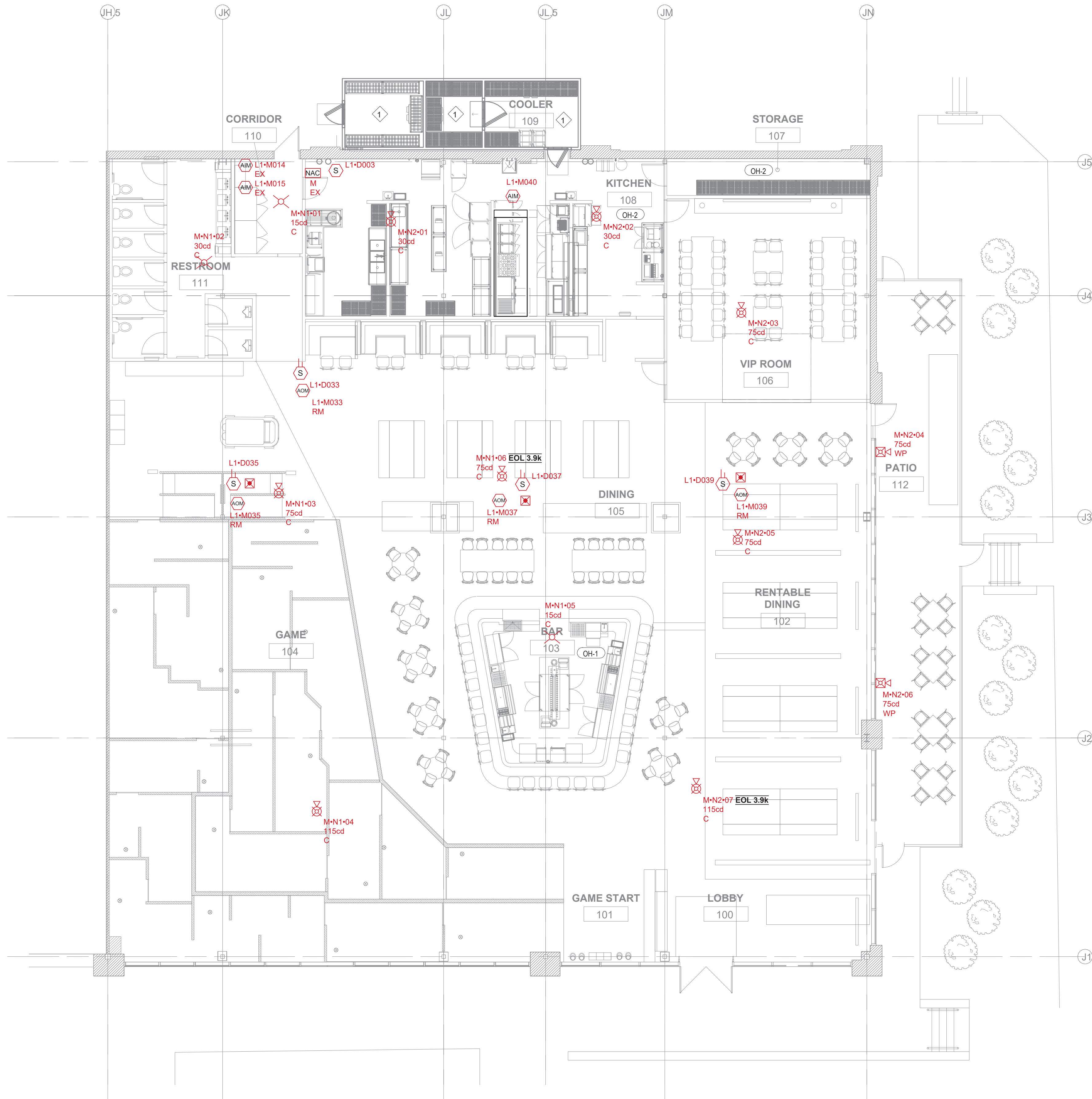


Craft Putt Summit Fair
840 NW Blue Parkway suite M
Lee's Summit, MO 64086

MATRIX - SPRINKLED BUILDING
NOT HIGH-RISE

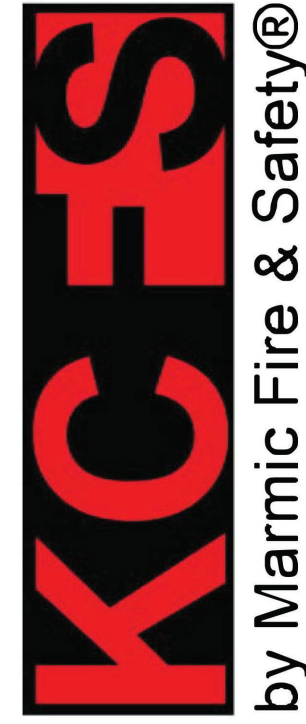
FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX													SYSTEM OUTPUTS																		
													FACP ANNUNCIATION							NOTIFICATION							REQUIRED FIRE SAFETY CONTROL				
													ACTIVATE COMMON ALARM SIGNAL INDICATOR																		
													ACTIVATE ADDRESSABLE ALARM SIGNAL																		
													ACTIVATE ADDRESSABLE SUPERVISORY SIGNAL INDICATOR																		
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1 FIRE ALARM NEW WORK PLAN
1/8" = 1'-0"



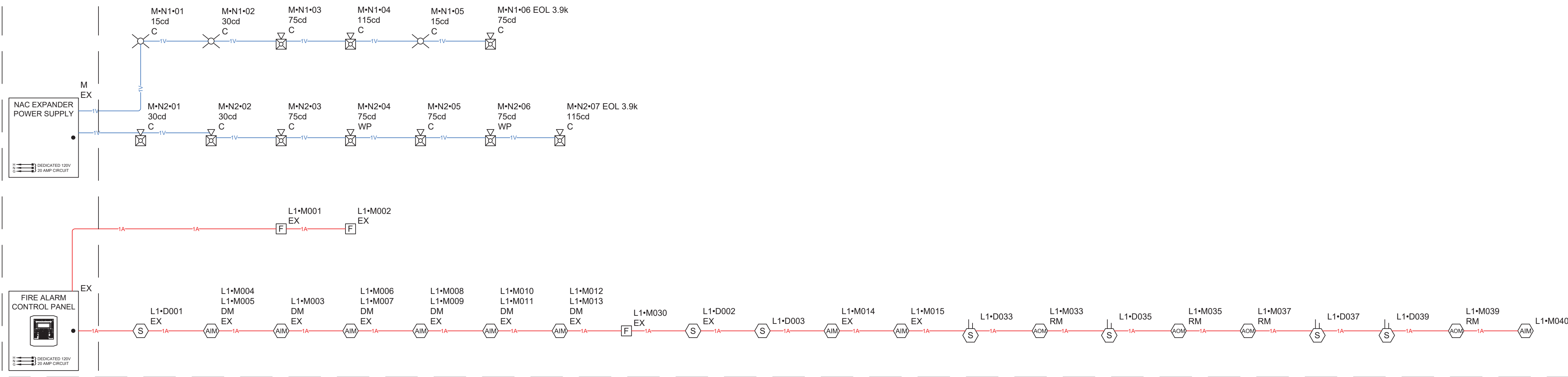
09/13/24
Michael A Panethiere, Ph.D., P.E.



