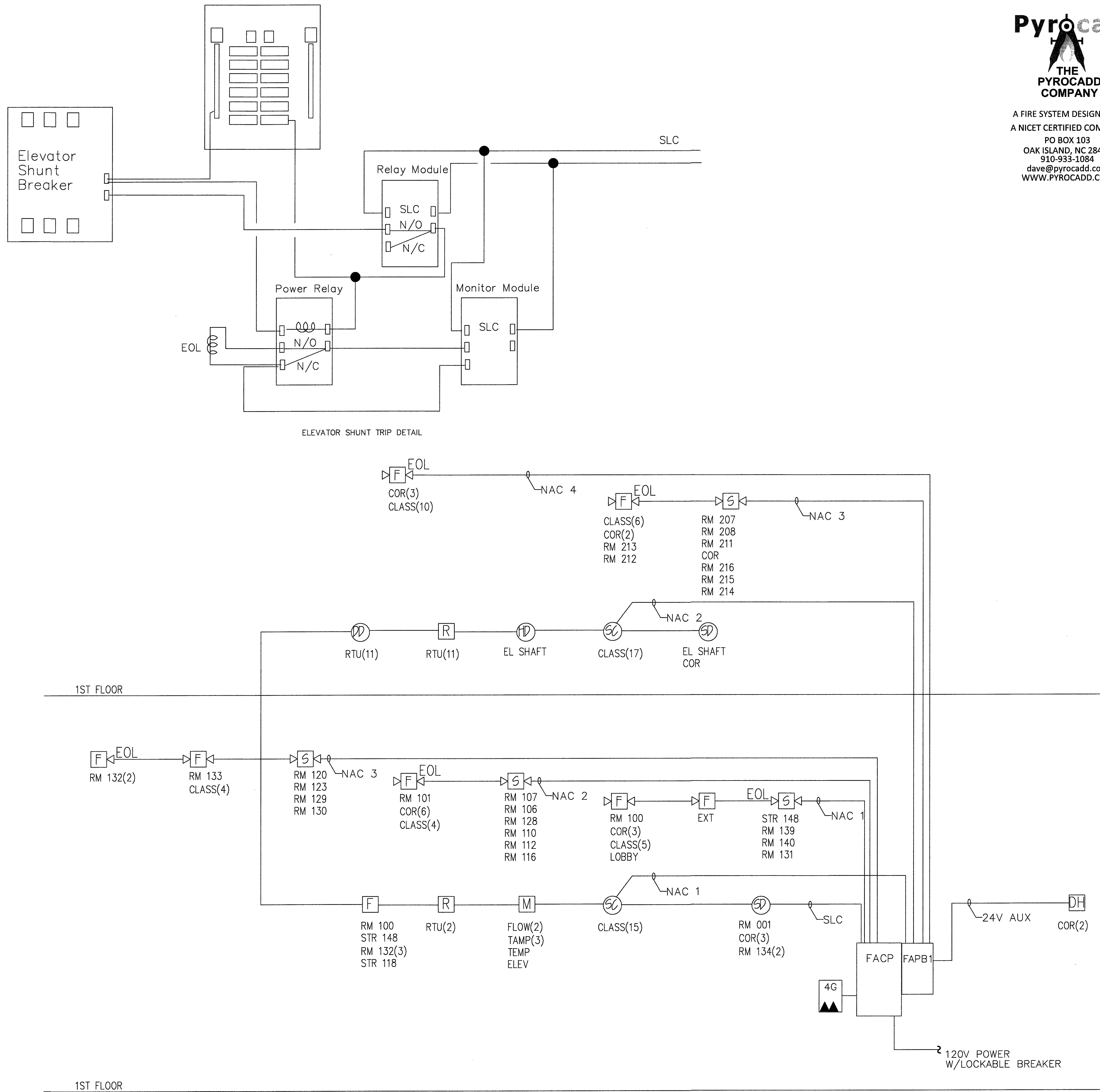


Part #	Description	Qty	Current Draw Standby	Alarm	Wire AWG & Type	Ohms Per 1000 Ft	Length(ft) One-Way	Actual Ohms	Volts @ EOL	% Drop
IFP-300	Fire Alarm Control Unit	1	0.190	0.250						
IDP-Photo-Photo-T-PhotoR	Smoke detector	19	0.0057	0.0057						
IDP-Fire-CO	Fire-CO detector	32	0.0096	0.2304						
IDP-Heat-Heat-HT-ROR	Heat detector	1	0.0003	0.0003						
IDP-Beam-Beam-T	Beam detector	1	0.0000	0.0000						
DNR	Duct housing	11	0.0000	0.0000						
IDP-Accclimate	IDP Accclimate	1	0.0000	0.0000						
IDP-Photo-W	Photo W	1	0.0000	0.0000						
IDP-Photo-R-W	Photo-R-W	1	0.0000	0.0000						
IDP-Photo-T-W	Photo-T-W	1	0.0000	0.0000						
IDP-Heat-W	Heat-W	1	0.0000	0.0000						
IDP-Heat-ROR-W	Heat-ROR-W	1	0.0000	0.0000						
IDP-Heat-HT-W	Heat-HT-W	1	0.0000	0.0000						
IDP-Control-5	Control-5	1	0.0000	0.0000						
IDP-Control-6	Control-6	1	0.0000	0.0000						
IDP-Monitor-Minimon	Monitor-Minimon	7	0.0028	0.0028						
IDP-Monitor-2	Monitor-2	1	0.0000	0.0000						
IDP-Monitor-10	Monitor-10	1	0.0000	0.0000						
IDP-Pull-SA, Pull-DA	Pull-SA, Pull-DA	6	0.0023	0.0023						
IDP-Relay	Relay	13	0.0033	0.0033						
IDP-Relay-6	Relay-6	1	0.0000	0.0000						
IDP-RelayMon-2	RelayMon-2	1	0.0000	0.0000						
IDP-Zone	Zone	1	0.0000	0.0000						
IDP-Zone-6	Zone-6	1	0.0000	0.0000						
IDP-iso (Isolator Module)	iso (Isolator Module)	1	0.0000	0.0000						
IDP-ISO-6	ISO-6	1	0.0000	0.0000						
B224B1	Isolator Base	1	0.0000	0.0000						
B200S	Sounder Base	32	0.0096	0.0096						
B200SR	Sounder Base	1	0.0000	0.0000						
B200SLF	Sounder Base LF	1	0.0000	0.0000						
B200SLF	Sounder Base LF	1	0.0000	0.0000						
B224R3	Relay Base	1	0.0000	0.0000						
RTS151	Magnetic Remote Test	1	0.000	0.0000						
RTS151KEY	Key Activated Test	1	0.000	0.0000						
RA100Z	Remote LED	1	0.000	0.000						
6815	SLC Expander	1	0.000	0.000						
