

FIRE ALARM CIRCUIT TYPES			
STYLE:	CLASS 'A'	CLASS 'B'	
SIG: 3	4	5	6
IOC: A	B	C	D
NAQ: W	X	Y	Z

SYSTEM	SYSTEM INPUTS	SYSTEM OUTPUTS																					
		CONTROL UNIT			NOTIFICATION							CONTROL FUNCTIONS		SUPPLEMENTAL									
		ACTIVATE COMMON ALARM LED	ACTIVATE COMMON SUPERVISORY LED	ACTIVATE COMMON TROUBLE LED	ACTIVATE VISIBLE SIGNAL LED	ACTIVATE AUDIBLE SIGNAL INDICATOR (LED)	ACTIVATE LOWER LEVEL SIGNAL (PIEZO)	ACTIVATE FIRST FLOOR EVACUATION SIGNALS	ACTIVATE SECOND FLOOR EVACUATION SIGNALS	ACTIVATE THIRD FLOOR EVACUATION SIGNALS	ACTIVATE FOURTH FLOOR EVACUATION SIGNALS	ACTIVATE FIFTH FLOOR EVACUATION SIGNALS	ACTIVATE SIXTH FLOOR EVACUATION SIGNALS	ACTIVATE SEVENTH FLOOR EVACUATION SIGNALS	ACTIVATE EIGHTH FLOOR EVACUATION SIGNALS	ACTIVATE NINTH FLOOR EVACUATION SIGNALS	ACTIVATE TENTH FLOOR EVACUATION SIGNALS	RECALL ELEVATORS TO PRIMARY RECALL FLOOR	RECALL ELEVATORS TO ALTERNATE RECALL FLOOR	ACTIVATE ELEVATOR VISIBLE SIGNAL - FIRE HAT	HVAC SHUTDOWN UNIT 1	HVAC SHUTDOWN UNIT 2	
MANUAL	MANUAL PULL STATIONS - LOWER LEVEL																						
	MANUAL PULL STATIONS - FIRST FLOOR																						
AUTOMATIC	DUCT DETECTOR - SUPPLY FAN UNIT 2																						
	DUCT DETECTOR - UNIT 1 RETURN																						
MANUAL	MANUAL PULL STATIONS - SECOND FLOOR																						
	MANUAL PULL STATIONS - THIRD FLOOR																						
AUTOMATIC	DUCT DETECTOR - UNIT 2 RETURN																						
	DUCT DETECTOR - SUPPLY FAN UNIT 1																						
MANUAL	MANUAL PULL STATIONS - FOURTH FLOOR																						
	MANUAL PULL STATIONS - FIFTH FLOOR																						
AUTOMATIC	DUCT DETECTOR - UNIT 1 RETURN																						
	DUCT DETECTOR - SUPPLY FAN UNIT 2																						
MANUAL	MANUAL PULL STATIONS - SIXTH FLOOR																						
	MANUAL PULL STATIONS - SEVENTH FLOOR																						
AUTOMATIC	DUCT DETECTOR - UNIT 2 RETURN																						
	DUCT DETECTOR - SUPPLY FAN UNIT 1																						
MANUAL	MANUAL PULL STATIONS - EIGHTH FLOOR																						
	MANUAL PULL STATIONS - NINTH FLOOR																						
AUTOMATIC	DUCT DETECTOR - UNIT 1 RETURN																						
	DUCT DETECTOR - SUPPLY FAN UNIT 2																						
MANUAL	MANUAL PULL STATIONS - TENTH FLOOR																						
	MANUAL PULL STATIONS - LOWER LEVEL																						