REVISION	DATE	DESCRIPTION	APPROVED
1 Craft Putt	9/6/2024		

Designed by:	Date:
Drawn by:	Scale:
PHILLIP YOUNG	1/8" = 1'0"
Approved By:	Project Number:
KCFS by MARMIC FIRE & SAFETY	9/6/2024
840 Olive Parkway, Suite M	
Lees Summit, MO 64086	
Graduate: MO 64030	
913-780-5237	

Craft Putt Summit Fair 840 Olive Parkway, Suite M Lees Summit, MO 64086	SHEET REFERENCE NUMBER: 2 TOTAL SHEETS 3
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DEVICE LEGEND					
SYMBOL	QTY	EXISTING	MANUFACTURER	PART NO	DESCRIPTION
	1	X	GAMEWELL FCI	SLP-RED	S3 SERIES PANEL W/BACKBOX, HON-COM-MBB, SLC-PM, LCD-SLP AND 7.0 A POWER SUPPLY
	3	X	GAMEWELL FCI	HPFF8	NAC POWER SUPPLY
	3		GAMEWELL FCI	RTS151KEY	REMOTE TEST STATION W/ SWITCH, ALARM & POWER LEDS, KEY RESET
	3	X	GAMEWELL FCI	MS-7AF	VELOCITI ADDRESSABLE DOUBLE ACTION STATION
	1		GAMEWELL FCI	MS-7AF	VELOCITI ADDRESSABLE DOUBLE ACTION STATION
	6	X	GAMEWELL FCI	AMM-2IF	ADDRESSABLE DUAL MONITOR MODULE W/ FLASHSCAN, 2 CLASS B
	2	X	GAMEWELL FCI	AMM-4SF	ADDRESSABLE MONITOR MODULE, SINGLE CIRCUIT
	1		GAMEWELL FCI	AMM-4SF	ADDRESSABLE MONITOR MODULE, SINGLE CIRCUIT
	4		GAMEWELL FCI	AOM-2RF	ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS
	4		GAMEWELL FCI	DNRW w/ASD-PL3	INTELLIGENT DUCT DETECTOR HOUSING, NON-RELAY, WATER TIGHT w/ASD-PL3
	3		GAMEWELL FCI	ASD-PL2F w/B210LP	DETECTOR, SMOKE, ADDRESSABLE PHOTO w/STANDARD BASE
	2		SYSTEM SENSOR	P2WK	2-WIRE HORN STROBE, STANDARD CD, OUTDOOR
	8		SYSTEM SENSOR	PC2WL	2-WIRE, HORN STROBE, WHITE
	3		SYSTEM SENSOR	SCWL	STROBE, WHITE

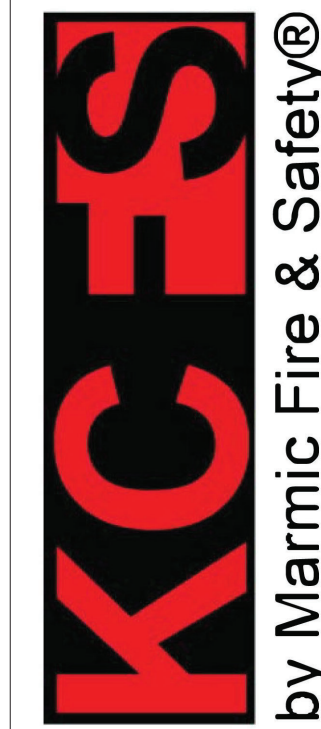
M N1 POINT-TO-POINT REPORT							CIRCUIT SETTINGS		TOTALS	
							Starting Calculation Voltage:	20.4	Max. Voltage Drop:	0.47
Circuit Wiring Properties: "Y" 14/2 FPLP/R (NAC) 14 AWG, 2 Cond. Solid Copper FPLP/R Analog Unshielded							Min. Operational Voltage:	16	End Of Line Voltage:	19.93
							Max. Circuit Current (A):	3	Voltage Drop Percent:	2.28 %
							Wire Resistance (Dk/Ft):	3.07	Total Circuit Current (A):	0.618
Distance measured using drawn segment lengths with 10.00 % additional length calculated							Total Circuit Length (Ft):	220	Spare Current (A):	2.382
							Total Circuit Resistance (Ω):	1.351289	Spare Current (A) Percent:	79.40 %
Device Label	Part No.	Description	Device Current (A)	Remaining Current (A)	Dist. From Previous (Ft)	Resistance From Previous (Ω)	Voltage Drop From Previous	Voltage At Device	Total Voltage Drop	Voltage Drop Percent
M-N1-01	SCWL	Strobe, White 15cd	0.041	0.618	8	0.051007	0.03	20.37	0.03	0.15 %
M-N1-02	SCWL	Strobe, White 30cd	0.063	0.577	21	0.12613	0.07	20.3	0.1	0.51 %
M-N1-03	PC2WL	2-Wire, Horn Strobe, White 75cd	0.143	0.514	46	0.279901	0.14	20.15	0.25	1.22 %
M-N1-04	PC2WL	2-Wire, Horn Strobe, White 115cd	0.187	0.371	53	0.32608	0.12	20.03	0.37	1.81 %
M-N1-05	SCWL	Strobe, White 15cd	0.041	0.184	61	0.375165	0.07	19.96	0.44	2.15 %
M-N1-06 EOL 3.9k	PC2WL	2-Wire, Horn Strobe, White 75cd	0.143	0.143	31	0.193006	0.03	19.93	0.47	2.28 %
Calculation Methods:										
Resistance From Previous (Ω) = Wire Resistance (Dk/Ft) x 2 x Dist. From Previous (Ft)										
Voltage Drop From Previous = Resistance From Previous (Ω) x Remaining Current (A)										

M N2 POINT-TO-POINT REPORT							CIRCUIT SETTINGS		TOTALS	
							Starting Calculation Voltage:	20.4	Max. Voltage Drop:	0.89
Circuit Wiring Properties: "Y" 14/2 FPLP/R (NAC) 14 AWG, 2 Cond. Solid Copper FPLP/R Analog Unshielded							Min. Operational Voltage:	16	End Of Line Voltage:	19.51
							Max. Circuit Current (A):	3	Voltage Drop Percent:	4.36 %
							Wire Resistance (Ω/KFt):	3.07	Total Circuit Current (A):	1.005
							Total Circuit Length (Ft):	245	Spare Current (A):	1.995
Distance measured using drawn segment lengths with 10.00 % additional length calculated							Total Circuit Resistance (Ω):	1.501924	Spare Current (A) Percent:	66.50 %
Device Label	Part No.	Description	Device Current (A)	Remaining Current (A)	Dist. From Previous (Ft)	Resistance From Previous (Ω)	Voltage Drop From Previous	Voltage At Device	Total Voltage Drop	Voltage Drop Percent
M-N2-01	PC2WL	2-Wire, Horn Strobe, White 30cd	0.09	1.005	18	0.111982	0.11	20.29	0.11	0.55 %
M-N2-02	PC2WL	2-Wire, Horn Strobe, White 30cd	0.09	0.915	31	0.192887	0.18	20.11	0.29	1.42 %
M-N2-03	PC2WL	2-Wire, Horn Strobe, White 75cd	0.143	0.825	36	0.220597	0.18	19.93	0.47	2.31 %
M-N2-04	P2WK	2-Wire Horn Strobe, Standard cd, Outdoor 75cd	0.176	0.682	41	0.250628	0.17	19.76	0.64	3.15 %
M-N2-05	PC2WL	2-Wire, Horn Strobe, White 75cd	0.143	0.506	34	0.206939	0.1	19.65	0.75	3.66 %
M-N2-06	P2WK	2-Wire Horn Strobe, Standard cd, Outdoor 75cd	0.176	0.363	42	0.257535	0.09	19.56	0.84	4.12 %
M-N2-07 EOL 3.9k	PC2WL	2-Wire, Horn Strobe, White 115cd	0.187	0.187	43	0.261356	0.05	19.51	0.89	4.36 %
Calculation Methods:										
Resistance From Previous (Ω) = Wire Resistance (Ω/KFt) x 2 x Dist. From Previous (Ft)										
Voltage Drop From Previous = Resistance From Previous (Ω) x Remaining Current (A)										

BATTERY CALCULATION								
(SECONDARY POWER SOURCE REQUIREMENTS)								
				STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)		
				CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL	
PANEL COMPONENTS				1	FLPS-7-RB	7 amp Power Supply	0	0
				1	SLC-PM	SLC LOOP EXPANDER FOR SECOND LOOP	0.014	0.014
				1	SLP-E3	Intelligent Loop Interface-Main Board	0.1	0.18
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
L1	 DM	6	AMM-2IF (EX)	Addressable Dual Monitor Module W/ FlashScan, 2 Class B	0.0007	0.0042	0.0007	0.0042
		1	AMM-4SF	Addressable monitor module, single circuit	0.00027	0.00027	0.0051	0.0051
		2	AMM-4SF (EX)	Addressable monitor module, single circuit	0.00027	0.00054	0.0051	0.0102
	 RM	4	AOM-2RF	Addressable Relay Module W/ FlashScan, 2 Form-C Dry Contacts	0.0003	0.0012	0.0003	0.0012
		3	ASD-PL2F w/B210LP	DETECTOR, SMOKE, ADDRESSABLE PHOTO w/STANDARD BASE	0.0003	0.0009	0.0003	0.0009
		4	DNRW w/ASD-PL3	Intelligent duct detector housing, non-relay, watertight w/ASD-PL3	0.0002	0.0008	0.0045	0.018
		3	MS-7AF (EX)	Velociti addressable double action station	0.0003	0.0009	0.007	0.021
					TOTAL STANDBY (A)		TOTAL ALARM (A)	
					0.12281		0.2546	
					REQUIRED STANDBY TIME = 24 HOURS			
					REQUIRED ALARM TIME = 5 MINUTES			
SECONDARY STANDBY LOAD (A)					24		2.95	
SECONDARY ALARM LOAD (A)					0.08		0.02	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)							2.97	
DERATING FACTOR							1.2	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)							3.56	
*RECOMMENDED BATTERY SIZES NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.								
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.								

PANEL M (HPFF8) BATTERY CALCULATION								
(SECONDARY POWER SOURCE REQUIREMENTS)								
PANEL POWER SUPPLY MAX CURRENT = 8A				TOTAL USED CAPACITY (IN ALARM) = 1.698A (21.23 %)				
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)	
					CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
M-N1	 C	2	PC2WL	2-Wire, Horn Strobe, White 75cd	0	0	0.143	0.286
	 C	1	PC2WL	2-Wire, Horn Strobe, White 115cd	0	0	0.187	0.187
	 C	2	SCWL	Strobe, White 15cd	0	0	0.041	0.082
	 C	1	SCWL	Strobe, White 30cd	0	0	0.063	0.063
M-N2	 W/P	2	P2WK	2-Wire Horn Strobe, Standard cd, Outdoor 75cd	0	0	0.176	0.352
	 C	2	PC2WL	2-Wire, Horn Strobe, White 30cd	0	0	0.09	0.18
	 C	2	PC2WL	2-Wire, Horn Strobe, White 75cd	0	0	0.143	0.286
	 C	1	PC2WL	2-Wire, Horn Strobe, White 115cd	0	0	0.187	0.187
	TOTAL STANDBY (A)					0.206	TOTAL ALARM (A)	
					REQUIRED STANDBY TIME = 24 HOURS			
					REQUIRED ALARM TIME = 5 MINUTES			
SECONDARY STANDBY LOAD (A)					0.206	24	4.94	
SECONDARY ALARM LOAD (A)					1.698	0.08	0.14	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					5.09			
DERATING FACTOR					1.2			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					6.1			
PROVIDE (2) 12V 7AH BATTERIES								
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.								

