

<div>GENERAL NOTES</div> <div><div>1. THESE DRAWINGS DEPICT GENERAL LOCATIONS OF LIFE SAFETY EQUIPMENT &amp; FIELD DEVICES. EXACT ROUTING OF CONDUITS TO BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR TO SUIT CONDITIONS. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.</div><div>2. SHOULD ANY CONDITIONS EXIST THAT DIFFER FROM WHAT IS INDICATED ON THESE DRAWINGS WHICH CAUSE MAJOR DEVIATIONS IN THE WORK SHOWN, THE CONTRACTOR SHALL CONTACT SIMPLEXGRINNELL IN A TIMELY MANNER SO AS NOT TO IMPAIR THE CONSTRUCTION SCHEDULE.</div><div>3. CONTRACTOR IS RESPONSIBLE FOR MAKING AND OBTAINING APPROVAL FOR ALL NECESSARY ADJUSTMENTS IN CIRCUITING AS REQUIRED TO ACCOMMODATE THE RELOCATION OF EQUIPMENT AND/OR DEVICES WHICH ARE AFFECTED BY ANY AUTHORIZED CHANGE. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.</div><div>4. A STAMPED SET OF APPROVED FIRE ALARM DRAWINGS SHALL BE AT THE JOB SITE AND SHALL BE USED FOR INSTALLATION.</div><div>5. THE POWER CIRCUIT TO THE FACP AND TO THE FIRE ALARM POWER SUPPLIES SHALL BE ON A DEDICATED 120V, 20A BRANCH CIRCUIT BREAKER, AND SHALL HAVE A RED MARKING, LOCK-ON PROVISION AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL." THE LOCATION OF THE CIRCUIT DISCONNECT MEANS (CIRCUIT BREAKER) SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.</div><div>6. UPDATE THE AS-BUILT DRAWING SET DAILY WITH JOB PROGRESS. RETURN THE AS-BUILT DRAWING SET TO SIMPLEXGRINNELL NO LATER THAN 7 DAYS AFTER FINAL TEST.</div><div>7. THE CONTRACTOR WILL MAINTAIN ALL AREAS OF THE BUILDING IN A NEAT AND WORKMAN LIKE MANNER.</div><div>8. DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY TRAINED SIMPLEXGRINNELL TECHNICAL REPRESENTATIVE.</div><div>9. ANY SMOKE DETECTOR HEAD INSTALLED BEFORE THE BUILDING IS CLEANED AND ACCEPTED SHALL BE COVERED TO PROTECT FROM DUST. ANY FALSE ALARMS DUE TO DIRT CONTAMINATED HEADS SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM INSTALLER.</div><div>10. THE FIRE ALARM INSTALLER WILL MAINTAIN THE FIRE RESISTANCE INTEGRITY OF ALL WALL, CEILING, AND ROOF ASSEMBLIES ANY TIME THAT WORK IS NOT ACTIVELY BEING PERFORMED.</div><div>11. INSTALLATION OF DEVICES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. POWER LIMITED AND NON-POWER LIMITED FIELD WIRING MUST BE INSTALLED WITHIN THE FACP ENCLOSURE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND NEC.</div><div>12. ALL WIRING SHALL BE INSTALLED ACCORDING TO NFPA 70 (NEC).</div><div>13. FIRE ALARM CIRCUITS SHALL BE IDENTIFIED IN ACCORDANCE WITH APPROPRIATE SECTION OF NEC 760. MARK ALL FIRE ALARM WIRES IN ACCORDANCE WITH NEC 760 SECTIONS FOR POWER LIMITED AND NON-POWER LIMITED WIRE.</div><div>14. FIRE ALARM CABLE INSTALLED IN DUCTS, PLENUM, AND OTHER SPACES USED FOR ENVIRONMENTAL AIR SHALL BE TYPE FPLP.</div><div>15. FIRE ALARM CABLE INSTALLED IN THE VERTICAL RUNS AND PENETRATE MORE THAN ONE FLOOR OR CABLES INSTALLED IN VERTICAL RUNS IN SHAFTS SHALL BE TYPE FPLP.</div><div>16. FIRE ALARM CABLE INSTALLED IN UNDERGROUND CONDUIT OR OTHER WET LOCATIONS SHALL BE UL LISTED FOR WET LOCATIONS.</div><div>17. FIRE ALARM CIRCUITS EXTENDING BEYOND ONE BUILDING AND RUN OUTDOOR SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 ARTICLES 760, 770, 725 AND 800 WHERE APPLICABLE.</div><div>18. ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.</div><div>19. ALL SHIELDED WIRE MUST HAVE SHIELD CONTINUITY AT FULL LENGTH OF THE WIRE.</div><div>20. ONLY SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT.</div><div>21. 120VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING.</div><div>22. MAINTAIN 40 PERCENT CONDUIT FILL RATIO AS PER NEC REQUIREMENTS.</div><div>23. EXISTING CONDUITS MAY BE USED BY THE INSTALLATION CONTRACTOR AS DEEMED NECESSARY, HOWEVER, ANY EXISTING CONDUIT WILL BE USED ONLY IF CONDUITS MEET CURRENT STANDARDS AND CODES. SIMPLEXGRINNELL MAKES NO STATEMENTS WRITTEN OR VERBAL AS TO THE CONDITION OF EXISTING CONDUITS.</div></div>	<div>SYSTEM DESCRIPTION / SCOPE OF WORK</div> <div>OCCUPANCY TYPE: R-1 RESIDENTIAL GROUP</div> <div>SPRINKLER PROTECTION: BUILDING IS FULLY SPRINKLED</div> <div>PROVIDE AND INSTALL A NEW AUTOMATIC AND MANUAL FIRE ALARM SYSTEM AS SHOWN ON DRAWINGS.</div> <div>ALL WIRING TO BE CLASS B. WIRING IS STYLE Y FOR NOTIFICATION APPLIANCE CIRCUITS; STYLE B FOR INITIATING DEVICE CIRCUITS, AND STYLE 4 FOR SIGNALING LINE CIRCUITS.</div> <div>AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUIS UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY THE OWNER.</div>	<div>SYMBOL KEY</div> <div>FIRE ALARM SYMBOLS LEGEND</div> <table><tr><th>SYMBOL</th><th>DESCRIPTION</th><th>MODEL#</th><th>COMMONLY USED BACKBOX, REFER TO DATA SHEET FOR OTHER OPTIONS</th></tr><tr><td></td><td>FIRE ALARM CONTROL PANEL W / 25AH BATTERY SET</td><td>SIMPLEX 4100-9111 SIMPLEX 2081-9288</td><td>3 BAY CABINET SUPPLIED BY SIMPLEXGRINNELL 24" WIDE X 56" HIGH X 6 3/4" DEEP (610mm WIDE X 1423mm HIGH X 172mm DEEP)</td></tr><tr><td></td><td>MANUAL PULL STATION</td><td>SIMPLEX 4099-9003</td><td>SINGLE GANG BOX 2 1/2" DEEP</td></tr><tr><td></td><td>SMOKE SENSOR, WITH CO SENSOR BASE SB = INTEGRAL SOUNDER HEAT SENSOR / BASE SB = INTEGRAL SOUNDER BASE</td><td>SIMPLEX 4098-9714 SIMPLEX 4098-9798 BASE  SIMPLEX 4098-9733 SIMPLEX 4098-9792 BASE SIMPLEX 4098-9798 BASE</td><td>4" OCTAGONAL BOX 1 1/2" DEEP  4" OCTAGONAL BOX 1 1/2" DEEP</td></tr><tr><td></td><td>DUCT SMOKE SENSOR</td><td>SIMPLEX 4098-9756</td><td>MOUNT TO DUCTWORK</td></tr><tr><td></td><td>REMOTE TEST STATION W/ LED AND KEY SWITCH</td><td>SIMPLEX 2098-9806</td><td>SINGLE GANG BOX 2 1/2" DEEP</td></tr><tr><td></td><td>ENCAPSULATED RELAY</td><td>AIR PRODUCTS PAM-SD</td><td>SINGLE GANG BOX 2 1/8" DEEP W/COVER</td></tr><tr><td></td><td>TEMPORAL CODE 4 MODULE</td><td>SIMPLEX 4905-9835</td><td>4" SQUARE BACK BOX, 2 1/8" DEEP</td></tr><tr><td></td><td>NAC EXTENDER PANEL # DESIGNATES THE NAC PANEL NUMBER W / 6.2AH BATTERY SET</td><td>SIMPLEX 4009-9201 SIMPLEX 2081-9272</td><td>SUPPLIED BY SIMPLEXGRINNELL</td></tr><tr><td></td><td>INDIVIDUAL ADDRESSABLE MODULE</td><td>SIMPLEX 4090-9001</td><td>SINGLE GANG BOX 2 1/2" DEEP WITH COVER</td></tr><tr><td></td><td>RELAY IAM</td><td>SIMPLEX 4090-9002</td><td>4" SQUARE BOX 2 1/8" DEEP W/TWO GANG COVER</td></tr><tr><td></td><td>WATERFLOW SWITCH</td><td>SUPPLIED BY OTHERS</td><td>INSTALLED BY MECHANICAL CONTRACTOR</td></tr><tr><td></td><td>TAMPER SWITCH</td><td>SUPPLIED BY OTHERS</td><td>INSTALLED BY MECHANICAL CONTRACTOR</td></tr><tr><td></td><td>DOCUMENT STORAGE CABINET</td><td>SPACE AGE SSU00685</td><td>N/A</td></tr><tr><td></td><td>PE SMOKE DETECTOR 120V/9V TEMPORAL</td><td>GENTEX 9123</td><td>N/A</td></tr><tr><td></td><td>PHOTO/CO DETECTOR 120VAC/9VDC</td><td>GENTEX GN-503</td><td>N/A</td></tr><tr><td></td><td>WALL MOUNT MULTI-CANDELA HORN/STROBE WHITE # =CANDELA RATING</td><td>SIMPLEX 4906-9129</td><td>4" SQUARE BOX 1 1/2" DEEP W/4905-9940 ADAPTER SKIRT WHEN SURFACE MOUNTED</td></tr><tr><td></td><td>WALL MOUNT MULTI-CANDELA STROBE ONLY WHITE # =CANDELA RATING</td><td>SIMPLEX 4906-9103</td><td>4" SQUARE BOX 1 1/2" DEEP W/4905-9940 ADAPTER SKIRT WHEN SURFACE MOUNTED</td></tr><tr><td></td><td>MINI-HORN, WHITE</td><td>SIMPLEX 