| FIRE ALARM CONTROL PANEL MAPNET CHANNEL 1 | | | SWITCH SETTINGS |
|---|---|---|---|
| MAPNET Number | Device | Room Number (Max 40 Characters) | 1 2 3 4 5 6 7 8 |
| M1-1 | NUL | EXISTING | X . . . . . ON<br>. X X X X X X X OFF |
| M1-2 | NUL | EXISTING | . X . . . . . ON<br>X . X X X X X X OFF |
| M1-3 | NUL | EXISTING | X X . . . . . ON<br>. . X X X X X X OFF |
| M1-4 | NUL | EXISTING | . . X . . . . . ON<br>X X . X X X X X OFF |
| M1-5 | NUL | EXISTING | X . X . . . . . ON<br>. X . X X X X X OFF |
| M1-6 | NUL | EXISTING | . X X . . . . . ON<br>X . X X X X X X OFF |
| M1-7 | NUL | EXISTING | X X X X . . . . ON<br>. . . . X X X X OFF |
| M1-8 | NUL | EXISTING | . . . . X X X X ON<br>X X X X . . . . OFF |
| M1-9 | NUL | EXISTING | X . . . X . . . ON<br>. X X X . X X X OFF |
| M1-10 | NUL | EXISTING | . X X X X . . . ON<br>X . . . . X X X OFF |
| M1-11 | NUL | EXISTING | X X . X X . . . ON<br>. . X X . X X X OFF |
| M1-12 | NUL | EXISTING | . . X X . X . . ON<br>X X . . X X X X OFF |
| M1-13 | NUL | EXISTING | X X . . X X . . ON<br>. . X X X X X X OFF |
| M1-14 | NUL | EXISTING | . . X X X X . . ON<br>X X . . . . X X OFF |
| M1-15 | NUL | EXISTING | X X X X . . . . ON<br>. . . . X X X X OFF |
| M1-16 | NUL | EXISTING | . . . . X X X X ON<br>X X X X . . X X OFF |
| M1-17 | NUL | EXISTING | X . . . X . . X ON<br>. X X X . X X X OFF |
| M1-18 | NUL | EXISTING | . X X X X . . X ON<br>X . . . . X X X OFF |
| M1-19 | NUL | EXISTING | X X . . X . . X ON<br>. . X X X X X X OFF |
| M1-20 | NUL | EXISTING | . . X . X . . X ON<br>X X . X X X X X OFF |
| M1-21 | NUL | EXISTING | X X . X X . . X ON<br>. . X . X X X X OFF |
| M1-22 | NUL | EXISTING | . . X X X . . X ON<br>X . . . . X X X OFF |
| M1-23 | NUL | EXISTING | X X X X . . . X ON<br>. . . X X X X X OFF |
| M1-24 | NUL | EXISTING | . . . X X . . X ON<br>X X X . . X X X OFF |
| M1-25 | NUL | EXISTING | X X X . X . . X ON<br>. . . X . X X X OFF |
| M1-26 | NUL | EXISTING | . . X X . X . X ON<br>X X . . X X X X OFF |
| M1-27 | NUL | EXISTING | X X . X X . . X ON<br>. . X . . X X X OFF |
| M1-28 | NUL | EXISTING | . . X . . X . X ON<br>X X X X X X X X OFF |
| M1-29 | NUL | EXISTING | X X X X X X X X ON<br>. . . . . X X X OFF |
| M1-30 | NUL | EXISTING | . . . . . X X X ON<br>X X X X X X X X OFF |
| M1-31 | NUL | EXISTING | X X X X X X X X ON<br>. . . . . X X X OFF |
| M1-32 | NUL | EXISTING | . . . . . X X X ON<br>X X X X X X X X OFF |
| M1-33 | NUL | EXISTING | X . . . . . X X ON<br>. X X X X X X X OFF |
| M1-34 | NUL | EXISTING | . X . . . . . X ON<br>X . X X X X X X OFF |