Michael A. Panethiere, Ph.D., P.E.

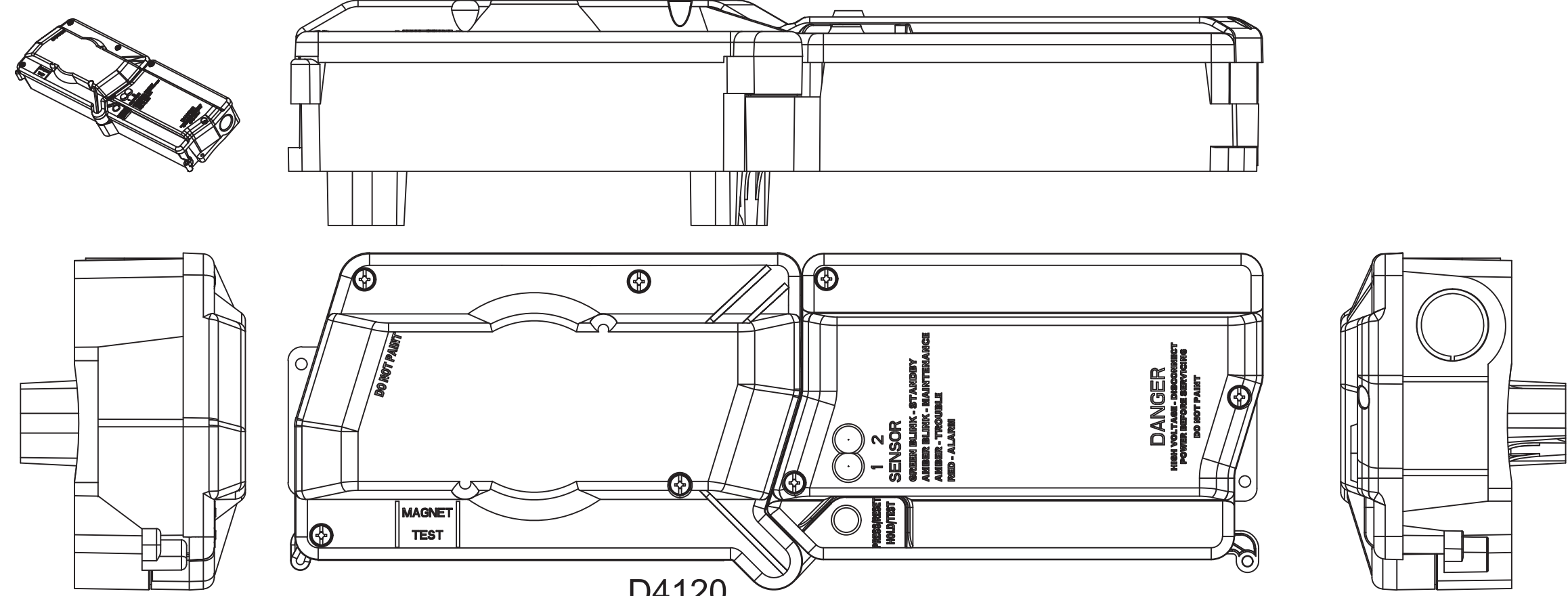


by Marmic Fire & Safety®

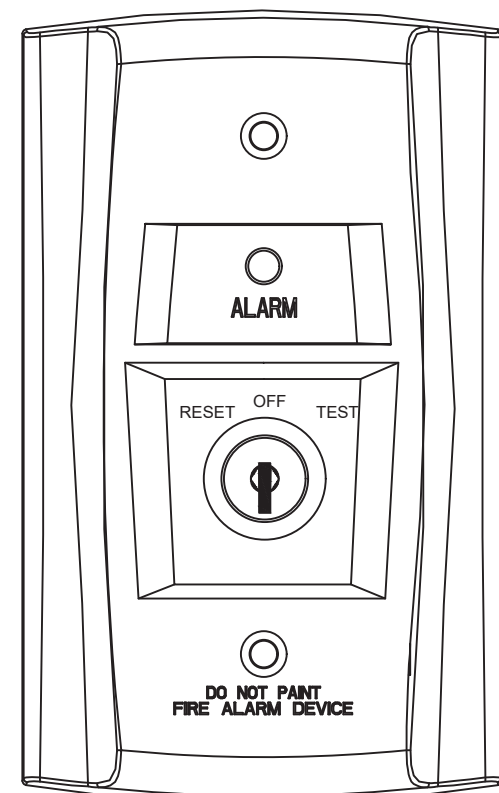
REVISION	DATE	DESCRIPTION	APPROVED
2	9/6/2024	Craft Putt	

Date: 9/6/2024	Scale: 1/8" = 10"	Project Number:
Designed by: KCFS by MARMIC FIRE & SAFETY	Drawn by: PHILLIP YOUNG	Approved By:
840 New Bluff Summit Fair	Lees Summit, MO 64086	