4901-9859</td><td>SINGLE GANG BOX 1 1/2" DEEP</td></tr><tr><td></td><td>RADIO/MASTERBOX</td><td>AES 7788-F</td><td>INCLUDED</td></tr></table>	SYMBOL	DESCRIPTION	MODEL#	COMMONLY USED BACKBOX, REFER TO DATA SHEET FOR OTHER OPTIONS		FIRE ALARM CONTROL PANEL W / 25AH BATTERY SET	SIMPLEX 4100-9111 SIMPLEX 2081-9288	3 BAY CABINET SUPPLIED BY SIMPLEXGRINNELL 24" WIDE X 56" HIGH X 6 3/4" DEEP (610mm WIDE X 1423mm HIGH X 172mm DEEP)		MANUAL PULL STATION	SIMPLEX 4099-9003	SINGLE GANG BOX 2 1/2" DEEP		SMOKE SENSOR, WITH CO SENSOR BASE SB = INTEGRAL SOUNDER HEAT SENSOR / BASE SB = INTEGRAL SOUNDER BASE	SIMPLEX 4098-9714 SIMPLEX 4098-9798 BASE  SIMPLEX 4098-9733 SIMPLEX 4098-9792 BASE SIMPLEX 4098-9798 BASE	4" OCTAGONAL BOX 1 1/2" DEEP  4" OCTAGONAL BOX 1 1/2" DEEP		DUCT SMOKE SENSOR	SIMPLEX 4098-9756	MOUNT TO DUCTWORK		REMOTE TEST STATION W/ LED AND KEY SWITCH	SIMPLEX 2098-9806	SINGLE GANG BOX 2 1/2" DEEP		ENCAPSULATED RELAY	AIR PRODUCTS PAM-SD	SINGLE GANG BOX 2 1/8" DEEP W/COVER		TEMPORAL CODE 4 MODULE	SIMPLEX 4905-9835	4" SQUARE BACK BOX, 2 1/8" DEEP		NAC EXTENDER PANEL # DESIGNATES THE NAC PANEL NUMBER W / 6.2AH BATTERY SET	SIMPLEX 4009-9201 SIMPLEX 2081-9272	SUPPLIED BY SIMPLEXGRINNELL		INDIVIDUAL ADDRESSABLE MODULE	SIMPLEX 4090-9001	SINGLE GANG BOX 2 1/2" DEEP WITH COVER		RELAY IAM	SIMPLEX 4090-9002	4" SQUARE BOX 2 1/8" DEEP W/TWO GANG COVER		WATERFLOW SWITCH	SUPPLIED BY OTHERS	INSTALLED BY MECHANICAL CONTRACTOR		TAMPER SWITCH	SUPPLIED BY OTHERS	INSTALLED BY MECHANICAL CONTRACTOR		DOCUMENT STORAGE CABINET	SPACE AGE SSU00685	N/A		PE SMOKE DETECTOR 120V/9V TEMPORAL	GENTEX 9123	N/A		PHOTO/CO DETECTOR 120VAC/9VDC	GENTEX GN-503	N/A		WALL MOUNT MULTI-CANDELA HORN/STROBE WHITE # =CANDELA RATING	SIMPLEX 4906-9129	4" SQUARE BOX 1 1/2" DEEP W/4905-9940 ADAPTER SKIRT WHEN SURFACE MOUNTED		WALL MOUNT MULTI-CANDELA STROBE ONLY WHITE # =CANDELA RATING	SIMPLEX 4906-9103	4" SQUARE BOX 1 1/2" DEEP W/4905-9940 ADAPTER SKIRT WHEN SURFACE MOUNTED		MINI-HORN, WHITE	SIMPLEX 4901-9859	SINGLE GANG BOX 1 1/2" DEEP		RADIO/MASTERBOX	AES 7788-F	INCLUDED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
SYMBOL	DESCRIPTION	MODEL#	COMMONLY USED BACKBOX, REFER TO DATA SHEET FOR OTHER OPTIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	FIRE ALARM CONTROL PANEL W / 25AH BATTERY SET	SIMPLEX 4100-9111 SIMPLEX 2081-9288	3 BAY CABINET SUPPLIED BY SIMPLEXGRINNELL 24" WIDE X 56" HIGH X 6 3/4" DEEP (610mm WIDE X 1423mm HIGH X 172mm DEEP)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	MANUAL PULL STATION	SIMPLEX 4099-9003	SINGLE GANG BOX 2 1/2" DEEP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	SMOKE SENSOR, WITH CO SENSOR BASE SB = INTEGRAL SOUNDER HEAT SENSOR / BASE SB = INTEGRAL SOUNDER BASE	SIMPLEX 4098-9714 SIMPLEX 4098-9798 BASE  SIMPLEX 4098-9733 SIMPLEX 4098-9792 BASE SIMPLEX 4098-9798 BASE	4" OCTAGONAL BOX 1 1/2" DEEP  4" OCTAGONAL BOX 1 1/2" DEEP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	DUCT SMOKE SENSOR	SIMPLEX 4098-9756	MOUNT TO DUCTWORK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	REMOTE TEST STATION W/ LED AND KEY SWITCH	SIMPLEX 2098-9806	SINGLE GANG BOX 2 1/2" DEEP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	ENCAPSULATED RELAY	AIR PRODUCTS PAM-SD	SINGLE GANG BOX 2 1/8" DEEP W/COVER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	TEMPORAL CODE 4 MODULE	SIMPLEX 4905-9835	4" SQUARE BACK BOX, 2 1/8" DEEP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	NAC EXTENDER PANEL # DESIGNATES THE NAC PANEL NUMBER W / 6.2AH BATTERY SET	SIMPLEX 4009-9201 