 | #10 | RESISTANCE OF WIRES (OHMS) | LOAD ON RUN (AMPS) | VOLTAGE DROP (VOLTS) | ACCUM. VOLTAGE DROP (V) |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 1 | 2 | | 35 | | 0.135 | 0.184 | 0.025 | 0.025 |
| 2 | 2 | 3 | | 45 | | 0.174 | 0.291 | 0.051 | 0.075 |
| 6 | 3 | 4 | | 50 | | 0.193 | 0.383 | 0.074 | 0.149 |
| 3 | 4 | 5 | | 30 | | 0.116 | 0.567 | 0.066 | 0.215 |
| 6 | 5 | 6 | | 15 | | 0.058 | 0.659 | 0.038 | 0.253 |
| 3 | 6 | 7 | | 50 | | 0.193 | 0.843 | 0.163 | 0.416 |
| 4 | 7 | 8 | | 35 | | 0.135 | 1.087 | 0.147 | 0.563 |
| 3 | 8 | NAC | | 290 | | 1.119 | 1.271 | 1.423 | 1.985 |

Percent Loss 8.27%

## NOTIFICATION CIRCUIT - NA2
### VOLTAGE DROP CALCULATIONS

BASED ON POINT-TO-POINT OHM'S CALCULATIONS. ACCEPTABLE LIMIT: 10% x 24V = 2.4 (MAX)

OHMS = (#14 FEET* 3.07/1000 +#12 FEET* 1.93/1000 + #10 FEET* 1.21/1000) * 2

| | | | | | |
|---|---|---|---|---|---|
| 1) A/V 15cd | 0.074 | 2) A/V 30cd | 0.107 | 3) A/V 75cd | 0.184 |
| 4) A/V 110cd | 0.244 | 5) V/O 15cd | 0.060 | 6) V/O 30cd | 0.092 |
| 7) V/O 75cd | 0.165 | 8) V/O 110cd | 0.220 | 9) | 0.000 |
| 10) | 0.000 | 11) V/O 135cd | 0.300 | 12) V/O 185cd | 0.420 |

| DEVICE TYPE # | DEVICE # | TO DEVICE # | LINEAR FEET BETWEEN DEVICES #14 | #12 | #10 | RESISTANCE OF WIRES (OHMS) | LOAD ON RUN (AMPS) | VOLTAGE DROP (VOLTS) | ACCUM. VOLTAGE DROP (V) |
|---|---|---|---|---|---|---|---|---|---|
| 7 | 1 | 2 | | 35 | | 0.135 | 0.165 | 0.022 | 0.022 |
| 1 | 2 | 3 | | 30 | | 0.116 | 0.239 | 0.028 | 0.050 |
| 7 | 3 | 4 | | 35 | | 0.135 | 0.404 | 0.055 | 0.105 |
| 5 | 4 | 5 | | 75 | | 0.290 | 0.464 | 0.134 | 0.239 |
| 1 | 5 | 6 | | 25 | | 0.097 | 0.538 | 0.052 | 0.291 |
| 1 | 6 | 7 | | 20 | | 0.077 | 0.612 | 0.047 | 0.338 |
| 2 | 7 | NAC | | 260 | | 1.004 | 0.719 | 0.722 | 1.060 |

Percent Loss 4.42%

## NOTIFICATION CIRCUIT - NA3
### VOLTAGE DROP CALCULATIONS

BASED ON POINT-TO-POINT OHM'S CALCULATIONS. ACCEPTABLE LIMIT: 10% x 24V = 2.4 (MAX)

OHMS = (#14 FEET* 3.07/1000 +#12 FEET* 1.93/1000 + #10 FEET* 1.21/1000) * 2

| | | | | | |
|---|---|---|---|---|---|
| 1) A/V 15cd | 0.074 | 2) A/V 30cd | 0.107 | 3) A/V 75cd | 0.184 |
| 4) A/V 110cd | 0.244 | 5) V/O 15cd | 0.060 | 6) V/O 30cd | 0.092 |
| 7) V/O 75cd | 0.165 | 8) V/O 110cd | 0.220 | 9) | 0.000 |
| 10) | 0.000 | 11) V/O 135cd | 0.300 | 12) V/O 185cd | 0.420 |

| DEVICE TYPE # | DEVICE # | TO DEVICE # | LINEAR FEET BETWEEN DEVICES #14 | #12 | #10 | RESISTANCE OF WIRES (OHMS) | LOAD ON RUN (AMPS) | VOLTAGE DROP (VOLTS) | ACCUM. VOLTAGE DROP (V) |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 1 | 2 | | 40 | | 0.154 | 0.244 | 0.038 | 0.038 |
| 1 | 2 | 3 | | 30 | | 0.116 | 0.318 | 0.037 | 0.074 |
| 1 | 3 | 4 | | 20 | | 0.077 | 0.392 | 0.030 | 0.105 |
| 4 | 4 | 5 | | 20 | | 0.077 | 0.636 | 0.049 | 0.154 |
| 3 | 5 | 6 | | 30 | | 0.116 | 0.820 | 0.095 | 0.249 |
| 1 | 6 | 7 | | 40 | | 0.154 | 0.894 | 0.138 | 0.387 |
| 7 | 7 | NAC | | 260 | | 1.004 | 1.059 | 1.063 | 1.450 |

Percent Loss 6.04%

## NOTIFICATION CIRCUIT - NA4
### VOLTAGE DROP CALCULATIONS

BASED ON POINT-TO-POINT OHM'S CALCULATIONS. ACCEPTABLE LIMIT: 10% x 24V = 2.4 (MAX)