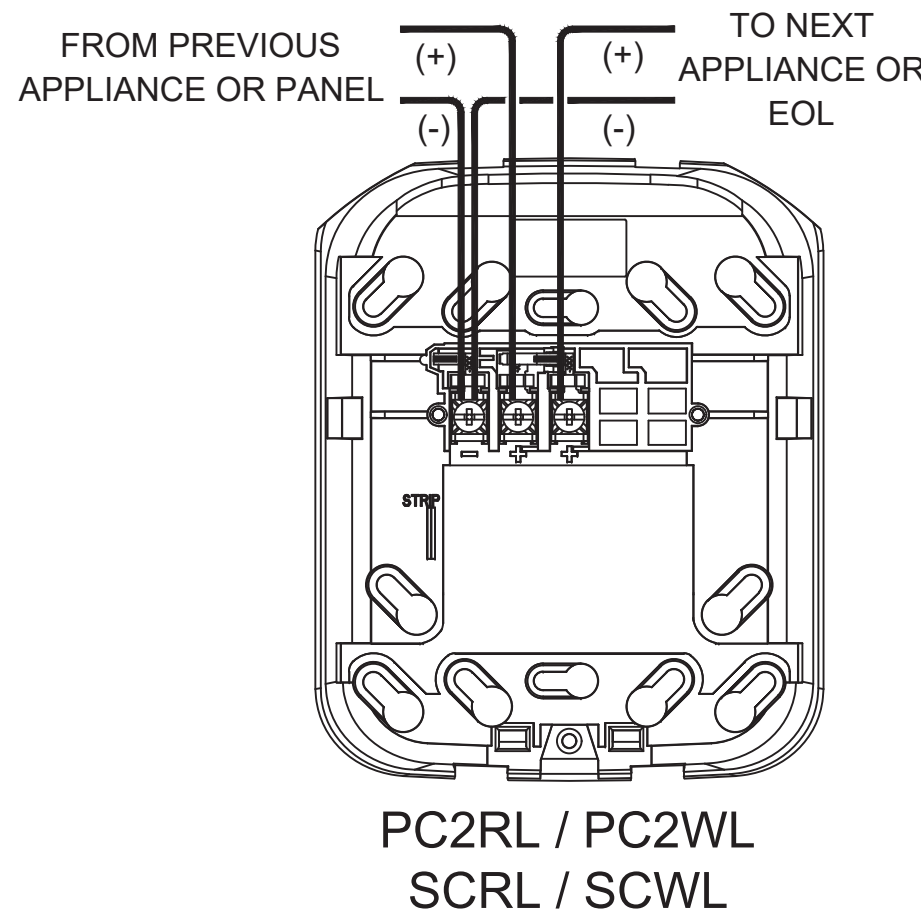
Craft Putt Summit Fair	Lees Summit, MO 64086
SHEET REFERENCE NUMBER:	5
TOTAL SHEETS	3



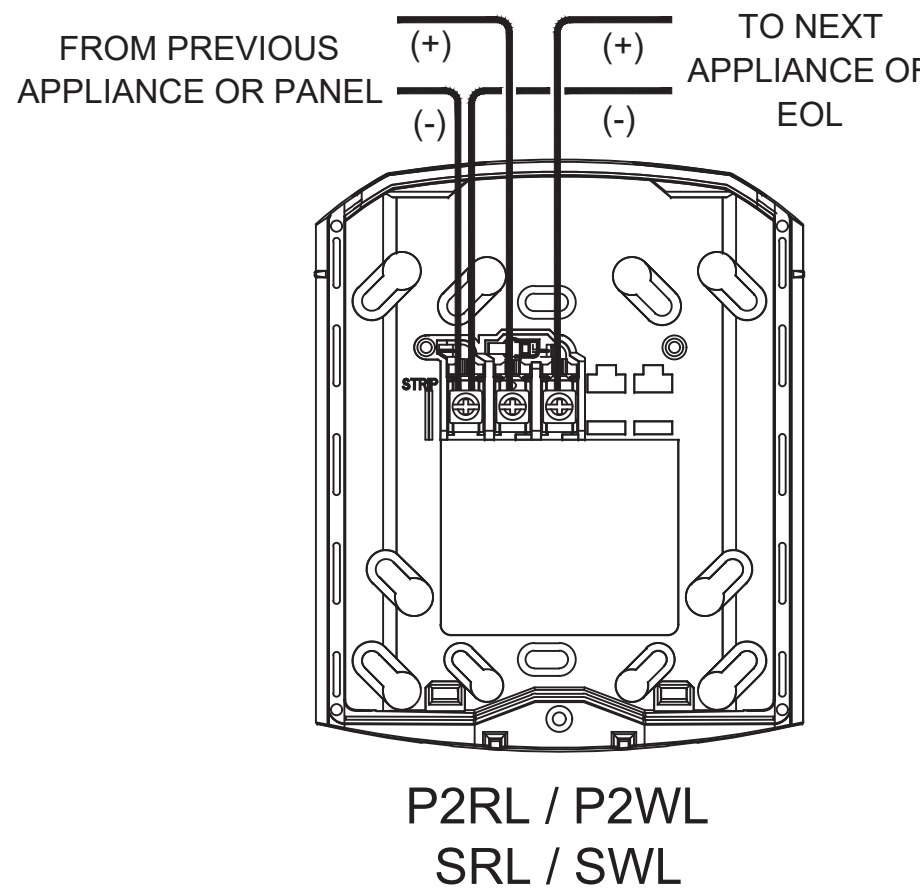
DUCT DETECTOR HOUSING



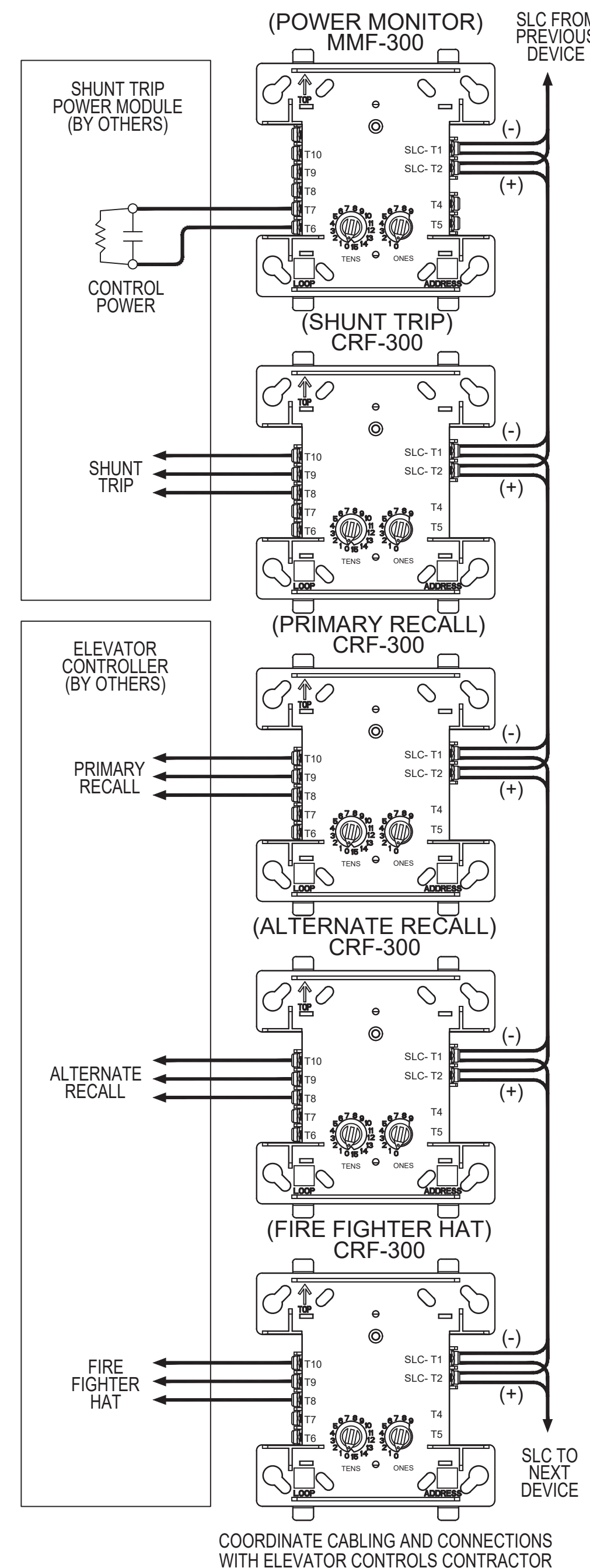
RTS151KEY



PC2RL / PC2WL
SCRL / SCWL

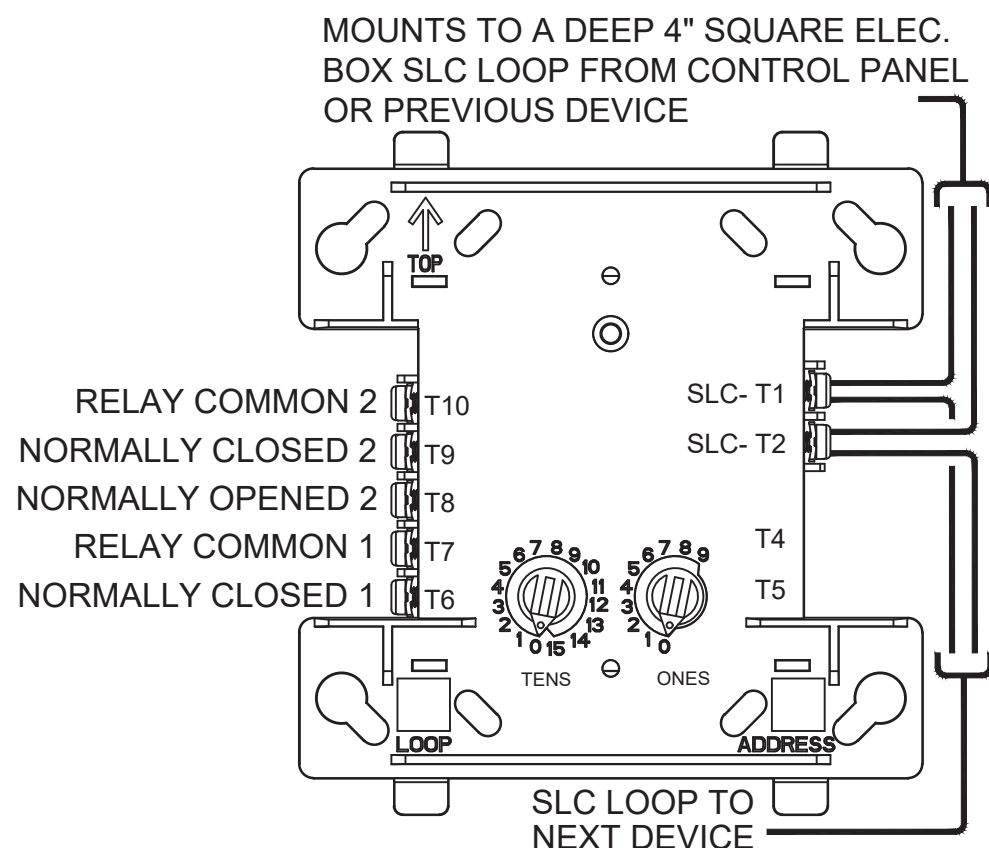


P2RL / P2WL
SRL / SWL



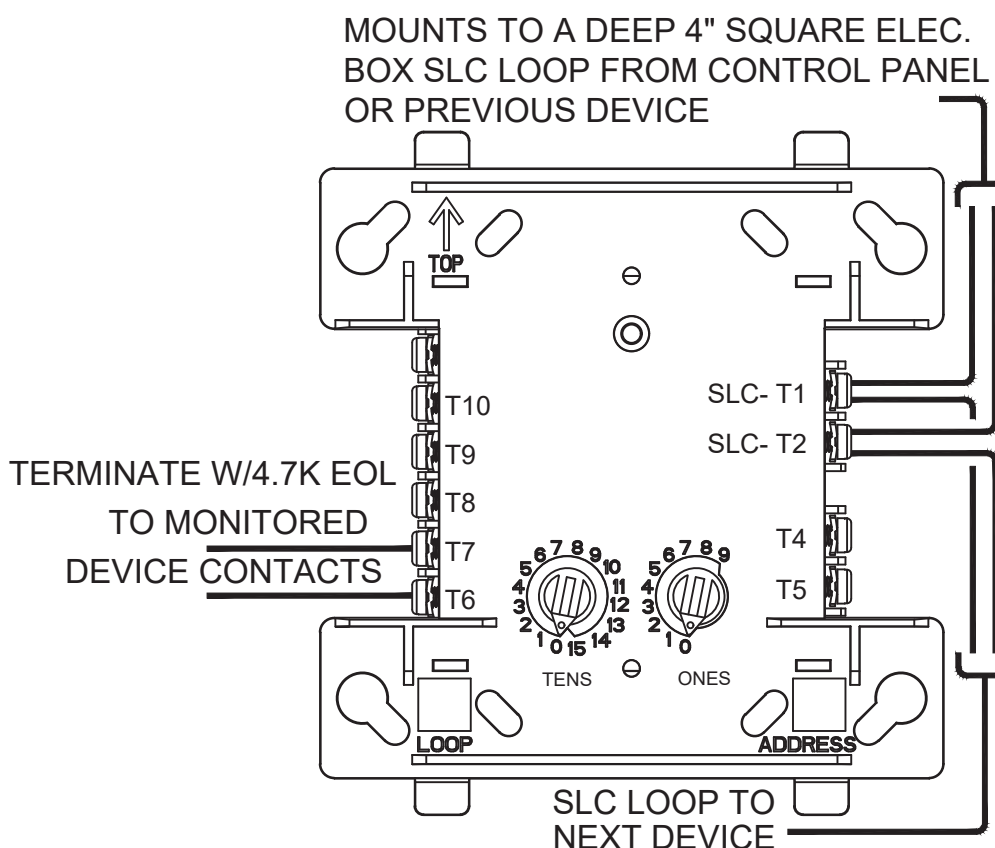
ELEVATOR CONTROL INTERFACE

ELEVATOR RECALL WITH SHUNT TRIP WIRING



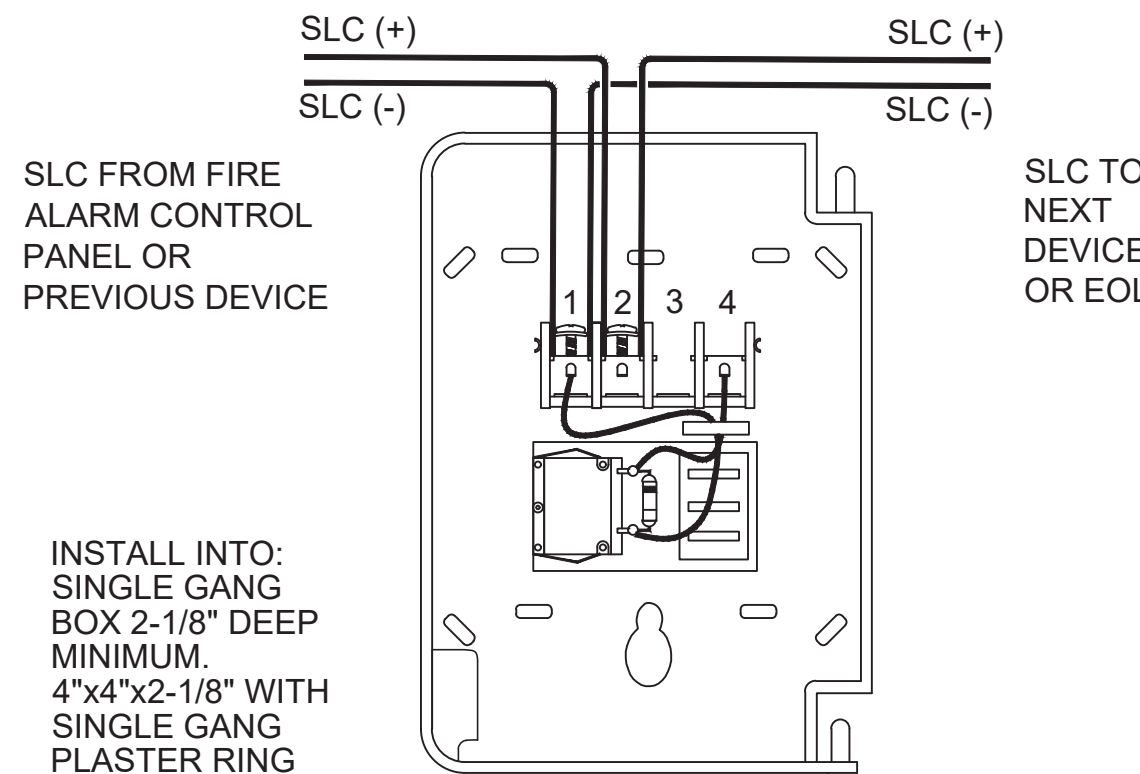
CRF-300

RELAY MODULE WIRING



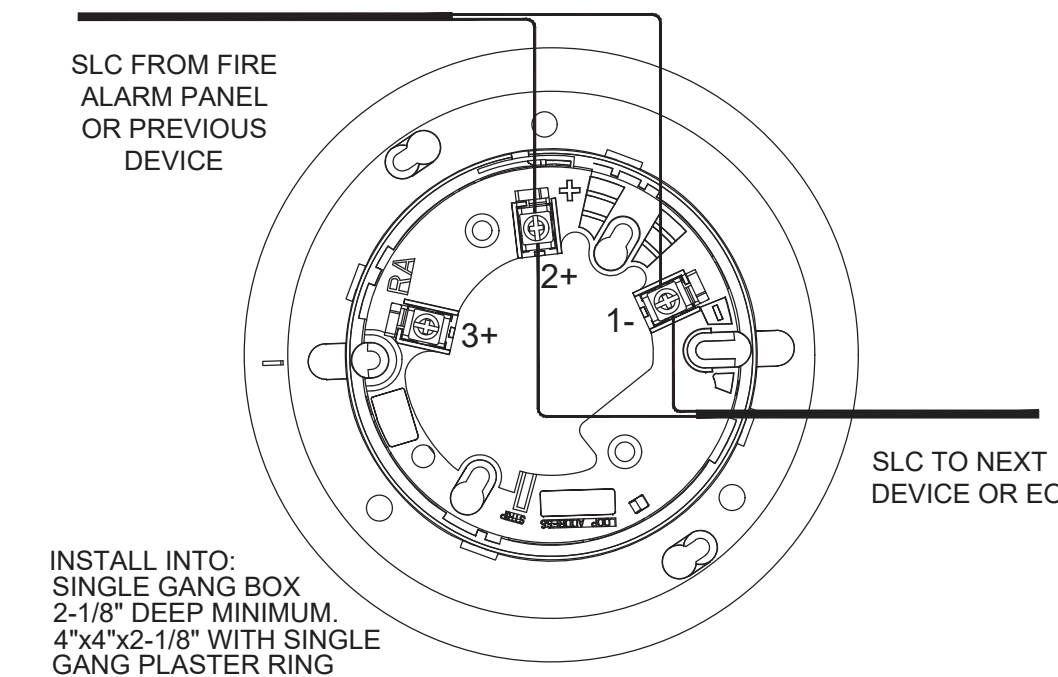
MMF-300

MONITOR MODULE WIRING



BG-12LX

PULL STATION WIRING



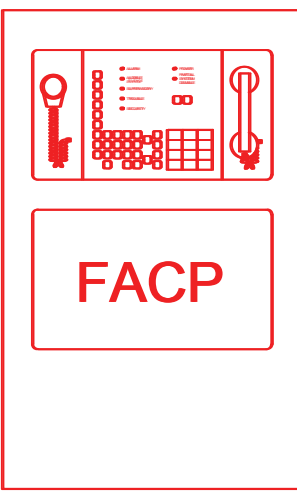
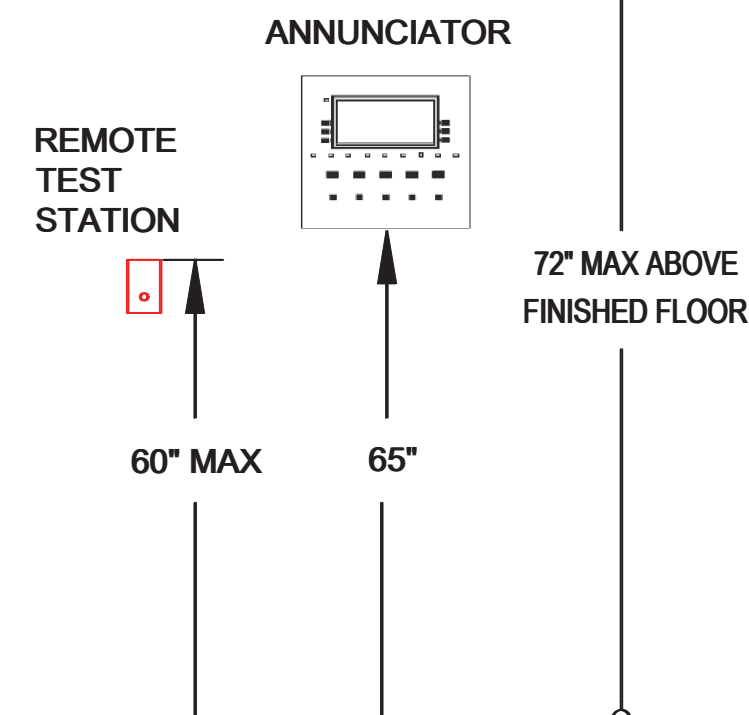
B300-6 BASE FOR
SD365 & H365

DETECTOR BASE WIRING

DEVICE MOUNTING HEIGHT
REFERENCE PER NFPA72-2016

VISUAL APPLIANCE MOUNTING HEIGHT
CONSIDERATIONS IN SLEEPING ROOMS

1. MIN DISTANCE IN SLEEPING ROOMS IS 24" (610mm) FROM CEILING TO TOP OF LENS FOR 110cd STROBES WITHIN 16' OF THE PILLOW
2. 177cd STROBES, USED IN SLEEPING ROOMS, CAN BE WITHIN 24" (610mm) MINIMUM DISTANCE FROM THE CEILING



FOR CEILING HEIGHTS LESS THAN 86" (2180mm), THE VISUAL LENS MOUNTING HEIGHT SHALL BE WITHIN 6" (150mm) OF THE CEILING.