| M1-35 | NUL | EXISTING | X X . . . . . X ON<br>. . X X X X X X OFF |
| M1-36 | NUL | EXISTING | . . X . . . . . X ON<br>X X . X X X X X OFF |
| M1-37 | NUL | EXISTING | X . X . . . . . X ON<br>. X . X X X X X OFF |
| M1-38 | NUL | EXISTING | . X X . . . . . X ON<br>X . . X X X X X OFF |
| M1-39 | NUL | EXISTING | X X X . . . . . X ON<br>. . . X X X X X OFF |
| M1-40 | NUL | EXISTING | . . . X . . . . X ON<br>X X X . X X X X OFF |
| M1-41 | NUL | EXISTING | . . . . X . . . X ON<br>X X . . X X X X OFF |
| M1-42 | NUL | EXISTING | X . . . X . . . X ON<br>. X X . X X X X OFF |
| M1-43 | NUL | EXISTING | . X X . X . . . X ON<br>X . . X X X X X OFF |
| M1-44 | NUL | EXISTING | X X . X X . . . X ON<br>. . X . . X X X OFF |
| M1-45 | NUL | EXISTING | . . X . . X . . X ON<br>X X . X X X X X OFF |
| M1-46 | NUL | EXISTING | X . X . . X . . X ON<br>. X . X X X X X OFF |
| M1-47 | NUL | EXISTING | . X X . . X . . X ON<br>X X X X X X X X OFF |
| M1-48 | NUL | EXISTING | X X X X . X . . X ON<br>. . . . X X X X OFF |
| M1-49 | NUL | EXISTING | . . . . X X . . X ON<br>X X X X . . X X OFF |
| M1-50 | NUL | EXISTING | X X . . X X . . X ON<br>. . X X X X X X OFF |
| M1-51 | NUL | EXISTING | . . X X X X . . X ON<br>X X . . . . X X OFF |
| M1-52 | NUL | EXISTING | X . X . . . X . X ON<br>. X . X X X X X OFF |
| M1-53 | NUL | EXISTING | . X . X . . X . X ON<br>X . X X X X X X OFF |
| M1-54 | NUL | EXISTING | X X . X . . X . X ON<br>. . X . X X X X OFF |
| M1-55 | NUL | EXISTING | . . X X . . X . X ON<br>X X X X X X X X OFF |
| M1-56 | NUL | EXISTING | X X X X . . X . X ON<br>. . . . X X X X OFF |
| M1-57 | NUL | EXISTING | . . . . X . X . X ON<br>X X . X X X X X OFF |
| M1-58 | NUL | EXISTING | X . . . X . X . X ON<br>. X X X . X X X OFF |
| M1-59 | NUL | EXISTING | . X X . X . X . X ON<br>X . . X X X X X OFF |
| M1-60 | NUL | EXISTING | X . . X X . X . X ON<br>. X X . . X X X OFF |
| M1-61 | NUL | EXISTING | . X X X X . X . X ON<br>X . . . . X X X OFF |
| M1-62 | NUL | EXISTING | X . . . X X X . X ON<br>. X X X . . X X OFF |
| M1-63 | NUL | EXISTING | . X X X X X X . X ON<br>X X X X X X X X OFF |
| M1-64 | NUL | EXISTING | . . . . . X X . X ON<br>X X X X X X X X OFF |
| M1-65 | NUL | EXISTING | X . . . . X X . X ON<br>. X X X X X X X OFF |
| M1-66 | NUL | EXISTING | . X . . . X X . X ON<br>X . X X X X X X OFF |
| M1-67 | NUL | EXISTING | X X X . . X X . X ON<br>. . . X X X X X OFF |
| M1-68 | NUL | EXISTING | . . . X . X X . X ON<br>X X X . X X X X OFF |