RA-2000	LCD Remote Annunc	1	0.000	0.000						
RA-1000	LCD Remote Annunc	1	0.000	0.000						
RA-100	LCD Remote Annunc	1	0.000	0.000						
5824	Serial/Parallel Module	1	0.000	0.000						
5496	Power Expander	1	0.000	0.000						
RPS-1000	Power Expander	1	0.000	0.000						
3865-4	LED Annunciator (4G)	1	0.000	0.000						
3865-3	LED Annunciator (3G)	1	0.000	0.000						
5880	LED Driver Module	1	0.000	0.000						
5883	Relay Module	1	0.000	0.000						
CELL-MOD	Communicator	1	0.055	0.100						
SK-NIC	Network Interface Card	1	0.000	0.000						
SK-FML	Fiber Module	1	0.000	0.000						
SK-TSL	Fiber Module	1	0.000	0.000						
WIDP-WG1	Wireless Gateway	1	0.000	0.000						
ECS-NVGM	Voice control	1	0.000	0.000						
ECS-SV24	Zone Expander	1	0.000	0.000						
ECS-RPU	Remote Paging Unit	1	0.000	0.000						
ECS-LOC	Local Operating Console	1	0.000	0.000						
ECS-INT50W	50 Watt Internal Amp 25 volts	1	0.000	0.000						
ECS-INT50W	50 Watt Internal Amp 70 volts	1	0.000	0.000						
ECS-50W	50 Watt Amplifier	1	0.000	0.000						
ECS-125W	125 Watt Amplifier	1	0.000	0.000						
ECS-DUAL50W	50/100 Watt Amp	1	0.000	0.000						
ECS-50WBU	50 Watt Backup Amplifier	1	0.000	0.000						
NAC #1	Notification Appl Circuit	cfg	0.000	1.140	#14 Stranded	2.52	330	1.66	20.40	9.29%
NAC #2	Notification Appl Circuit	cfg	0.000	1.140	#14 Stranded	2.52	340	1.71	18.45	9.58%
NAC #3	Notification Appl Circuit	cfg	0.000	0.938	#14 Stranded	2.52	430	2.17	18.37	9.96%
NAC #4	Notification Appl Circuit	cfg	0.000	0.000	#14 Stranded	2.52		0.00	20.40	0.00%
Total Standby Current (Amps)			0.278	3.822	Total Alarm Current (Amps)					
Standby Time in Hours			24	0.083	Alarm Time in Minutes / 60 (5 Mins)					
Total Standby AH Required			6.681	0.319	Total Alarm AH Required					
Total Combined AH Required			7.00							
Multiply By The Derating Factor			1.20							
Minimum Battery Amphours Required			8.40							

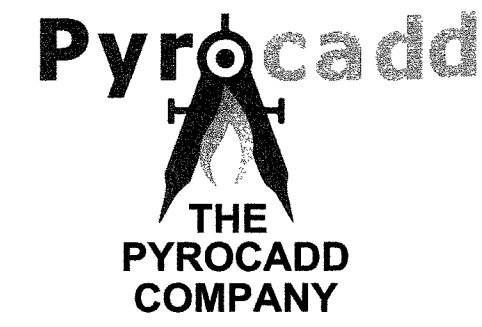
Configure Circuits      Print Page

Ckt #	Circuit Name	Current Draw Standby	Alarm	Wire AWG & Type	Ohms Per 1000 Ft	Length(ft) One-Way	Actual Ohms	Volts @ EOL	% Drop	
5499	5499 Pwr Module	1	0.075	0.205						
NAC #1	5499 Circuit 1	cfg	0.000	0.525	#14 Stranded	2.52	500	2.52	19.08	6.49%
NAC #2	5499 Circuit 2	cfg	0.000	0.595	#14 Stranded	2.52	540	2.72	18.78	7.94%
NAC #3	5499 Circuit 3	cfg	0.000	1.240	#14 Stranded	2.52	320	1.61	18.40	9.80%
NAC #4	5499 Circuit 4	cfg	0.000	1.110	#14 Stranded	2.52	340	1.71	18.50	9.32%
Aux	5499 Aux Power Out	cfg	0.044	0.000	#14 Stranded	2.52	150	0.76	20.37	0.16%
Total Standby Current (Amps)			0.119	3.675	Total Alarm Current (Amps)					
Standby Time in Hours			24	0.083	Alarm Time in Minutes / 60 (5 Mins)					
Total Standby AH Required			2.856	0.306	Total Alarm AH Required					
Total Combined AH Required			3.16							
Multiply By The Derating Factor			1.20							
Minimum Battery Amphours Required			3.79							

Wire resistances are based upon an ambient temperature of 72 degrees F. Because of the minimal difference between solid and stranded wire no differential was made.



1 FA5 RISER DIAGRAM NTS



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*4/2/19*

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NEW FIRE ALARM SYSTEM FOR:  
**CAROLINA CHARTER ACADEMY**  
8529 HIGHWAY 55  
ANGIER, NORTH CAROLINA 27501

PROJECT NO: 18-103-33  
DATE: 3/21/19  
CAD DWG FILE: FA1.dwg  
DRWN BY: DWR CHKD BY: WHC

FIRE ALARM PLAN  
**FA5**