AUDIBLE ONLY

AUDIBLE/VISUAL & VISUAL ONLY APPLIANCES

SYNCHRONIZE MORE THAN TWO APPLIANCES IN ANY FIELD OF VIEW.

NOTE: REFER TO THE PROPER DEVICE INSTALLATION INSTRUCTIONS FOR BACKBOX MOUNTING HEIGHT

REF. 80" MIN (IBC) (2032mm MIN) REF. 96" MAX (IBC) (2440mm MAX) ABOVE FINISHED FLOOR

80" MIN (ADA) (2032mm MIN) 80" MIN (NFPA) (2032mm MIN) TO BOTTOM OF LENS

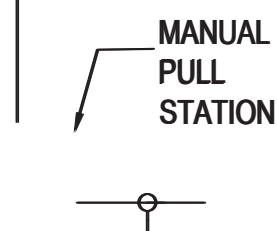
96" MAX (NFPA, ADA) (2440mm MAX) ABOVE FINISHED FLOOR TO TOP OF LENS

NFPA 72 AUDIBLE APPLIANCE 6" MIN BELOW FINISHED CEILING (152.4mm MIN) 90" MIN (2286mm MIN) ABOVE FINISHED FLOOR (OTHER MOUNTING HEIGHTS SHALL BE PERMITTED BY THE AHJ PROVIDING IT MEETS THE SOUND LEVEL OUTPUT REQUIRED.)



(48" max ADA) (1219mm) (48" max NFPA, ADA) (1219 mm MAX) (42" min NFPA) (1067mm MIN) MEASUREMENTS SHOWN ARE TO TOP OF PULL HANDLE

TO EXIT DOOR 5' (MAX.) (1524mm)



(48" max ADA) (1219mm) (48" max NFPA, ADA) (1219 mm MAX) (42" min NFPA) (1067mm MIN) MEASUREMENTS SHOWN ARE TO TOP OF PULL HANDLE

DOOR WIDTH LESS 3" (76mm)