SIMPLEX 2081-9272	SUPPLIED BY SIMPLEXGRINNELL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	INDIVIDUAL ADDRESSABLE MODULE	SIMPLEX 4090-9001	SINGLE GANG BOX 2 1/2" DEEP WITH COVER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	RELAY IAM	SIMPLEX 4090-9002	4" SQUARE BOX 2 1/8" DEEP W/TWO GANG COVER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WATERFLOW SWITCH	SUPPLIED BY OTHERS	INSTALLED BY MECHANICAL CONTRACTOR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	TAMPER SWITCH	SUPPLIED BY OTHERS	INSTALLED BY MECHANICAL CONTRACTOR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	DOCUMENT STORAGE CABINET	SPACE AGE SSU00685	N/A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	PE SMOKE DETECTOR 120V/9V TEMPORAL	GENTEX 9123	N/A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	PHOTO/CO DETECTOR 120VAC/9VDC	GENTEX GN-503	N/A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WALL MOUNT MULTI-CANDELA HORN/STROBE WHITE # =CANDELA RATING	SIMPLEX 4906-9129	4" SQUARE BOX 1 1/2" DEEP W/4905-9940 ADAPTER SKIRT WHEN SURFACE MOUNTED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WALL MOUNT MULTI-CANDELA STROBE ONLY WHITE # =CANDELA RATING	SIMPLEX 4906-9103	4" SQUARE BOX 1 1/2" DEEP W/4905-9940 ADAPTER SKIRT WHEN SURFACE MOUNTED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	MINI-HORN, WHITE	SIMPLEX 4901-9859	SINGLE GANG BOX 1 1/2" DEEP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	RADIO/MASTERBOX	AES 7788-F	INCLUDED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
<div>WIRE SCHEDULE</div> <div>FIRE ALARM WIRE LIST</div> <table><tr><th>CIRCUIT DESCRIPTION</th><th>RISER RATED: FPLP</th><th>SINGLE CONDUCTOR(THHN,TFFN)</th><th>PLENUM RATED: FPLP</th></tr><tr><td>H AUDIBLE CIRCUIT - 2 CONDUCTOR 14 AWG SOLID</td><td>SG ANIX/PAIGE 454719ARE AREA=0.0380 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-1N-03-BX</td><td>(2) #14 AWG AREA=0.0097 SQ. INCH (EACH)</td><td>SG ANIX/PAIGE 454719ARE AREA=0.0333 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-2N-03</td></tr><tr><td>K REMOTE TEST SWITCH/ LED CIRCUIT - (2) 2 CONDUCTOR 18 AWG SOLID</td><td>SG ANIX/PAIGE 454703ARE AREA=0.0204 SQ. INCH ANIXTER PART NUMBER FA-1802C-1-1N-03-BX</td><td>(4) #18 AWG AREA=0.0055 SQ. INCH (EACH)</td><td>SG ANIX/PAIGE 740132R AREA=0.0141 SQ. INCH ANIXTER PART NUMBER FA-1802C-1-2N-03</td></tr><tr><td>M MAPNET/IDNET CIRCUIT 1 PAIR 16 AWG TWISTED OVERALL SHIELD</td><td>SG ANIX/PAIGE 740218L AREA=0.0269 SQ. INCH ANIXTER PART NUMBER 740218L</td><td></td><td>ANIXTER PART NUMBER FA-1802C-1-2S-03 AREA=0.0246 SQ. INCH</td></tr><tr><td>P POWER CIRCUIT 2 CONDUCTOR 16 AWG SOLID (SUBSCRIPT 1" IF RESETTABLE)</td><td>SG ANIX/PAIGE 454731ARE AREA=0.0272 SQ. INCH ANIXTER PART NUMBER FA-1602C-1-1N-03-BX</td><td>(4) #16 AWG AREA=0.0072 SQ. INCH (EACH)</td><td>SG ANIX/PAIGE 454740ARE AREA=0.0208 SQ. INCH ANIXTER PART NUMBER FA-1602C-1-2N-03</td></tr><tr><td>R RELAY CIRCUIT 2 CONDUCTOR 14 AWG SOLID</td><td>SG ANIX/PAIGE 454719ARE AREA=0.0380 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-1N-03-BX</td><td>(2) #14 AWG AREA=0.0097 SQ. INCH (EACH)</td><td>SG ANIX/PAIGE 454719ARE AREA=0.0333 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-2N-03</td></tr><tr><td>V VISUAL/SIGNAL CIRCUIT 2 CONDUCTOR 14 AWG SOLID</td><td>SG ANIX/PAIGE 454719ARE AREA=0.0380 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-1N-03-BX</td><td>(2) #14 AWG AREA=0.0097 SQ. INCH (EACH)</td><td>SG ANIX/PAIGE 454719ARE AREA=0.0333 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-2N-03</td></tr><tr><td>Z ZONE