| M1-69 | NUL | EXISTING | X . . X . X X . X ON<br>. X X X X X X X OFF |
| M1-70 | NUL | EXISTING | . X X X . X X . X ON<br>X . . . X X X X OFF |
| M1-71 | NUL | EXISTING | X X . . X X X . X ON<br>. . X X . X X X OFF |
| M1-72 | NUL | EXISTING | . . X X X X X . X ON<br>X X X X . . X X OFF |
| M1-73 | NUL | EXISTING | X . X . X . X X . ON<br>. X . X X X X X OFF |
| M1-74 | NUL | EXISTING | . X . X X . X X . ON<br>X . X X . X X X OFF |
| M1-75 | NUL | EXISTING | X X . X X . X X . ON<br>. . X X X X X X OFF |
| M1-76 | NUL | EXISTING | . . X X X . X X . ON<br>X X . . . X X X OFF |
| M1-77 | NUL | EXISTING | X . X X . X X X . ON<br>. X X X X . . X OFF |
| M1-78 | NUL | EXISTING | . X X X X . . X . ON<br>X . . . . X X X OFF |
| M1-79 | NUL | SPARE MAPNET POINT | X X X X X . . X . ON<br>. . . . X X X X OFF |
| M1-80 | NUL | SPARE MAPNET POINT | . . . . X X . X . ON<br>X X X X . . X X OFF |
| M1-81 | SZAM | 1ST FL ELEC. 131 – NAC3 | X . . . X X . X . ON<br>. X X X . . X X OFF |
| M1-82 | SZAM | 1ST FL ELEC. 131 – NAC3 | . X . . X X . X . ON<br>X . X X . X X X OFF |
| M1-83 | NUL | SPARE MAPNET POINT | X X X . X X . X . ON<br>. X X . . X X X OFF |
| M1-84 | DRAM | 1ST FL CORRIDOR | . . X X X X . X . ON<br>X X . . . . X X OFF |
| M1-85 | IAM | 1ST FL CORRIDOR – FLOW | X . X X . . X X . ON<br>. X . . X X X X OFF |
| M1-86 | IAM | 1ST FL CORRIDOR – TAMPER | . X X . X . X X . ON<br>X . . X . X X X OFF |
| M1-87 | DRAM | 1ST FL CORRIDOR | X X X X . X X X . ON<br>. . . . X X X X OFF |
| M1-88 | NUL | SPARE MAPNET POINT | . . . . X X X X . ON<br>X X X X . . . X OFF |
| M1-89 | DRAM | 1ST FL CREDIT UNION 146 | X . . . X X . X . ON<br>. X X X . . X X OFF |
| M1-90 | DRAM | 1ST FL ELEVATOR LOBBY 112 | . X . . X X . X . ON<br>X . X X . X X X OFF |
| M1-91 | DRAM | 1ST FL ELEVATOR LOBBY 127 – S-CURTAIN | X X . . X X . X . ON<br>. . X X . . X X OFF |
| M1-92 | DRAM | 1ST FL ELEVATOR LOBBY 121 – S-CURTAIN | . . X X . . X X . ON<br>X X . . X X X X OFF |
| M1-93 | NUL | SPARE MAPNET POINT | X . X X . . X X . ON<br>. X X . X X X X OFF |
| M1-94 | NUL | SPARE MAPNET POINT | . X X X . . X X . ON<br>X . . . X X X X OFF |
| M1-95 | NUL | SPARE MAPNET POINT | X X . X . . X X . ON<br>. . X . X X X X OFF |
| M1-96 | NUL | SPARE MAPNET POINT | . . X X . . X X . ON<br>X X X X . . . . OFF |
| M1-97 | NUL | SPARE MAPNET POINT | X . . . X . . . . ON<br>. X X X . X X X OFF |
| M1-98 | NUL | SPARE MAPNET POINT | . X X X X . . . . ON<br>X . . . . X X X OFF |
| M1-99 | NUL | SPARE MAPNET POINT | X X . . X . . . . ON<br>. . X X . X X X OFF |