FIRE ALARM SYSTEM NOTES

- ALL WIRING AND CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE NATIONAL FIRE ALARM CODE (NFPA 72-2010), NATIONAL ELECTRICAL CODE (NEC) (2011), NATIONAL FIRE ALARM CODE (NFPA 72-2010), LOCAL AGENCIES (SANS JOHANNESBURG AND PRETORIA STANDARDS), OTHER STANDARDS INCLUDE THE INTERNATIONAL BUILDING CODE (IBC) AND INTERNATIONAL FIRE CODE (IFC).
- SHALL NOT TAP ANY SIGNAL OR INITIATING CIRCUITS.
- DEVICES MUST BE WHEED IN SEQUENCE SHOW, OR NOTIFY STANLEY SECURITY.
- CONTRACTOR SHALL INSTALL ALL CABLING PER NEC.
- SHALL LEAVE 12" (305MM) CLEARANCE AT FACE.
- SHALL BRING CONDUIT INTO FACE ONLY THROUGH KNOCKOUTS PROVIDED.
- MAINTAIN POLARITY ON ALL DEVICES, KEEPING CIRCUITS CLEAR OF ALL ELECTRICAL EQUIPMENT.
- VERIFY THAT EQUIPMENT IS LOCATIONS WITH OWNER.
- DO NOT INSTALL A DETECTOR OR WIRING LESS THAN 3 FEET FROM A LIGHT FIXTURE BALLAST.
- SMOKE OR HEAT DETECTORS MOUNTED IN AN OPEN CEILING AREA SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE ALARM CODE (NFPA 72-2010) AND THE NATIONAL ELECTRICAL CODE (NEC) (2011).
- INTERFACE CONTROLS FROM THE FACE SHALL BE WITHIN 3" OF THE BEING CONTROLLED.
- MOUNT PULL STATIONS 48" AFF TO TOP OF DEVICE.
- MOUNT WALL SPEAKERS/STROBES 80" AFF TO BOTTOM OF DEVICE, OR 6" FROM THE CEILING, WHICH EVER IS LOWER.
- DUCT DETECTORS AND TEST SWITCHES PROVIDED BY OTHERS, SHUTDOWN BY OTHERS. FIRE ALARM TO HANDLE POINT OF CONNECT ONLY.
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- DEVICE SHALL BE PROTECTED FROM UNAUTHORIZED USE AND BE LABELED IN RED "FIRE ALARM CIRCUIT".
- ALL JUNCTION BOXES SHALL BE LABELED "FIRE ALARM CIRCUIT" IN RED. THIS BE HELD RESPONSIBLE FOR UNAUTHORIZED CHANGES OR USES OF THESE PLANS.
- SYSTEM DESIGNER IS NOT CRIPED IN FIRE ALARM LOCAL AND SHALL NOT BE HELD RESPONSIBLE FOR UNAUTHORIZED CHANGES OR USES OF THESE PLANS.
- NO SMOKE CONTROL PROVIDED.
- POWER-LIMITED PER NEC.
- AUDIBLE NOTIFICATION CIRCUIT SHALL BE DISTINCTIVE THREE-PULSE TEMPORAL PATTERN FOR FIRE ALARM EVACUATION, SET

SYMBOL / EQUIPMENT LEGEND

QTY	SYM	MODEL #	MANUFACTURER	DESCRIPTION	BACKBOX
1	[EAP]	MS-9600UL	FRELUITE	FIRE ALARM CONTROL PANEL, WITH DACT	SURFACE
1	-	SIGLAS	FRELUITE	MODULE, LOOP EXPANDER	-
1	-	DTK-4W	DIEX	SURGE SUPPRESSOR, 120VAC	-
2	-	DTK-M445	DIEX	SURGE SUPPRESSOR, DACT	-
1	[FA]	ANNBO	FRELUITE	FIRE ALARM ANNUNCIATOR, 80-CHARACTER LED	4" SQUARE SURFACE
5	[FES]	FG95976	FRELUITE	FIRE ALARM POWER SUPPLY, 6-AWP	SURFACE
1	[EC]	ECG-50/100(E)	FRELUITE	EMERGENCY COMMAND CENTER	SURFACE
2	[DPA]	ECG-500A	FRELUITE	DISTRIBUTED (REMOTE) AUDIO AMPLIFIER	SURFACE
1	[FT]	ECG-FTT	FRELUITE	FIRE FIGHTER TELEPHONE	SURFACE
23	[B]	BQ12LX	FRELUITE	MANUAL PULL STATION, ADDRESSABLE, DUAL ACTION	1-GANG, DEEP
112	[D]	SO355 / B210P	FRELUITE	SMOKE DETECTOR, ADDRESSABLE, PHOTOELECTRIC / STANDARD BASE	4" OCTO
12	[H]	SO355 / B210P	FRELUITE	SMOKE DETECTOR, ADDRESSABLE, PHOTOELECTRIC / ELEVATOR RECALL	4" OCTO
4	[H]	H355(A) / B210P	FRELUITE	HEAT DETECTOR, ADDRESSABLE, PHOTOELECTRIC / STANDARD BASE	4" OCTO
1	[H]	H355(A) / B210P	FRELUITE	HEAT DETECTOR, ADDRESSABLE, PHOTOELECTRIC / ELEVATOR RECALL	4" OCTO
4	[D]	D355P(A)	FRELUITE	DUCT DETECTOR, ADDRESSABLE, PHOTOELECTRIC	-
4	-	S13	FRELUITE	SAMPLE TUBE, DUCT DETECTOR, 3"	-
4	[T]	R151S1	SYSTEM SENSOR	REMOTE TEST STATION, DUCT DETECTOR	1-GANG, DEEP
6	[R]	GR-300(A)	FRELUITE	RELAY MODULE, ADDRESSABLE	4" SQUARE
5	[C]	CM-300(A)	FRELUITE	CONTROL MODULE, ADDRESSABLE	4" SQUARE
25	[S]	MM-300(A)	FRELUITE	SINGLE INPUT MODULE, ADDRESSABLE	4" SQUARE
11	[M]	MM-301(A)	FRELUITE	SINGLE INPUT MODULE, MINI, ADDRESSABLE	-
13	[O]	L300(A)	FRELUITE	MODULE, FAULT ISOLATION	4" SQUARE, DEEP
91	[SPR]	SPR	SYSTEM SENSOR	SPEAKER/STROBE, WALL, RED/FIRE, MULTI-CANDELA/TAP	4" SQUARE, DEEP
142	[SPR]	SPR	SYSTEM SENSOR	SPEAKER, WALL, RED/FIRE, MULTI-TAP	4" SQUARE, DEEP
32	[FT-J]	FT-J	FRELUITE	FIRE FIGHTER PHONE JACK	1-GANG, DEEP
10	-	BAT-1270	FRELUITE	BATTERY, SEALED LEAD-ACD, 12VDC, 7AH	-
10	-	BAT-12180	FRELUITE	BATTERY, SEALED LEAD-ACD, 12VDC, 18AH	-

REVISION RECORD

REV	DATE	ISSUE DESCRIPTION	BY
A	07/03/14	ORIGINAL ISSUE	FJI

CABLE LEGEND

TYPE	SYSTEM DESCRIPTION	DESCRIPTION
A	FIRE ALARM INITIATING CIRCUIT	16GA, 2CON, P/UP
B	FIRE ALARM SIG LOOP	16GA, 2CON, P/UP
C	FIRE ALARM STROBES/SHOWN CIRCUIT	16GA, 2CON, P/UP
D	FIRE ALARM AUDIO CIRCUIT	16GA, 2CON, P/UP
E	FIRE ALARM ANNUNCIATOR CIRCUIT	16GA, 2CON, P/UP
F	FIRE ALARM POWER CIRCUIT	16GA, 4CON, P/UP
G	FIRE ALARM ANNUNCIATOR CIRCUIT	16GA, 4CON, P/UP
H	DUCT DETECTOR REMOTE TEST CIRCUIT	16GA, 4CON, P/UP

- GENERAL NOTES:**
- THESE DRAWINGS, THEIR DESIGN, DETAIL AND INVENTION ARE THE PROPERTY OF STANLEY SECURITY SOLUTIONS, INC. AND SHALL BE USED ONLY FOR REFERENCE TO THE PROJECT AND NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. PERMISSION IS GRANTED TO THE CONTRACTOR TO MAKE CHANGES TO THE DRAWINGS TO ACCOMMODATE THE PROJECT AND TO OBTAIN THE NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES AND THE INFORMATION CONTRACTOR HEREIN SHALL NOT BE CONSIDERED AS AN ENDORSEMENT OF THE PROJECT OR THE CONTRACTOR'S WORK.
 - INSTALLATION METHODS TO MEET ALL APPLICABLE CODES AND SPECIFICATIONS.
 - COORDINATE EQUIPMENT INSTALLATION WITH ALL APPLICABLE TRADES.
 - REFER TO EQUIPMENT INSTALLATION MANUALS FOR FURTHER INFORMATION.
 - VERIFY ANY TECHNICAL QUESTIONS TO THE STANLEY SECURITY SOLUTIONS ENGINEERING STAFF.
 - FOR EQUIPMENT LOCATIONS REFER TO BUILDING FLOOR PLANS.

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FIRE ALARM

DESIGNED BY: **PAUL J. INFERREIRA** DATE: 07/03/2014
 CHECKED BY: **N.T.S.** DATE: _____
 PROJECT NO: **MICT IV #121316** SHEET NO: _____
 SCALE: _____
 DRAWN BY: **FJI** DATE: _____
 PROJECT NO: **FA-2** SHEET NO: **A**