(48" max ADA) (1219mm) (48" max NFPA, ADA) (1219 mm MAX) (42" min NFPA) (1067mm MIN) MEASUREMENTS SHOWN ARE TO TOP OF PULL HANDLE

PER NFPA 72 2019A.298.3.3 AND FIGURE A.29.8.3.3 NO RESTRICTION FROM THE CORNER TO THE CLOSEST SMOKE DETECTOR.

SMOKE OR HEAT DETECTORS NOT HERE EXCEPT IF COMPLIANT TO NFPA 72 2013 OR LATER



(48" max ADA) (1219mm) (48" max NFPA, ADA) (1219 mm MAX) (42" min NFPA) (1067mm MIN) MEASUREMENTS SHOWN ARE TO TOP OF PULL HANDLE



(48" max ADA) (1219mm) (48" max NFPA, ADA) (1219 mm MAX) (42" min NFPA) (1067mm MIN) MEASUREMENTS SHOWN ARE TO TOP OF PULL HANDLE

FINISHED WALL

FINISHED FLOOR

NOTE: MEASUREMENTS SHOWN ARE TO THE CLOSEST EDGE OF THE DETECTOR.

4" (102mm)

12" (MAX) (305mm MAX)



Michael A Panethiere, Ph.D., P.E.



REVISION	DATE	DESCRIPTION
1	9/6/2024	Craft Putt

Designed by:	Date:	Scale:	Project Number:
KCFS by MARMIC FIRE & SAFETY 4008 E. 138th Grainview, MO 64030 913-780-5237	9/6/2024	1/8" = 1"	
Drawn by:	PHILLIP YOUNG		
Approved By:			

Craft Putt Summit Fair 4008 E. 138th Lee's Summit, MO 64086	SHEET REFERENCE NUMBER: 3 TOTAL SHEETS 3
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