| M1-100 | NUL | SPARE MAPNET POINT | . . X X X . . . . ON<br>X X . . . . X X OFF |
| M1-101 | SZAM | 2ND FL ELEC 224 – NAC4 | X . X . X . . . . ON<br>. X . X X X X X OFF |
| M1-102 | SZAM | 2ND FL ELEC 224 – NAC4 | . X X . X . . . . ON<br>X . . . . X X X OFF |
| M1-103 | DRAM | 2ND FL ELEVATOR LOBBY 220 – D-HOLDER | X X X . X . . . . ON<br>. . . X X . X X OFF |
| M1-104 | DRAM | 2ND FL ELEVATOR LOBBY 220 – S-CURTAIN | . . X X X . X . . ON<br>X X . . . X X X OFF |
| M1-105 | DRAM | 2ND FL OPEN OFFICE 202 | X . . X X X X . . ON<br>. X X . X . . X OFF |
| M1-106 | NUL | SPARE MAPNET POINT | . X X . X X X . . ON<br>X . . X . . . X OFF |
| M1-107 | DRAM | 2ND FL ELEVATOR LOBBY 214 – D-HOLDER | X X X . X X X . . ON<br>. . . X . . . X OFF |
| M1-108 | DRAM | 2ND FL ELEVATOR LOBBY 214 – S-CURTAIN | . . X X . X X . . ON<br>X X X . X X X X OFF |
| M1-109 | IAM | 2ND FL CORRIDOR – FLOW | X . . X . X X . . ON<br>. X X X X . . X OFF |
| M1-110 | IAM | 2ND FL CORRIDOR – TAMPER | . X X X . X X . . ON<br>X . . . X . . X OFF |
| M1-111 | SZAM | 3RD FL ELEC 324 – NAC5 | X X X X . X X . . ON<br>. . . . X X X X OFF |
| M1-112 | SZAM | 3RD FL ELEC 324 – NAC5 | . . . . X X X . . ON<br>X X X X . . . X OFF |
| M1-113 | DRAM | 3RD FL ELEVATOR LOBBY 320 – D-HOLDER | X . . . X X X . . ON<br>. X X X . . . X OFF |
| M1-114 | DRAM | 3RD FL ELEVATOR LOBBY 320 – S-CURTAIN | . X . . X X X . . ON<br>X . X X . . . X OFF |
| M1-115 | DRAM | 3RD FL OPEN OFFICE 302 | X X . . X X X . . ON<br>. . X X . . . X OFF |
| M1-116 | NUL | SPARE MAPNET POINT | . . X X X X X . . ON<br>X X . . . . . X OFF |
| M1-117 | DRAM | 3RD FL ELEVATOR LOBBY 314 – D-HOLDER | X . X X X X X . . ON<br>. X . . . . . X OFF |
| M1-118 | DRAM | 3RD FL ELEVATOR LOBBY 314 – S-CURTAIN | . X X X X X X . . ON<br>X X . . . . . X OFF |
| M1-119 | IAM | 3RD FL CORRIDOR – FLOW | X X . . X X X X . ON<br>. . X X . . . X OFF |
| M1-120 | IAM | 3RD FL CORRIDOR – TAMPER | . . X X X X X X . ON<br>X X X X . . . X OFF |
| M1-121 | NUL | SPARE MAPNET POINT | X . . . X X X X . ON<br>. X X X . . . X OFF |
| M1-122 | NUL | SPARE MAPNET POINT | . X X X X X X X . ON<br>X X . . . . . X OFF |
| M1-123 | NUL | SPARE MAPNET POINT | X X X X X X X X . ON<br>. . X X . . . X OFF |
| M1-124 | NUL | SPARE MAPNET POINT | . . X X X X X X . ON<br>X X X X . . . X OFF |
| M1-125 | NUL | SPARE MAPNET POINT | X . X X X X X X . ON<br>. X . . . . . X OFF |
| M1-126 | NUL | SPARE MAPNET POINT | . X X X X X X X . ON<br>X . . . . . . X OFF |
| M1-127 | NUL | SPARE MAPNET POINT | X X X X X X X X . ON<br>. . . . . . . X OFF |