CIRCUIT 2 CONDUCTOR 16 AWG SOLID</td><td>SG ANIX/PAIGE 454731ARE AREA=0.0272 SQ. INCH ANIXTER PART NUMBER FA-1602C-1-1N-03-BX</td><td>(2) #16 AWG AREA=0.0072 SQ. INCH (EACH)</td><td>SG ANIX/PAIGE 454740ARE AREA=0.0209 SQ. INCH ANIXTER PART NUMBER FA-1602C-1-2N-03</td></tr><tr><td>CONDUIT SIZE</td><td>CONDUCTOR AREA</td><td>CONDUIT SIZE</td><td>CONDUCTOR AREA</td></tr><tr><td>1/2"</td><td>0.12 SQ INCH •</td><td>1-1/4"</td><td>0.60 SQ INCH •</td></tr><tr><td>3/4"</td><td>0.21 SQ INCH •</td><td>1-1/2"</td><td>0.82 SQ INCH •</td></tr><tr><td>1"</td><td>0.34 SQ INCH •</td><td>2"</td><td>1.34 SQ INCH •</td></tr><tr><td colspan="4">• 40% FILL PER N.E.C.</td></tr></table> <div>THE CABLES SPECIFIED HERE ARE FOR REFERENCE OF REQUIRED ELECTRICAL CHARACTERISTICS AS WELL AS CODE REQUIREMENTS. ALTERNATE SUPPLIERS MAY BE SUBSTITUTED PROVIDING EQUIVALENT CHARACTERISTICS ARE MAINTAINED. ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM INSTALLATION.</div> <div>REFERENCE <a href="https://www.anixter.com/customer/tvcofs">https://www.anixter.com/customer/tvcofs</a> FOR SG ANIXTER CABLE DATA</div>	CIRCUIT DESCRIPTION	RISER RATED: FPLP	SINGLE CONDUCTOR(THHN,TFFN)	PLENUM RATED: FPLP	H AUDIBLE CIRCUIT - 2 CONDUCTOR 14 AWG SOLID	SG ANIX/PAIGE 454719ARE AREA=0.0380 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-1N-03-BX	(2) #14 AWG AREA=0.0097 SQ. INCH (EACH)	SG ANIX/PAIGE 454719ARE AREA=0.0333 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-2N-03	K REMOTE TEST SWITCH/ LED CIRCUIT - (2) 2 CONDUCTOR 18 AWG SOLID	SG ANIX/PAIGE 454703ARE AREA=0.0204 SQ. INCH ANIXTER PART NUMBER FA-1802C-1-1N-03-BX	(4) #18 AWG AREA=0.0055 SQ. INCH (EACH)	SG ANIX/PAIGE 740132R AREA=0.0141 SQ. INCH ANIXTER PART NUMBER FA-1802C-1-2N-03	M MAPNET/IDNET CIRCUIT 1 PAIR 16 AWG TWISTED OVERALL SHIELD	SG ANIX/PAIGE 740218L AREA=0.0269 SQ. INCH ANIXTER PART NUMBER 740218L		ANIXTER PART NUMBER FA-1802C-1-2S-03 AREA=0.0246 SQ. INCH	P POWER CIRCUIT 2 CONDUCTOR 16 AWG SOLID (SUBSCRIPT 1" IF RESETTABLE)	SG ANIX/PAIGE 454731ARE AREA=0.0272 SQ. INCH ANIXTER PART NUMBER FA-1602C-1-1N-03-BX	(4) #16 AWG AREA=0.0072 SQ. INCH (EACH)	SG ANIX/PAIGE 454740ARE AREA=0.0208 SQ. INCH ANIXTER PART NUMBER FA-1602C-1-2N-03	R RELAY CIRCUIT 2 CONDUCTOR 14 AWG SOLID	SG ANIX/PAIGE 454719ARE AREA=0.0380 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-1N-03-BX	(2) #14 AWG AREA=0.0097 SQ. INCH (EACH)	SG ANIX/PAIGE 454719ARE AREA=0.0333 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-2N-03	V VISUAL/SIGNAL CIRCUIT 2 CONDUCTOR 14 AWG SOLID	SG ANIX/PAIGE 454719ARE AREA=0.0380 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-1N-03-BX	(2) #14 AWG AREA=0.0097 SQ. INCH (EACH)	SG ANIX/PAIGE 454719ARE AREA=0.0333 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-2N-03	Z ZONE CIRCUIT 2 CONDUCTOR 16 AWG SOLID	SG ANIX/PAIGE 454731ARE AREA=0.0272 SQ. INCH ANIXTER PART NUMBER FA-1602C-1-1N-03-BX	(2) #16 AWG AREA=0.0072 SQ. INCH (EACH)	SG ANIX/PAIGE 454740ARE AREA=0.0209 SQ. INCH ANIXTER PART NUMBER FA-1602C-1-2N-03	CONDUIT SIZE	CONDUCTOR AREA	CONDUIT SIZE	CONDUCTOR AREA	1/2"	0.12 SQ INCH •	1-1/4"	0.60 SQ INCH •	3/4"	0.21 SQ INCH •	1-1/2"	0.82 SQ INCH •	1"	0.34 SQ INCH •	2"	1.34 SQ INCH •	• 40% FILL PER N.E.C.				