CITY OF BRAMPTON FIRE STATION #201

27 Rutherford Road South, Brampton, Ontario

salter pilon architecture inc.

Appendix

- Door Schedule
- Colour and Material Schedule
- March Alert Station Controller Installation Guide

BFES Station 201
25 Rutherford Road S, Brampton, Ontario

Job No. 22625

Architect
Salter Pilon Architecture
151 Ferris Lane
Suite 400
Barrie, Ontario

Coordinator
Jennifer Fleming - UCSH Barrie
Tel: 705-733-3507
Fax: 705-739-5169
E-Mail: jenf@ucsh.com

Consultant

Steve Robinson - UCSH Barrie
Tel: 705-733-3507
Fax: 705-739-5169
E-Mail: stever@ucsh.com

Submittal Date: **June 16, 2021**

Openings Schedule

Hardware Group	Qty	Opening Number(s)	Location 1	To/ From	Location 2	Hand	Nominal Width	Nominal Height	Door Thickness	Door Mat'l	Frame Mat'l	Label
001	1	101A	EXTERIOR	FROM	VESTIBULE 101B	RHR	1100	2150	57	AL	AL	
002	1	101B	VESTIBULE 101	FROM	CORRIDOR 106	LHR	1050	2150	45	HM	HM	
003	1	102	VESTIBULE 101	TO	UNIVERSAL WASHROOM 102	LH	1050	2150	45	HM	HM	
004	1	103	CORRIDOR 106	TO	DC DORM/OFFICE 103	RH	950	2150	45	HM	HM	45 MIN
005	1	104	CORRIDOR 106	TO	PC DORM/OFFICE 104	RH	950	2150	45	HM	HM	45 MIN
006	1	105	CORRIDOR 106	TO	OPEN ADMIN OFFICE 105	LH	950	2150	45	AL	AL	
007	1	106	CORRIDOR 106	FROM	FITNESS ROOM 117	LHR	950	2150	45	HM	HM	
008	1	107	CORRIDOR 106	FROM	DORMS 107	RHR	950	2150	45	HM	HM	45 MIN
009	1	108	CORRIDOR 106	TO	ELECTRICAL 108	LH	950	2150	45	HM	HM	45 MIN
009	1	110	CORRIDOR 106	TO	IT ROOM 110	LH	950	2150	45	HM	HM	45 MIN
009	1	111	CORRIDOR 106	TO	MECHANICAL 111	RH	950	2150	45	HM	HM	45 MIN
010	1	109	CORRIDOR 106	TO	JANITOR 109	RH	950	2150	45	HM	HM	45 MIN
011	1	112	CORRIDOR 106	TO	LOCKER ROOM 112	LH	950	2150	45	HM	HM	
012	1	113	LOCKER ROOM 112	TO	WASHROOM 113	RH	950	2150	45	HM	HM	
012	1	114	LOCKER ROOM 112	TO	WASHROOM 114	LH	950	2150	45	HM	HM	
012	1	115	LOCKER ROOM 112	TO	WASHROOM 115	RH	950	2150	45	HM	HM	
013	1	116	LOCKER ROOM 112	TO	WASHROOM 116	LH	950	2150	45	HM	HM	
014	1	117	CORRIDOR 106	FROM	LOCKER ROOM 112	RHR	950	2150	45	HM	HM	
015	1	118	EXTERIOR PATIO AREA	TO	KITCHEN/MEETING 118	RH	1000	2150	57	AL	AL	
016	1	120A	CORRIDOR 106	TO	OUTDOOR STORAGE 120	RH	950	2150	45	HM	HM	45 MIN
017	1	120B	EXTERIOR PATIO AREA	FROM	OUTDOOR STORAGE 120	LHR	1200	2150	45	HM	HM	
018	1	121A	STAFF ENTRANCE 121	FROM	CORRIDOR 122	RHR	1050	2150	45	HM	HM	
019	1	121B	EXTERIOR	FROM	STAFF ENTRANCE 121	LHR	1100	2150	57	AL	AL	
020	1	123	CORRIDOR 122	TO	MED. STOR 123	RH	950	2150	45	HM	HM	45 MIN
021	1	124A	APPARATUS BAY 131	TO	DECON. 124	RH	950	2150	45	HM	HM	60 MIN
022	1	124B	CORRIDOR 122	TO	DECON. 124	RH	950	2150	45	HM	HM	
023	1	125A	APPARATUS BAY 131	TO	GEAR LAUNDRY 126	RH	950	2150	45	HM	HM	60 MIN
024	1	125B	CORRIDOR 106	TO	CLEAN/LAUNDRY 125	RH	950	2150	45	HM	HM	
025	1	126	APPARATUS BAY 131	TO	GEAR LAUNDRY 126	RH	1050	2150	45	HM	HM	
025	1	127B	GEAR LAUNDRY 126	TO	BUNKER GEAR 127	LH	1050	2150	45	HM	HM	
026	1	127A	APPARATUS BAY 131	TO	BUNKER GEAR 127	SLIDER	2500	2350	45	AL	AL	
027	1	128	APPARATUS BAY 131	TO	TOOL 128	RH	950	2150	45	HM	HM	
027	1	130	APPARATUS BAY 131	TO	HOSE TOWER 130	RH	950	2150	45	HM	HM	
028	1	129	APPARATUS BAY 131	TO	COMPR 129	LH	950	2150	45	HM	HM	
029	1	131A	CORRIDOR 122	TO	APPARATUS BAY 131		950	2150	45	HM	HM	60 MIN
030	1	131B	EXTERIOR	FROM	APPARATUS BAY 131	LHR	950	2150	45	HM	HM	
031	1	FD-1	EXTERIOR	FROM	APPARATUS BAY 131	FOLD	4270	4270		-	-	
031	1	FD-2	EXTERIOR	FROM	APPARATUS BAY 131	FOLD	4270	4270		-	-	
031	1	FD-3	EXTERIOR	FROM	APPARATUS BAY 131	FOLD	4270	4270		-	-	

Hardware Group	Qty	Opening Number(s)	Location 1	To/ From	Location 2	Hand	Nominal Width	Nominal Height	Door Thickness	Door Mat'l	Frame Mat'l	Label
031	1	FD-4	EXTERIOR	FROM	APPARATUS BAY 131	FOLD	4270	4270		-	-	
032	1	OH-1	EXTERIOR	FROM	APPARATUS BAY 131	OH	4270	4270	35	-	-	
032	1	OH-2	EXTERIOR	FROM	APPARATUS BAY 131	OH	4270	4270	35	-	-	
032	1	OH-3	EXTERIOR	FROM	APPARATUS BAY 131	OH	4270	4270	35	-	-	
032	1	OH-4	EXTERIOR	FROM	APPARATUS BAY 131	OH	4270	4270	35	-	-	
033	1	MISC-1								-	-	

Hardware Schedule

Heading #001

1 Single door 101A, EXTERIOR FROM VESTIBULE 101B RHR

1100 x 2150 x 57 - AL DR x AL FR

1	Continuous Hinge	SL27 HD CL LL x 2111	
1	Electric Strike	9600-630-LBM- 2005M3	630-LBM
1	Power Supply	Power Supply - By Security Contractor	
1	Proximity Reader	Proximity Reader - By Security Contractor	
1	Dead Lock	28-4875 C26D RHR LC	C26D
1	Mortise Housing	320275 26 Z20 N	626
2	Cylinder Collar	94-0188 626	626
1	Construction Core	3201CCW B1 R1 P UN 6 PIN 626	
1	Exit Device	31-AD8504 J L/Trim RHR LC C32D 1100	C32D
2	Rim Housing	320475 H 26 Y0ZN 626	626
3	Permanent Core	Permanent Core - By City of Brampton	
1	Door Pull	GSH 1180-2 #4B Mtg (57mm Dr) C32D	C32D
1	Auto Operator	4000 628 (Push)	628
2	Push Button	CM-46/4 C32D	C32D
1	Relay	CX-33	
1	Overhead Door Stop	699S C26D RHR (110°)	C26D
1	Threshold	CT-46 x 1100	
1	Weatherstripping	Weatherstrip - By Aluminum Door Supplier	
1	Door Sweep	W-24S-CA x 1100	CA
1	Door Contact	Door Contact - By Security Contractor	
1	Opening Schematic	Opening Schematic - By UC Access	

NOTE:
- DEADLOCK ONLY TO BE USED IN THE EVENT OF AN EMERGENCY. CONFIRM ACCEPTANCE WITH LOCAL JIRISDICTION HAVING AUTHORITY.
- CONFIRM MODE OF OPERATION WITH CLIENT.

Heading #002

1 Single door 101B, VESTIBULE 101 FROM CORRIDOR 106 LHR

1050 x 2150 x 45 - HM DR x HM FR

1	Continuous Hinge	SL24 HD CL LL x 2111	
1	Electric Strike	9400-630-LBM- 2005M3	630-LBM
1	Power Supply	Power Supply - By Security Contractor	
1	Proximity Reader	Proximity Reader - By Security Contractor	
1	Rim Housing	320475 H 26 Y0ZN 626	626
1	Cylinder Collar	94-0188 626	626
1	Construction Core	3201CCW B1 R1 P UN 6 PIN 626	
1	Exit Device	31-8804 J L/Trim LHR LC C32D 1050	C26D/US32D
1	Permanent Core	Permanent Core - By City of Brampton	
1	Door Pull	GSH 1180-2 TB C32D	C32D
1	Auto Operator	7000 628 (Push)	628
2	Push Button	CM-46/4 C32D	C32D
1	Relay	CX-33	
1	Kick Plate	GSH 80A C32D (200 x 1010) TM	C32D
1	Wall Door Stop	GSH 250B C32D	C32D
1	Door Contact	Door Contact - By Security Contractor	
1	Opening Schematic	Opening Schematic - By UC Access	

Heading #003

1 Single door 102, VESTIBULE 101 TO UNIVERSAL WASHROOM 102 LH

1050 x 2150 x 45 - HM DR x HM FR

3	Standard Hinge	LH1368CB 127 x 114 C26D	C26D
1	Lockset	8204 LNL C32D LH	C32D
1	Mortise Housing	320275 26 Z20 N	626
1	Cylinder Collar	94-0188 626	626
1	Construction Core	3201CCW B1 R1 P UN 6 PIN 626	
1	Permanent Core	Permanent Core - By City of Brampton	
1	Electric Strike	1006CLB-F-630-LBM- 2005M3	630-LBM
1	Power Supply	CX-PS13V3	
1	Auto Operator	7000 628 (Pull)	628
2	Push Button	CM-46/4 C32D	C32D
1	Restroom Control Kit	CX-WC13FM (Less Door Contact)	
1	Emergency Call Kit	CX-WEC10	
1	Kick Plate	GSH 80A C32D (305 x 1010) TM	C32D
1	Wall Door Stop	GSH 250B C32D	C32D
1	Opening Schematic	Opening Schematic - By UC Access	

MODE OF OPERATION:
1. TO OPEN DOOR ACTIVATE THE DOOR BY THE EXTERIOR BARRIER FREE PUSH PLATE AND DOOR WILL SLOWLY POWER OPEN. TIME OUT AND SLOWLY CLOSE.
2. TO LOCK DOOR FOR PRIVACY ACTIVATE PUSH TO LOCK SWITCH, POWER WILL BE CUT TO EXTERIOR BARRIER PUSH PLATE CREATING PRIVACY.
3. ALSO ON ACTIVATION OF THE INTERIOR PUSH TO LOCK SWITCH (#2).
4. TO EXIT WASHROOM ACTIVATE INTERIOR BARRIER FREE PUSH PLATE AND THE DOOR WILL SLOWLY OPEN (#3).
5. MANUAL NON B/FREE.
6. IN NON FIRE RATED APPLICATION, IF THE WASHROOM IS VACANT THE DOOR CAN BE MANUALLY PUSHED OPEN AS THE ELECTRIC STRIKE WILL NOT ENGAGED.
7. IN A FIRE RATED APPLICATION A KEY WILL BE REQUIRED TO OPERATE THE DOOR MANUALLY (#1). THE KEY WILL UNLOCK THE STOREROOM FUNCTION LOCKSET AS THE ELECTRIC STRIKE MUST BE ENGAGED TO MEET THE FIRE CODE REQUIREMENT FOR SELF LATCHING.
#1 - DOOR CAN ALSO BE OPENED IN A FIRE RATED APPLICATION BY EXTERIOR ACTUATOR IF ROOM IS NOT OCCUPIED.
#2 - THE EXTERIOR "AURA" PUSH PLATE WILL CHANGE ILLUMINATION FROM GREEN TO RED ADVISING THAT THE DOOR IS LOCKED AND THE ROOM IS OCCUPIED. AS WELL THE ILLUMINATED PUSH TO LOCK BUTTON. THE INTERIOR PUSH PLATE IS NOT ILLUMINATED.
#3 - THE SYSTEM WILL ALSO RESET IF THE DOOR IS OPENED MANUALLY WITH THE DOOR LEVER.

NOTE:
- DO NOT USE DOOR CONTACT - UTILIZE LBM IN ELECTRIC STRIKE.
- 120V & LOW VOLTAGE WIRING BY ELECTRICAL CONTRACTOR.
- OCCUPIED & EMERG KIT TO BE INSTALLED TO CONTROL. THE PRIVACY OF THE OCCUPANT, IN CONJUNCTION WITH AUTO DOOR OPERATOR AS WELL AS PROVIDED EMERGENCY RESPONSE CAPABILITIES, INCLUDING ALARMS INSIDE & OUTSIDE OF WASHROOM.
- ELECTIRC STRIKE TO BE TIED INTO AUTOMATIC DOOR OPERATOR AS WELL AS BOTH INTERIOR ACTUATORS & EXTERIOR ACTUATOR.
- DOOR OPERATOR TO BE INSTALLED BY A FACTORY TRAINED INSTALLER AS PART OF THE FINISHING HARDWARE CONTRACT. ALL WIRES TO BE RUN BY THE ELECTRICAL CONTRACTOR.

Heading #004

1 Single door 103, CORRIDOR 106 TO DC DORM/OFFICE 103 RH

950 x 2150 x 45 - HM DR x HM FR - 45 MIN

CONFIRM HARDWARE & LOCK FUNCTION

3	Standard Hinge	LH1368CB 114 x 101 C26D	C26D
1	Privacy Set	8265 LNL C32D RH	C32D
1	Surface Closer	1431 OT EN TB RH	EN
1	Drop Plate	1431D EN	EN
1	Overhead Door Stop	698S C26D RH (95°)	C26D
1	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D
1	Weatherstripping	W-66-BL x 5300	BL
1	Door Sweep	W-24S-CA x 950	CA

Heading #005

1 Single door 104, CORRIDOR 106 TO PC DORM/OFFICE 104 RH

950 x 2150 x 45 - HM DR x HM FR - 45 MIN

CONFIRM HARDWARE & LOCK FUNCTION

3	Standard Hinge	LH1368CB 114 x 101 C26D	C26D
1	Privacy Set	8265 LNL C32D RH	C32D
1	Surface Closer	1431 OT EN TB RH	EN
1	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D
1	Wall Door Stop	GSH 250B C32D	C32D
1	Weatherstripping	W-66-BL x 5300	BL
1	Door Sweep	W-24S-CA x 950	CA

Heading #006

1 Single door 105, CORRIDOR 106 TO OPEN ADMIN OFFICE 105 LH

950 x 2150 x 45 - AL DR x AL FR

1	Continuous Hinge	SL24 HD CL LL x 2111	
1	Latchset	8215 LNL C32D LH	C32D
1	Wall Door Stop	GSH 250B C32D	C32D

Heading #007

1 Single door 106, CORRIDOR 106 FROM FITNESS ROOM 117 LHR

950 x 2150 x 45 - HM DR x HM FR

3	Standard Hinge	LH1368CB 114 x 101 C26D	C26D
1	Door Pull	GSH 4209-2 TB C32D	C32D
1	Push Plate	GSH 81A C32D (101 x 406) TM	C32D
1	Surface Closer	1431 CPS TB EN LHR	EN
1	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D

Heading #008

1 Single door 107, CORRIDOR 106 FROM DORMS 107 RHR

950 x 2150 x 45 - HM DR x HM FR - 45 MIN

3	Standard Hinge	LH1368CB 114 x 101 C26D	C26D
1	Latchset	8215 LNL C32D RHR	C32D
1	Surface Closer	1431 CPS TB EN RHR	EN
1	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D
1	Wall Door Stop	GSH 250B C32D	C32D
1	Weatherstripping	W-66-BL x 5300	BL
1	Door Sweep	W-24S-CA x 950	CA

Heading #009

1 Single door 108, CORRIDOR 106 TO ELECTRICAL 108	LH
1 Single door 110, CORRIDOR 106 TO IT ROOM 110	LH
1 Single door 111, CORRIDOR 106 TO MECHANICAL 111	RH

950 x 2150 x 45 - HM DR x HM FR - 45 MIN

9	Standard Hinge	LH1368CB 114 x 101 C26D	C26D
2	Lockset	8204 LNL C32D LH	C32D
1	Lockset	8204 LNL C32D RH	C32D
3	Mortise Housing	320275 26 Z20 N	626
3	Cylinder Collar	94-0188 626	626
3	Construction Core	3201CCW B1 R1 P UN 6 PIN 626	
3	Permanent Core	Permanent Core - By City of Brampton	
3	Electric Strike	1006CLB-630-LBM- 2005M3	630-LBM
3	Power Supply	Power Supply - By Security Contractor	
3	Proximity Reader	Proximity Reader - By Security Contractor	
2	Surface Closer	1431 O TB EN LH (Pull)	EN
1	Surface Closer	1431 O TB EN RH (Pull)	EN
3	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D
3	Wall Door Stop	GSH 250B C32D	C32D
3	Weatherstripping	W-66-BL x 5300	BL
3	Door Sweep	W-24S-CA x 950	CA
3	Door Contact	Door Contact - By Security Contractor	
3	Opening Schematic	Opening Schematic - By UC Access	

Heading #010

1 Single door 109, CORRIDOR 106 TO JANITOR 109 RH

950 x 2150 x 45 - HM DR x HM FR - 45 MIN

3	Standard Hinge	LH1368CB 114 x 101 C26D	C26D
1	Lockset	8204 LNL C32D RH	C32D
1	Mortise Housing	320275 26 Z20 N	626
1	Cylinder Collar	94-0188 626	626
1	Construction Core	3201CCW B1 R1 P UN 6 PIN 626	
1	Permanent Core	Permanent Core - By City of Brampton	
1	Surface Closer	1431 O TB EN RH (Pull)	EN
1	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D
1	Wall Door Stop	GSH 250B C32D	C32D
1	Weatherstripping	W-66-BL x 5300	BL
1	Door Sweep	W-24S-CA x 950	CA

Heading #011

1 Single door 112, CORRIDOR 106 TO LOCKER ROOM 112 LH

950 x 2150 x 45 - HM DR x HM FR

CONFIRM HARDWARE

3	Standard Hinge	LH1368CB 114 x 101 C26D	C26D
1	Door Pull	GSH 4209-2 TB C32D	C32D
1	Push Plate	GSH 81A C32D (101 x 406) TM	C32D
1	Surface Closer	1431 OT EN TB LH	EN
1	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D
1	Wall Door Stop	GSH 250B C32D	C32D