UNUM H01 INTERIOR RENOVATIONS – NAC 3 4009 NAC

| Module | Qty | Description | | Standby Current | Total Standby | Alarm Current | Total Alarm |
|---|---|---|---|---|---|---|---|
| Panel Equipment | | | | | | | |
| 4009-9201 | 1 | 4009 IDNET NAC EXTENDER, 120 VAC | | 0.0850 | 0.0850 | 0.1850 | 0.1850 |
| 4009-9808 | 2 | ADAPTER, CLASS A, IDNET | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | | Panel Totals | | | 0.0850 | | 0.1850 |
| Notification Appliances | | | | | | | |
| 4903-9198 | 9 | TRUEALERT NON-ADDR, 110CD, ROUND CEIL SV | 110 | 0.0000 | 0.0000 | 0.2850 | 2.5650 |
| 4906-9104 | 4 | V/O MC NON-ADDRESS, WHT, CEILING | 15 | 0.0000 | 0.0000 | 0.0750 | 0.3000 |
| 4906-9104 | 3 | V/O MC NON-ADDRESS, WHT, CEILING | 75 | 0.0000 | 0.0000 | 0.2330 | 0.6990 |
| | | Peripheral Totals | | | 0.0000 | | 3.5640 |
| | | RUI Totals | 0 | | 0.0000 | | 0.0000 |
| | | Address Totals | 0 Addresses | | 0.0000 | | 0.0000 |
| | | System Totals*: | | Standby | 0.0850 | Alarm | 3.7490 |

* System Totals represent total system current requirements.
Those currents may be distributed between multiple battery sets or EPRs as shown below

| Battery Set #1 (Cabinet/Charger #1) | | | Standby Current | Standby Total | Alarm Current | Alarm Total |
|---|---|---|---|---|---|---|
| Select ALL Power Supplies on this battery set: | | | | | | |
| 4009 | | | | 0.0850 | | 3.7490 |
| | | | Total | 0.0850 | | 3.7490 |
| Standby Time = 24 Hrs | x 0.0850 | = 2.0400 | Standby Ah | | | |
| Alarm Time = 15 Min | 0.25 x 3.749 | = 0.9373 | Alarm Ah | | | |
| | | 2.9773 | | | | |
| Additional Spare Battery Capacity = 0% | | + 0.0000 | | | | |
| | | 2.9773 | | | | |
| Battery Discharge Factor = 20% | | + 0.5955 | | | | |
| Minimum Battery Required | 2081-9272 6.2AH (2x) | 3.5727 | | | | |
| Battery Supplied | 2081-9272 6.2AH (2x) | | | | | |

UNUM H01 INTERIOR RENOVATIONS – NAC 4 4009 NAC

| Module | Qty | Description | | Standby Current | Total Standby | Alarm Current | Total Alarm |
|---|---|---|---|---|---|---|---|
| Panel Equipment | | | | | | | |
| 4009-9201 | 1 | 4009 IDNET NAC EXTENDER, 120 VAC | | 0.0850 | 0.0850 | 0.1850 | 0.1850 |
| 4009-9808 | 1 | ADAPTER, CLASS A, IDNET | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | | Panel Totals | | | 0.0850 | | 0.1850 |
| Notification Appliances | | | | | | | |
| 4903-9198 | 2 | TRUEALERT NON-ADDR, 110CD, ROUND CEIL SV | 110 | 0.0000 | 0.0000 | 0.2850 | 0.5700 |
| | | Peripheral Totals | | | 0.0000 | | 0.5700 |
| | | RUI Totals | 0 | | 0.0000 | | 0.0000 |
| | | Address Totals | 0 Addresses | | 0.0000 | | 0.0000 |
| | | System Totals*: | | Standby | 0.0850 | Alarm | 0.7550 |