<div>ABBREVIATIONS LEGEND</div> <div>AC = ABOVE CEILING C = CEILING MOUNTED E = EXISTING TO REMAIN RC = EXISTING TO REMOVE AND COVER RD = EXISTING DEVICE TO BE RELOCATED RL = RELOCATED DEVICE RR = REMOVE EXISTING AND REPLACE W/NEW  WP = WEATHERPROOF XP = EXPLOSION PROOF H = HIGH HUMIDITY AFF = ABOVE FINISHED FLOOR AHJ = AUTHORITY HAVING JURISDICTION ALM = ALARM ANN = ANNUNCIATOR BMS = BUILDING MANAGEMENT SYSTEM CBS = CALIFORNIA BUILDING CODE CD = (eq. 15CD) CANDELA CSFM = CALIFORNIA STATE FIRE MARSHALL DET = DETECTOR DGP = DATA GATHERING PANEL EOL = END OF LINE EPO = EMERGENCY POWER OFF FACP = FIRE ALARM CONTROL PANEL FATC = FIRE ALARM TERMINAL CABINET FBO = FURNISHED BY OTHERS FCO = FIRE COMMAND CENTER FAA = FIRE ALARM ANNUNCIATOR FTR = FIRE ALARM TRANSPONDER FSD = FIRE SMOKE DAMPER  HT = HEIGHT HVAC = HEATING, VENTILATION, &amp; AIR CONDITIONING IMS = INFORMATION MANAGEMENT SYSTEM MAX = MAXIMUM MIN = MINIMUM N/A = NOT APPLICABLE NAC = NOTIFICATION APPLIANCE CIRCUIT EXTENDER NDU = NETWORK DISPLAY UNIT NEC = NATIONAL ELECTRICAL CODE NFPA = NATIONAL FIRE PROTECTION ASSOCIATION NIC = NOT IN CONTRACT NPU = NETWORK PROCESSING UNIT NTS = NOT TO SCALE PAP = PRE-ACTION PANEL SCC = STATUS COMMAND CENTER SLC = SIGNALING LINE CIRCUIT SMK = SMOKE SUPV = SUPERVISORY TAC = TRUEALERT ADDRESSABLE CONTROLLER TRBL = TROUBLE TS = TAMPER SWITCH TYP = TYPICAL UON = UNLESS OTHERWISE NOTED VCC = VOICE COMMAND CENTER VT = VALVE TAMPER WF = WATER FLOW W = (eq. 1/2W) WATT W/ = WITH W/O = WITH OUT</div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CIRCUIT DESCRIPTION	RISER RATED: FPLP	SINGLE CONDUCTOR(THHN,TFFN)	PLENUM RATED: FPLP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
H AUDIBLE CIRCUIT - 2 CONDUCTOR 14 AWG SOLID	SG ANIX/PAIGE 454719ARE AREA=0.0380 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-1N-03-BX	(2) #14 AWG AREA=0.0097 SQ. INCH (EACH)	SG ANIX/PAIGE 454719ARE AREA=0.0333 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-2N-03																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
K REMOTE TEST SWITCH/ LED CIRCUIT - (2) 2 CONDUCTOR 18 AWG SOLID	SG ANIX/PAIGE 454703ARE AREA=0.0204 SQ. INCH ANIXTER PART NUMBER FA-1802C-1-1N-03-BX	(4) #18 AWG AREA=0.0055 SQ. INCH (EACH)	SG ANIX/PAIGE 740132R AREA=0.0141 SQ. INCH ANIXTER PART NUMBER FA-1802C-1-2N-03																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
M MAPNET/IDNET CIRCUIT 1 PAIR 16 AWG TWISTED OVERALL SHIELD	SG ANIX/PAIGE 740218L AREA=0.0269 SQ. INCH ANIXTER PART NUMBER 740218L		ANIXTER PART NUMBER FA-1802C-1-2S-03 AREA=0.0246 SQ. INCH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
P POWER CIRCUIT 2 CONDUCTOR 16 AWG SOLID (SUBSCRIPT 1" IF RESETTABLE)	SG ANIX/PAIGE 454731ARE AREA=0.0272 SQ. INCH ANIXTER PART NUMBER FA-1602C-1-1N-03-BX	(4) #16 AWG AREA=0.0072 SQ. INCH (EACH)	SG ANIX/PAIGE 454740ARE AREA=0.0208 SQ. INCH ANIXTER PART NUMBER FA-1602C-1-2N-03																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
R RELAY CIRCUIT 2 CONDUCTOR 14 AWG SOLID	SG ANIX/PAIGE 454719ARE AREA=0.0380 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-1N-03-BX	(2) #14 AWG AREA=0.0097 SQ. INCH (EACH)	SG ANIX/PAIGE 454719ARE AREA=0.0333 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-2N-03																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
V VISUAL/SIGNAL CIRCUIT 2 CONDUCTOR 14 AWG SOLID	SG ANIX/PAIGE 454719ARE AREA=0.0380 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-1N-03-BX	(2) #14 AWG AREA=0.0097 SQ. INCH (EACH)	SG ANIX/PAIGE 454719ARE AREA=0.0333 SQ. INCH ANIXTER PART NUMBER FA-1402C-1-2N-03																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Z ZONE CIRCUIT 2 CONDUCTOR 16 AWG SOLID	SG ANIX/PAIGE 454731ARE AREA=0.0272 SQ. INCH ANIXTER PART NUMBER FA-1602C-1-1N-03-BX	(2) #16 AWG AREA=0.0072 SQ. INCH (EACH)	SG ANIX/PAIGE 454740ARE AREA=0.0209 SQ. INCH ANIXTER PART NUMBER FA-1602C-1-2N-03																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