OHMS = (#14 FEET* 3.07/1000 +#12 FEET* 1.93/1000 + #10 FEET* 1.21/1000) * 2

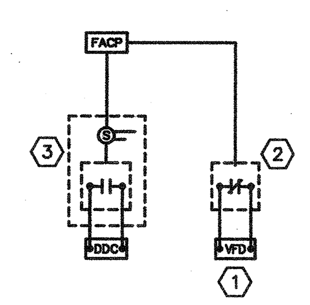
| | | | | | |
|---|---|---|---|---|---|
| 1) A/V 15cd | 0.074 | 2) A/V 30cd | 0.107 | 3) A/V 75cd | 0.184 |
| 4) A/V 110cd | 0.244 | 5) V/O 15cd | 0.060 | 6) V/O 30cd | 0.092 |
| 7) V/O 75cd | 0.165 | 8) V/O 110cd | 0.220 | 9) A/O | 0.044 |
| 10) | 0.000 | 11) V/O 135cd | 0.300 | 12) V/O 185cd | 0.420 |

| DEVICE TYPE # | DEVICE # | TO DEVICE # | LINEAR FEET BETWEEN DEVICES #14 | #12 | #10 | RESISTANCE OF WIRES (OHMS) | LOAD ON RUN (AMPS) | VOLTAGE DROP (VOLTS) | ACCUM. VOLTAGE DROP (V) |
|---|---|---|---|---|---|---|---|---|---|
| 9 | 1 | 2 | | 40 | | 0.154 | 0.044 | 0.007 | 0.007 |
| 1 | 2 | 3 | | 40 | | 0.154 | 0.118 | 0.018 | 0.025 |
| 5 | 3 | 4 | | 25 | | 0.097 | 0.178 | 0.017 | 0.042 |
| 1 | 4 | 5 | | 30 | | 0.116 | 0.252 | 0.029 | 0.071 |
| 5 | 5 | 6 | | 15 | | 0.058 | 0.312 | 0.018 | 0.089 |
| 6 | 6 | 7 | | 25 | | 0.097 | 0.404 | 0.039 | 0.128 |
| 7 | 7 | 8 | | 40 | | 0.154 | 0.569 | 0.088 | 0.216 |
| 3 | 8 | 9 | | 15 | | 0.058 | 0.753 | 0.044 | 0.260 |
| 5 | 9 | 10 | | 25 | | 0.097 | 0.813 | 0.078 | 0.338 |
| 7 | 10 | 11 | | 40 | | 0.154 | 0.978 | 0.151 | 0.489 |
| 3 | 11 | 12 | | 35 | | 0.135 | 1.162 | 0.157 | 0.646 |
| 5 | 12 | 13 | | 15 | | 0.058 | 1.222 | 0.071 | 0.717 |
| 6 | 13 | 14 | | 55 | | 0.212 | 1.314 | 0.279 | 0.996 |
| 4 | 14 | NAC | | 175 | | 0.676 | 1.558 | 1.052 | 2.048 |

Percent Loss 8.54%

## SHEET KEYNOTES

1. VARIABLE FREQUENCY DRIVE (VFD) AIR HANDLING UNIT FAN CONTROLLER.
2. FIRE ALARM ADDRESSABLE RELAY. CONNECT TO EMERGENCY STOP INPUT ON VFD. PROGRAM TO STOP FAN ON ACTIVATION OF ASSOCIATED SMOKE DETECTION.
3. FIRE ALARM ADDRESSABLE DUCT SMOKE DETECTOR WITH INTEGRAL ADDRESSABLE RELAY. CONNECT TO DIGITAL INPUT ON DIRECT DIGITAL CONTROLLER (DDC). PROGRAM TO SHUT DOWN AIR HANDLING UNIT UPON ACTIVATION OF ASSOCIATED SMOKE DETECTION.




# HVAC FAN SHUT DOWN SCHEMATIC:
# 2 ADDRESSABLE FA SYSTEM WITH VFD

NO SCALE

FILE: 0731FA41.DWG - FA4.1 | EDIT: 9/17/2009 2:50 PM BY JOSEPHR | PLOT: 9/17/2009 7:14 PM BY TINA LEONG

BC|A

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PROJECT 2007-0731
CONTACT Valeria Torres

INTERFACE ENGINEERING
717 Market Street
Suite 500
San Francisco, CA 94103
TEL 415.489.7240
FAX 415.489.7289
www.interfaceengineering.com

| ARCHITECT | ENGINEER |
|---|---|
| LICENSED ARCHITECT PAUL CURTIS BUNTON No. C018659 Ren.: 09/30/11 STATE OF CALIFORNIA | REGISTERED PROFESSIONAL ENGINEER JASON LAU No. E16806 Exp. 09-30-10 ELECTRICAL STATE OF CALIFORNIA |

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4. 

REVISION HISTORY

| | REMARKS | DATE |
|---|---|---|
| 1 | ADDENDUM NO. 1 | 09/18/09 |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |

DRAWING STATUS

| | | DATE |
|---|---|---|
| ● | DSA PLAN CHECK | 08/29/08 |
| ● | DSA BACK CHECK | 01/22/09 |
| ● | BIDDING (BID #86593) | 09/18/09 |
| ○ | CONSTRUCTION | |

FILE NO. 41-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

01- 110074

AC______ FLS______ SS______
DATE______

# BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

BID ADDENDA

APPROVED
DIV OF THE STATE ARCHITECT
AC JM FLS RC SS [illegible]
APPL NO. 110074 DATE 2/17/10

# CAÑADA COLLEGE

4200 Farm Hill Boulevard
Redwood City, CA 94061

FIRE ALARM RISER DIAGRAM AND CALCULATIONS

| Date | Drawing Number |
|---|---|
| 08/29/08 | FA4.1 |
| Scale: AS NOTED | |
| Project Number: 07013 | |