Heading #012

1 Single door 113, LOCKER ROOM 112 TO WASHROOM 113 RH
1 Single door 114, LOCKER ROOM 112 TO WASHROOM 114 LH
1 Single door 115, LOCKER ROOM 112 TO WASHROOM 115 RH

950 x 2150 x 45 - HM DR x HM FR

9	Standard Hinge	LH1368CB 114 x 101 C26D	C26D
1	Privacy Set	8265 LNL C32D LH	C32D
2	Privacy Set	8265 LNL C32D RH	C32D
3	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D
3	Floor Door Stop	GSH 209 C26D	C26D

Heading #013

1 Single door 116, LOCKER ROOM 112 TO WASHROOM 116 LH

950 x 2150 x 45 - HM DR x HM FR

3	Standard Hinge	LH1368CB 114 x 101 C26D	C26D
1	Privacy Set	8265 LNL C32D LH	C32D
1	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D
1	Wall Door Stop	GSH 250B C32D	C32D

Heading #014

1 Single door 117, CORRIDOR 106 FROM LOCKER ROOM 112 RHR

950 x 2150 x 45 - HM DR x HM FR

3	Standard Hinge	LH1368CB 114 x 101 C26D	C26D
1	Door Pull	GSH 4209-2 TB C32D	C32D
1	Push Plate	GSH 81A C32D (101 x 406) TM	C32D
1	Surface Closer	1431 CPS TB EN RHR	EN
1	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D
1	Wall Door Stop	GSH 250B C32D	C32D

Heading #015

1 Single door 118, EXTERIOR PATIO AREA TO KITCHEN/MEETING 118 RH

1000 x 2150 x 57 - AL DR x AL FR

CONFIRM DOOR WILL ACCEPT MORTISE LOCK

1	Continuous Hinge	SL27 HD CL LL x 2111	
1	Lockset	8204 LNL (57mm Door) C32D RH	C32D
1	Mortise Housing	320275 26 Z20 N	626
1	Cylinder Collar	94-0188 626	626
1	Construction Core	3201CCW B1 R1 P UN 6 PIN 626	
1	Permanent Core	Permanent Core - By City of Brampton	
1	Electric Strike	1006CLB-630-LBM- 2005M3	630-LBM
1	Power Supply	Power Supply - By Security Contractor	
1	Proximity Reader	Proximity Reader - By Security Contractor	
1	Surface Closer	351 OT TB EN RH (Pull)	EN
1	Drop Plate	351D EN	EN
1	Overhead Door Stop	699S C26D RH (110°)	C26D
1	Threshold	CT-46 x 1000	
1	Weatherstripping	Weatherstrip - By Aluminum Door Supplier	
1	Door Sweep	W-24S-CA x 1000	CA
1	Door Contact	Door Contact - By Security Contractor	
1	Opening Schematic	Opening Schematic - By UC Access	

Heading #016

1 Single door 120A, CORRIDOR 106 TO OUTDOOR STORAGE 120 RH

950 x 2150 x 45 - HM DR x HM FR - 45 MIN

3	Standard Hinge	LH1368CB 114 x 101 C26D	C26D
1	Lockset	8204 LNL C32D RH	C32D
1	Mortise Housing	320275 26 Z20 N	626
1	Cylinder Collar	94-0188 626	626
1	Construction Core	3201CCW B1 R1 P UN 6 PIN 626	
1	Permanent Core	Permanent Core - By City of Brampton	
1	Electric Strike	1006CLB-630-LBM- 2005M3	630-LBM
1	Power Supply	Power Supply - By Security Contractor	
1	Proximity Reader	Proximity Reader - By Security Contractor	
1	Surface Closer	1431 O TB EN RH (Pull)	EN
1	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D
1	Wall Door Stop	GSH 250B C32D	C32D
1	Weatherstripping	W-66-BL x 5300	BL
1	Door Sweep	W-24S-CA x 950	CA
1	Door Contact	Door Contact - By Security Contractor	
1	Opening Schematic	Opening Schematic - By UC Access	

Heading #017

1 Single door 120B, EXTERIOR PATIO AREA FROM OUTDOOR STORAGE 120 LHR

1200 x 2150 x 45 - HM DR x HM FR

1	Continuous Hinge	SL24 HD CL LL x 2111	
1	Lockset	8204 LNL C32D LHR	C32D
1	Mortise Housing	320275 26 Z20 N	626
1	Cylinder Collar	94-0188 626	626
1	Construction Core	3201CCW B1 R1 P UN 6 PIN 626	
1	Permanent Core	Permanent Core - By City of Brampton	
1	Electric Strike	1006CLB-630-LBM- 2005M3	630-LBM
1	Power Supply	Power Supply - By Security Contractor	
1	Proximity Reader	Proximity Reader - By Security Contractor	
1	Surface Closer	351 CPS TB EN RH	EN
1	Armor Plate	GSH 80A C32D (838 x 1150) TM	C32D
1	Threshold	CT-46 x 1200	
1	Head Seal	W-20N-CA x 1200 (Install Prior To Closer)	CA
2	Jamb Seal	W-16N-CA x 2150	CA
1	Door Sweep	W-24S-CA x 1200	CA
1	Door Contact	Door Contact - By Security Contractor	
1	Opening Schematic	Opening Schematic - By UC Access	

Heading #018

1 Single door 121A, STAFF ENTRANCE 121 FROM CORRIDOR 122 RHR

1050 x 2150 x 45 - HM DR x HM FR

1	Continuous Hinge	SL24 HD CL LL x 2111	
1	Door Pull	GSH 1180-2 TB C32D	C32D
1	Push Plate	GSH 81A C32D (101 x 406) TM	C32D
1	Surface Closer	351 CPS TB EN LH	EN
1	Kick Plate	GSH 80A C32D (200 x 1010) TM	C32D
1	Wall Door Stop	GSH 250B C32D	C32D

Heading #019

1 Single door 121B, EXTERIOR FROM STAFF ENTRANCE 121 LHR

1100 x 2150 x 57 - AL DR x AL FR

1	Continuous Hinge	SL27 HD CL LL x 2111	
1	Electric Strike	9600-630-LBM- 2005M3	630-LBM
1	Power Supply	Power Supply - By Security Contractor	
1	Proximity Reader	Proximity Reader - By Security Contractor	
1	Rim Housing	320475 H 26 Y0ZN 626	626
1	Cylinder Collar	94-0188 626	626
1	Construction Core	3201CCW B1 R1 P UN 6 PIN 626	
1	Exit Device	31-AD8504 J L/Trim LHR LC C32D 1100	C32D
1	Permanent Core	Permanent Core - By City of Brampton	
1	Door Pull	GSH 1180-2 #4B Mtg (57mm Dr) C32D	C32D
1	Surface Closer	351 P10 TB EN RH	EN
1	Drop Plate	351D EN	EN
1	Blade Stop	581-2 EN	EN
1	Overhead Door Stop	698S C26D LHR (90°)	C26D
1	Wall Door Stop	GSH 250B C32D	C32D
1	Threshold	CT-46 x 1100	
1	Weatherstripping	Weatherstrip - By Aluminum Door Supplier	
1	Door Sweep	W-24S-CA x 1100	CA
1	Door Contact	Door Contact - By Security Contractor	
1	Opening Schematic	Opening Schematic - By UC Access	

Heading #020

1 Single door 123, CORRIDOR 122 TO MED. STOR 123 RH

950 x 2150 x 45 - HM DR x HM FR - 45 MIN

3	Standard Hinge	LH1368CB 114 x 101 C26D	C26D
1	Lockset	8204 LNL C32D RH	C32D
1	Mortise Housing	320275 26 Z20 N	626
1	Cylinder Collar	94-0188 626	626
1	Construction Core	3201CCW B1 R1 P UN 6 PIN 626	
1	Permanent Core	Permanent Core - By City of Brampton	
1	Electric Strike	1006CLB-630-LBM- 2005M3	630-LBM
1	Power Supply	Power Supply - By Security Contractor	
1	Proximity Reader	Proximity Reader - By Security Contractor	
1	Surface Closer	1431 O TB EN RH (Pull)	EN
1	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D
1	Wall Door Stop	GSH 250B C32D	C32D
1	Weatherstripping	W-66-BL x 5300	BL
1	Door Sweep	W-24S-CA x 950	CA
1	Door Contact	Door Contact - By Security Contractor	
1	Opening Schematic	Opening Schematic - By UC Access	

Heading #021

1 Single door 124A, APPARATUS BAY 131 TO DECON. 124 RH

950 x 2150 x 45 - HM DR x HM FR - 60 MIN

CONFIRM HARDWARE & MODE OF OPERATION

3	Standard Hinge	LH1399CB 114 x 101 C32D	C32D
1	Lockset	8204 LNL C32D RH	C32D
1	Mortise Housing	320275 26 Z20 N	626
1	Cylinder Collar	94-0188 626	626
1	Construction Core	3201CCW B1 R1 P UN 6 PIN 626	
1	Permanent Core	Permanent Core - By City of Brampton	
1	Electric Strike	1006CLB-630-LBM- 2005M3	630-LBM
1	Power Supply	Power Supply - By Auto Door Operator Supplier	
1	Auto Operator	7000 628 (Pull)	628
2	Push Button	CM-46/4 C32D	C32D
1	Relay	CX-33	
1	Push To Lock	CM-45/85SSE1 4 1/2"	
1	Push For Assistance	CM-450R/12	
1	Assistance Requested Light	CM-AF50/SO	
1	Assistance Required Light	CM-AF141SO	
1	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D
1	Wall Door Stop	GSH 250B C32D	C32D
1	Weatherstripping	W-66-BL x 5300	BL
1	Door Sweep	W-24S-CA x 950	CA

Heading #022

1 Single door 124B, CORRIDOR 122 TO DECON. 124 RH

950 x 2150 x 45 - HM DR x HM FR

CONFIRM HARDWARE & MODE OF OPERATION

3	Standard Hinge	LH1399CB 114 x 101 C32D	C32D
1	Lockset	8204 LNL C32D RH	C32D
1	Mortise Housing	320275 26 Z20 N	626
1	Cylinder Collar	94-0188 626	626
1	Construction Core	3201CCW B1 R1 P UN 6 PIN 626	
1	Permanent Core	Permanent Core - By City of Brampton	
1	Electric Strike	1006CLB-F-630-LBM- 2005M3	630-LBM
1	Power Supply	Power Supply - By Auto Door Operator Supplier	
1	Auto Operator	7000 628 (Pull)	628
2	Push Button	CM-46/4 C32D	C32D
1	Relay	CX-33	
1	Push To Lock	CM-45/85SSE1 4 1/2"	
1	Push For Assistance	CM-450R/12	
1	Assistance Requested Light	CM-AF50/SO	
1	Assistance Required Light	CM-AF141SO	
1	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D
1	Wall Door Stop	GSH 250B C32D	C32D

Heading #023

1 Single door 125A, APPARATUS BAY 131 TO GEAR LAUNDRY 126 RH

950 x 2150 x 45 - HM DR x HM FR - 60 MIN

3	Standard Hinge	LH1399CB 114 x 101 C32D	C32D
1	Latchset	8215 LNL C32D RH	C32D
1	Surface Closer	1431 O TB EN RH (Pull)	EN
1	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D
1	Wall Door Stop	GSH 250B C32D	C32D
1	Weatherstripping	W-66-BL x 5300	BL
1	Door Sweep	W-24S-CA x 950	CA

Heading #024

1 Single door 125B, CORRIDOR 106 TO CLEAN/LAUNDRY 125 RH

950 x 2150 x 45 - HM DR x HM FR

3	Standard Hinge	LH1399CB 114 x 101 C32D	C32D
1	Latchset	8215 LNL C32D RH	C32D
1	Surface Closer	1431 O TB EN RH (Pull)	EN
1	Drop Plate	1431D EN	EN
1	Overhead Door Stop	698S C26D RH (90°)	C26D
1	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D

Heading #025

1 Single door 126, APPARATUS BAY 131 TO GEAR LAUNDRY 126 RH

1 Single door 127B, GEAR LAUNDRY 126 TO BUNKER GEAR 127 LH

1050 x 2150 x 45 - HM DR x HM FR

2	Continuous Hinge	SL24 HD CL LL x 2111	
1	Latchset	8215 LNL C32D LH	C32D
1	Latchset	8215 LNL C32D RH	C32D
1	Surface Closer	351 O TB EN LH (Pull)	EN
1	Surface Closer	351 O TB EN RH (Pull)	EN
2	Armor Plate	GSH 80A C32D (838 x 1010) TM - Confirm Plate Size	C32D
2	Wall Door Stop	GSH 250B C32D	C32D

Heading #026

1 Single door 127A, APPARATUS BAY 131 TO BUNKER GEAR 127 SLIDER

2500 x 2350 x 45 - AL DR x AL FR

POWER OPERATED SLIDING DOOR

HARDWARE COMPLETE BY ALUMINUM DOOR SUPPLIER

Heading #027

1 Single door 128, APPARATUS BAY 131 TO TOOL 128 RH
1 Single door 130, APPARATUS BAY 131 TO HOSE TOWER 130 RH

950 x 2150 x 45 - HM DR x HM FR

CONFIRM HARDWARE

6	Standard Hinge	LH1399CB 114 x 101 C32D	C32D
2	Latchset	8215 LNL C32D RH	C32D
2	Surface Closer	1431 O TB EN RH (Pull)	EN
2	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D
2	Wall Door Stop	GSH 250B C32D	C32D

Heading #028

1 Single door 129, APPARATUS BAY 131 TO COMPR 129 LH

950 x 2150 x 45 - HM DR x HM FR

3	Standard Hinge	LH1368CB 114 x 101 C26D	C26D
1	Lockset	8204 LNL C32D LH	C32D
1	Mortise Housing	320275 26 Z20 N	626
1	Cylinder Collar	94-0188 626	626
1	Construction Core	3201CCW B1 R1 P UN 6 PIN 626	
1	Permanent Core	Permanent Core - By City of Brampton	
1	Electric Strike	1006CLB-630-LBM- 2005M3	630-LBM
1	Power Supply	Power Supply - By Security Contractor	
1	Proximity Reader	Proximity Reader - By Security Contractor	
1	Surface Closer	1431 O TB EN LH (Pull)	EN
1	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D
1	Wall Door Stop	GSH 250B C32D	C32D
1	Door Contact	Door Contact - By Security Contractor	
1	Opening Schematic	Opening Schematic - By UC Access	

Heading #029

1 Single door 131A, CORRIDOR 122 TO APPARATUS BAY 131

950 x 2150 x 45 - HM DR x HM FR - 60 MIN

CONFIRM HARDWARE

3	Standard Hinge	LH1368CB 114 x 101 C26D	C26D
1	Lockset	8204 LNL C32D LH	C32D
1	Mortise Housing	320275 26 Z20 N	626
1	Cylinder Collar	94-0188 626	626
1	Construction Core	3201CCW B1 R1 P UN 6 PIN 626	
1	Permanent Core	Permanent Core - By City of Brampton	
1	Electric Strike	1006CLB-630-LBM- 2005M3	630-LBM
1	Power Supply	Power Supply - By Security Contractor	
1	Proximity Reader	Proximity Reader - By Security Contractor	
1	Surface Closer	1431 O TB EN LH (Pull)	EN
1	Kick Plate	GSH 80A C32D (200 x 910) TM	C32D
1	Wall Door Stop	GSH 250B C32D	C32D
1	Weatherstripping	W-66-BL x 5300	BL
1	Door Sweep	W-24S-CA x 950	CA
1	Door Contact	Door Contact - By Security Contractor	
1	Opening Schematic	Opening Schematic - By UC Access	

Heading #030

1 Single door 131B, EXTERIOR FROM APPARATUS BAY 131 LHR

950 x 2150 x 45 - HM DR x HM FR

CONFIRM HARDWARE

1	Continuous Hinge	SL24 HD CL LL x 2111	
1	Rim Housing	320475 H 26 Y0ZN 626	626
1	Cylinder Collar	94-0188 626	626
1	Construction Core	3201CCW B1 R1 P UN 6 PIN 626	
1	Permanent Core	Permanent Core - By City of Brampton	
1	Exit Device	31-8804 J L/Trim LHR LC C32D 950	C26D/US32D
1	Electric Strike	9600-630-LBM- 2005M3	630-LBM
1	Power Supply	Power Supply - By Security Contractor	
1	Proximity Reader	Proximity Reader - By Security Contractor	
1	Door Pull	GSH 1180-2 TB C32D	C32D
1	Surface Closer	351 P10 TB EN RH	EN
1	Overhead Door Stop	698S C26D LHR (110°)	C26D
1	Kick Plate	GSH 80A C32D (200 x 900) TM	C32D
1	Threshold	CT-46 x 950	
1	Head Seal	W-20N-CA x 950 (Install Prior To Closer)	CA
2	Jamb Seal	W-16N-CA x 2150	CA
1	Door Sweep	W-24S-CA x 950	CA
1	Door Contact	Door Contact - By Security Contractor	
1	Opening Schematic	Opening Schematic - By UC Access	

Heading #031

1 Single door FD-1, EXTERIOR FROM APPARATUS BAY 131 FOLD
1 Single door FD-2, EXTERIOR FROM APPARATUS BAY 131 FOLD
1 Single door FD-3, EXTERIOR FROM APPARATUS BAY 131 FOLD
1 Single door FD-4, EXTERIOR FROM APPARATUS BAY 131 FOLD

4270 x 4270 x __ - - DR x - FR

FOUR FOLD FIRE STATION DOOR

HARDWARE COMPLETE BY DOOR SUPPLIER

Heading #032

1 Single door OH-1, EXTERIOR FROM APPARATUS BAY 131	OH
1 Single door OH-2, EXTERIOR FROM APPARATUS BAY 131	OH
1 Single door OH-3, EXTERIOR FROM APPARATUS BAY 131	OH
1 Single door OH-4, EXTERIOR FROM APPARATUS BAY 131	OH

4270 x 4270 x 35 - - DR x - FR

HIGH SPEED OVERHEAD DOOR

HARDWARE COMPLETE BY DOOR SUPPLIER

Heading #033

1 Elevation MISC-1

__ x __ x __ - - DR x - FR

MISCELLANEOUS

1	Key Cabinet	LD1200 (30 Key Capacity)
6	Cut Key	Operating Key
3	Cut Key	Control Key

NOTES:

1. Read Colour Schedule in conjunction with full project documentation. See drawing A600 for Room Finish Schedule.
2. Abbreviations are located after the main body of this schedule.
3. See drawing A600 for Floor Finish, wall paint & tile accents and locations of wall protection.
4. It is the sub trades' responsibility to review Colour & Material Schedule in conjunction with full project documentation and bring to the attention of the consultant any discrepancies, errors or inconsistencies. Those proceeding with work are responsible to correct mistakes.
5. Typical walls and painted ceilings are PT-1.
6. Painted interior doors and frames are PT-2 unless otherwise noted.
7. SPS window stools are SPS-1 Refer to details.
8. North and East walls in Janitor room are clad in FRP to a height of approx. 1500 mm.
9. Tile setting materials are Kiesel as per specifications. Grout colours selected from manufacturer's full colour range.

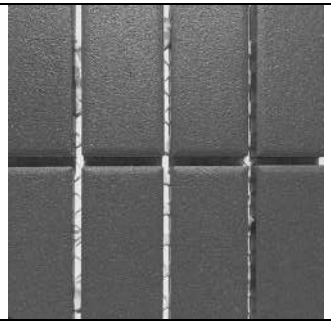
2 SCHEDULE

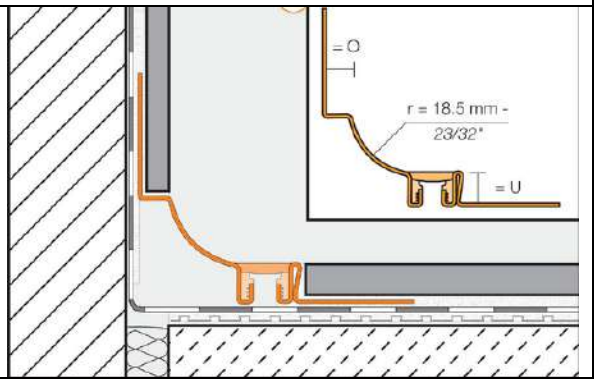
06 20 00 Finish Carpentry & Architectural Woodwork

Wood – Bench Seats (Locker Room 142) **WD-1**	**WD-1 –** Wood bench seat Species: Eastern white cedar Dimensions: Refer to details. Finish: ST-1	
Plastic Laminate Millwork (Kitchen/Meeting 117 cabinets) **PL-1**	**PL-1 –** Lamitech HPL & Compact Laminate Colour: 1465 (LG) Grey Cedar Finish: LG (Grain Texture) Grain Direction: Vertical Doors & Drawer fronts on Cabinets to be Lamitech Compact Laminate (Dunleavy Cordun), double faced board 12mm thick.	
Plastic Laminate Millwork (Dorms 107 cubbies, Laundry 125 cabinets & base, Kitchen cabinets base) **PL-2**	**PL-2 -** Lamitech HPL & Compact Laminate Colour: 2297 Fossil Finish: MT (Matte) Grain Direction: Vertical Doors & Drawer fronts on Cabinets as well as cabinet base to be Lamitech Compact Laminate (Dunleavy Cordun), double faced board 12mm thick.	

Quartz Countertop (Community Café counters, island and banquette cap) **QTZ-1**	**QTZ-1** – Cambria Colour: Montana Midnight Thickness: 20mm Edge Profile: Square – 40mm Finish: Matte	
Solid Polymer Surfacing (Window Stools, Counter in 125 Clean Laundry) **SPS-1**	**SPS-1** – Avonite Colour: Summit 8905 Thickness: 12mm Finish: Satin	
Cabinet/Drawer Pull (Kitchen/Meeting 117) **H-1**	**H-1**– Richelieu Contemporary Stainless Steel Cabinet Pull Model: BP500160195 Finish: Brushed Nickel Dimensions: Centre to centre 160mm (185 mm overall)	
Drawer/Cabinet Pull (Clean Laundry 125) **H-2**	**H-2**– Richelieu Contemporary Metal Cabinet Pull Model: BP228804900 Finish: Matte Black Dimensions: Centre to centre 4”(110 mm overall)	

09 30 00 Tile

Porcelain Floor Tile	**T-1** – Reserved	
Porcelain Floor Tile (L1 corridors, Universal washroom) **T-2**	**T-2** – Stone Tile Series: MATIERES DE REX Colour: GRIS (Texture: Matte) Size: 300 mm x 600 mm & 600 x 600 mm; Thickness: 10mm Installation pattern: Stacked, refer to drawings Dynamic Coefficient of Friction (wet) .74 Keisel grout colour: TBD	
Ceramic Wall Tile (Shower and washroom walls) **T-3**	**T-3** – Stone Tile Series: Progetto Ceramiche Colour: Perla (gloss finish) Size: 100mm x 400mm Installation pattern: Stacked, horizontal orientation Grout width: 3mm Keisel grout colour: TBD	
Porcelain Mosaic Floor tile (shower floors, fixture walls in washrooms & showers) **T-4**	**T-4** – Stone Tile Series: STI Mosaico Colour: Mid Grey (unglazed/matte) Size: 23mm x 48mm (300 x300 mesh) For shower floor w/ Schluter cove profile	

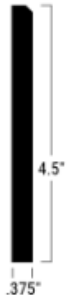
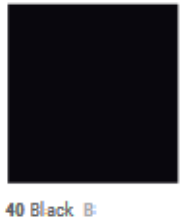
Accessory Trims (Edge Protection profile for floor & wall tile) **TT-1**	**TT-1 -** Edge Protection - Schluter Model for floors: Schiene Finish: E - Stainless 304 Model for walls: Jolly Finish: AE – Satin Anodized Aluminum Use at transitions, corners & exposed edges/terminations of all tile finishes.	
Accessory Trims (Cove-shaped profile for floor/wall transition in shower) **TT-2**	**TT-2** – Stainless steel cove-shaped profile – Schluter Model: Dilex-HKS Finish: E - Stainless 304 with Thermoplastic movement zone G = Grey Use at junction of floor tile and wall tile within showers.	

09 51 00 Acoustical Ceiling Tiles

Suspended Acoustic Ceiling (Typical ceilings) **ACT-1**	**ACT-1** – CGC Halcyon ClimaPlus Panel Size: 610mm x 1220mm Edge: Square; Colour: Flat White Suspension Grid: 15/16” Tee, white OR **ACT-1** – Armstrong Optima Panel	SQ

	Size: 610mm x 1220mm Edge: Square; Colour: Flat White Suspension Grid: 15/16” Tee, white	

09 65 13 Resilient Base and Accessories

Resilient Wall Base (with LINO) **RB-1**	**RB-1** Tarkett/Johnsonite Millwork Wall Base Profile: Mandalay MW-TB1-H Colour: Peppercorn Height: 114 mm (4.5”) Thickness: 9.5 mm (.375”)	
Rubber Wall Base (with SDT, sealed concrete) **RB-2**	**RB-2** Tarkett/Johnsonite Traditional Wall Base with Toe Colour: 40 Black Height: 4” H X 0.125” Thick	

Rubber Wall Base (with RSF) **RB-3**	**RB-3** Tarkett/Johnsonite Millwork Wall Base Profile: Mandalay MW-40-H6 Colour: 40 Black Height: 152 mm (6”) Thickness: 9.5 mm (.375”)	
Accessories (Transitions under resilient flooring as required)	Tarkett Subfloor Leveler System LS-40 Reducer – height and width to suit Length: 1200 mm	No image

09 65 16 Resilient Sheet Flooring

Linoleum (Dorms 107) **LINO-1**	**LINO-1** – Forbo Marmoleum Style: Striato 2.5mm thick linoleum sheet (2m wide roll) Colour: 3573 Trace of Nature Surface Finish: Topshield (factory applied) Slip resistance: R9	

09 65 19 Resilient Tile Flooring

Static Dissipative Tile (IT room) **SDT-1**	**SDT-1** - Armstrong Excelon Static Dissipative Tile (SDT), 305 x 305 mm Colour: Armor Gray 51951 Installed as per manufacturers directions c/w grounds and conductive adhesive.	

09 65 66 Resilient Sports Flooring

Resilient Sports Flooring (Fitness Room 116) **RSF-1**	**RSF-1 –** Ecore Athletic Everlast UltraTile Rubber floor tile with high density wear layer. Size: 24” x 24” x 1” thick Colour: EL15A Steel Appeal 2	

09 67 23 Epoxy Flooring

Epoxy Flooring (Locker Room, Decon, Janitor, Clean Laundry) **EPX-1**	**EPX-1** Colour to be selected from Manufacture’s full range	

09 91 00 Painting

Painting (Typical walls) **PT-1** **EP-1**	**PT-1 /EP-1** – Dulux Colour: DLX1007-1 Willow Springs Finish: Eggshell for walls; Flat for ceilings Epoxy paint as per schedule.	
Painting (Typical metal door frames) **PT-2**	**PT-2** – Dulux Colour: DLX1007-7 Bark Finish: semi-gloss for metal frames	
Painting (Painted bulkheads and ceilings) **PT-3**	**PT-3** – Dulux Colour: DLX1025-1 Commercial White Finish: Flat	
Painting (Accent Walls as noted) **PT-4**	**PT-4** – Dulux Colour: DLX1158-6 Blue Oasis Finish: Eggshell for walls	
Painting (Painted Doors) **PT-5**	**PT-5** – Dulux Colour: DLX1007-4 Hot Stone Finish: semi-gloss for metal doors	
Painting (Accent Walls in Dorm 107) **PT-6**	**PT-6** – Dulux Colour: DLX1122-5 Dill Finish: Eggshell for walls	

Painting (Accent walls in Fitness) **PT-7**	**PT-7**– Dulux Colour: DLX1222-5 Lime Green Finish: Eggshell for walls	
Painting (Accent walls in Locker Room) **PT-8**	**PT-8** – Dulux Colour: DLX1158-5 Cosmopolitan Finish: Eggshell for walls	
Painting (Wood Benches) **ST-1**	**ST-1 –** Sansin Interior Stain Colour: Buttermilk 3406 Note: Submit colour sample on specified wood species	

10 80 00 Miscellaneous Specialties

Corner Guards (as noted) **CG-1**	**CG-1** – Construction Specialties CO-8 Stainless steel corner guard Size: 3 ½" x 3 ½" Finish: #4 Satin finish	

10 51 00 Lockers

Lockers	ASM (Anthony Steel Manufacturing) Lockers Type 1 (Tactical Gear Locker within Locker Rm): A124 Pearl Grey body with A385 Ocean doors	 PEARL GREY A124  OCEAN A385
	Bunker Gear Lockers (racks and mesh lockers) Ready Rack by Groves Incorporated Colour: Red (Standard)	 Std

12 21 23 Window Coverings

Roller Shades	Refer to specifications. Shade cloth colour to be selected from Manufacturer's standard range for solar shades and black-out shades.	No image

3 ABBREVIATIONS

*	Refer to Remarks	C.T.C.	Centre to Centre	FIN.	Finish
ACT	Acoustic Ceiling Tile	C/W	Complete With	FLR	Floor
AFF	Above Finished Floor	CP	Composite Panels	FR	Fire Retardant
ALUM	Aluminum			FRP	Fiberglass Reinforced
ARCH	Architectural	DIA	Diameter		Panels
A/V	Audio Visual	DIM	Dimensions		
		DM	Decorative Metals	GALV.	Galvanized
BF	Barrier Free	DN	Down	GB	Grab Bar
BLK	Block	DTL	Detail	GL	Glazing
BLKG	Blocking	DWGS	Drawings	GWB	Gypsum Wall Board
BLKHD	Bulkhead				
BN	Bullnose	E.J.	Expansion Joint	H	Hardware
B/O	Black-out (blind)	ELECT	Electrical	HD	Hand Dryer
CBD	Cement Board	ELEV	Elevator	HDR	Hand Rail
CG	Corner Guard	EP	Epoxy Paint	HDWD	Hardwood
CH	Coat Hook	EPX	Epoxy Flooring System	HM	Hollow Metal
C/L	Centre Line	EQ.	Equal	HORIZ.	Horizontal
CLG	Ceiling	EXP	Exposed	HR	Hour
COL.	Column	EXIST.	Existing	HT	Height
CONC	Concrete	EXT	Exterior		
CONC-POL	Concrete, polished			INSUL.	Insulation
CONC-S	Concrete, sealed	FD	Floor Drain	JT	Joint
CONT.	Continuous	FE	Fire Extinguisher	L	Lighting
CPT	Carpet	FEC	Fire Extinguisher Cabinet	LVT	Luxury Vinyl Tile
CRS	Course	FF	Factory Finish		
M	Mirror	REQ'D	Required	U.N.O.	Unless Noted Otherwise

MAT	Material	RH	Robe Hook	UR	Urinal
MAX.	Maximum	RF	Resilient Flooring	U/S	Underside
MECH	Mechanical	RSF	Resilient Sports Flooring	URETH	Urethane
MG	Mirror	RT	Rubber Tile		
MIN.	Minimum			V.B.	Vapour Barrier
MM	Millimeters	SDT	Static Dissipative Tile	VCT	Vinyl Composite Tile
MS	Metal Stud	SEAL	Sealer	VERT.	Vertical
MTL	Metal	S/L	Sidelight	VEST	Vestibule
		SPEC'D	Specified	VP	Veneer Panel
N.I.C.	Not In Contract	SPS	Solid Polymer Surfacing		
N.T.S.	Not To Scale	S.S.	Stainless Steel	W/	With
		ST	Stain	WB	Wood Base
O.C.	On Centre	STN	Stone	WC	Wallcovering
O.H.	Overhead	STRUCT.	Structural	WD	Wood
OWSJ	Open Web Steel Joist	SUSP.	Suspended	WD SLT	Wood Slat
				WR	Washroom
P.WD	Plywood	T	Tile	WT	Wood Trim
PL	Plastic Laminate	T-C	Tile – Ceramic wall tile	WV	Wood Veneer
PREFIN.	Prefinished	T-P	Tile – Porcelain		
PREMNUF	Premanufactured	T-M	Tile – Mosaic		
PT	Paint	TBC	To be confirmed		
PU	Polyurethane Sealer	TBB	Tile Backer Board		
		TC	Toilet Compartments		
R	Radius	TRANSP.	Transparent		
RB	Resilient Base	TYP	Typical		
RBB	Rubber Base				

END OF SCHEDULE

APPENDIX A1

MACH ALERT STATION CONTROLLER INSTALLATION GUIDE

Mach Alert, Inc.
503 E. Jackson Street, Suite 149
Tampa, FL 33602

Station Controller
Installation Guide

The following installation guideline is for typical Fire Station Alerting Systems utilizing Mach Alert, Inc. (MAI) equipment.

- **Station Controller**
- **Lighting Controller**
- **Audio Interface**
- **Other MAI-Supplied Equipment**

Refer to the particular system configuration diagrams applicable to the type of FSA system for the target location. This manual provides a general guideline.

Since all Fire Station Alerting systems are customized to some extent, this guide will serve as a general set of instructions for the various components such as the FSA Station Controller (SC) rack, audio, lighting, zone switches and other system equipment.

Rev. Date: 2018-11-12 v023

Mach Alert, Inc.
503 E. Jackson Street, Suite 149
Tampa, FL 33602

Table of Contents

Warnings and Hazards Caution - Lethal Voltages. The Station Controller and other FSA equipment operate with voltages which can be lethal. This is not restricted to only 110/120 Voltage AC feeds, but also includes 70 Volt audio systems used for Public Address (PA) systems and other possible lethal voltages within racks and cabinets. MAI does not assume responsibility for any damage to property or injury to persons as the result of lack of precautions and proper installation techniques to avoid electrocution and other injuries.

Caution - Falling and Tripping Hazards. Many installation sites include working on ladders, scaffolds, or near locations where loss of balance can cause serious or lethal injuries. Observe all precautions for maintaining balance with safety-approved ladders appropriate for the installation work being conducted.

Installation Planning and Staging

Since almost all Fire Station Alerting systems are customized to some extent, this guide will serve as a general set of instructions for the various components such as the ***MACH Alert FSAA*** Station Controller enclosure, audio connections, lighting setup, zone selection switches and other system equipment.

Prior to commencing and installation of FSA equipment such as the Station Controller (SC), there are a number of planning steps and review of systems information before commencing.

- Bill of Materials (BOM) specific to the installation.
- Reference Documents, Manuals and Data Sheets for specific equipment or sub-assemblies.
- Location Plan for equipment and general interconnection schemes.
- Wiring, cable routing and connection termination information for devices and equipment used in the installation process.
- Pertinent information include SC panel installation location, radio connections, PA amplifier connections, speaker locations and zones (room or areas), alerting lights and zone selection switches, network connections and auxiliary electrical devices.

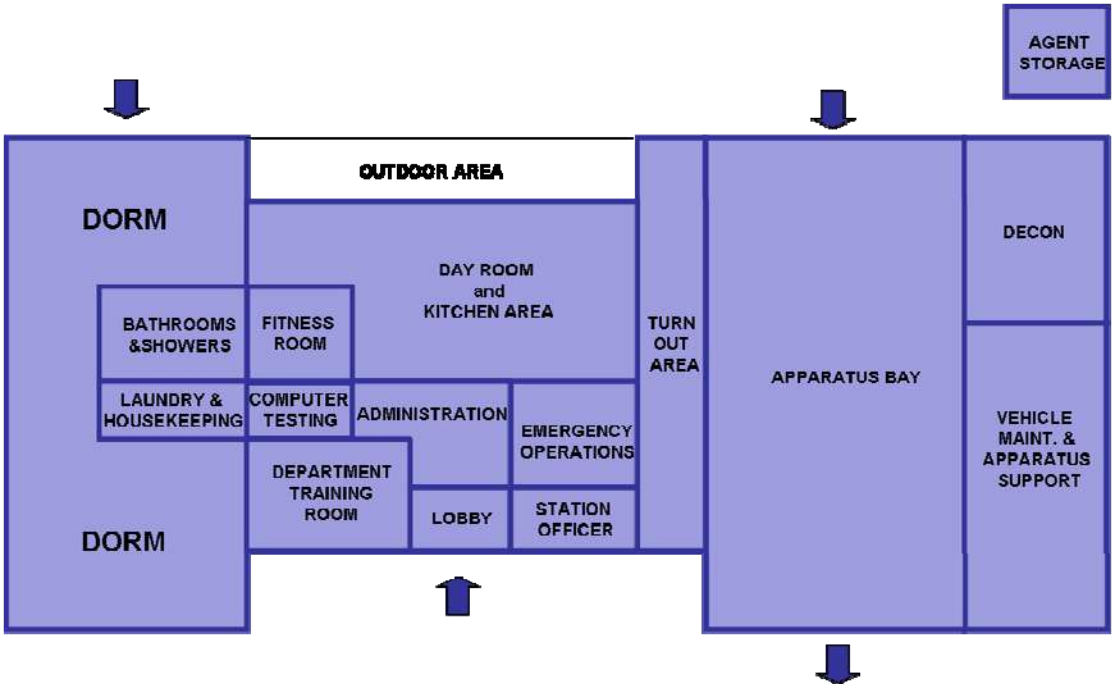
Mach Alert, Inc.
503 E. Jackson Street, Suite 149
Tampa, FL 33602

Installation Guideline

The following installation guideline is for typical installations. Refer to the particular system configuration diagrams applicable to the type of ***MACH Alert FSAA*** system for the target location and connections required.

1. Typical Fire Station Layout

The diagram below shows the typical areas of a fire station.



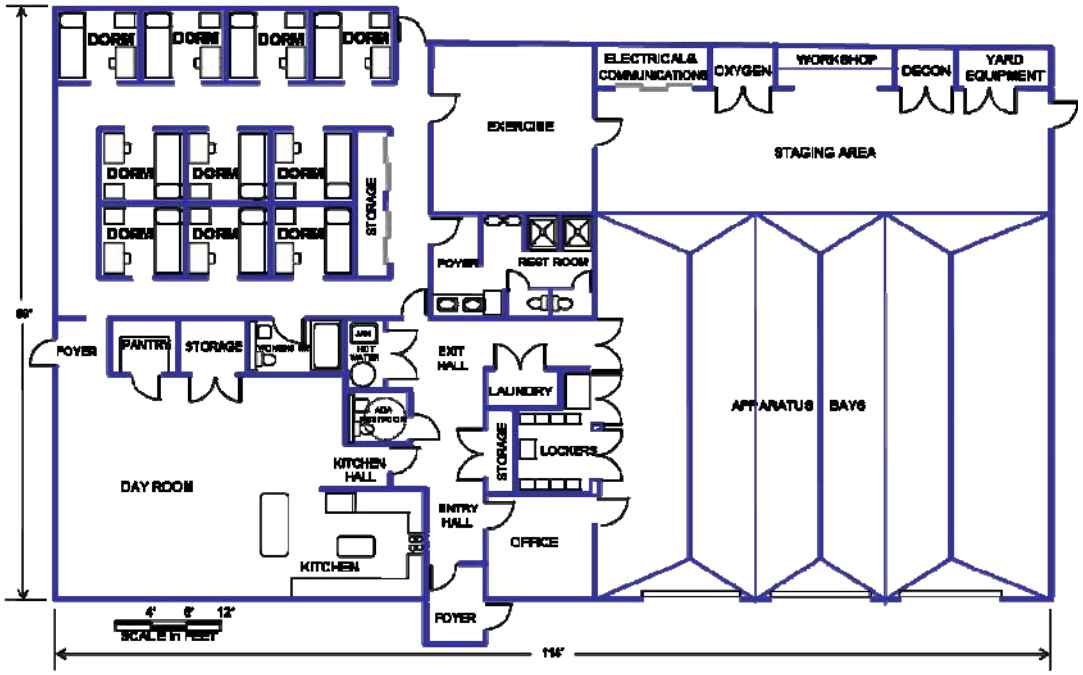
Primary Features of the typical fire station include:

- **Apparatus Bay** - where fire trucks, EMT ambulances, and other vehicles are stored.
- **Day Room and kitchen area** - where firefighters spend much of the day when not dispatched.
- **Turn Out area** - where firefighters have lockers and protective gear and outfits.
- **Training room, Offices** - where responders may need to acknowledge vital alerts calls.
- **Dormitory Area** ("dorm") is also referred to as "**Bunk Rooms**" or "**Sleeping Quarters**"
- **Outside building areas** - where vehicle maintenance or other responders may be occupying.
- Other support areas

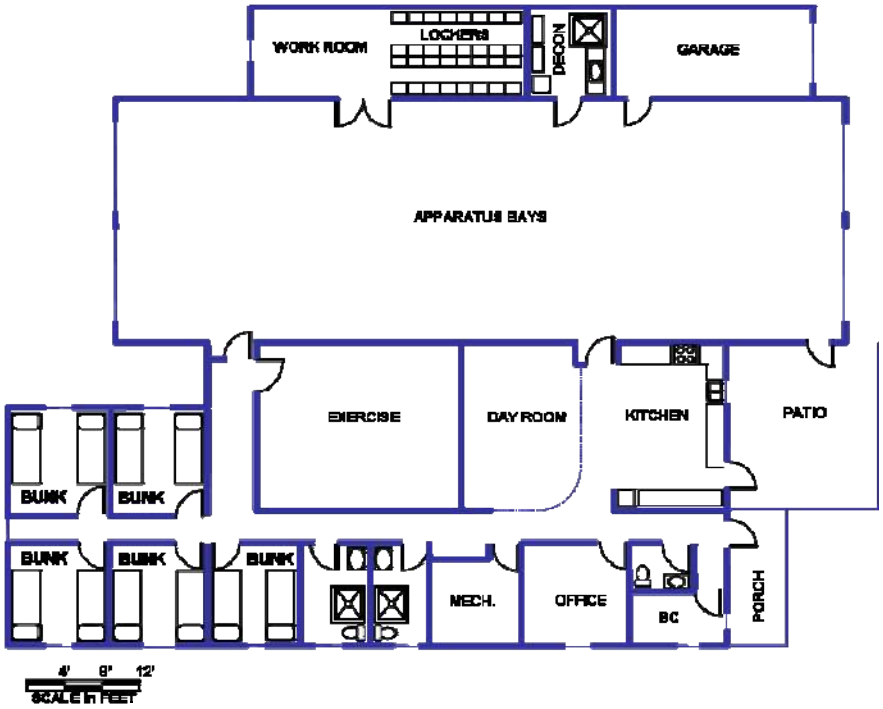
These primary areas are where the audio alerts and visual alert displays are placed to notify firefighters and EMT personnel of a needed incident response.

2. Actual Fire Station Floor Plan Samples

The following two diagrams show examples of actual fire station floor plans. Note the size and variation in layouts.



Fire Station Sample Floor Plan #1



Fire Station Sample Floor Plan #2

Mach Alert, Inc.
503 E. Jackson Street, Suite 149
Tampa, FL 33602

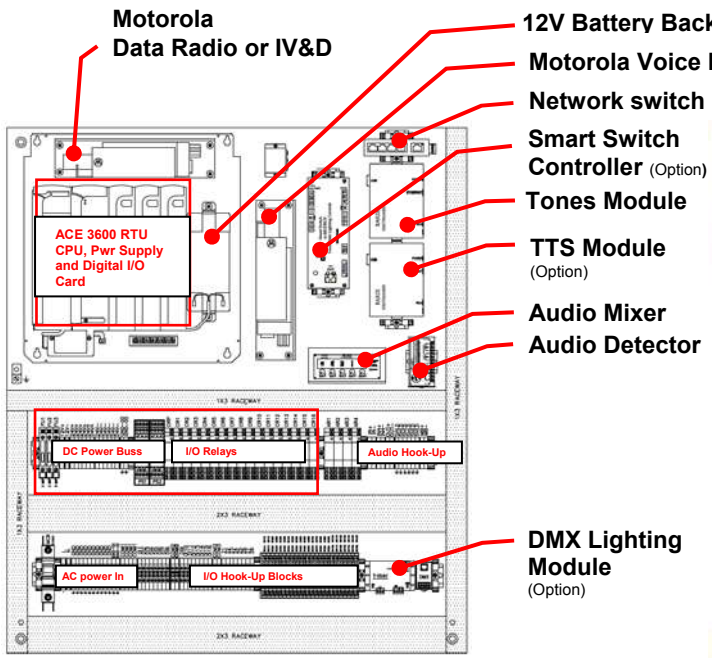
3. Installation Preparation - Identify Equipment

The *MACH Alert FSAA* - Fire Station Alerting and Automation installation typically consists of the following System Components.

SC - Station Controller

The Station Controller (SC) is a Motorola ACE3600-based high-performance RTU installed in a UL 508A certified NEMA-1 wall-mount industrial panel. The SC is located at each fire station typically in a communications utility room. The SC processes information to and from the AIC and FSAA Server, generates alert tones, and provides station audio control including an optional text-to-speech decoding. The Station Controller (SC) is a modular unit containing a Power Supply Modules, CPU Module, Barix audio Module, 32 DI/DO Module, 6.5 Ah Backup Battery, Motorola FM two-way radio, audio mixer with balanced line output. Optional zone selector switches, LED lighting controllers are available as options that connect to the Station Controller. Below is a Mechanical design view of the Station controller.

Station Controller



Mechanical Design Concept

Sample Installed Custom SC System

Mach Alert, Inc.
503 E. Jackson Street, Suite 149
Tampa, FL 33602

Installation of the Station Controller Equipment Cabinet

You must be a MR (Motorola Service Representative) field technician to interface to the FSAA system and terminal blocks to avoid damage to the Station Controller. Qualified Electrician may also be required to assist where needed.

The ***MACH Alert FSAA*** Station Controller will come pre-configured by MAI and supplied by Motorola or the FSAA contractor as part of the system equipment delivered to the installation site. Every Station Controller is factory wired and completely tested.

Physical installation requires solidly mounting the enclosure and connecting the 120VAC branch circuit and auxiliary circuits (PA audio, Alerting light and/or control circuits). Specific Job name and number Station Controller wiring diagrams are enclose inside each cabinet door. Please review these diagrams before installing the Station Controller.

⚠ CAUTION

Protect the cabinet from construction grit and metal chips to prevent malfunction or shortened life of the *MACH Alert FSAA* Station Controller.

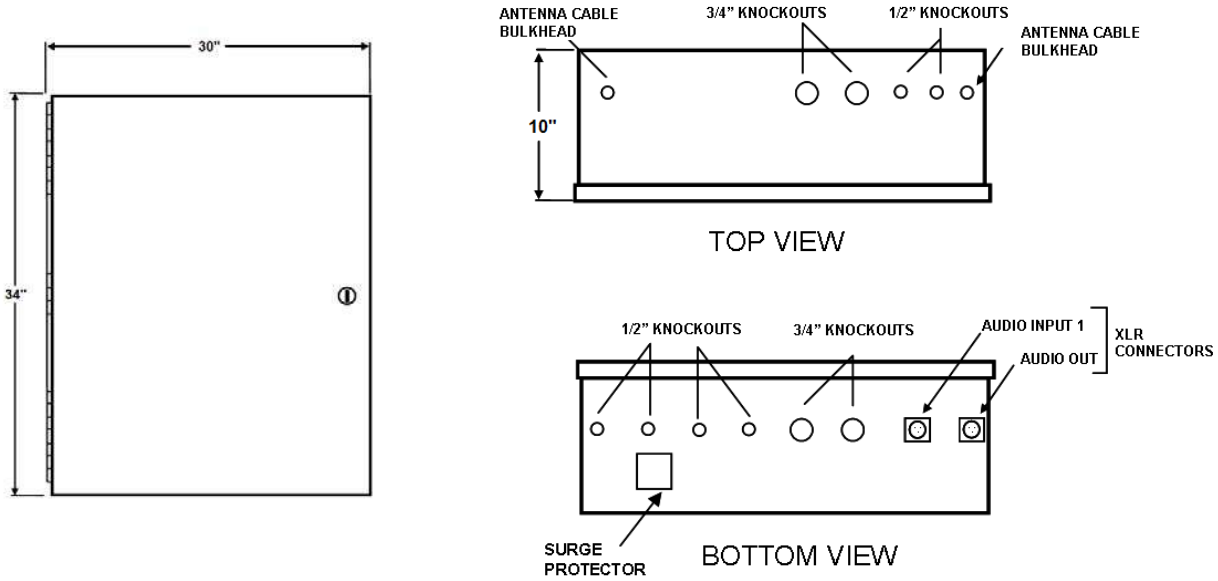
The dimensions of the *MACH Alert FSAA* Station Controller are an important consideration in determining proper location selection. Choose a location that offers a flat, rigid mounting surface capable of supporting the weight of the enclosed transfer switch equipment. Avoid locations that are moist, hot, or dusty. Mount the Station Controller vertically to a rigid supporting wall structure. Level all mounting points by using flat washers behind the holes to avoid distortion of the cabinet. It is recommended that Unistrut or similar mounting hardware be use to secure the FSAA cabinet to a wall. Check to make certain that there are no obstructions to allow clear opening access to the Station Controller door, or other hazards in the immediate area that could create a problem. If there are any doubts as to the suitability of the location, discuss it with your MAI / Motorola Project Manager Representative during the DDR (Detailed Design Review) process.

⚠ CAUTION

SINCE THE STATION CONTROLLER CABINET MUST BE LIFTED INTO PLACE FOR MOUNTING, BE CERTAIN THAT ADEQUATE RESOURCES ARE AVAILABLE FOR LISTING TO AVOID PERSONNEL INJURIES OR EQUIPMENT DAMAGE.

Mount the cabinet using Unistrut™ horizontally across the top and bottom of the enclosure for concrete or cinder block walls use ¼ inch drop anchors, three for each strut. For drywall, use toggle bolts, use 4 for each strut if location of wooden studs cannot be discovered.

Installation of the Station Controller Equipment Cabinet



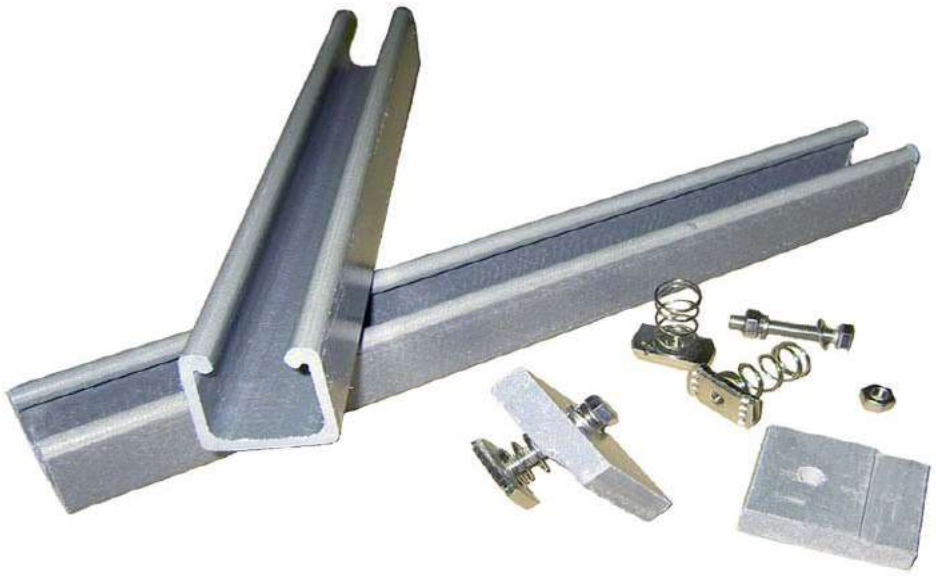


Fig. 1 – Station Controller Cabinet with Dimensions and Sample Unistrut Hardware

Examine the Station Controller (SC) configuration to discover the sub-assemblies and terminal blocks installed in the enclosure. In particular, note the following in the enclosure:

- AC Power requirements.
- Radios installed (option) - Antenna connections.
- Enhanced Audio Mixer (option)
- Station Alert lights requirements. (AC or DC)
- Station PA audio "Zone" connections.(optional)
- Bunk Room Speakers, Lights and Zone switch (option) connections and placement
- Note the Terminal block configuration as shown below (typical). Wiring to lighting, sensors, and other equipment will terminate on these blocks.

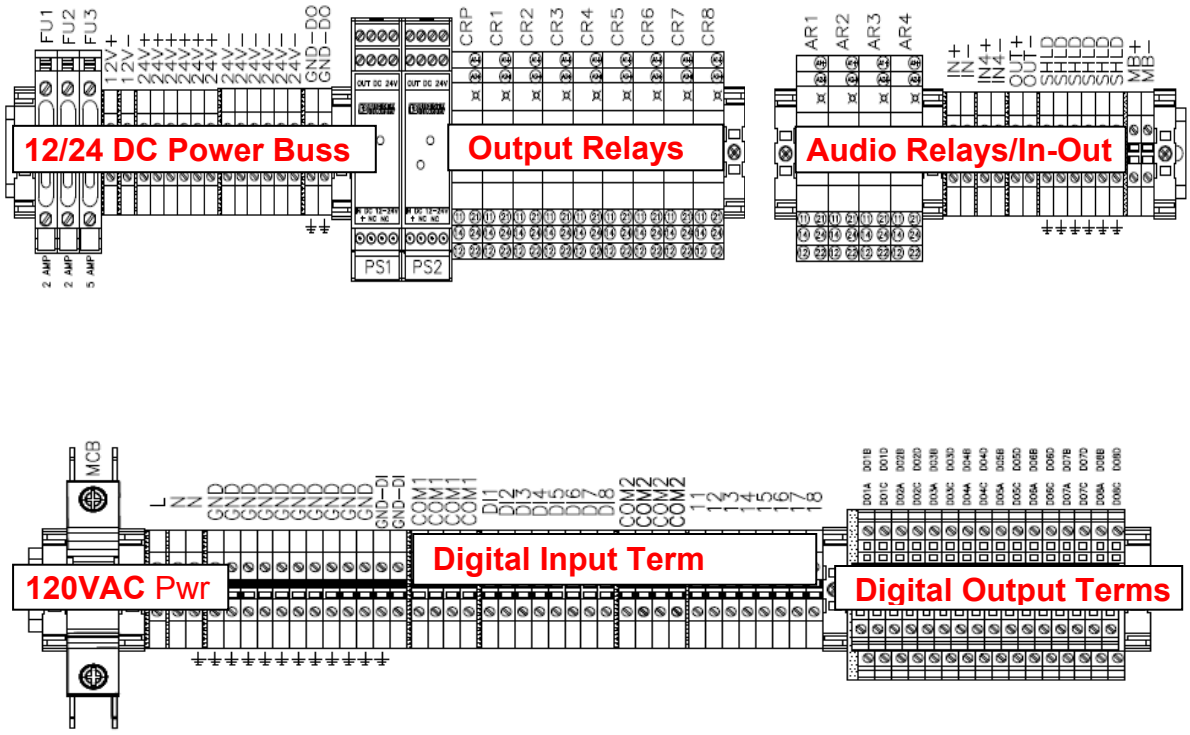


Fig. 2 - Typical Station Controller Terminal Block configuration (May vary with Options purchased)

Station Controller Line power connections.

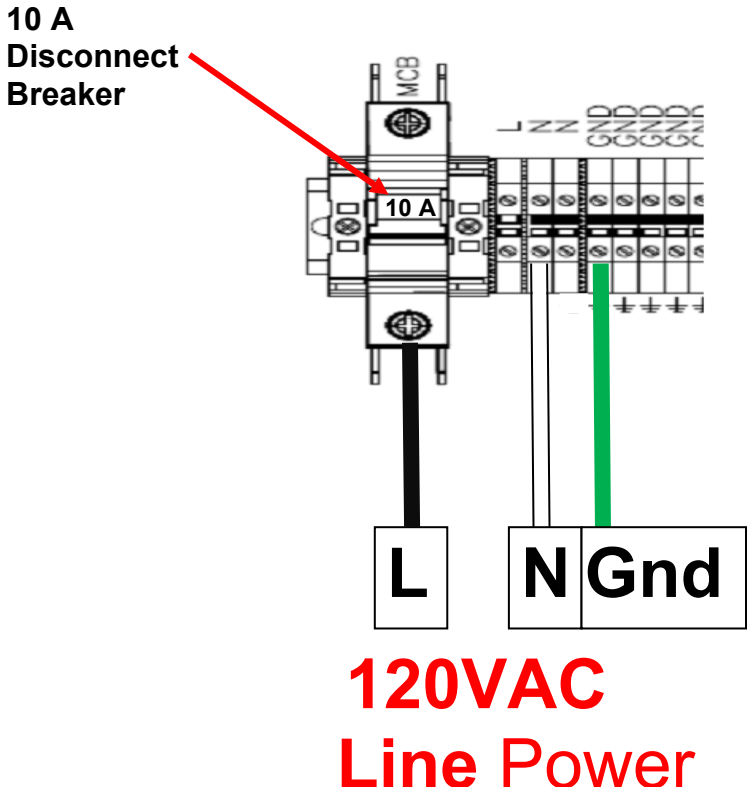


Fig. 3 - AC Power Termination

This circuit should be a dedicated protected 10 Ampere 120VAC branch circuit.
Note: All wiring should be done in accordance with local electrical codes and/or applicable National Electrical Code (70E) by a qualified person.

⚠ WARNING

Hazard of Electric Shock. Any installation involving this Station Controller must be effectively grounded in accordance with the National Electrical Code to eliminate any possible shock hazard.

⚠ WARNING

Hazard of Electric Shock. Disconnect all power before installing Station controller.

Mach Alert, Inc.
503 E. Jackson Street, Suite 149
Tampa, FL 33602

Station Controller I/O connections.

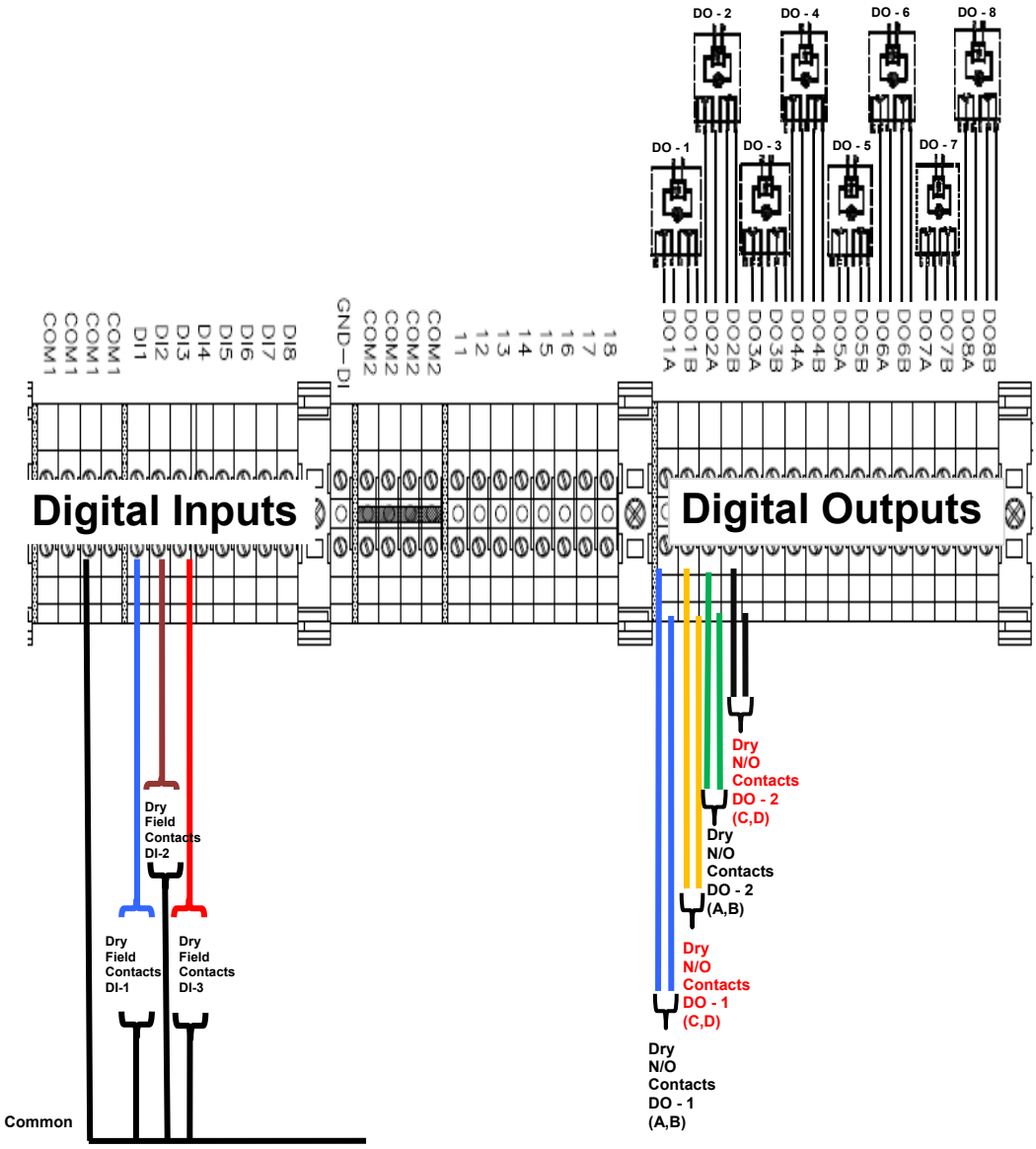


Fig. 4 - Station Controller digital Inputs and Outputs block terminations".

Station Controller Digital Input connections shown on the left must be dry contacts. Switches or devices monitored for contact closure are connected here.

Station Controller Digital Outputs shown on the right are two (2) dry N/O or N/C relay contacts rated for 125VAC or DC @ 6 amps per Digital output.

Mach Alert, Inc.
503 E. Jackson Street, Suite 149
Tampa, FL 33602

MACH Alert FSAA Station Controller typical Digital Output wiring sample.

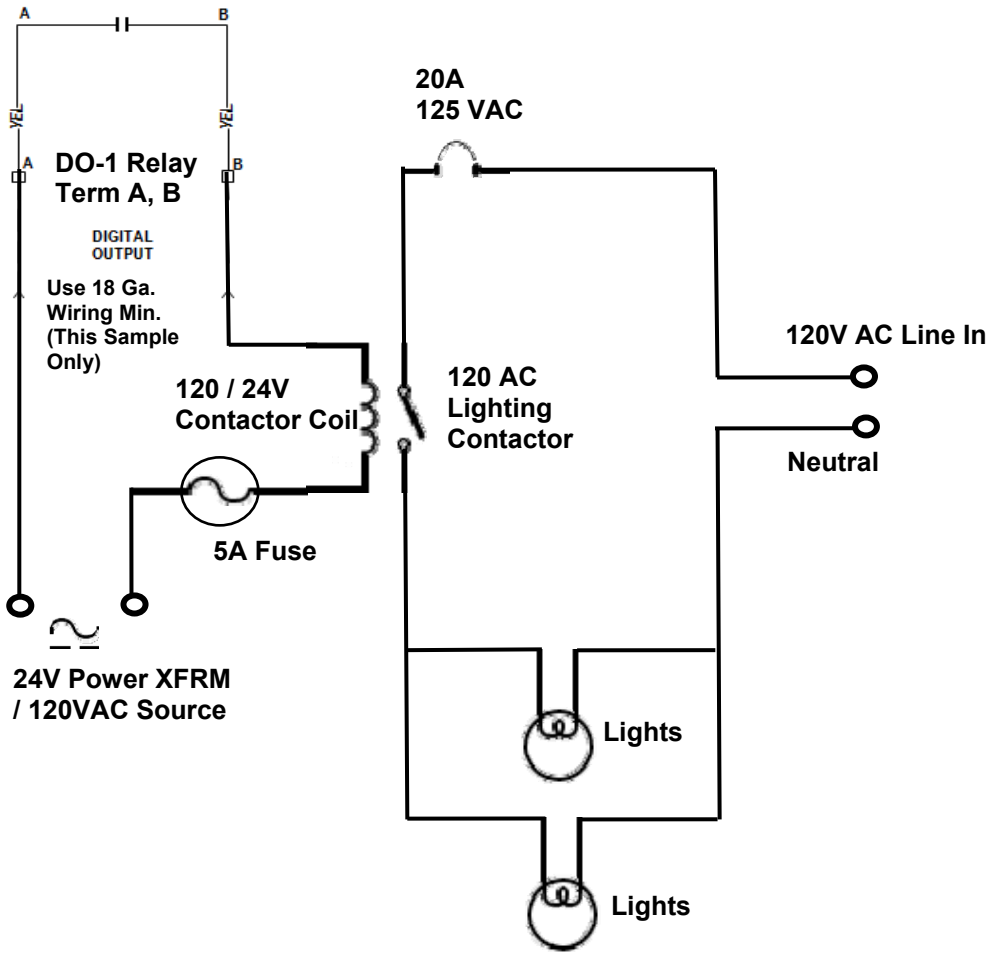


Fig. 5 - Station Controller Digital Outputs wired as a "Station Alert lights".

Note: All wiring should be done in accordance with local codes and applicable National Electrical Code (70E) by a qualified person.

⚠ WARNING

Hazard of Electric Shock. Any installation involving this Station Controller must be effectively grounded in accordance with the National Electrical Code to eliminate any possible shock hazard.

⚠ WARNING

Hazard of Electric Shock. Disconnect all power before installing Station controller.

MACH Alert FSAA Station Controller typical digital Input wiring sample.

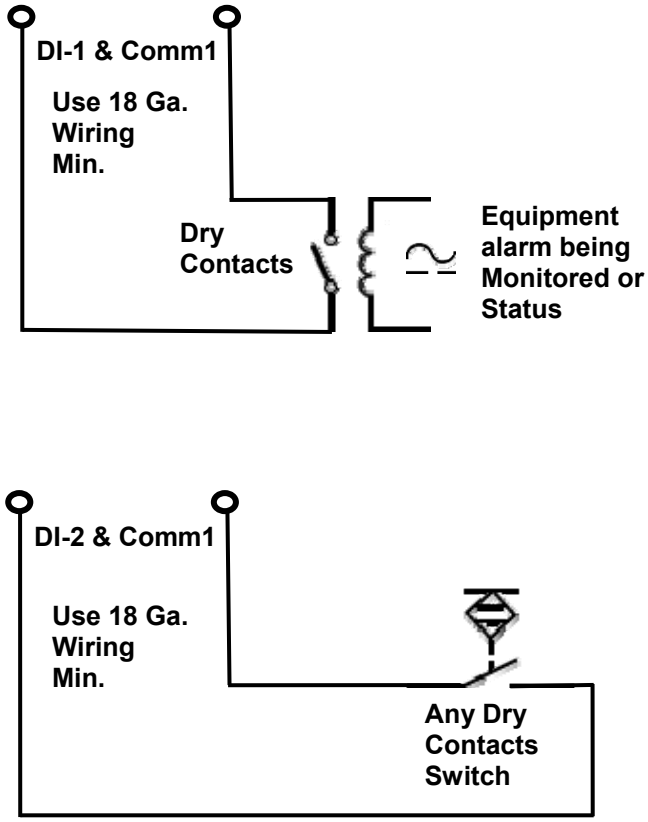


Fig. 6 - Station Controller Digital Inputs Samples.

Station Controller Digital input wired as a station equipment being monitored for “fault alarm” such as a generator equipment. Second sample is a “Mushroom push button” for “Last Man Out” (LMO), also used for station “Turn-Out Timer”.

⚠ WARNING

Hazard of Electric Shock. Any installation involving this Station Controller must be effectively grounded in accordance with the National Electrical Code to eliminate any possible shock hazard.

⚠ WARNING

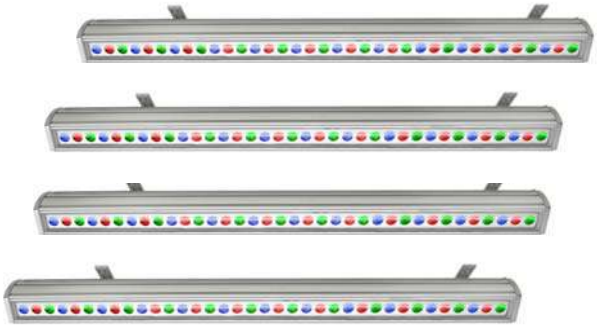
Hazard of Electric Shock. Disconnect all power before installing Station controller.

The MAI-produced *MACH Alert FSAA* Station Controller. Shown in a NEMA-rated wall mount cabinet.

Zone selection switches which mount in standard wall switch boxes

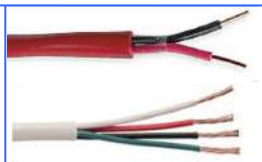
Optional

Lighting Controllers mounted in various Fire Station areas for control of LED light strips



LED Lighting Bars which can display varying color for different alerts.

<u>Existing</u> or new Audio Equipment for Fire Station alerts



18 Gauge Plenum Cable and wiring accessories

CAT 5 Cable with RJ45 Jacks

RJ45 Splitters for LED lighting distribution

Fig. 7 - Accessories

Mach Alert, Inc.
503 E. Jackson Street, Suite 149
Tampa, FL 33602

4. Typical System Wiring

The following diagram shows typical Fire Station Alerting Equipment Interconnection.

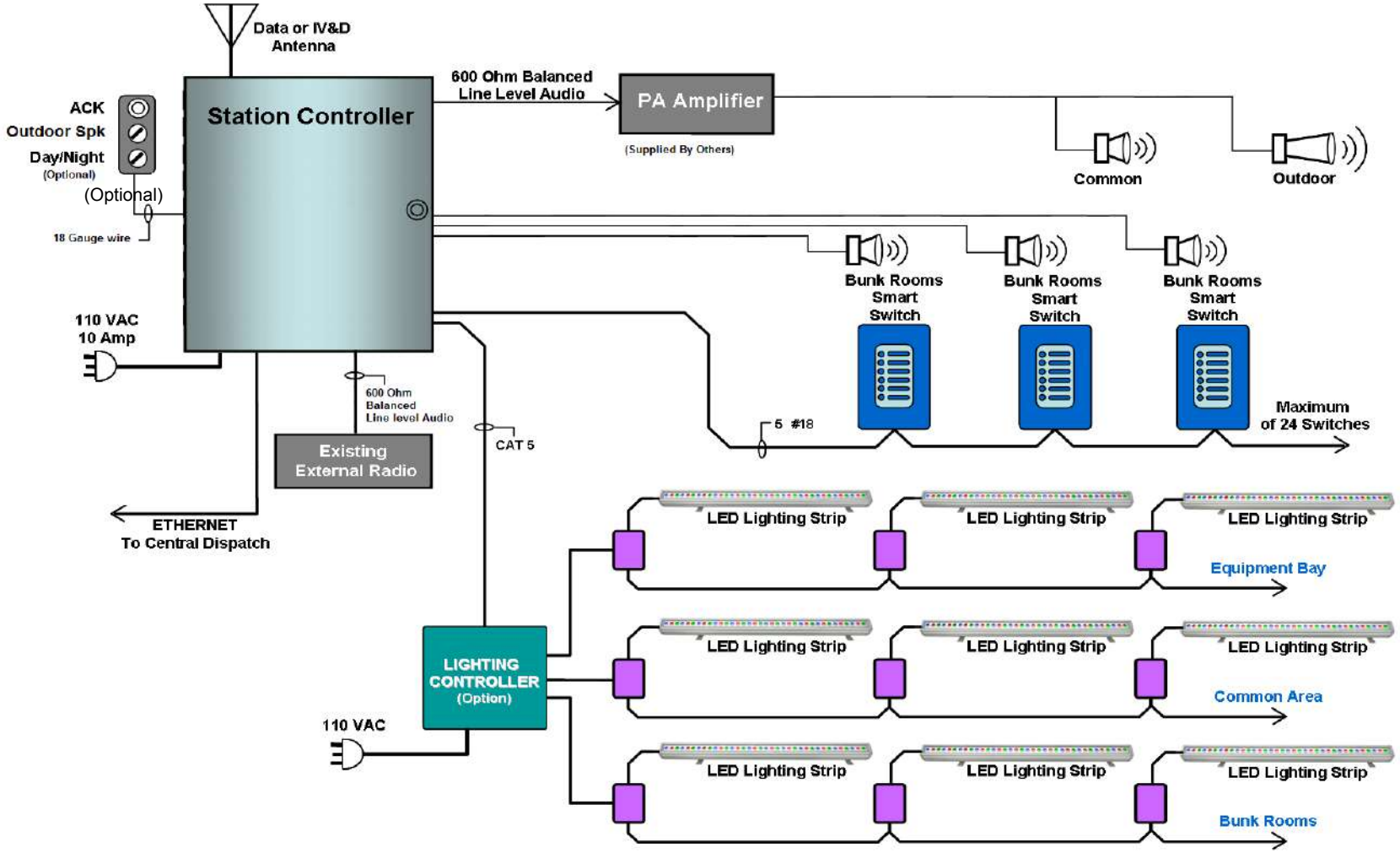


Fig. 8 – Sample System Wiring

5. Equipment Placement

The following diagram shows typical **Equipment Placement**.

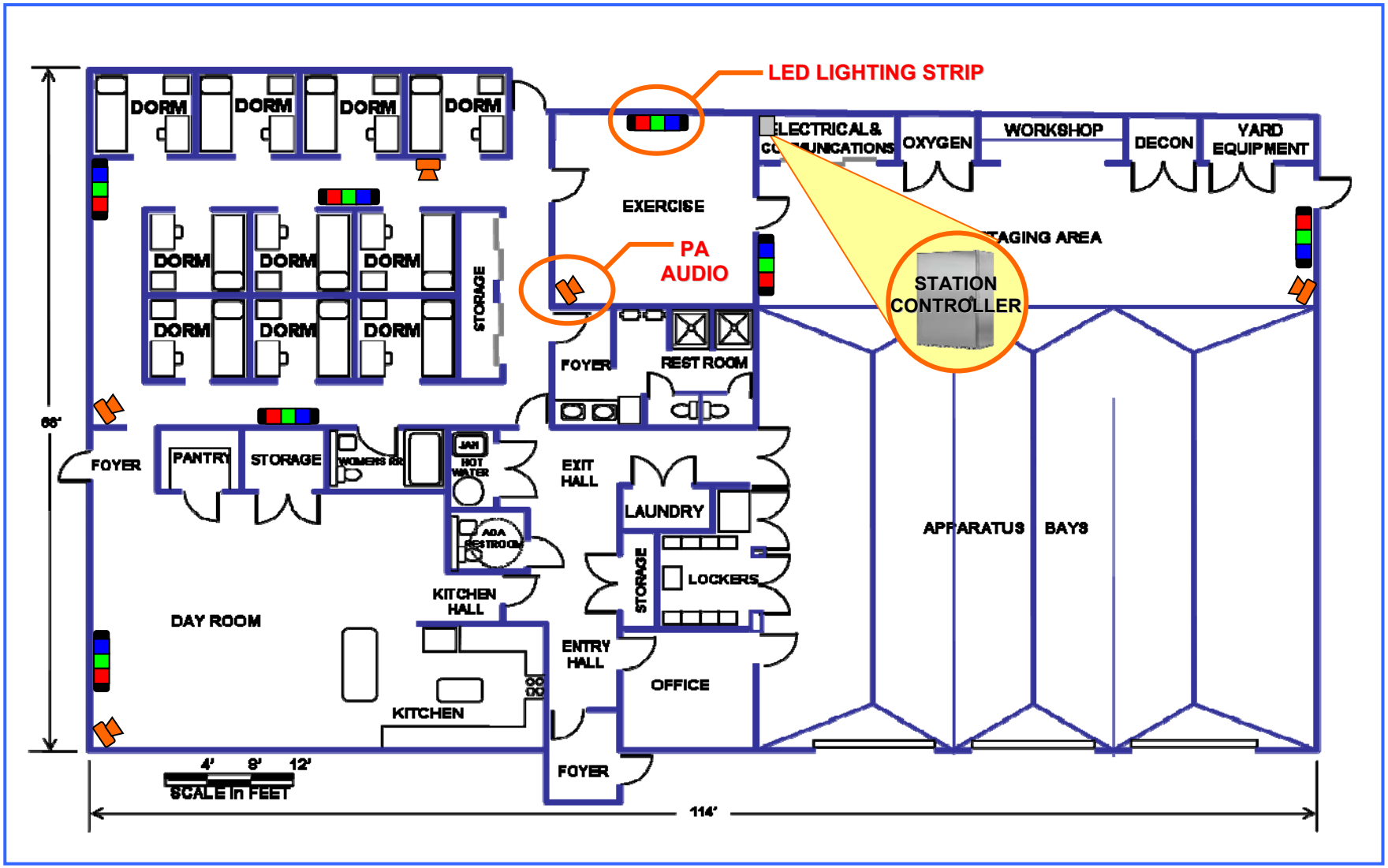


Fig. 9 – Sample Equipment Placement

Appendix A - Station Controller Specifications

Enclosure	
Dimensions	34”H x 30”W x 10”D
Color	White
Mounting	Wall Mount
Rating	NEMA Type 1
Power	
SC Requirements	120VAC, 60HZ, 10 Amp Service
Communications	
Hard wired	Existing TCP/IP Network
Radio	Minimum 2: One Radio for ACE PLC, One Radio for Audio
ACE System	
Power Supply	Includes Battery Back-up System (6.5 Ah)
Processor	Integrated Ethernet Port, Radio Port, Radio/Ethernet Port, RS-232/RS-485 Port
Mixed I/O Card	32 Point DI/DO Configurable Input/Output Card
Barix Module	Custom Tone Audio Generator & (Optional) Text-To-Speech Modules
Radio	Customer Specific
Lighting Control	(Optional) Modbus-DMX Controller. Requires external Luminarc Power/Data Module.
Audio	
Type	Balanced Line Out
Impedance	600Ω Balanced, 300Ω Unbalanced
Output Level	1.227V-rms (+4dBU) In, Output 1.227V-rms (+4dBU) (+7dBU Max)
Controls	Four Input Knobs with Security Covers, One Output knob With Security Cover
Discrete I/O	
Connection	Terminal Block
Discrete Input	8 User Inputs, FET Isolated Sink to common
Output	12 User Outputs, Rated @ dual 6 Amp 125VAC/DC Form C (Dry Contact).
Zone Switches	
Type	Touchplate Smart switch
Dimensions	4”H x 3”W x 2”D
Connection	5 wire, Daisy Chain (up to 8 per link).
Distance	Cable Runs Up To 500 Feet.
LED	Pilot Color And Intensity for each button is system configurable by "Alert" zone.

Appendix B - SC - Station Controller considerations

POWER. Ideal location is near the PA amplifier and 120 VAC 10A branch power source.

Wires - Cables:

1) Installer will need to run 18/2 twisted pair (Shielded) cables to the amplifier from the SC. (600 Balanced audio in or use a Bogen, WMT1A Matching Transformer Balun transformer),
2) Audio from external radio (If used) to the XLR Audio in to the SC. Most System installations use a Motorola internal audio Radio. (600 Balanced audio out (Discriminator out - Preferred) or use a Bogen WMT1A Matching Transformer Balun transformer).
3) INTERCOM / PA. 70V systems: 18/2 twisted pair (Shielded) from the PA Speaker 70V Line audio out for "Zones" (if installed) also consider running a separate home run from each "Zoned" speakers area to the SC, 120VAC lighting contactor (relay) with associated wires for alert lights or low Voltage with appropriate customer provided power source (Consult a qualified Electrician).
4) INTERCOM / PA Valcom systems: CAT 5 cable from the Station Controller Line audio out for "Zones" (if installed) also consider running a separate home run from each "Zoned" speakers area to the SC “Line out”, lighting contactor (relay) with associated wires for alert lights or low voltage with appropriate customer provided power source. (Consult a qualified Electrician).
5) 18/5 cable for Zone Smart Switch plates (Daisy-chained - 24 Maximum per run and total Maximum of 24 Smart Switches per system).
6) 18/2 Minimum for connections to input of SC DI's for Sensing (NEC requirement)
7) Follow NEC 70E recommend practice for controlling SC DO controlled devices which may include 120VAC alert Lighting, Klaxon horns, Gas Shut-off. Always consult a qualified electrician before attempting to wire devices.
8) Plenum 18/2 wires must be used where Plenum cable is a requirement.
9) Always follow local applicable building code for building wall penetrations. Apply appropriate fire stop where required.
10) ETHERNET. A CAT5 cable will need to be run for Ethernet communications (RJ45) from the Network switch to the Station controller's 5 port internal switch. (If the IDB (Incidental display Board) Option is purchased, a separate Ethernet cable will be required to run from the IDB computer to the Network switch.)
11) Some Cable runs may require conduit, consult with a Qualified Electrician before attempting to install wires in a Fire Station house.

Appendix C - Grounding Practices

All device return lines should be installed in a STAR configuration back to a single termination point for Grounds and 24 Volt Power. Earth ground for 24 Volt DC control systems should be isolated from the I/O power supply common return lines.

Avoid “Sneak” return paths by using a STAR configuration as shown below.

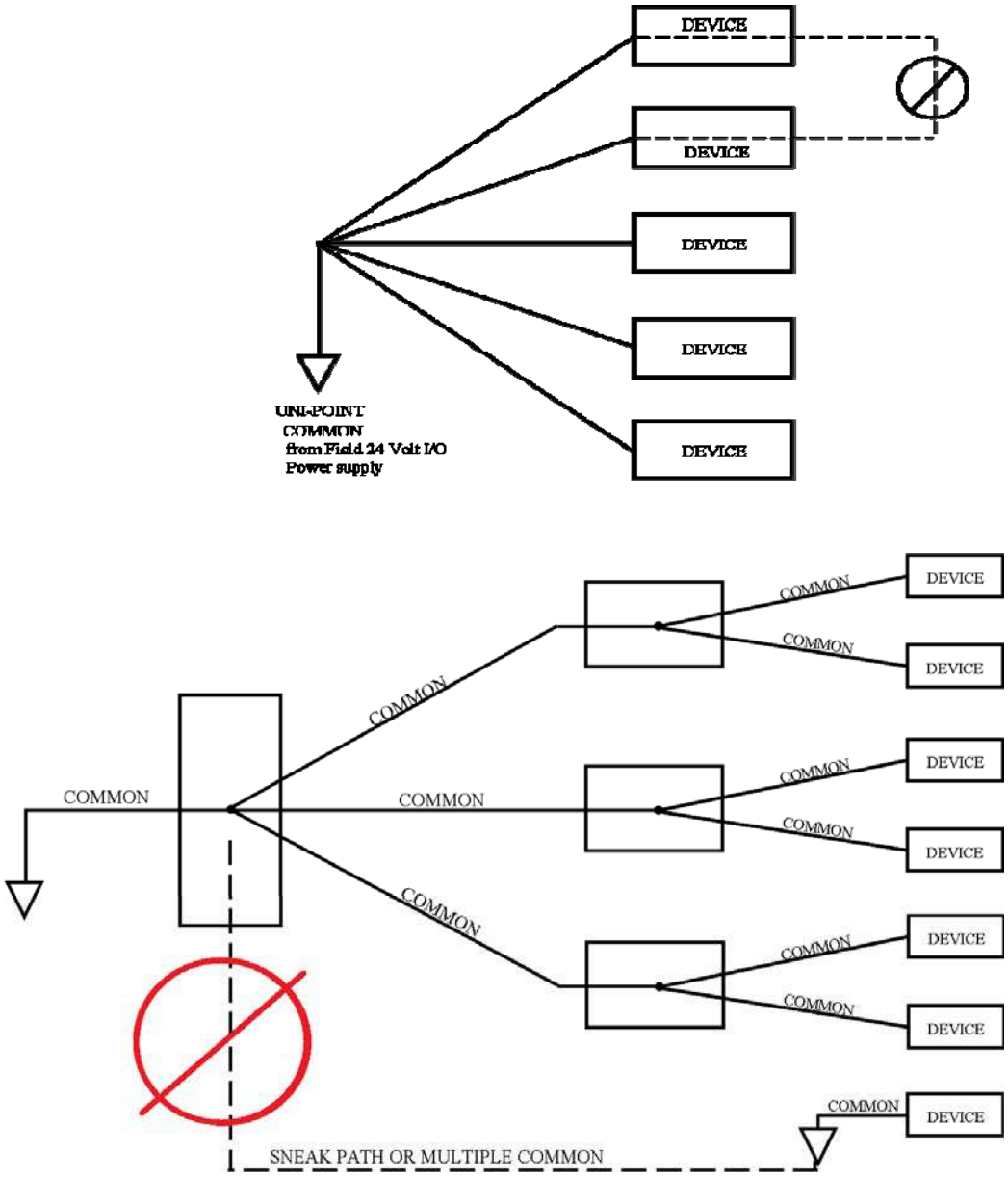


Fig. 10 – Grounding Examples

Appendix D – Audio Connection to PA System

The Station Controller accepts one external audio input into an internal audio mixer located within the enclosure.

The Station Controller also generates its own alerting tones and verbal commands.

Audio Relays are contained within the Station Controller to allow switching and routing of audio to various Fire Station areas such as bunk rooms, common areas and vehicle bay areas. (Optional)

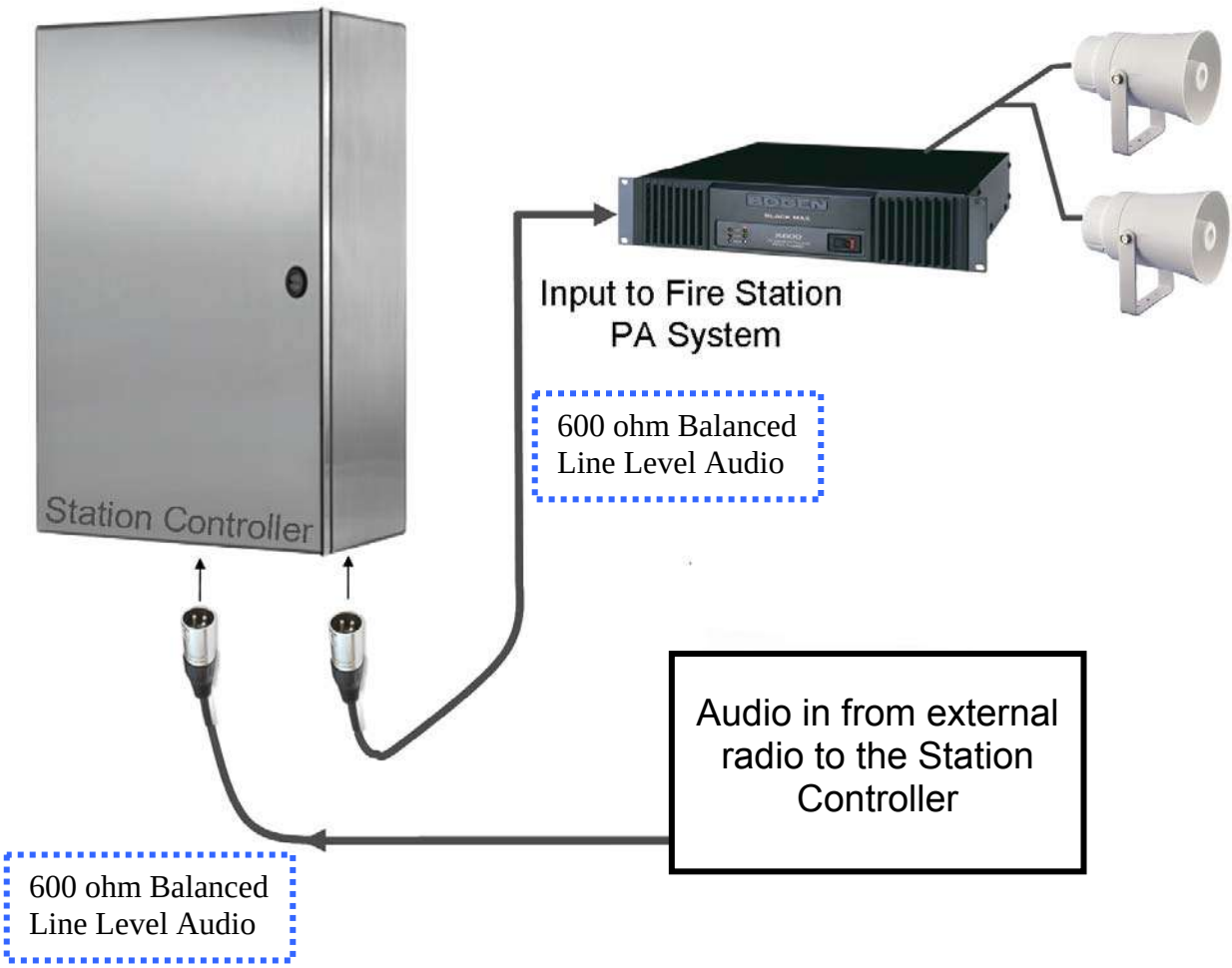
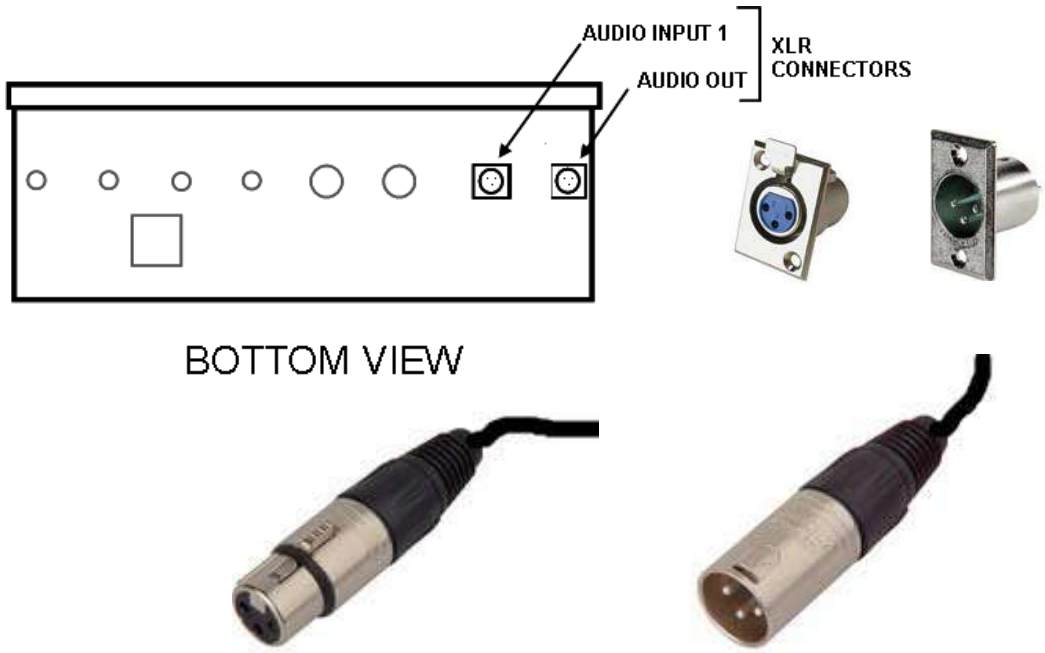


Fig. 11 – Audio Connection to PA System

Appendix E - Audio Connections and Wiring

There are three XLR connectors at the bottom of the Station Controller Panel



XLR Panel Mount and Jacks

Figure 12 - XLR Connectors required

SPEAKER WIRING

- All wiring should be done with Plenum rated cable for use in free air (above ceiling) in bays. For outdoor locations, all wire must be in conduit and weatherproof boxes (NEMA 4R - Rated for weather)
- All common areas can be daisy-chained together but always parallel wiring to 70V line transformer (or 300 Ohm Balanced VALCOM) of the speaker assembly. (DO NOT jump one speaker to another directly. This will impair performance and could damage the PA amplifier). All outdoor speakers must be on their own separate 18/2 cable from the outside common back to the SC cabinet (Option - may be “Muted” at night).
- All speakers that have a separate zone (bunk rooms) must have their own 18/2 cable run back to the SC cabinet. Note that some of the bunk rooms with attached bathrooms and/or offices can be jumped together on the 70V line (or 300 Ohm Balanced VALCOM) first.
- If a Fire Station has any alert lighting, make sure all audio cabling is separate and not bundled with lighting (120VAC 60Hz) as this could cause induced noise (hum) into the audio.

Mach Alert, Inc.
503 E. Jackson Street, Suite 149
Tampa, FL 33602

Appendix F - Typical 70 Volt Line Audio

The majority of Fire Station audio systems use 70 Volt line audio distributed with shielded plenum wire throughout the station. Local speakers can contain transformers to step-down the voltage to appropriate levels (Watt tap) at each speaker or horn speaker.

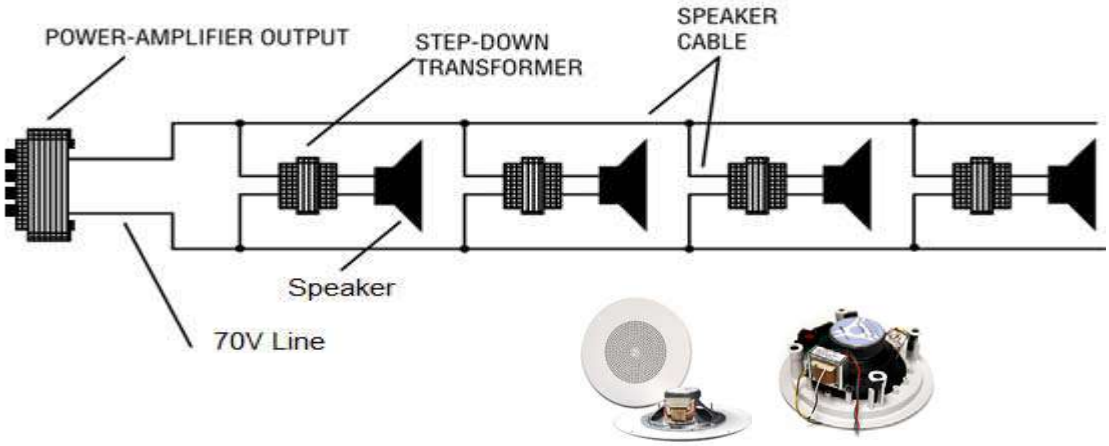


Figure 13 - 70V Line Speaker Sample

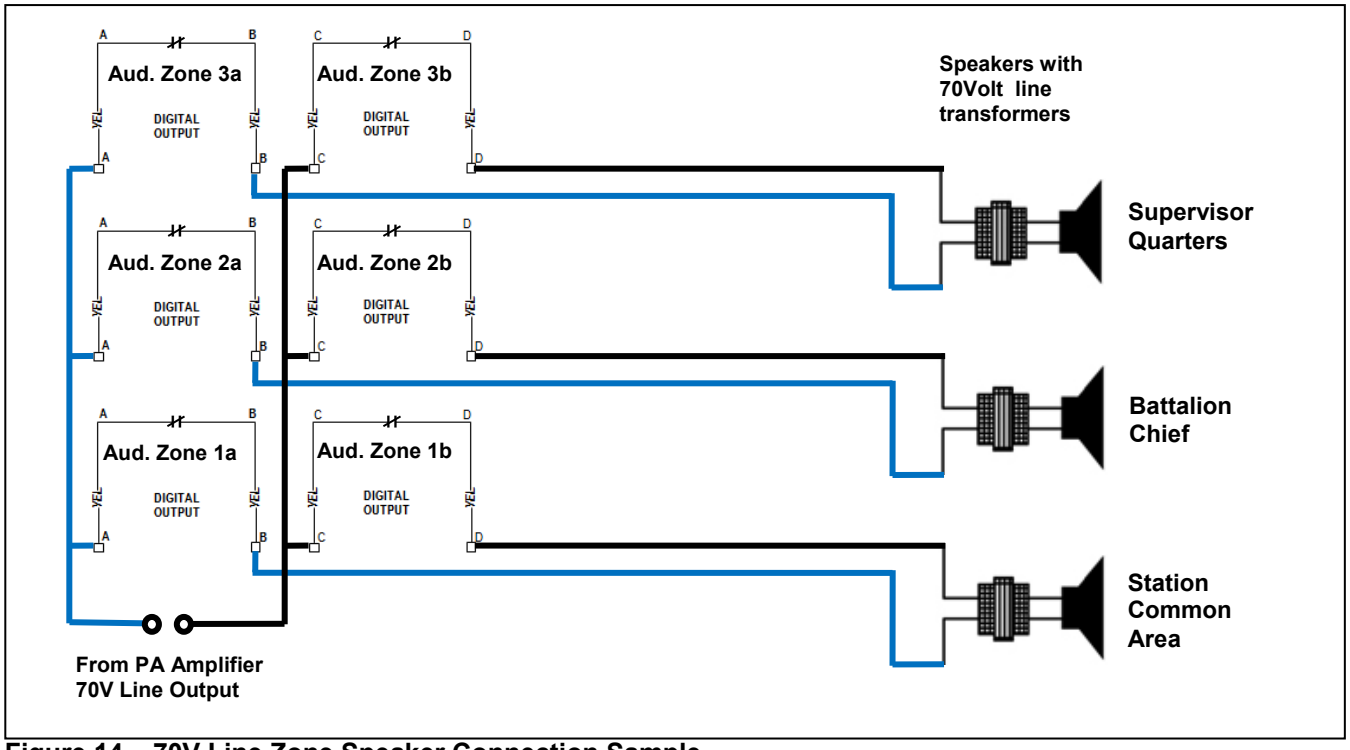


Figure 14 – 70V Line Zone Speaker Connection Sample

Mach Alert, Inc.
503 E. Jackson Street, Suite 149
Tampa, FL 33602

Appendix G - Typical VALCOM Audio system

Some of the newer Fire Station audio systems use VALCOM audio distributed with CAT-5 plenum wire throughout the station. Local speakers assembly will have a -24VDC driven amplifier attached to the speaker (see Figure 10) to step-up the audio line input signal (>600 Ohm Balanced) to 45 Ohms voltage drive to appropriate levels (Volume tap) at each speaker or horn speaker.

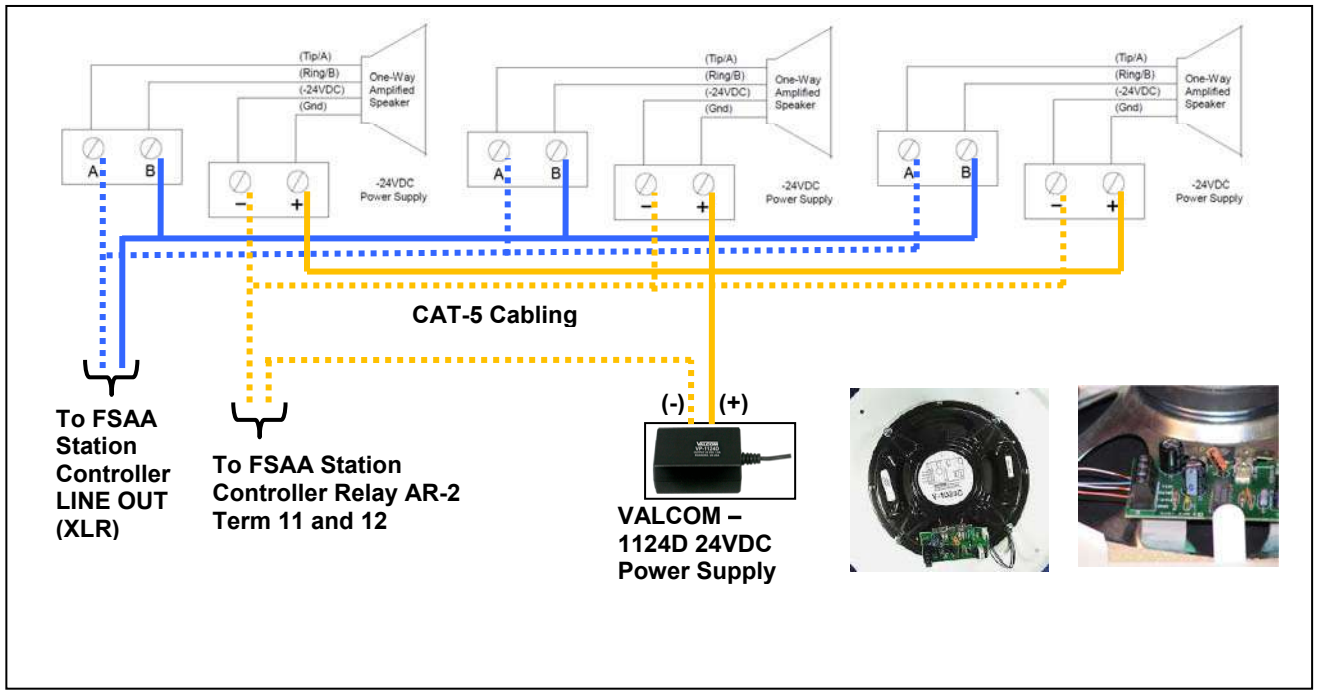


Figure 15 - VALCOM Line Level Speaker Sample

Mach Alert, Inc.
503 E. Jackson Street, Suite 149
Tampa, FL 33602

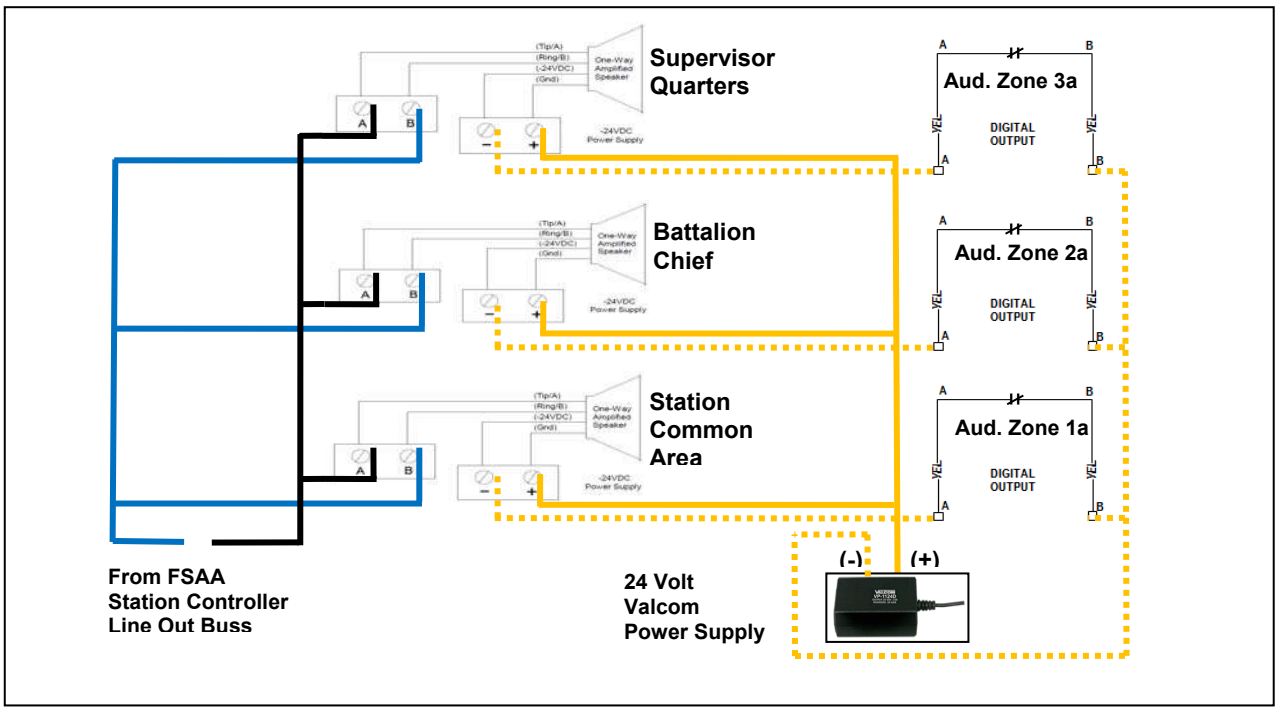


Figure 16a – Option 1
Sample VALCOM Speaker Zones wiring. Station Zone Controlled by 24V power.

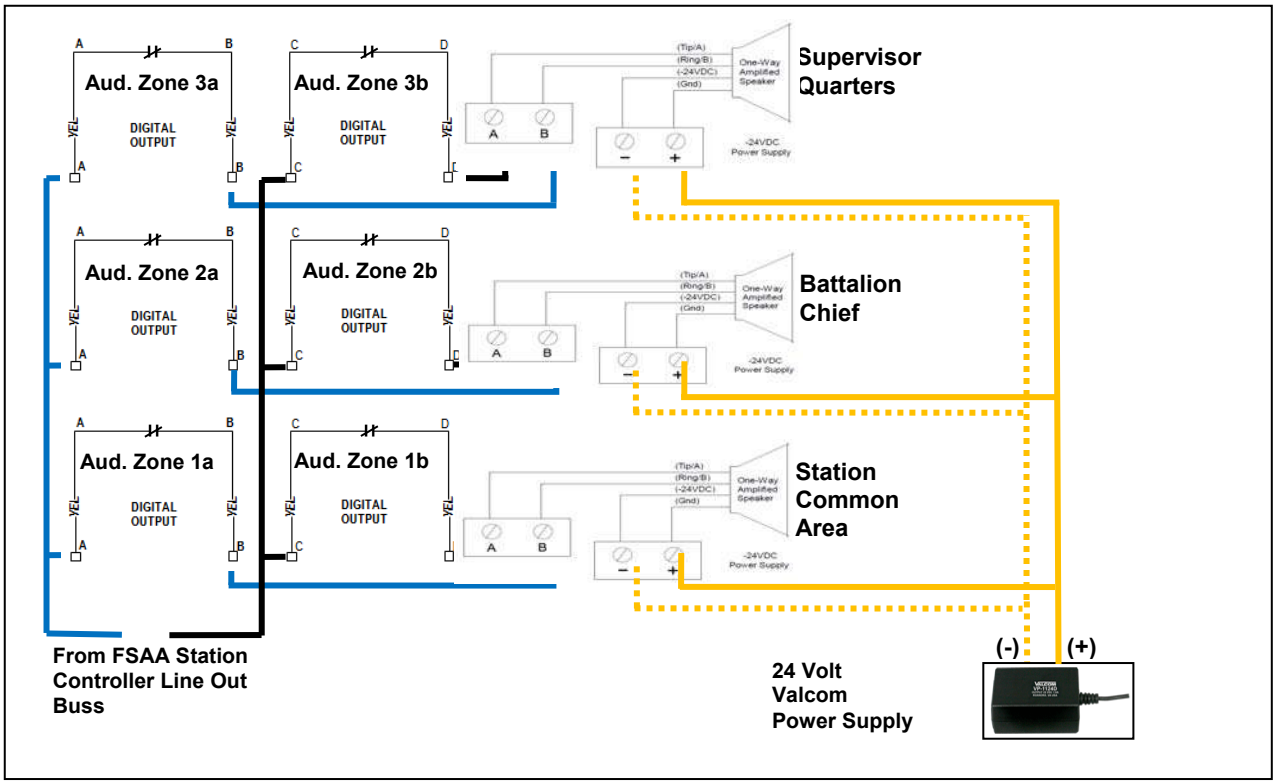
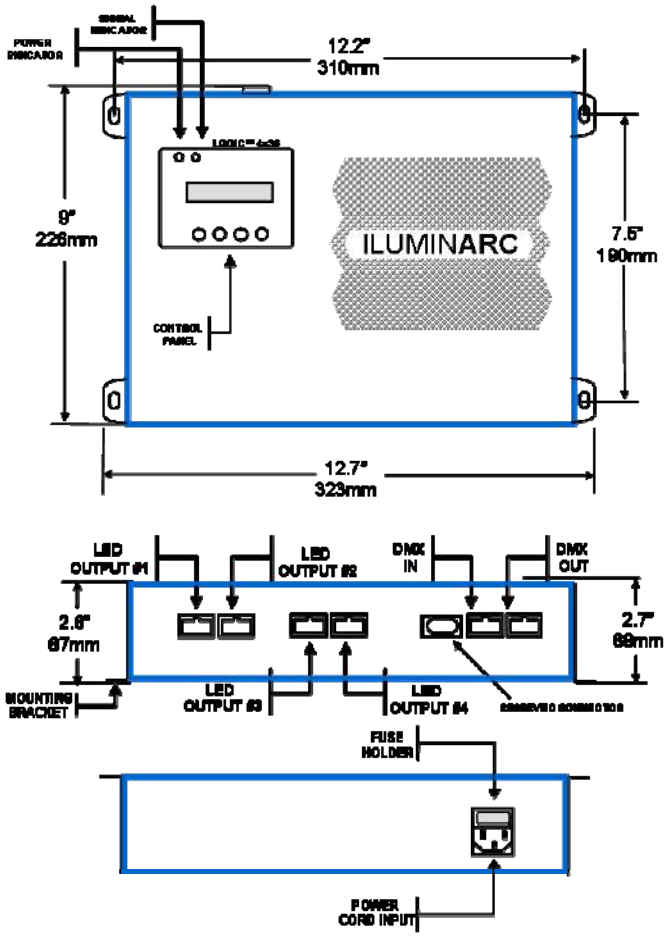


Figure 16b – Option 2
Alternate Method if local phone paging system is used. Station Zone Controlled by Audio source.

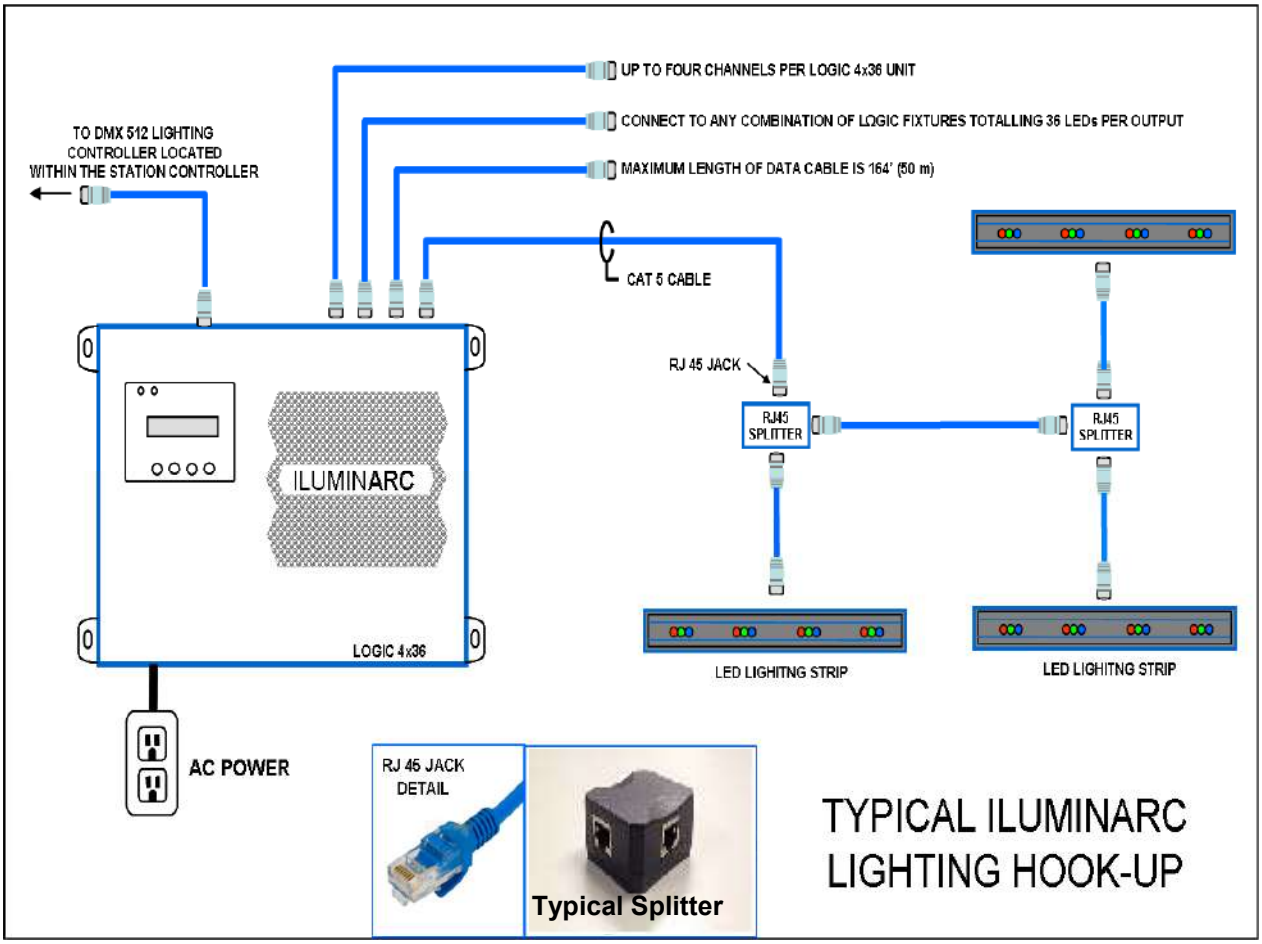
Mach Alert, Inc.
503 E. Jackson Street, Suite 149
Tampa, FL 33602

Appendix H - Lighting Controller ILUMINARC (Optional)

LΩGIC™ 4x36
Item Number: 34x36001



Mach Alert, Inc.
503 E. Jackson Street, Suite 149
Tampa, FL 33602



SPECIFICATION

- 1, 2, 3, 4, 6, 9, 12 or 15 channel DMX control
- RGB or SpectraWhite mixing with or without outboard DMX controller via integrated command LCD display
- White effects mixing with or without DMX controller
- Recall custom programs via master/slave or DMX
- Upload software over RS-232 connection
- Schedule playback with time clock functions
- Master/slave over RJ-45 connections

Construction
Color: Beige powder coat
Housing: Steal
Protection rating: IP20

Control protocol: USITT DMX 512

Installation Orientation: Any

Connections Power cable entry-IES
Power cable: 60in (1524mm)
Data cable entry: RJ-45
Data cable: Data in: RJ-45 to 3 pin M.
Data out: RJ-45 to 3 pin female

Electrical
AC power:100 ~ 240 V, 50/60 Hz
Power supply: Internal, auto-ranging, multi-voltage

Power and current
120 V, 60 Hz: 180 W, 1.5A operating
230 V, 50 Hz: 161 W, 0.7 A operating

Thermal Cooling:
Convection via integrated cooling
Maximum ambient temperature 40°C

Approvals **ETL**

Included items 1 x L□GIC™ 4x36

1 x RJ-45 to 3 pin DMX male adapter (input)
1 x RJ-45 to 3 pin DMX female adapter (out)
4 x RJ-45 barrel connector
1 x IEC power cable with plug: 60in 1524mm)

Warranty Card
User QSG

Illuminarc
5200 NW 108th Ave Sunrise FL, 33351
877-932-3680 WWW.ILUMINARC.COM

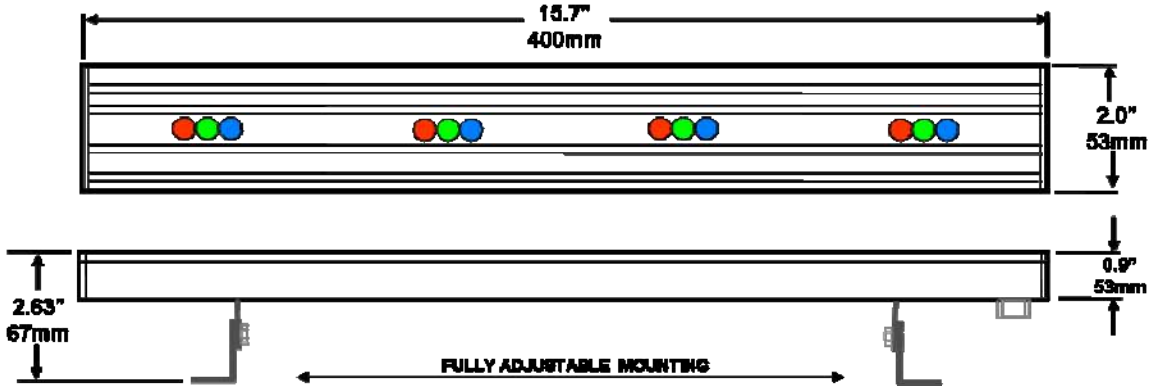
Mach Alert, Inc.
503 E. Jackson Street, Suite 149
Tampa, FL 33602

Appendix I - Ilumiline LΩgic 12 RGB Lighting Strip

The Ilumiline LΩgic 12 RGB lighting strip is compatible with LΩgic Controllers. LED lighting strips which are activated and controlled in various colors and sequences to alert station personnel of conditions and warnings. Features:

- RGB Color Mixing
- High power 1 Watt, 350 mA LEDs
- Extruded aluminum housing
- Input power of 1050mA@48VDC

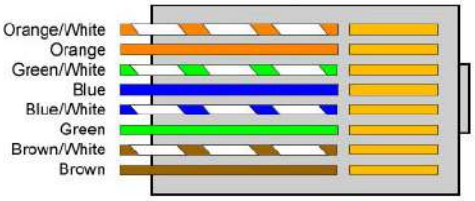
LED Lighting Strip

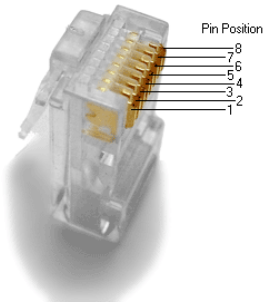


ILUMILLINE LΩgic 12 RGB Lighting Strip

WIRING

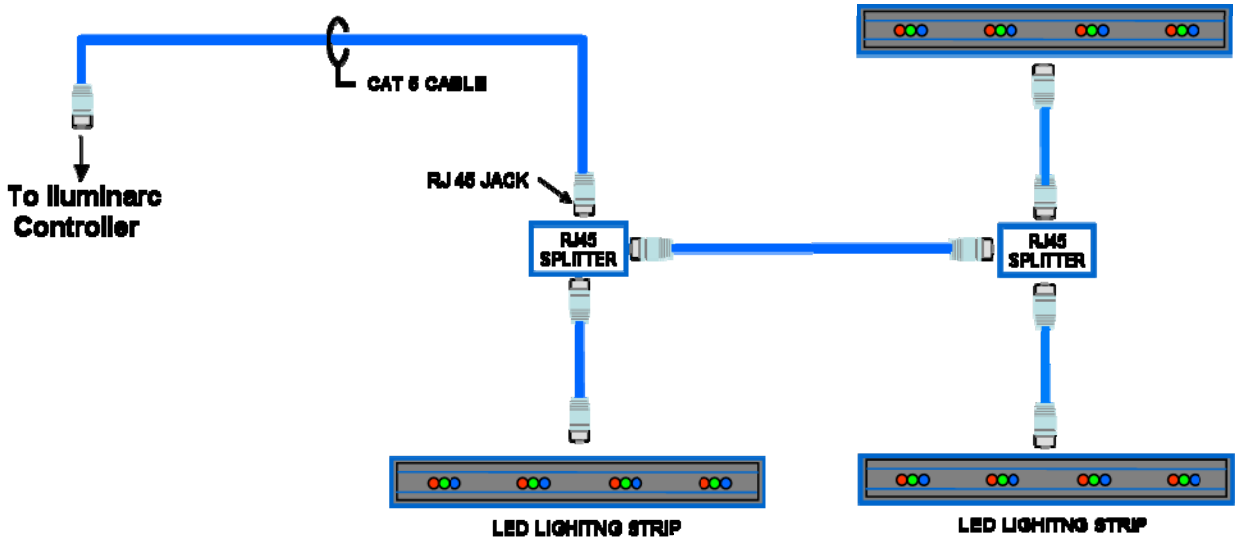
This product comes with a 79 inch (2M) long CAT 5 cable, terminated with an RJ 45 plug to connect to a ILUMINARC LΩgic Controller. If using the included splitter or if making an extension of the product's cable, you must use plenum-grade CAT 5/6 wire. The RJ connector pin-out is as shown below. (Straight 586B)





PIN	WIRE COLOR	FUNCTION
1	White/Orange	Red LED+
2	Orange/White	Green LED +
3	White/Green	Blue LED+
4	Blue/White	Not Used
5	White/Blue	Red LED -
6	Green/White	Green LED -
7	White/Brown	Blue LED-
8	Brown/White	Not Used

- **DO NOT** use splitters as couplers.
- **All cables** must be terminated to a product.



Appendix J - Zone Selection Switches

Wall switches may be provided as an option, allowing each bunkroom (or Zone) to select the type of alert, or combination of alerts, to be directed to that bunkroom. Fire or EMS personnel can use any bunkroom and select their specific alert(s) to be directed to that room. LED indicators on the wall switch indicate which alerts have been selected, or no alerts.

Selector Switch Wiring

These are used for bunkroom lighting. All selector switches can be installed with low voltage cut-in boxes on the wall by the bunk or door entrance. The wiring should be done with **18 gauge, 5 conductor** plenum rated cable and can be daisy-chained together with up to 24 switch panels per string (limited by MACH Alert software), then run on cable back to the cabinet. Always parallel switches in cut-in boxes. The cables for the selector switches can be brought back to the cabinet with the lighting, but not the audio. (Keep the audio and lighting cable separate).

Example Zone Selection

More than one zone can be selected such as BC & Rescue

- **Rescue- This room will receive Rescue, All Call, & Announcement**
- **Engine- This room will receive Fire, All Call, & Announcement**
- **Assistant Chief (AC)- This room will receive Assistant Chief, All Call, & Announcement**
- **Battalion Chief (BC)- This room will receive Battalion Chief, All Call, & Announcement**
- **Light- This Rooms Night light will be on when lighting controller is in Night Light Mode**
- **Vacant- This room will not receive any Calls**

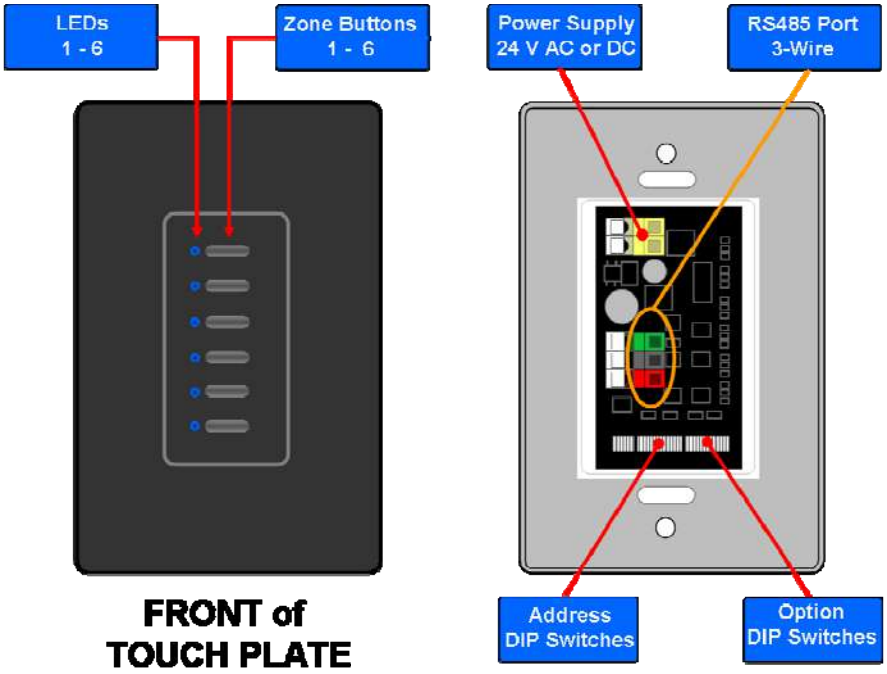
Note: If no Zones are selected Room will receive every call

If the FSA system includes Zone Switches as shown above, the typical set-up is to wire all switches in parallel, noting the polarity of wires, which run to the MODBUS gateway located in the Station Controller.

Mach Alert, Inc.
503 E. Jackson Street, Suite 149
Tampa, FL 33602

Introduction to the Ultra 5-Wire Touch Plates

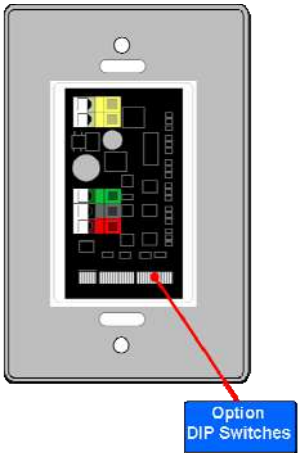
The Ultra 5-Wire Touch Plate works with a control unit contained in the MACH Alert Station Controller. The system is configurable for intensity and LED colors via DIP switch selectors on rear side. LED intensity and color change is possible via software when used with Modbus Gateway that sends digital data via serial ports.



The Option Dip Switches are for color and intensity. Use the table to make changes as desired.

NOTE: The controller unit located in the MACH Alert Station Controller will control the color and intensity and override the Option Dip Switch settings.

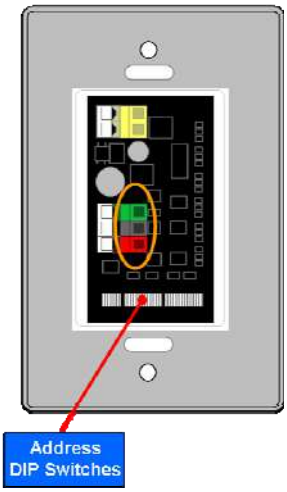
LED INTENSITY DIP SWITCH			NUMBER OF BUTTONS DIP SWITCH				LED COLOR DIP SWITCH			
1	2		3	4	5		6	7	8	
OFF	OFF	LOWEST	OFF	ON	OFF	2B	OFF	OFF	OFF	OFF
ON	OFF	LOW	OFF	OFF	ON	4B	ON	OFF	OFF	RED
OFF	ON	MEDIUM	OFF	ON	ON	6B	OFF	ON	OFF	GREEN
ON	ON	HIGH					ON	ON	OFF	BLUE
							OFF	OFF	ON	YELLOW
							ON	OFF	ON	PURPLE
							OFF	ON	ON	CYAN
							ON	ON	ON	WHITE



Ultra 5-Wire Address Dip Switches

The Address Dip Switches are used to set the Smart Switch Address. Normally, these Dip Switches come from the factory pre-programmed. Make sure you do not duplicate addresses, each control station must have its own unique address.

Do not change values unless directed by Touch-Plate. DIP SWITCH #8 ALWAYS STAYS ON.



Address	1	2	3	4	5	6	7	8
1	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON
2	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON
3	ON	ON	OFF	OFF	OFF	OFF	OFF	ON
4	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON
5	ON	OFF	ON	OFF	OFF	OFF	OFF	ON
6	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
7	ON	ON	ON	OFF	OFF	OFF	OFF	ON
8	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
9	ON	OFF	OFF	ON	OFF	OFF	OFF	ON
10	OFF	ON	OFF	ON	OFF	OFF	OFF	ON
11	ON	ON	OFF	ON	OFF	OFF	OFF	ON
12	OFF	OFF	ON	ON	OFF	OFF	OFF	ON
13	ON	OFF	ON	ON	OFF	OFF	OFF	ON
14	OFF	ON	ON	ON	OFF	OFF	OFF	ON
15	ON	ON	ON	ON	OFF	OFF	OFF	ON
16	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON
17	ON	OFF	OFF	OFF	ON	OFF	OFF	ON
18	OFF	ON	OFF	OFF	ON	OFF	OFF	ON
19	ON	ON	OFF	OFF	ON	OFF	OFF	ON
20	OFF	OFF	ON	OFF	ON	OFF	OFF	ON
21	ON	OFF	ON	OFF	ON	OFF	OFF	ON
22	OFF	ON	ON	OFF	ON	OFF	OFF	ON
23	ON	ON	ON	OFF	ON	OFF	OFF	ON
24	OFF	OFF	OFF	ON	ON	OFF	OFF	ON
25	ON	OFF	OFF	ON	ON	OFF	OFF	ON
Through Address 96 - Use the table below to calculate Smart Switch Address								

Valid addresses are from 1 to 50. Addresses are set using the eight Address Dip Switches, which each have a value noted in the chart below.

Address Dip Switch	1	2	3	4	5	6	7	8
Value	1	2	4	8	16	32	64	128

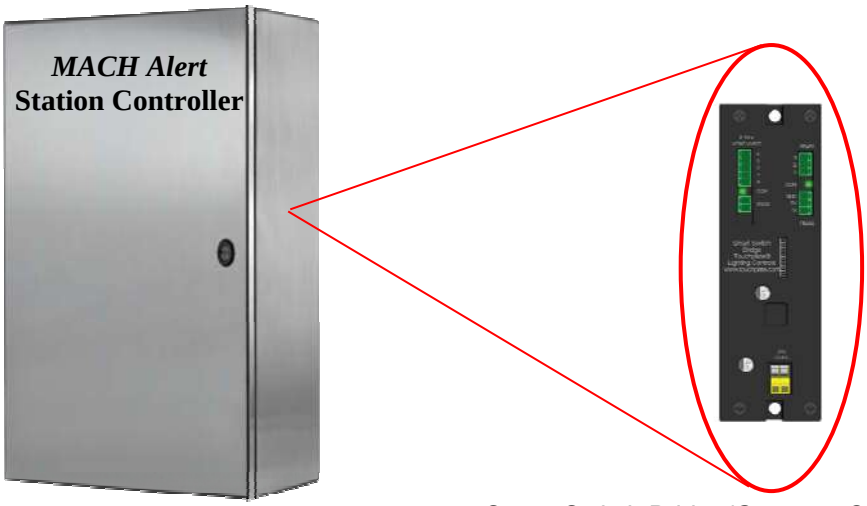
The values of all switches in the ON position are added together and the total is equal to the address. See the examples below:

- Smart Switch Address 1: Turn on switch 1 only, and leave all other Address switches off.
- Smart Switch Address 13: Turn on Address Dip Switches 1, 3 and 4. c The values of those switches is 1 + 4 + 8 = 13.

Mach Alert, Inc.
503 E. Jackson Street, Suite 149
Tampa, FL 33602

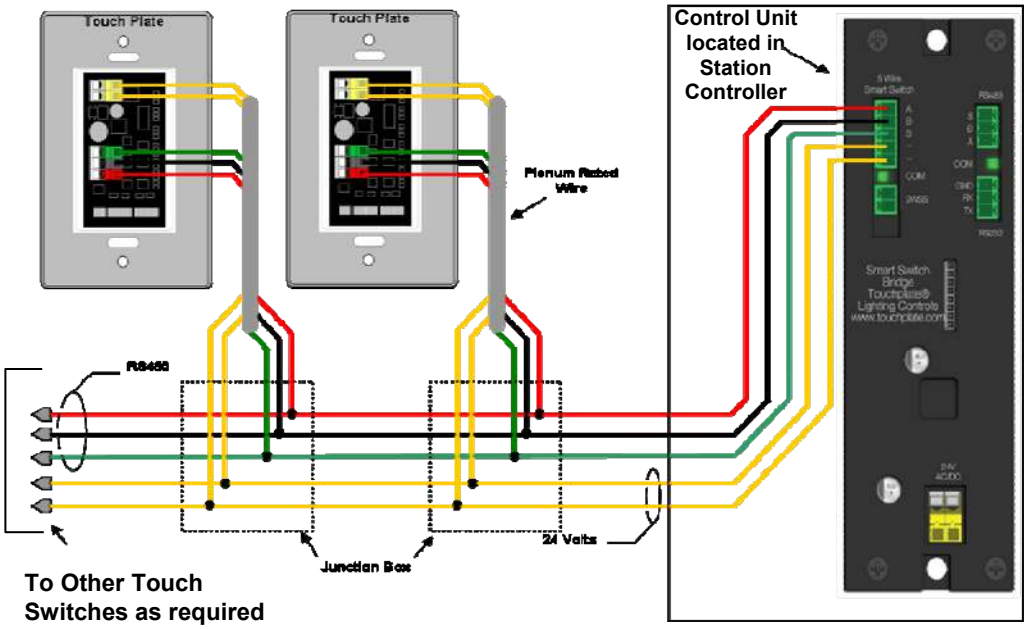
Modbus Controller to Touch Plate Wiring

The Control Unit for the Touch Plate Zone Switches is located inside the MACH Alert Station Controller enclosure.



Smart Switch Bridge/Gateway Controller for Wall-Mounted touch plates is located inside the MACH Alert Station Controller

Wiring is done in parallel to each Touch Plate



Baud Rate (SW2) (Under the Cover) set at 57600. 1- Off, 2 – Off, 3- On, 5 - 8 - Off.