CONDUIT SIZE	CONDUCTOR AREA	CONDUIT SIZE	CONDUCTOR AREA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
1/2"	0.12 SQ INCH •	1-1/4"	0.60 SQ INCH •																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
3/4"	0.21 SQ INCH •	1-1/2"	0.82 SQ INCH •																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
1"	0.34 SQ INCH •	2"	1.34 SQ INCH •																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
• 40% FILL PER N.E.C.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	<div>DEVICE ADDRESSING LEGEND</div> <div>ADDRESSABLE CARD (IDNET OR MAPNET)</div> <div>DEVICE ADDRESS</div> <div>M2-1</div> <div>ADDRESSABLE DEVICES NUMBERING</div> <div>4009 NAC PANEL (WHEN APPLICABLE)</div> <div>CIRCUIT DESIGNATOR H=VISUAL OR A/V, H=AUDIBLE ONLY</div> <div>DEVICE DESIGNATOR</div> <div>NAC1:V2-1</div> <div>VISUAL, AUDIBLE OR A/V DEVICE</div> <div>IDC (ZONE) DESIGNATION</div> <div>DEVICE DESIGNATOR</div> <div>Z3-1</div> <div>ZONED INITIATING DEVICE</div>	<div>SEQUENCE OF OPERATION</div> <table><tr><th rowspan="2">SYSTEM INPUTS</th><th colspan="10">SYSTEM OUTPUTS</th><th colspan="10">CONTROL UNIT ANNUNCIATION</th><th colspan="10">NOTIFICATION</th><th colspan="10">FIRE SAFETY CONTROL</th><th rowspan="2">REMARKS</th></tr><tr><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th><th>F</th><th>G</th><th>H</th><th>I</th><th>J</th><th>K</th><th>L</th><th>M</th><th>N</th><th>O</th><th>P</th><th>Q</th><th>R</th><th>S</th><th>T</th><th>U</th><th>V</th><th>W</th><th>X</th><th>Y</th><th>Z</th><th>AA</th><th>AB</th><th>AC</th><th>AD</th><th>AE</th><th>AF</th><th>AG</th><th>AH</th><th>AI</th><th>AJ</th></tr><tr><td>1) SMOKE SENSOR/DETECTOR</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>1</td></tr><tr><td>2) SMOKE/HEAT SENSOR W/ SOUNDER BASE</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>2</td></tr><tr><td>3) MANUAL PULL STATION</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>3</td></tr><tr><td>4) HEAT SENSOR/DETECTOR</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>4</td></tr><tr><td>5) DUCT SENSOR/DETECTOR</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>5</td></tr><tr><td>6) WATERFLOW SWITCH</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>6</td></tr><tr><td>7) TAMPER SWITCH</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>7</td></tr><tr><td>8) FIRE PUMP RUNNING</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>8</td></tr><tr><td>9) FIRE PUMP POWER FROM ALTERNATE SOURCE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>9</td></tr><tr><td>10) FIRE PUMP PHASE LOSS/REVERSAL</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>10</td></tr><tr><td>11) FIRE ALARM AC POWER FAILURE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>11</td></tr><tr><td>12) FIRE ALARM SYSTEM LOW BATTERY</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>12</td></tr><tr><td>13) OPEN CIRCUIT OR GROUND FAULT</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>13</td></tr><tr><td>14) CLASS B NOTIFICATION CIRCUIT (NAC) - SHORT</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>14</td></tr><tr><td>15) CO DETECTOR BASE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>15</td></tr><tr><td>16) CO DETECTOR</td><td></td><td></td><td>&lt;/</td></tr></table>	SYSTEM INPUTS	SYSTEM OUTPUTS										CONTROL UNIT ANNUNCIATION										NOTIFICATION										FIRE SAFETY CONTROL										REMARKS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	1) SMOKE SENSOR/DETECTOR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1	