* System Totals represent total system current requirements.
Those currents may be distributed between multiple battery sets or EPRs as shown below

| Battery Set #1 (Cabinet/Charger #1) | | | Standby Current | Standby Total | Alarm Current | Alarm Total |
|---|---|---|---|---|---|---|
| Select ALL Power Supplies on this battery set: | | | | | | |
| 4009 | | | | 0.0850 | | 0.7550 |
| | | | Total | 0.0850 | | 0.7550 |
| Standby Time = 24 Hrs | x 0.0850 | = 2.0400 | Standby Ah | | | |
| Alarm Time = 15 Min | 0.25 x 0.755 | = 0.1888 | Alarm Ah | | | |
| | | 2.2288 | | | | |
| Additional Spare Battery Capacity = 0% | | + 0.0000 | | | | |
| | | 2.2288 | | | | |
| Battery Discharge Factor = 20% | | + 0.4458 | | | | |
| Minimum Battery Required | 2081-9272 6.2AH (2x) | 2.6745 | | | | |
| Battery Supplied | 2081-9272 6.2AH (2x) | | | | | |

UNUM H01 INTERIOR RENOVATIONS – NAC 5 4009 NAC

| Module | Qty | Description | | Standby Current | Total Standby | Alarm Current | Total Alarm |
|---|---|---|---|---|---|---|---|
| Panel Equipment | | | | | | | |
| 4009-9201 | 1 | 4009 IDNET NAC EXTENDER, 120 VAC | | 0.0850 | 0.0850 | 0.1850 | 0.1850 |
| 4009-9808 | 1 | ADAPTER, CLASS A, IDNET | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | | Panel Totals | | | 0.0850 | | 0.1850 |
| Notification Appliances | | | | | | | |
| 4903-9198 | 4 | TRUEALERT NON-ADDR, 110CD, ROUND CEIL SV | 110 | 0.0000 | 0.0000 | 0.2850 | 1.1400 |
| 4906-9104 | 1 | V/O MC NON-ADDRESS, WHT, CEILING | 15 | 0.0000 | 0.0000 | 0.0750 | 0.0750 |
| | | Peripheral Totals | | | 0.0000 | | 1.2150 |
| | | RUI Totals | 0 | | 0.0000 | | 0.0000 |
| | | Address Totals | 0 Addresses | | 0.0000 | | 0.0000 |
| | | System Totals*: | | Standby | 0.0850 | Alarm | 1.4000 |

* System Totals represent total system current requirements.
Those currents may be distributed between multiple battery sets or EPRs as shown below

| Battery Set #1 (Cabinet/Charger #1) | | | Standby Current | Standby Total | Alarm Current | Alarm Total |
|---|---|---|---|---|---|---|
| Select ALL Power Supplies on this battery set: | | | | | | |
| 4009 | | | | 0.0850 | | 1.4000 |
| | | | Total | 0.0850 | | 1.4000 |
| Standby Time = 24 Hrs | x 0.0850 | = 2.0400 | Standby Ah | | | |
| Alarm Time = 15 Min | 0.25 x 1.4 | = 0.3500 | Alarm Ah | | | |
| | | 2.3900 | | | | |
| Additional Spare Battery Capacity = 0% | | + 0.0000 | | | | |
| | | 2.3900 | | | | |
| Battery Discharge Factor = 20% | | + 0.4780 | | | | |
| Minimum Battery Required | 2081-9272 6.2AH (2x) | 2.8680 | | | | |
| Battery Supplied | 2081-9272 6.2AH (2x) | | | | | |

UNUM H01 INTERIOR RENOVATIONS – NAC 3 4009 NAC VOLTAGE DROPS

WIRE RESISTANCE BASED ON TABLE 8 FROM NATIONAL ELECTRICAL CODE (UNCOATED SOLID COPPER WIRE) @ 75 Celsius

| | | | | | | | | | | | | | PID | 4906-9104 | 4906-9104 | 4903-9198 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Candela | 15cd | 75cd | 110cd |
| | | | | | | | | | | | | | Device Type | MC CEIL V/O | MC CEIL V/O | CEIL S/V |
| | | | | | | | | | | | | | Supv. Current | 0.0000 | 0.0000 | 0.0000 |
| | | | | | | | | | | | | | Alarm Current | 0.0750 | 0.2330 | 0.2850 |
| | | | | | | | | | | | | | Alarm Current @ 23 Volts | 0.0750 | 0.2330 | 0.2850 |
| NOTIFICATION CIRCUIT DESCRIPTION | Power Supply | Panel Circuit | Plan Ckt. | Dist. (D) Feet | Wire Gauge | Wire Res. / Ft. (R) | Total Alarm (A) | V. Drop (A*2D*R) | Volt @ End | % Volt Drop | Min Device Voltage | Max Distance | | | | |
| BSMNT TRAINING/WEB EX | 4009 | SIG1 | NAC3:V1 | 243 | 14ga | 0.0031 | 0.360 | 0.537 | 18.963 | 2.75% | 16vdc | 1583 Ft. | | 1 | | 1 |
| 1ST FL OPEN OFFICE/MEETING RMS | 4009 | SIG2 | NAC3:V2 | 414 | 14ga | 0.0031 | 1.261 | 3.205 | 16.295 | 16.44% | 16vdc | 452 Ft. | | 3 | 2 | 2 |
| 1ST FL LOBBY/MEETING/CREDIT UNION | 4009 | SIG3 | NAC3:V3 | 359 | 14ga | 0.0031 | 1.088 | 2.398 | 17.102 | 12.30% | 16vdc | 524 Ft. | | | 1 | 3 |
| 1ST FL CORRIDOR/MEETING ROOMS | 4009 | SIG4 | NAC3:V4 | 356 | 14ga | 0.0031 | 0.855 | 1.869 | 17.631 | 9.58% | 16vdc | 667 Ft. | | | | 3 |

NOTE:
LUMP SUM METHOD WAS USED TO CALCULATE ALLOWABLE VOLTAGE DROP. THIS METHOD ALLOWS FOR A SMALL MARGIN OF SAFETY, TAKING INTO CONSIDERATION THAT THE ACTUAL INSTALLED CIRCUIT ROUTING MAY DIFFER FROM WHAT IS SHOWN ON THE SHOP DRAWINGS. IF THE ACTUAL CIRCUIT LENGTH IS GOING TO EXCEED THE MAXIMUM ALLOWABLE CIRCUIT LENGTH, CONTACT YOUR LOCAL SIMPLEXGRINNELL DISTRICT OFFICE.

UNUM H01 INTERIOR RENOVATIONS – NAC 4 4009 NAC VOLTAGE DROPS

WIRE RESISTANCE BASED ON TABLE 8 FROM NATIONAL ELECTRICAL CODE (UNCOATED SOLID COPPER WIRE) @ 75 Celsius

| | | | | | | | | | | | | | PID | 4903-9198 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Candela | 110cd |
| | | | | | | | | | | | | | Device Type | CEIL S/V |
| | | | | | | | | | | | | | Supv. Current | 0.0000 |
| | | | | | | | | | | | | | Alarm Current | 0.2850 |
| | | | | | | | | | | | | | Alarm Current @ 23 Volts | 0.2850 |
| NOTIFICATION CIRCUIT DESCRIPTION | Power Supply | Panel Circuit | Plan Ckt. | Dist. (D) Feet | Wire Gauge | Wire Res. / Ft. (R) | Total Alarm (A) | V. Drop (A*2D*R) | Volt @ End | % Volt Drop | Min Device Voltage | Max Distance | | |
| 2ND FL CORRIDOR | 4009 | SIG1 | SIG3 | 278 | 14ga | 0.0031 | 0.570 | 0.973 | 18.527 | 4.99% | 16vdc | 1000 Ft. | | 2 |
| SPARE | 4009 | SIG2 | SIG4 | | 14ga | 0.0031 | 0.000 | 0.000 | 19.500 | 0.00% | 16vdc | 0 Ft. | | |
| SPARE | 4009 | SIG3 | SIG5 | | 14ga | 0.0031 | 0.000 | 0.000 | 19.500 | 0.00% | 16vdc | 0 Ft. | | |
| SPARE | 4009 | SIG4 | SIG6 | | 14ga | 0.0031 | 0.000 | 0.000 | 19.500 | 0.00% | 16vdc | 0 Ft. | | |

NOTE:
LUMP SUM METHOD WAS USED TO CALCULATE ALLOWABLE VOLTAGE DROP. THIS METHOD ALLOWS FOR A SMALL MARGIN OF SAFETY, TAKING INTO CONSIDERATION THAT THE ACTUAL INSTALLED CIRCUIT ROUTING MAY DIFFER FROM WHAT IS SHOWN ON THE SHOP DRAWINGS. IF THE ACTUAL CIRCUIT LENGTH IS GOING TO EXCEED THE MAXIMUM ALLOWABLE CIRCUIT LENGTH, CONTACT YOUR LOCAL SIMPLEXGRINNELL DISTRICT OFFICE.

UNUM H01 INTERIOR RENOVATIONS – NAC 5 4009 NAC VOLTAGE DROPS

WIRE RESISTANCE BASED ON TABLE 8 FROM NATIONAL ELECTRICAL CODE (UNCOATED SOLID COPPER WIRE) @ 75 Celsius

| | | | | | | | | | | | | | PID | 4906-9104 | 4903-9198 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Candela | 15cd | 110cd |
| | | | | | | | | | | | | | Device Type | MC CEIL V/O | CEIL S/V |
| | | | | | | | | | | | | | Supv. Current | 0.0000 | 0.0000 |
| | | | | | | | | | | | | | Alarm Current | 0.0750 | 0.2850 |
| | | | | | | | | | | | | | Alarm Current @ 23 Volts | 0.0750 | 0.2850 |
| NOTIFICATION CIRCUIT DESCRIPTION | Power Supply | Panel Circuit | Plan Ckt. | Dist. (D) Feet | Wire Gauge | Wire Res. / Ft. (R) | Total Alarm (A) | V. Drop (A*2D*R) | Volt @ End | % Volt Drop | Min Device Voltage | Max Distance | | |
| 3RD FL | 4009 | SIG1 | SIG3 | 135 | 14ga | 0.0031 | 0.570 | 0.472 | 19.028 | 2.42% | 16vdc | 1000 Ft. | | 2 |
| 3RD FL | 4009 | SIG2 | SIG4 | 331 | 14ga | 0.0031 | 0.645 | 1.311 | 18.189 | 6.72% | 16vdc | 884 Ft. | 1 | 2 |
| SPARE | 4009 | SIG3 | SIG5 | | 14ga | 0.0031 | 0.000 | 0.000 | 19.500 | 0.00% | 16vdc | 0 Ft. | | |
| SPARE | 4009 | SIG4 | SIG6 | | 14ga | 0.0031 | 0.000 | 0.000 | 19.500 | 0.00% | 16vdc | 0 Ft. | | |

NOTE:
LUMP SUM METHOD WAS USED TO CALCULATE ALLOWABLE VOLTAGE DROP. THIS METHOD ALLOWS FOR A SMALL MARGIN OF SAFETY, TAKING INTO CONSIDERATION THAT THE ACTUAL INSTALLED CIRCUIT ROUTING MAY DIFFER FROM WHAT IS SHOWN ON THE SHOP DRAWINGS. IF THE ACTUAL CIRCUIT LENGTH IS GOING TO EXCEED THE MAXIMUM ALLOWABLE CIRCUIT LENGTH, CONTACT YOUR LOCAL SIMPLEXGRINNELL DISTRICT OFFICE.


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# UNUM H01 INTERIOR RENOVATIONS

UNUM H01 INTERIOR RENOVATIONS
2211 CONGRESS STREET
PORTLAND, ME 04102

Revisions drawn with ☑ special

| ISSUE LOG | | | | |
|---|---|---|---|---|
| MARK | DATE | DESCRIPTION | CHK | CAD |

| | |
|---|---|
| DRAWN BY: | M.DESIATA |
| CHECKED BY: | S.KALAFARSKI |
| ISSUE DATE: | 3/12/15 |
| JOB #: | |
| PROJECT #: | 147-983293301 |

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SYSTEM:
FIRE ALARM SYSTEM

SHEET:
CALCULATIONS AND SCHEDULES

FA-601

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30" x 42" - Arch E1 Size