2) SMOKE/HEAT SENSOR W/ SOUNDER BASE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	2	3) MANUAL PULL STATION	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	3	4) HEAT SENSOR/DETECTOR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	4	5) DUCT SENSOR/DETECTOR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	5	6) WATERFLOW SWITCH	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	6	7) TAMPER SWITCH											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	7	8) FIRE PUMP RUNNING											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	8	9) FIRE PUMP POWER FROM ALTERNATE SOURCE											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	9	10) FIRE PUMP PHASE LOSS/REVERSAL											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	10	11) FIRE ALARM AC POWER FAILURE											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	11	12) FIRE ALARM SYSTEM LOW BATTERY											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	13) OPEN CIRCUIT OR GROUND FAULT											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	13	14) CLASS B NOTIFICATION CIRCUIT (NAC) - SHORT											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	14	15) CO DETECTOR BASE											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	15	16) CO DETECTOR			</
SYSTEM INPUTS	SYSTEM OUTPUTS										CONTROL UNIT ANNUNCIATION										NOTIFICATION										FIRE SAFETY CONTROL										REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
1) SMOKE SENSOR/DETECTOR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
2) SMOKE/HEAT SENSOR W/ SOUNDER BASE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
3) MANUAL PULL STATION	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
4) HEAT SENSOR/DETECTOR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
5) DUCT SENSOR/DETECTOR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
6) WATERFLOW SWITCH	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
7) TAMPER SWITCH											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
8) FIRE PUMP RUNNING											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
9) FIRE PUMP POWER FROM ALTERNATE SOURCE											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
10) FIRE PUMP PHASE LOSS/REVERSAL											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
11) FIRE ALARM AC POWER FAILURE											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
12) FIRE ALARM SYSTEM LOW BATTERY											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
13) OPEN CIRCUIT OR GROUND FAULT											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	13																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
14) CLASS B NOTIFICATION CIRCUIT (NAC) - SHORT											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
15) CO DETECTOR BASE											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
16) CO DETECTOR			</																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

tyco

SimplexGrinnell

20 THOMAS DRIVE  
WESTBROOK, ME 04092  
SALES: 207-842-6440  
SERVICE: 207-842-6440  
FAX: 207-842-6439

© 2013 SIMPLEXGRINNELL LP  
ALL RIGHTS RESERVED

REVISION DESCRIPTION

DATE

NO.

8/29/14

Δ

BY

SK

AS-BUILT RECORD DRAWINGS

FIRE ALARM SYSTEM  
GENERAL INFORMATION

BAXTER PLACE  
287 3RD COMMERCIAL STREET  
PORTLAND, MAINE

DRAWN BY: LORION  
CHECKED BY: REID  
PROJECT NUMBER: 147  
SHEET TITLE: FIRE ALARM SYSTEM  
GENERAL INFORMATION  
SHEET NUMBER: FA-002  
FA-101.dwg

DRAWN BY: LORION  
CHECKED BY: REID  
DATE: 8/12/13  
DATE: