RSN: 1668225
Permit # 2022-2234529-CT
Sheet 1 of 29

THE MEDICAL CENTER OF AURORA - SOUTH
OR 4 RENOVATION
MODIFICATION TO EXISTING FIRE ALARM SYSTEM

Johnson Controls

DRAWING INDEX

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BUILDING/FIRE DEPT PLAN REVIEW #:

AURORA BUILDING CODES DIVISION
15151 EAST ALAMEDA PARKWAY, 2ND FLOOR PERMIT CENTER
AURORA, COLORADO 80012
(303) 739-7420

GENERAL NOTES

1. THESE DRAWINGS DEPICT GENERAL LOCATIONS OF LIFE SAFETY EQUIPMENT & FIELD DEVICES. EXACT ROUTING OF CONDUITS IS TO BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR TO SUIT CONDITIONS. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
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 JOHNSON CONTROLS IN A TIMELY MANNER SO AS NOT TO IMPAIR THE CONSTRUCTION SCHEDULE.
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.
4. A STAMPED SET OF APPROVED FIRE ALARM DRAWINGS SHALL BE AT THE JOB SITE AND SHALL BE USED FOR INSTALLATION.
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.
6. UPDATE THE AS-BUILT DRAWING SET DAILY WITH JOB PROGRESS. RETURN THE AS-BUILT DRAWING SET TO JOHNSON CONTROLS NO LATER THAN 7 DAYS AFTER FINAL TEST.
7. THE CONTRACTOR WILL MAINTAIN ALL AREAS OF THE BUILDING IN A NEAT AND WORKMANLIKE MANNER.
8. DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY TRAINED JOHNSON CONTROLS TECHNICAL REPRESENTATIVE.
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.
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.
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 APPLICABLE ELECTRICAL CODES. REFER TO 'APPLICABLE CODES & STANDARDS' FOR SPECIFIC CODE REFERENCES.
12. ALL WIRING SHALL BE INSTALLED ACCORDING TO APPLICABLE ELECTRICAL CODES.
13. FIRE ALARM CIRCUITS SHALL BE IDENTIFIED IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES. MARK ALL FIRE ALARM WIRES IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODE SECTIONS FOR POWER LIMITED AND NON-POWER LIMITED WIRE.
14. FIRE ALARM CABLE INSTALLED IN DUCTS, PLENUM, AND OTHER SPACES USED FOR ENVIRONMENTAL AIR SHALL BE TYPE FPLP.
15. FIRE ALARM CABLE INSTALLED IN THE VERTICAL RUNS AND PENETRATING MORE THAN ONE FLOOR OR CABLES INSTALLED IN VERTICAL RUNS IN SHAFTS SHALL BE TYPE FPLR.
16. FIRE ALARM CABLE INSTALLED IN UNDERGROUND CONDUIT OR OTHER WET LOCATIONS SHALL BE UL LISTED FOR WET LOCATIONS.
17. FIRE ALARM CIRCUITS EXTENDING BEYOND ONE BUILDING AND RUN OUTDOORS SHALL BE INSTALLED IN ACCORDANCE APPLICABLE ELECTRICAL CODES, WHERE APPLICABLE.
18. ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
19. ALL SHIELDED WIRE MUST HAVE SHIELD CONTINUITY AT FULL LENGTH OF THE WIRE.
20. ONLY SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT.
21. 120VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING.
22. MAINTAIN MAXIMUM CONDUIT FILL RATIO AS PER APPLICABLE ELECTRICAL CODES REQUIREMENTS.
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. JOHNSON CONTROLS MAKES NO STATEMENTS WRITTEN OR VERBAL AS TO THE CONDITION OF EXISTING CONDUITS.

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LEGENDS

FIRE ALARM SYMBOL LEGEND

QTY	SYMBOL	DESCRIPTION	BRAND	MODEL	BACKBOX	WIRE TYPE
		INITIATING DEVICES				
2RL	(R) OR (S)	EXISTING/ RELOCATED ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ STANDARD BASE	SIMPLEX	4098-9714 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	Mi
1N	(A)	ADDRESSABLE STANDARD HEAT SENSOR W/ EXISTING STANDARD BASE	SIMPLEX	4098-9733 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	Mi
		MODULES AND RELAYS				
	IAM	EXISTING RELAY IAM	SIMPLEX	4090-9002	4" SQ. 2-1/8" D W/ DBL. GANG COVER	Mi R
	M	EXISTING ENCAPSULATED RELAY PAM-1 SPDT W/ LED, APOLLO AMERICA INC PAM-1	SIMPLEX	2088-9021	SINGLE GANG 2-1/8" D W/ COVER	R
		NOTIFICATION APPLIANCES				
1RL	# OR # R	EXISTING/ RELOCATED ADDRESSABLE MUTI-CANDELA STROBE, WALL MOUNT, APPLIANCE ONLY, CLEAR LENS	SIMPLEX	49VO-APPLW	SINGLE GANG 1-1/2" D	A
		EXISTING/ RELOCATED RED LENS	SIMPLEX	49LENS-RED		
		EXISTING/ RELOCATED MOUNTING PLATE, RED	SIMPLEX	49MP-AVVOWR		
		EXISTING/ RELOCATED APPLIANCE COVER, RED, FIRE LETTERING	SIMPLEX	49VOC-WRFIRE		
		MISCELLANEOUS DEVICES				
	JB	EXISTING JUNCTION BOX	BY OTHERS	BY OTHERS		

GENERAL NOTES:

1. THE INFORMATION OR SYMBOLS SHOWN IN BOLD LINETYPE ARE NEW OR RELOCATED.
2. THE INFORMATION OR SYMBOLS SHOWN IN LIGHT LINETYPE ARE EXISTING TO REMAIN.

FIRE ALARM WIRE LEGEND

	CIRCUIT DESCRIPTION	CONSTRUCTION	GAUGE	CIRCUIT PROPERTIES	ACCEPTABLE CABLE TYPES: FPLR	FPLP	THHN	TFFN	OUTDOOR**	C.I.
A	ADDRESSABLE NOTIFICATION	UTP SOLID	14 AWG	60pf/ft. MAX CAPACITANCE; 3 twists/ft. MINIMUM	X	X				
Mi	IDNET	UTP SOLID	18 AWG	0.60µF MAX TOTAL LINE CAPACITANCE	X	X				
R	RELAY	2 COND. SOLID	14 AWG		X	X	X	X		

CONDUIT SIZE	MAX CONDUCTOR AREA	CONDUIT SIZE	MAX CONDUCTOR AREA
1/2"	0.122 SQ. INCH*	1-1/4"	0.598 SQ INCH*
3/4"	0.213 SQ INCH*	1-1/2"	0.814 SQ INCH*
1"	0.346 SQ INCH*	2"	1.342 SQ INCH*

* 40% CONDUIT FILL PER N.E.C.

UTP = UNSHIELDED TWISTED PAIR

ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM INSTALLATION. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR SELECTING AND INSTALLING CABLE MANUFACTURER AND MODEL THAT MEETS OR EXCEEDS THE ABOVE REQUIREMENTS. RECOMMENDED CABLE MANUFACTURERS AND MODEL NUMBERS ARE AVAILABLE UPON REQUEST.

BUILDING/FIRE DEPT GENERAL NOTES

- FIRE ALARM SYSTEMS CANNOT BE COMBINED WITH BURGLAR ALARM SYSTEMS.
- THE INSTALLER IS REQUIRED TO COORDINATE WITH THE MECHANICAL CONTRACTOR TO DETERMINE INSTALLATION OF SMOKE DETECTORS OR SENSORS (i.e., NOT CLOSER THAN 3 FEET FROM ANY SUPPLY/RETURN DIFFUSER AND THAT ADDITIONAL DETECTION MAY BE REQUIRED DUE TO THE RELOCATION OR SPACING ADJUSTMENT OF DETECTORS, AS A RESULT).
- FIRE ALARM DEVICES MUST BE PLACED IN PROTECTED AREAS WITH AMBIENT TEMPERATURE RANGING FROM 32 DEGREES TO 120 DEGREES F.
- DO NOT PLACE SMOKE DETECTORS WITHIN 3 FEET OF AIR SUPPLY REGISTERS AND DIFFUSERS.
- FIRE ALARM SYSTEM SHALL BE MONITORED BY A CLASS 1 CENTRAL STATION.
- FIRE ALARM CONTROL PANEL WILL BE PLACED IN THE LOCATION SPECIFIED WITHIN THE PLAN SUBMITTAL UNLESS APPROVED BY THE LIFE SAFETY FIELD INSPECTOR.
- CITY OF AURORA BUILDING CODES DIVISION DOES NOT GRANT APPROVAL FOR ANY VIOLATIONS OF ADOPTED FIRE CODE. CODE VIOLATIONS UNCOVERED DURING FIELD INSPECTIONS MUST BE CORRECTED.
- PER THE IFC AND THE NEC THE INSTALLER MUST REQUEST A ROUGH WIRING INSPECTION IN THE FIRE ALARM SYSTEM PRIOR TO REQUESTING A FIRE ALARM FINAL INSPECTION.
- THE CONTRACTOR SHALL CONDUCT A "PRE–TEST" OF THE PROJECT AREA PRIOR TO SCHEDULING AN ACCEPTANCE TEST WITH THE BUILDING CODES DIVISION.
- REMOTE ALARM INDICATORS SHALL BE PROVIDED FOR ANY AUTOMATIC FIRE ALARM DETECTOR LOCATED IN A CONCEALED LOCATION WITH A NORMALLY LOCKED DOOR.
- AT THE TIME OF FINAL FIRE ALARM INSPECTION, THE SYSTEM MUST BE SUPERVISED/MONITORED BY A CLASS 1 CENTRAL MONITORING AGENCY.
- THE INSTALLING CONTRACTOR (OR DESIGNEE) MUST PROVIDE ALL NECESSARY TESTING EQUIPMENT AND PERFORM ALL TESTING REQUIRED BY THE LIFE SAFETY FIELD INSPECTOR.
- IN–DUCT SMOKE DETECTORS INSTALLED IN CONCEALED LOCATIONS OR, WHERE THE DETECTOR'S ALARM INDICATOR IS NOT READILY VISIBLE TO RESPONDING PERSONNEL SHALL BE PROVIDED WITH A REMOTE INDICATOR(S), REMOTE TEST STATION AND PLACARDING.
- ALL NEW OR EXISTING FIRE ALARM SYSTEMS MUST BE CONNECTED ANY EXTERIOR HORN AND STROBE APPLIANCE. IF THE BUILDING IS FIRE SPRINKLED, A GENERAL ALARM ACTIVATION AT THE FIRE ALARM CONTROL PANEL WILL ACTIVATE THE EXTERIOR HORN AND STROBE. SILENCING THE PANEL MUST ALLOW THE VISUAL DEVICE TO CONTINUE UNTIL THE PANEL IS RESET.
- FIRE ALARM SYSTEMS SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. VISUAL ALARMS WILL BE REQUIRED IN ALL ACCESSIBLE PUBLIC AND COMMON–USE AREAS PER THE IFC AND THE ANSI A117.1 STANDARD.
- PROVIDE A PRIMARY AND SECONDARY POWER SUPPLY FOR THE FIRE ALARM SYSTEM PER THE IFC, SECTION 907 AND THE NFPA 72.
- FIELD INSPECTION CONSULTATION IS AVAILABLE UPON REQUEST. CALL 303–739–7420 TO REQUEST CONSULTATION.
- THE FIRE ALARM CONTRACTOR MUST COMPLETE THE NFPA 72 "RECORD OF COMPLETION" PRIOR TO SCHEDULING THE AHJ ACCEPTANCE TEST.
- AUDIBLE ALARM SIGNALING DEVICES SHALL EXCEED THE PREVAILING SOUND LEVEL IN A ROOM OR SPACE BY 15 DBA. SOUND LEVELS FOR ALARM SIGNALS SHALL BE 120 DBA MAXIMUM. IFC SECTION 907.

APPLICABLE CODES & STANDARDS

JURISDICTIONS WITHIN THE STATE MAY HAVE AMENDMENTS TO THE STATE ADOPTED CODE. CHECK WITH THE LOCAL JURISDICTION AUTHORITY FOR MORE DETAILS.

International Building Code (IBC), 2021 Edition

International Fire Code (IFC), 2021 Edition

National Electric Code (NFPA 70), 2020 Edition

National Fire Alarm and Signaling Code (NFPA 72), 2019 Edition

Life Safety Code (NFPA 101), 2021 Edition

ICC A117.1 Accessible and Usable Buildings and Facilities, 2009 Edition

ADA Standards for Accessible Design, 2010 Edition

Colorado Department of Health and Environment - Hospital Licensing Rules, 2012 Edition

OCCUPANCY TYPE(S):
I-2 INSTITUTIONAL GROUP

SPRINKLER PROTECTION:
BUILDING IS FULLY SPRINKLERED

AREA:
TOTAL: APPROX. 450,396 SQ. FT.
SCOPE: APPROX. 700 SQ. FT

STORIES:
TOTAL: 6 STORIES + BASEMENT
SCOPE: PARTIAL 1ST FLOOR

CONSTRUCTION:
TYPE 2-A

SCOPE OF WORK

MODIFY EXISTING FIRE ALARM SYSTEM. PROVIDE NEW DEVICES, RELOCATE AND DEMO EXISTING DEVICES AS SHOWN ON DRAWINGS.

AREA TO RECEIVE WORK INCLUDES APPROXIMATELY 700 SQUARE FEET ENCOMPASSING EXISTING DA VINCI OR 4 1-SS031 ON THE FIRST LEVEL OF THE MEDICAL CENTER OF AURORA - SOUTH AT 1501 SOUTH POTOMAC STREET, AURORA, COLORADO 80012.

FOR INTERIM - EXISTING AREA TO RECEIVE PARTIAL DEMOLITION TO ALLOW FOR UPDATES TO THE AREA. DURING DEMOLITION, INTERIM HEAT-DETECTOR TO BE INSTALLED IN SCOPE AREA FOR CONSTRUCTION. RE-USE EXISTING STANDARD INITIATION-BASES WHERE SHOWN. RETAIN ALL OTHER REMOVED BASES AND HEADS FOR BUILOUT. RETAIN EXISTING REMOVED STROBE-ONLY NOTIFICATION DEVICE TO USE DURING BUILDOUT.

FOR BUILDOUT - REMOVE INTERIM DEVICE, RETAIN BASE. REUSE EXISTING SMOKE SENSOR HEADS AND BASES FOR BUILDOUT. REUSE STROBE-ONLY REMOVED DURING BUILDOUT. DEVICES WILL CONTINUE TO TIE TO EXISTING CIRCUITS ON THE NODE-1 TRANSPONDER-4 LOCATED IN ELEC. 1-CS16. EXISTING STATIC GRAPHIC MAP AT FIRE COMMAND CENTER 1C-1013A ON THE FIRST LEVEL TO RECEIVE ARCHITECTURAL AND INITIATION UPDATES.

ALL NEW WIRING TO BE CLASS B.

THE EXISTING FIRE ALARM SYSTEM SHALL NOT BE DISCONNECTED OR TAKEN OUT OF SERVICE WITHOUT WRITTEN PERMISSION FROM THE OWNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE OWNER THE TIMING OF ANY EXISTING FIRE ALARM SYSTEM DEMOLITION WORK.

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 UUUS 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.

DESIGN STATEMENT

THIS PROJECT'S DESIGN IS BASED ON THE ENGINEERED PLANS AND SPECIFICATIONS PREPARED BY:
PATH 21 ARCHITECTURE + PLANNING

ARCHITECTURAL PLANS DATED:	MARCH 24, 2022
MECHANICAL PLANS DATED:	MARCH 24, 2022
ELECTRICAL PLANS DATED:	MARCH 24,2022
SPECIFICATIONS DATED:	MARCH 24, 2022
ADDENDUM DATED:	

ABBREVIATIONS LEGEND

AC = ABOVE CEILING
AFF = ABOVE FINISHED FLOOR
AHJ = AUTHORITY HAVING JURISDICTION
ALM = ALARM
ANN = ANNUNCIATOR
BMS = BUILDING MANAGEMENT SYSTEM
C = CEILING MOUNTED
CD = CANDELA RATING
DET = DETECTOR
DGP = DATA GATHERING PANEL
E = EXISTING TO REMAIN
EOL = END OF LINE
EPO = EMERGENCY POWER OFF
ER = ELEVATOR RECALL
FAA = FIRE ALARM ANNUNCIATOR
FACP = FIRE ALARM CONTROL PANEL
FATC = FIRE ALARM TERMINAL CABINET
FBO = FURNISHED BY OTHERS
FCC = FIRE COMMAND CENTER
FSD = FIRE SMOKE DAMPER
FTR = FIRE ALARM TRANSPONDER
H = HIGH HUMIDITY
HT = HEIGHT
HVAC = HEATING VENTILATION & AIR CONDITIONING
IMS = INFORMATION MANAGEMENT SYSTEM
MAX = MAXIMUM
MIN = MINIMUM
N = NEW DEVICE
NAC = NOTIFICATION APPLIANCE CIRCUIT
NDU = NETWORK DISPLAY UNIT
NEC = NATIONAL ELECTRIC CODE
NFPA = NATIONAL FIRE PROTECTION ASSOCIATION
NIC = NOT IN CONTRACT
NPU = NETWORK PROCESSING UNIT
NTS = NOT TO SCALE
PAP = PRE-ACTION PANEL
RC = EXISTING TO REMOVE AND COVER
RD = EXISTING DEVICE TO BE RELOCATED
RL = RELOCATED DEVICE
RR = REMOVE EXISTING & REPLACE WITH NEW
SCC = STATUS COMMAND CENTER
SLC = SIGNALING LINE CIRCUIT
SMK = SMOKE
SUPV = SUPERVISORY
TAC = TRUEALERT ADDRESSABLE CONTROLLER
TOS = TOP OF SHAFT
TRBL = TROUBLE
TS = TAMPER SWITCH
TYP = TYPICAL
UON = UNLESS OTHERWISE NOTED
VCC = VOICE COMMAND CENTER
VT = VALVE TAMPER
W = WATTAGE
W/ = WITH
W/O = WITHOUT
WF = WATERFLOW
WG = WIRE GUARD
WP = WEATHERPROOF
XP = EXPLOSION PROOF

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PROJECT DIRECTORY

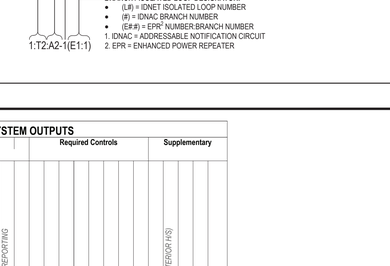
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1501 SOUTH POTOMAC STREET
AURORA, COLORADO 80012
PHONE: 303-695-2600

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4900 SOUTH MONACO STREET
DENVER, COLORADO 80237
PHONE: 303-946-5511

Johnson Controls District - 419
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AURORA, CO 80012
PHONE: 303-355-0500
FAX: 303-355-0615
SERVICE: 303-355-0500

Installer
ODIN ELECTRIC
2120 SOUTH ASH STREET, UNIT 200
DENVER, COLORADO 80222
PHONE: 720-791-6346

DEVICE TAG LEGEND



PANEL DESIGNATOR
- FA: = FACP (NON-NETWORK)
- #: = NODE NUMBER
- T#: = TRANSPONDER NUMBER
- #:T#: = NODE:TRANSPONDER NUMBER
- N#: = NAC EXTENDER NUMBER

CIRCUIT DESIGNATOR
- A#: = IDNAC* CIRCUIT NUMBER
- D#: = DOOR HOLDER CIRCUIT NUMBER
- F#: = FIRE PHONE CIRCUIT
- H#: = AUDIBLE (HORN) CIRCUIT NUMBER
- M#: = IDNET LOOP NUMBER
- P#: = POWER CIRCUIT NUMBER
- S#: = SPEAKER CIRCUIT NUMBER
- V#: = VISUAL CIRCUIT NUMBER
- Z#: = ZONE NUMBER

DEVICE NUMBER

BRANCH / ISOLATED LOOP DESIGNATOR:
- (L#) = IDNET ISOLATED LOOP NUMBER
- (#) = IDNAC BRANCH NUMBER
- ((E#:#) = EPR* NUMBER:BRANCH NUMBER

1. IDNAC = ADDRESSABLE NOTIFICATION CIRCUIT
2. EPR = ENHANCED POWER REPEATER

SYSTEM SEQUENCE OF OPERATIONS

M.C.O.A. SOUTH TOWER

SEQUENCE OF OPERATIONS

SYSTEM OUTPUTS

	FACP Annunciation				Notification					Required Controls							Supplementary			
SYSTEM INPUTS	ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	ACTUATE EVACUATION SIGNALS (SPEAKERS/STROBES)	ACTUATE SPRINKLER BELL	DISPLAY CHANGE OF STATUS AT REMOTE ANNUNCIATOR	TRANSMIT FIRE ALARM SIGNAL TO OFF-SITE REPORTING	TRANSMIT SUPERVISORY SIGNAL TO OFF-SITE REPORTING	TRANSMIT TROUBLE SIGNAL TO OFF-SITE REPORTING	NOTIFY HOSPITAL PBX	FAN SHUT DOWN	DAMPER SHUT DOWN	RELEASE CORRIDOR FIRE DOORS	RELEASE ASSOCIATED ROLL UP DOOR	ELEVATOR SHUT DOWN (1)	ELEVATOR RECALL - MAIN FLOOR	ELEVATOR RECALL - ALTERNATE FLOOR	ELEVATOR FLAT FLASH	OVERRIDE MUSIC SYSTEM	SILENCE AUDIBLE SIGNAL (EXCLUDING EXTERIOR HS)	ACTUATE OUTSIDE HORN/STROBE	RESET PANEL TO "NORMAL" CONDITION	
	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	
1 SMOKE DETECTOR	X	X					X		X	X				X	X	X						X		X		1
2 SMOKE DETECTOR AT 2ND, 4TH & 5TH FLR CLERK DESK	X	X					X		X	X						X	X					X		X		2
3 SMOKE DETECTOR AT SMOKE PARTITION	X	X					X		X	X						X						X		X		3
4 MANUAL PULL STATION	X	X					X		X	X						X						X		X		4
5 HEAT DETECTOR	X	X					X		X	X						X						X		X		5
6 DUCT DETECTOR			X	X			X		X		X			X	X											6
7 DUCT DETECTOR AT F/S DAMPER			X	X			X		X		X					X	X									7
8 MAIN FLR. ELEV. LOBBY SMOKE DETECTOR	X	X					X		X	X				X	X	X	X			X		X		X		8
9 ELEV. LOBBY SMOKE DETECTORS (EXCL. MAIN FLR.)	X	X					X		X	X									X			X		X		9
10 ELEV. MECH. ROOM SMOKE DETECTOR	X	X					X		X	X												X	X	X		10
11 ELEV. SHAFT HEAT DETECTOR	X	X					X		X	X									X	X		X	X	X		11
12 ELEV. MECH. ROOM HEAT DETECTOR	X	X					X		X	X									X	X		X	X	X		12
13 WATERFLOW SWITCH	X	X					X	X	X	X														X		13
14 TAMPER SWITCH			X	X				X			X															14
15 POST INDICATOR VALVE SWITCH			X	X				X			X															15
16 FACP AC POWER FAILURE					X	X						X														16
17 FACP LOW BATTERY					X	X						X														17
18 OPEN CIRCUIT					X	X						X														18
19 GROUND FAULT					X	X						X														19
20 NOTIFICATION APPLIANCE CIRCUIT SHORT					X	X						X														20
21 ALARM SIGNAL SILENCE																						X				21
22 SYSTEM RESET																									X	22
23 CATH LAB BUILDING ALARM	X	X						X					X													23
	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	

NOTE: Audible Evacuation Signal shall be Temporal Pattern per NFPA 72.

- Disconnect power after a time delay equal to the time it takes for the car to travel from the highest to the lowest level plus 10 seconds.

New devices will be added to the existing sequence of operations. No further changes will occur.

Provide a full size set of legible approved construction documents **PRINTED IN COLOR** for review by the Field Inspector.

COA Adopted Codes for this project:
ICC-2021 - NEC-2020
NFPA 13-2019 - NFPA 72-2019
COA Amendments 22 & 66

City of Aurora Building Division
Counter Permit intake by: SMK
Date: Oct 14, 2022
RSN: 1668225
Permit: 2022-2234529-CT
3001 INTERNATIONAL CODES & 2008 NEC Bldgs. of permit to be filed

Johnson Controls
DISTRICT - 419
14200 E. EXPOSITION AVE
AURORA, CO 80012
SERVICE: 303-355-0500
PHONE: 303-355-0500
FAX: 303-355-0615

NICET CERTIFICATION INFORMATION
NANCY S. WILTSIE
NICET Fire Alarm, III
Certification #93727
Valid Through: 03/01/24
Nancy S Wiltsie
September 22, 2022

THE MEDICAL CENTER OF AURORA - SOUTH
OR 4 RENOVATION
THE MEDICAL CENTER OF AURORA
1501 SOUTH POTOMAC STREET
AURORA, COLORADO 80012

Revisions shown with Δ symbol

ISSUE LOG	DATE	CAD	CHK	DESCRIPTION
MARK				

FOR PERMIT

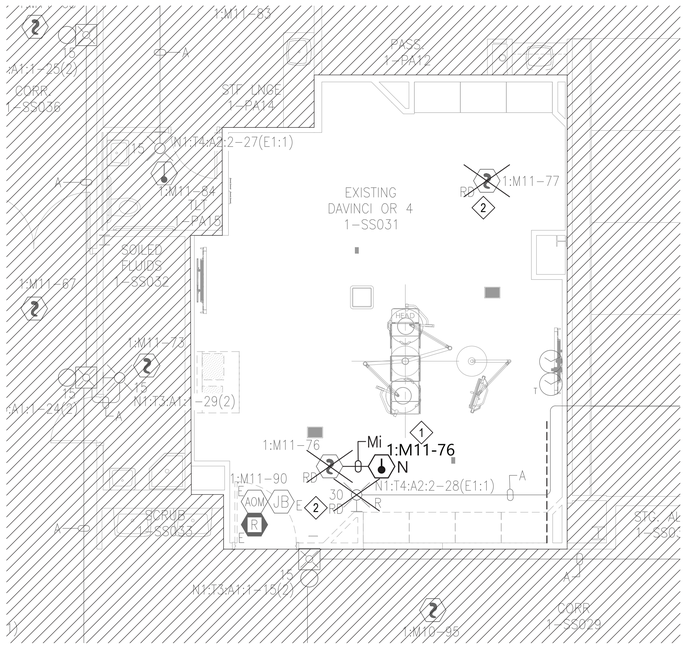
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ISSUE DATE:	9/6/22
JOB #:	
PROJECT #:	419:6502188O4
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SYSTEM: FIRE ALARM SYSTEM

SHEET: COVER SHEET

FA-001

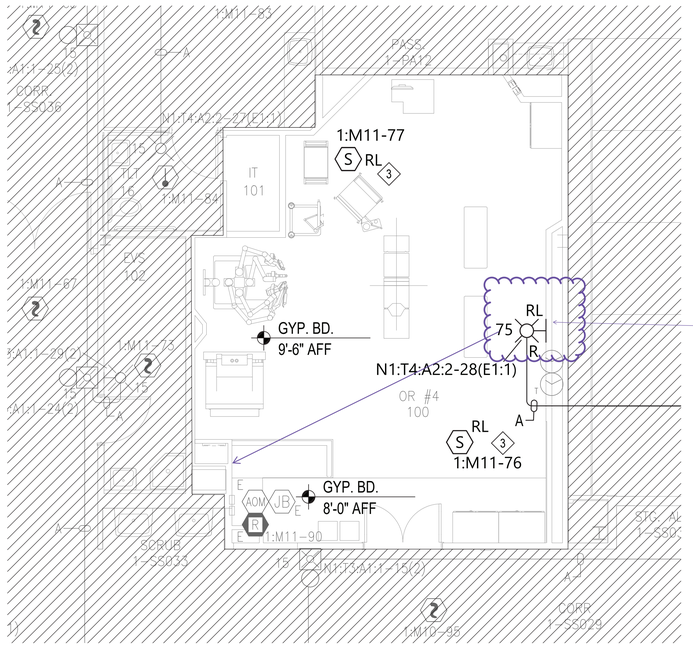
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36" x 42" Arch E1 Size
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1ST FLOOR PARTIAL DEVICE PLACEMENT PLAN - INTERIM

SCALE:1/4" = 1'-0"

SCALE: 1/4" = 1'-0" IN FEET 0 4' 8' 16'



1ST FLOOR PARTIAL DEVICE PLACEMENT PLAN - BUILDOUT

SCALE:1/4" = 1'-0"

SCALE: 1/4" = 1'-0" IN FEET 0 4' 8' 16'

GENERAL NOTES:

1. DO NOT CHANGE DEFAULT APPLIANCE CONFIGURATION SWITCH SETTINGS ON ADDRESSABLE A/V DEVICES (CFIG1). REFER TO DEVICE DETAILS AND INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
2. THE DEVICE ADDRESSES INDICATED ON THESE DRAWINGS ARE AN ALPHANUMERIC DESCRIPTION OF WHICH CIRCUIT THE DEVICE IS LOCATED ON. DEVICES MAY BE ASSIGNED A DIFFERENT NUMBER WITHIN THE PANEL PROGRAM. CONSULT WITH A JOHNSON CONTROLS TECHNICIAN BEFORE APPLYING A PHYSICAL LABEL TO ANY DEVICES.
3. THE INFORMATION OR SYMBOLS SHOWN IN BOLD LINETYPE ARE NEW OR RELOCATED.
4. THE INFORMATION OR SYMBOLS SHOWN IN LIGHT LINETYPE ARE EXISTING TO REMAIN.
5. ALL ITEMS THAT ARE HATCHED ARE NOT IN THIS SCOPE OF WORK.
6. DEVICES WITH "RL" WILL BE REUSED FROM INTERIM; CHANGES TO BE MADE TO WIRING, LOCATION, AND DESCRIPTOR. RETAIN ADDRESS.

KEYNOTES:

1. NEW HEAT SENSOR TO REPLACE EXISTING SMOKE SENSOR HEAD ONLY AS INTERIM FOR CONSTRUCTION. REUSE EXISTING BASE, EXISTING ADDRESS, AND EXISTING WIRING. RETAIN EXISTING HEAD TO USE DURING BUILDOUT.

   EXISTING DEVICE TO BE RELOCATED DURING BUILDOUT.
2. EXISTING SMOKE SENSOR TO BE PLACED BACK INTO EXISTING BASE FOR BUILDOUT. RETURN HEAT SENSOR HEAD TO CUSTOMER STOCK.
3.

Johnson Controls
DISTRICT - 418
10065 E. EXPOSITION AVE
AURORA, CO 80017
SERVICE: 303-355-6000
PHONE: 303-326-9000
FAX: 303-355-6015

NICET CERTIFICATION INFORMATION

NANCY S. WILTSIE
NICET Fire Alarm, III
Certification #93727
Valid Through: 03/01/24

September 22, 2022

FIRE ALARM SYMBOL LEGEND

QTY	SYMBOL	DESCRIPTION	BRAND	MODEL	BACKBOX	WIRE TYPE
		INITIATING DEVICES				
2RL	(2) OR (S)	EXISTING/ RELOCATED ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ STANDARD BASE	SIMPLEX	4098-9714 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	Mi
1N		ADDRESSABLE STANDARD HEAT SENSOR W/ EXISTING STANDARD BASE	SIMPLEX	4098-9733 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	Mi
		MODULES AND RELAYS				
	IAM	EXISTING RELAY IAM	SIMPLEX	4090-9002	4" SQ. 2-1/8" D W/ DBL. GANG COVER	Mi R
		EXISTING ENCAPSULATED RELAY PAM-1 SPDT W/ LED, APOLLO AMERICA INC PAM-1	SIMPLEX	2088-9021	SINGLE GANG 2-1/8" D W/ COVER	R
		NOTIFICATION APPLIANCES				
1RL	R OR R	EXISTING/ RELOCATED ADDRESSABLE MUTI-CANDELA STROBE, WALL MOUNT, APPLIANCE ONLY, CLEAR LENS	SIMPLEX	49VO-APPLW	SINGLE GANG 1-1/2" D	A
		EXISTING/ RELOCATED RED LENS	SIMPLEX	49LENS-RED		
		EXISTING/ RELOCATED MOUNTING PLATE, RED	SIMPLEX	49MP-AVVOWR		
		EXISTING/ RELOCATED APPLIANCE COVER, RED, FIRE LETTERING	SIMPLEX	49VOC-WRFIRE		
		MISCELLANEOUS DEVICES				
	JB	EXISTING JUNCTION BOX	BY OTHERS	BY OTHERS		

FIRE ALARM WIRE LEGEND

	CIRCUIT DESCRIPTION	CONSTRUCTION	GAUGE	CIRCUIT PROPERTIES	ACCEPTABLE CABLE TYPES: FPLR	FPLP	THHN	TFFN	OUTDOOR *	C.I.
A	ADDRESSABLE NOTIFICATION	UTP SOLID	14 AWG	60pf/ft. MAX CAPACITANCE; 3 twists/ft. MINIMUM	X	X				
Mi	IDNET	UTP SOLID	18 AWG	0.60µF MAX TOTAL LINE CAPACITANCE	X	X				
R	RELAY	2 COND. SOLID	14 AWG		X	X	X	X		

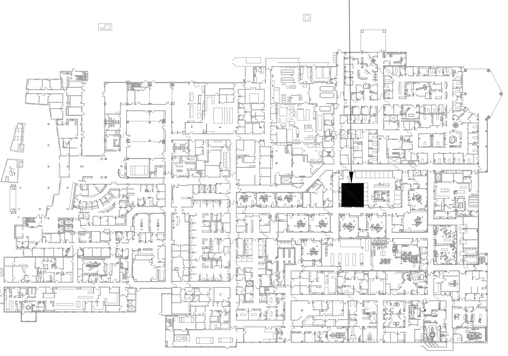
CONDUIT SIZE	MAX CONDUCTOR AREA	CONDUIT SIZE	MAX CONDUCTOR AREA
1/2"	0.122 SQ. INCH*	1-1/4"	0.598 SQ INCH*
3/4"	0.213 SQ INCH*	1-1/2"	0.814 SQ INCH*
1"	0.346 SQ INCH*	2"	1.342 SQ INCH*

* 40% CONDUIT FILL PER N.E.C.

UTP = UNSHIELDED TWISTED PAIR

ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM. INSTALLATION. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR SELECTING AND INSTALLING CABLE MANUFACTURER AND MODEL THAT MEETS OR EXCEEDS THE ABOVE REQUIREMENTS. RECOMMENDED CABLE MANUFACTURERS AND MODEL NUMBERS ARE AVAILABLE UPON REQUEST.

INTERIM & BUILDOUT SCOPE

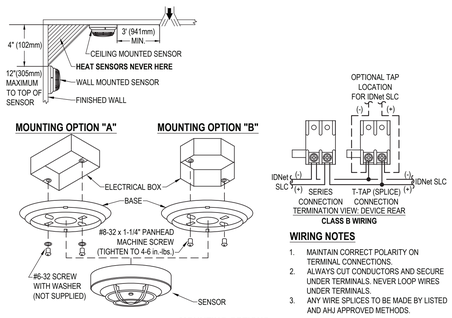


KEYPLAN
SCALE:N.T.S.

FOR REFERENCE ONLY

STANDARD SENSOR BASE

SIMPLEX 4098-9792



WIRING NOTES

1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

MOUNTING OPTIONS

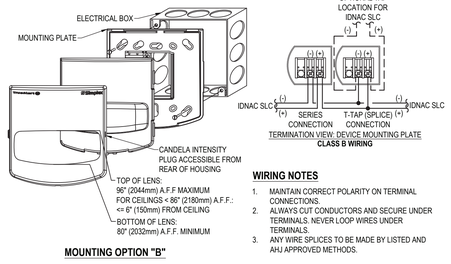
OPTION[1]	DESCRIPTION	NOTE
A	SINGLE GANG BOX, 2-1/8" (54mm) DEEP - FLUSH MOUNT	BY OTHERS
B	4" (102mm) OCTAGONAL BOX, 1-1/2" (38mm) DEEP, MINIMUM - FLUSH MOUNT	BY OTHERS
C	4" (102mm) SQUARE BOX, 1-1/2" DEEP (MIN) W/ SIMPLEX 4098-9832 ADAPTER KIT	BOX BY OTHERS, 4098-9832 ORDERED SEPARATELY
D	4" (102mm) SQUARE BOX, 1-1/2" DEEP (MIN) W/ SINGLE GANG COVER PLATE 3/4" (19mm) EXTENSION	BY OTHERS

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 4098-0019 FROM HTTP://WWW.SIMPLEX-FIRE.COM

TrueAlert ES ADDRESSABLE APPLIANCES

SIMPLEX 49VO SERIES WALL MOUNTED VISUAL ONLY

IMPORTANT
DO NOT BRING THE CONDUIT THROUGH THE REAR OF THE ELECTRICAL BOX. STRIP THE LEAD INSULATION TO 7/16" MAX.



WIRING NOTES

1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

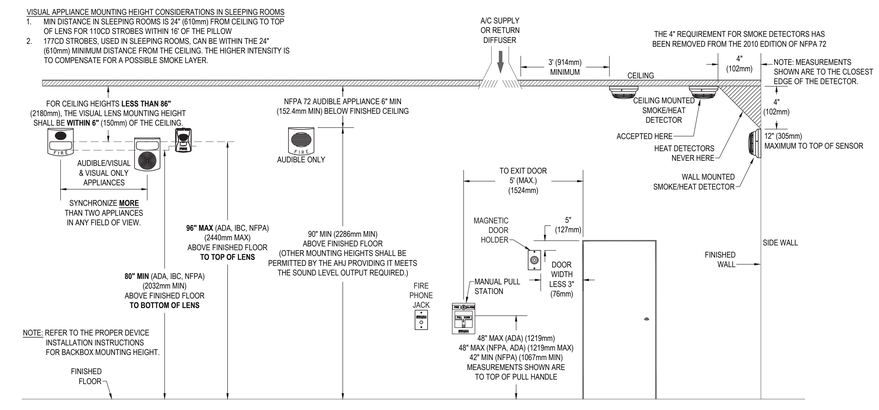
MOUNTING OPTIONS

OPTION[1]	DESCRIPTION	NOTE
A	SINGLE GANG OR DOUBLE GANG BOX, 1-1/2" (38mm) DEEP (MIN)	BY OTHERS
B	4" (102mm) SQUARE BOX, 1-1/2" DEEP (MIN)	BY OTHERS
C	SIMPLEX 2975-9145, 7-7/8"H x 5-1/8"W x 2-3/4"D (127mm x 98mm x 56mm) REQUIRES 4905-9931 PLATE	ORDERED SEPARATELY

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET S49VO-0001 FROM HTTP://WWW.SIMPLEX-FIRE.COM

DEVICE MOUNTING HEIGHT REFERENCE

PER NFPA 72



TYPICAL DEVICE WIRING

THE MEDICAL CENTER OF AURORA - SOUTH OR 4 RENOVATION
THE MEDICAL CENTER OF AURORA
1501 SOUTH POTOMAC STREET
AURORA, COLORADO 80012

ISSUE LOG: MARK	DATE	CAD	CHK	DESCRIPTION
Revisions shown with Δ symbol				

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PROJECT #:	419-6502188I04

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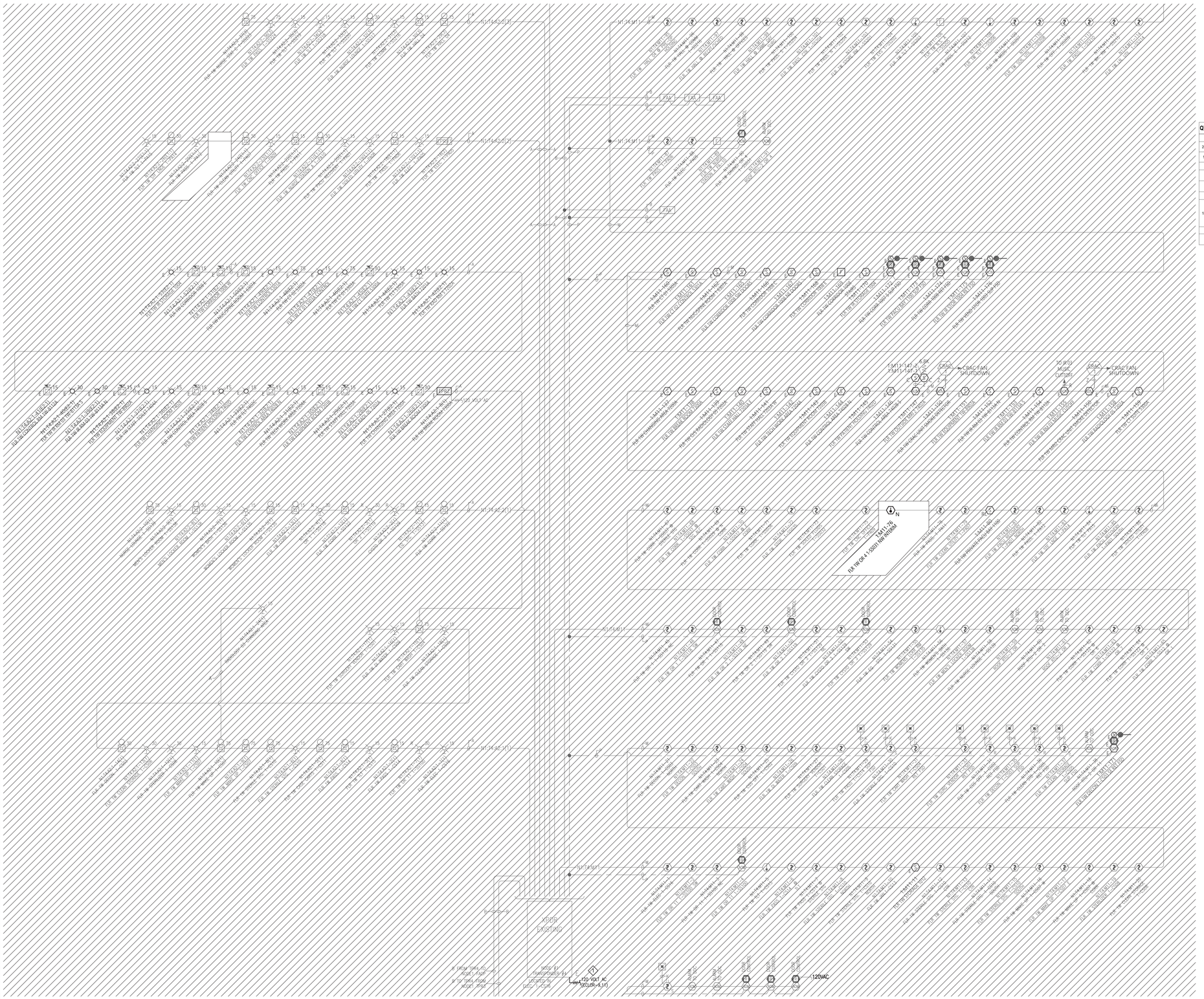
SYSTEM: FIRE ALARM SYSTEM

SHEET: 1ST FLOOR PARTIAL DEVICE PLACEMENT PLAN & TYPICAL DEVICE WIRING

FA-101

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36" x 42" Arch E1 Size



1ST FLOOR PARTIAL RISER DIAGRAM - INTERIM

SCALE:N.T.S.

RISER NOTES:

1. RISER IS A DIAGRAMMATICAL REPRESENTATION OF THE SYSTEM ARCHITECTURE IN BUILDING CROSS SECTION. IT IS NOT INTENDED TO REPRESENT ACTUAL WIRE RUNS, PANEL CONFIGURATIONS OR PENETRATIONS. REFER TO FLOOR PLANS AND PANEL DETAILS FOR CIRCUIT ROUTING AND CONFIGURATION INFORMATION.
2. ALL WIRING SHALL COMPLY WITH APPLICABLE ELECTRICAL CODES. REFER TO "APPLICABLE CODES & STANDARDS" ON SHEET FA-001 FOR SPECIFIC CODE REFERENCES.
3. THE INFORMATION OR SYMBOLS SHOWN IN BOLD LINETYPE ARE NEW OR RELOCATED.
4. THE INFORMATION OR SYMBOLS SHOWN IN LIGHT LINETYPE ARE EXISTING.
5. ALL ITEMS THAT ARE HATCHED ARE NOT IN THIS SCOPE OF WORK.
7. NOTIFICATION WIRING WILL BE CLASS A TO THE FIRE ALARM TERMINAL CABINET IN EQUIPMENT STORAGE 1RD017 AND CLASS B TO THE FIELD DEVICES PER IFC 907.6.1.2.3.

KEYED NOTES:

1. 120VAC PRIMARY POWER SOURCE SHALL BE A MECHANICALLY PROTECTED BRANCH CIRCUIT. THE CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, AND BE IDENTIFIED AS "FIRE ALARM CIRCUIT"

FIRE ALARM SYMBOL LEGEND

QTY	SYMBOL	DESCRIPTION	BRAND	MODEL	BACKBOX	WIRE TYPE
		INITIATING DEVICES				
29L	(Z) OR (S)	EXISTING RELOCATED ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ STANDARD BASE	SIMPLEX	4098-9714 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	Mi
1N		ADDRESSABLE STANDARD HEAT SENSOR W/ EXISTING STANDARD BASE	SIMPLEX	4098-9733 HEAD 4098-9792 BASE	4" OCT, 1-1/2" D	Mi
		MODULES AND RELAYS				
	(CM)	EXISTING RELAY IAM	SIMPLEX	4090-9002	4" SQ. 2-1/8" D W/ DBL. GANG COVER	Mi R
	(R)	EXISTING ENCAPSULATED RELAY PAM-1 SPDT W/ LED, APOLLO AMERICA INC PAM-1	SIMPLEX	2088-9021	SINGLE GANG 2-1/8" D W/ COVER	R
		NOTIFICATION APPLIANCES				
19L	OR	EXISTING RELOCATED ADDRESSABLE MUTI-CANDELA STROBE, WALL MOUNT, APPLIANCE ONLY, CLEAR LENS	SIMPLEX	49VO-APPLW	SINGLE GANG 1-1/2" D	A
		EXISTING/ RELOCATED RED LENS	SIMPLEX	49LENS-RED		
		EXISTING RELOCATED MOUNTING PLATE, RED	SIMPLEX	49MP-AVVOWR		
		EXISTING RELOCATED APPLIANCE COVER, RED, FIRE LETTERING	SIMPLEX	49VOC-WRFRE		
		MISCELLANEOUS DEVICES				
	(JB)	EXISTING JUNCTION BOX	BY OTHERS	BY OTHERS		

FIRE ALARM WIRE LEGEND

	CIRCUIT DESCRIPTION	CONSTRUCTION	GAUGE	CIRCUIT PROPERTIES	ACCEPTABLE CABLE TYPES: FPLR	FPLP	TFHN	TFFN	+ OUTDOOR C1
A	ADDRESSABLE NOTIFICATION	UTP, SOLID	14 AWG	60pf/ft. MAX CAPACITANCE; 3 feet/ft. MINIMUM	X	X			
Mi	IDNET	UTP, SOLID	18 AWG	0.60uF MAX TOTAL LINE CAPACITANCE	X	X			
R	RELAY	3 COND. SOLID	14 AWG		X	X	X	X	

CONDUIT SIZE	MAX CONDUCTOR AREA	CONDUIT SIZE	MAX CONDUCTOR AREA
1/2"	0.122 SQ. INCH*	1-1/4"	0.598 SQ INCH*
3/4"	0.213 SQ INCH*	1-1/2"	0.814 SQ INCH*
1"	0.346 SQ INCH*	2"	1.342 SQ INCH*

* 40% CONDUIT FILL PER N.E.C.

UTP = UNSHIELDED TWISTED PAIR

ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM INSTALLATION. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR SELECTING AND INSTALLING CABLE MANUFACTURER AND MODEL THAT MEETS OR EXCEEDS THE ABOVE REQUIREMENTS. RECOMMENDED CABLE MANUFACTURERS AND MODEL NUMBERS ARE AVAILABLE UPON REQUEST.

Johnson Controls
PHONE: 303-350-9500
FAX: 303-350-9615
DISTRICT 1-415
10200 E GIRARD AVENUE
AURORA, CO 80017
SERVICE: 303-350-9500

NICET CERTIFICATION INFORMATION

NANCY S. WILTSIE
NICET Fire Alarm, III
Certification #93727
Valid Through: 03/01/24

Nancy S Wiltsie
September 22, 2022

THE MEDICAL CENTER OF AURORA - SOUTH OR 4 RENOVATION

THE MEDICAL CENTER OF AURORA
1501 SOUTH POTOMAC STREET
AURORA, COLORADO 80012

Revisions shown with ⚠ symbol

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ISSUE DATE:	9/6/22
JOB #:	
PROJECT #:	419-6502188I04

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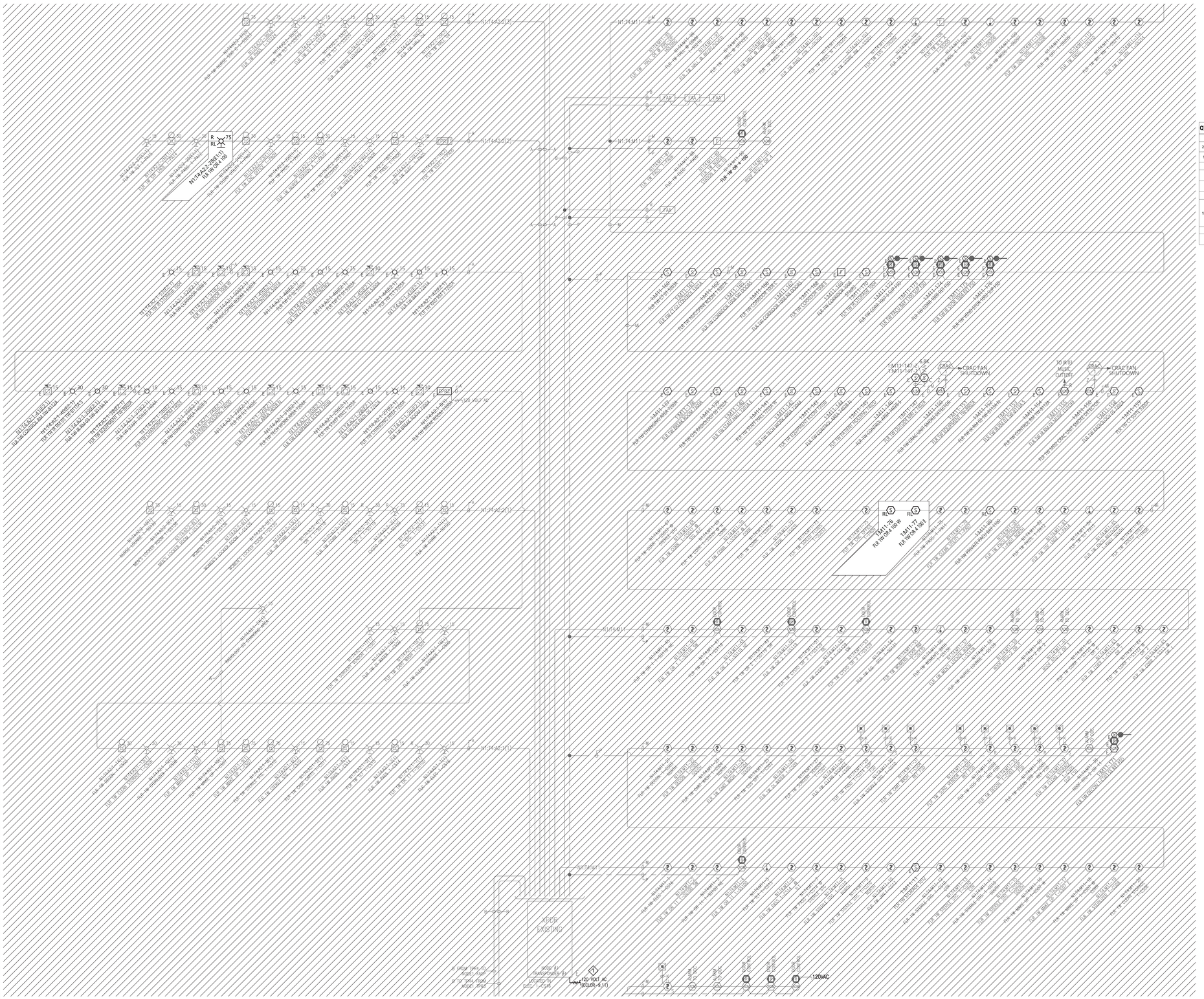
SYSTEM: FIRE ALARM SYSTEM

SHEET: 1ST FLOOR PARTIAL RISER DIAGRAM - INTERIM

FA-201

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36" x 42" - Arch E1 Size


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MEDICAL CENTER OF AURORA SOUTH TOWER TRANSPONDER 4 4100es XPDR

Module	Qty	Description		Standby Current	Total Standby	Alarm Current	Total Alarm
Panel Equipment							
4100-9600	1	BASIC TRANSPONDER	"	0.0870	0.0870	0.0870	0.0870
4100-0634	1	POWER DISTRIBUTION MODULE 120V		0.0000	0.0000	0.0000	0.0000
4100-0636	1	BOX TO BOX HARNESS KIT		0.0000	0.0000	0.0000	0.0000
4100-2300	1	EXPANSION BAY (PHASE 10 ONLY)		0.0000	0.0000	0.0000	0.0000
4100-5311	1	ENHANCED POWER SUPPLY, 3 CHANNELS, IDNet, 120V		0.2250	0.2250	0.4900	0.4900
4009-9601	2	IDNAC REPEATER 120V PLATINUM UL/ULC.		0.0700	0.1400	0.0960	0.1920
		Panel Totals			**0.4520**		**0.7690**
IDNet Addressable Devices (SLC)							
4090-9001	3	IDNET SUPERVISED IAM	"				
4090-9002	40	IDNET RELAY IAM	"				
2 4098-9714	98	**TRUEALARM PHOTO SMOKE SENSOR**					
2 **4098-9733**	10	**TRUEALARM HEAT SENSOR**	*	Constant current draw of .8mA standby and 1mA alarm per address used. Devices requiring additional current are accounted for in the section labeled "Miscellaneous Peripheral Devices Requiring Additional System Power".			
4098-9755	2	TRUEALARM DUCT SMOKE SENSOR W/O RELAY OUTPUT	"				
4098-9756	10	TRUEALARM DUCT SMOKE SENSOR W/ RELAY OUTPUT	"				
1 **4098-9792**	108	**TRUEALARM SENSOR BASE**	*				
4099-9004	4	ADDRESSABLE SINGLE ACTION MANUAL STATION	"				
4099-9006	1	ADDRESSABLE DOUBLE ACTION MANUAL STATION, PUSH	"				
Miscellaneous Peripheral Devices That Require (Additional) System Power							
4098-9843	10	ENCAPSULATED RELAY PAM-SD		0.0000	0.0000	0.0150	0.1500
4098-9756	10	TRUEALARM DUCT SMOKE SENSOR W/ RELAY OUTPUT		0.0030	0.0300	0.0150	0.1500
4603-9101	4	SERIAL LCD ANNUNCIATOR		0.0650	0.2600	0.1400	0.5600
2088-9021	11	ENCAPSULATED RELAY PAM-1		0.0000	0.0000	0.0150	0.1650
4098-9605	2	PHOTO SMOKE DETECTOR SSD		0.0001	0.0002	0.0000	0.0000
4098-9788	2	2 WIRE DETECTOR BASE		0.0000	0.0000	0.0000	0.0000
2098-9806	10	REMOTE TEST STATION W/ LED AND KEY SWITCH		0.0000	0.0000	0.0000	0.0000
IDNac Notification Appliances			**Setting**				
4009-9601	2	IDNAC REPEATER 120V PLATINUM UL/ULC.	"	0.0032	0.0064	0.0032	0.0064
4906-9202	6	ADDRESSABLE CEILING MNT MC V/O, RED	15	0.0008	0.0048	0.0600	0.3600
4906-9202	1	ADDRESSABLE CEILING MNT MC V/O, RED	75	0.0008	0.0008	0.1800	0.1800
49MT-WRF	2	MULTI-TONE AUDIBLE ONLY, RED, WALL MOUNT	520 H	0.0016	0.0032	0.0990	0.1980
49MTV-WRF	18	MULTI-TONE A/V, RED, WALL MOUNT	15	0.0016	0.0288	0.1450	2.6100
49MTV-WRF	11	MULTI-TONE A/V, RED, WALL MOUNT	30	0.0016	0.0176	0.1630	1.7930
49MTV-WRF	6	MULTI-TONE A/V, RED, WALL MOUNT	75	0.0016	0.0096	0.1980	1.1880
49VO-APPLC	11	STROBE, APPLIANCE ONLY, CEILING MOUNT	15	0.0008	0.0088	0.0550	0.6050
49VO-APPLC	2	STROBE, APPLIANCE ONLY, CEILING MOUNT	30	0.0008	0.0016	0.0830	0.1660
49VO-APPLC	2	STROBE, APPLIANCE ONLY, CEILING MOUNT	75	0.0008	0.0016	0.1530	0.3060
49VO-APPLW	1	VO APPLIANCE ONLY WALL MT	15	0.0008	0.0008	0.0470	0.0470
49VO-APPLW	3	VO APPLIANCE ONLY WALL MT	30	0.0008	0.0024	0.0570	0.1710
49VO-APPLW	1	VO APPLIANCE ONLY WALL MT	75	0.0008	0.0008	0.1000	0.1000
1 **49VO-APPLW**	**0**	**VO APPLIANCE ONLY WALL MT, W/ COLORED LENS KIT**	**75 w/**	**0.0008**	**0.0000**	**0.1280**	**0.0000**
49VO-WRF	30	VO, WALL MT, RED, FIRE LABEL	15	0.0008	0.0240	0.0470	1.4100
49VO-WRF	4	VO, WALL MT, RED, FIRE LABEL	30	0.0008	0.0032	0.0570	0.2280
		Total IDNac Device Current:			**0.1152**		**9.4684**
		IDNac Current Boost for 29vdc Regulated Output **					**5.3981**
		Peripheral Totals			**0.2902**		**15.8915**
		RUI Totals	**4**		**0.0140**		**0.0140**
		Address Totals	**168 Addresses**		**0.1344**		**0.1680**
		System Totals*:		**Standby**	**1.0058**	**Alarm**	**16.8425**

*** Device Address current draw included below (See Additional Current Draws):**

			Standby Current	Standby Total	Alarm Current	Alarm Total
Battery Set #1 (Cabinet/Charger #1)						
Select ALL Power Supplies on this battery set:						
EPS-1				0.6734		7.1974
		Sub Total		**0.6734**		**7.1974**
Additional Current Draws:						
IDNac Current Boost for 29vdc Regulated Output **						3.1900
RUI Connected Peripheral Devices	4	x 0.0035		= 0.0140	x 0.0035	= 0.0140
MAPNET/IDNet Device Address Communication Current	168	x 0.000800		= 0.1344	x 0.001000	= 0.1680
		Sub Total		**0.8218**		**10.5694**
Spare addressable point capacity	**20%**	34 x 0.0008		= 0.0272	x 0.001	= 0.0340
		Total		**0.8490**		**10.6034**
Standby Time =	**4** Hrs	x 0.8490		= 3.3960	Standby Ah	
Alarm Time =	**5** Min	0.08333 x 10.6034		= 0.8836	Alarm Ah	
				4.2796		
Additional Spare Battery Capacity =	**20%**			+ 0.8559		
				5.1355		
Battery Discharge Factor =	**20%**			+ 1.0271		
Minimum Battery Required	**2081-9272 6.2AH (2x)**			**6.1627**		
Battery Supplied	**2081-9287 25AH (2x)**					

*** System Totals represent total system current requirements. Those currents may be distributed between multiple battery sets or power supplies as shown above.**

**** IDNac Current Boost formula: ((29.5 * IDNac Alarm Current) / .92) / 20.4 = Adjusted Current**
DC-DC Converter Output = 29.5vdc. Terminal Output is 29vdc due to 0.5vdc internal loss.
Converter Worst Case efficiency is 92%, 20.4vdc represents battery output in 85% depleted state

			Standby	Standby Total	Alarm	Alarm Total
Repeater Power Supply Battery Set:						
EPR-1				0.0828		**1.1670**
Additional Current Draw:						
IDNac Current Boost for 29vdc Regulated Output **				0.0000		0.6106
		Total		**0.0828**		**1.7776**
Standby Time =	**4** Hrs	x 0.8490		= 0.3312	Standby Ah	
Alarm Time =	**5** Min	0.08333 x 1.7776		= 0.1481	Alarm Ah	
				0.4793		
Additional Spare Battery Capacity =	**20%**			+ 0.0959		
				0.5752		
Battery Discharge Factor =	**20%**			+ 0.1150		
Minimum Battery Required	**2081-9272 6.2AH (2x)**			**0.6902**		
Battery Supplied	**2081-9272 6.2AH (2x)**					

			Standby Total	Alarm Total
Repeater Power Supply Battery Set:				
EPR-2			0.1012	**2.8980**
Additional Current Draw:				
IDNac Current Boost for 29vdc Regulated Output **			0.0000	1.5975
		Total	**0.1012**	**4.4955**
Standby Time =	**4** Hrs	x 0.8490	= 0.4048	Standby Ah
Alarm Time =	**5** Min	0.08333 x 4.4955	= 0.3746	Alarm Ah
			0.7794	
Additional Spare Capacity =	**20%**		+ 0.1559	
			0.9353	
Additional Spare Battery Capacity =	**20%**		+ 0.1871	
Minimum Battery Required	**2081-9272 6.2AH (2x)**		**1.1224**	
Battery Supplied	**2081-9272 6.2AH (2x)**			

IDNET CHANNEL N1:T4:M11		ADDRESSES IN USE: 168 (67.2%) | SPARE ADDRESSES: 82 (32.8%)		SWITCH SETTINGS							
Address	Device Type	Point Type	Location Description	1	2	3	4	5	6	7	8
N1:T4:M11-1	PHOTO	SMOKE	1:M11-1 FLR 1W ELEC 1-CS16	X							ON
N1:T4:M11-2	PHOTO	SMOKE	1:M11-2 FLR 1W OR-11 1-SS10 SW		X						ON
N1:T4:M11-3	PHOTO	SMOKE	1:M11-3 FLR 1W OR-11 1-SS10 NE	X	X						ON
N1:T4:M11-4	RIAM	DHOLDER	1:M11-4 FLR 1W OR-11 1-SS100			X					ON
N1:T4:M11-5	HEAT	HEAT	1:M11-5 FLR 1W TOILET C-S15	X		X					ON
N1:T4:M11-6	PHOTO	VSMOKE	1:M11-6 FLR 1W CORR 1-CS14		X	X					ON
N1:T4:M11-7	PHOTO	VSMOKE	1:M11-7 FLR 1W CORR 1-CS14	X	X	X					ON
N1:T4:M11-8	PHOTO	SMOKE	1:M11-8 FLR 1W STER STG 1-CS10 NORTH				X				ON
N1:T4:M11-9	PHOTO	SMOKE	1:M11-9 FLR 1W STER STG 1-CS10	X			X				ON
N1:T4:M11-10	PHOTO	SMOKE	1:M11-10 FLR 1W JAN1-CS13		X		X				ON
N1:T4:M11-11	PHOTO	VSMOKE	1:M11-11 FLR 1W STORAGE 1012	X	X		X				ON
N1:T4:M11-12	PHOTO	SMOKE	1:M11-12 FLR 1W STER STG 1-CS10 CTR			X	X				ON
N1:T4:M11-13	PHOTO	SMOKE	1:M11-13 FLR 1W CENTRAL STERILE	X		X	X				ON
N1:T4:M11-14	PHOTO	SMOKE	1:M11-14 FLR 1W STER STG 1-CS10 SOUTH		X	X	X				ON
N1:T4:M11-15	PHOTO	SMOKE	1:M11-15 FLR 1W STER STG 1-CS10 SOUTH	X	X	X	X				ON
N1:T4:M11-16	PHOTO	SMOKE	1:M11-16 FLR 1W MAKE UP 1-CS07 W				X				ON
N1:T4:M11-17	PHOTO	SMOKE	1:M11-17 FL 1W CENTRAL STERILE	X			X				ON
N1:T4:M11-18	PHOTO	SMOKE	1:M11-18 FL 1W MAKE UP 1-CS07 @ CORR		X		X				ON
N1:T4:M11-19	PHOTO	SMOKE	1:M11-19 FL 1W STERILIZER 1-CS08	X	X		X				ON
N1:T4:M11-20	PHOTO	SMOKE	1:M11-20 FL 1W CLEAN STORAGE 1-CS06			X	X				ON
N1:T4:M11-21	PHOTO	SMOKE	1:M11-21 FL 1W DECON 1-CS03 NORTH	X		X	X				ON
N1:T4:M11-22	PHOTO	SMOKE	1:M11-22 FL 1W DECON 1-CS03 SOUTH		X	X	X				ON
N1:T4:M11-23	PHOTO	SMOKE	1:M11-23 FL 1W CART WASH 1-CS04 NORTH	X	X	X					ON
N1:T4:M11-24	PHOTO	SMOKE	1:M11-24 FL 1W CART WASH 1-CS04 SOUTH				X	X			ON
N1:T4:M11-25	PHOTO	SMOKE	1:M11-25 FL 1W CSS OFF 1-CS02	X			X	X			ON
N1:T4:M11-26	PHOTO	SMOKE	1:M11-26 FL 1W DI WATER 1-CS09		X		X	X			ON
N1:T4:M11-27	PHOTO	SMOKE	1:M11-27 FL 1W SURGERY VENDOR 1-CS01	X	X		X	X			ON
N1:T4:M11-28	PHOTO	SMOKE	1:M11-28 FL 1W CLEAN STORAGE 1-CS05			X	X	X			ON
N1:T4:M11-29		SPARE	SPARE	X		X	X	X			ON
N1:T4:M11-30	RPHOTO	LSDUCT	1:M11-30 FLR 1W STER STG SUP FSD 1-CS10		X	X	X	X			ON
N1:T4:M11-31	RPHOTO	LSDUCT	1:M11-31 FLR 1W CARTWASH 1-CS04 RET FSD		X	X	X	X			ON
N1:T4:M11-32		SPARE	SPARE						X		ON
N1:T4:M11-33	RPHOTO	LSDUCT	1:M11-33 FLR 1W SRG VEND 1-CS01 RET FSD	X					X		ON
N1:T4:M11-34		SPARE	SPARE		X				X		ON
N1:T4:M11-35	RPHOTO	LSDUCT	1:M11-35 FLR 1W DECON 1- CS03 SUP FSP	X	X				X		ON
N1:T4:M11-36		SPARE	SPARE			X			X		ON
N1:T4:M11-37		SPARE	SPARE	X		X			X		ON
N1:T4:M11-38		SPARE	SPARE		X	X			X		ON
N1:T4:M11-39	RIAM	RELAY	1:M11-39 FLR 1W OR #11 ALARM TO DCC	X	X	X			X		ON
N1:T4:M11-40	RIAM	RELAY	1:M11-40 FLR 1W OR #3 ALARM TO DDC				X		X		ON
N1:T4:M11-41	RPHOTO	LSDUCT	1:M11-41 FLR 1W ELEC RM 1-CS16 SUP FSD	X			X		X		ON
N1:T4:M11-42	RPHOTO	LSDUCT	1:M11-42 FLR 1W ELEC RM 1-CS16 RET FSD		X		X		X		ON
N1:T4:M11-43	RPHOTO	LSDUCT	1:M11-43 FLR 1W TLT 1-CS15 SUP FSD	X	X		X		X		ON
N1:T4:M11-44	RPHOTO	LSDUCT	1:M11-44 FLR 1W OR-11 1-SS100 RET FSD			X	X		X		ON
N1:T4:M11-45	PHOTO	VSMOKE	1:M11-45 FLR 1W OR-1 1-SS118 NE	X		X	X		X		ON
N1:T4:M11-46	PHOTO	VSMOKE	1:M11-46 FLR 1W OR-1 1-SS118 SW		X	X	X		X		ON
N1:T4:M11-47	RIAM	DHOLDER	1:M11-47 FLR 1W OR-1 1-SS118 D/H	X	X	X	X		X		ON
N1:T4:M11-48	PHOTO	VSMOKE	1:M11-48 FLR 1W OR-2 1-SS119 NE						X		ON
N1:T4:M11-49	PHOTO	VSMOKE	1:M11-49 FLR 1W OR-2 1-SS119 SW	X					X		ON
N1:T4:M11-50	RIAM	DHOLDER	1:M11-50 FLR 1W OR-2 1-SS119 D/H		X				X		ON
N1:T4:M11-51	PHOTO	VSMOKE	1:M11-51 FLR 1W CYSTO OR-3 1-SS129 NE	X	X				X		ON
N1:T4:M11-52	PHOTO	VSMOKE	1:M11-52 FLR 1W CYSTO OR-3 1-SS129 SW			X			X		ON
N1:T4:M11-53	RIAM	DHOLDER	1:M11-53 FLR 1W CYSTO OR-3 1-SS129 D/H	X		X			X		ON
N1:T4:M11-54	PHOTO	VSMOKE	1:M11-54 FLR 1W EQUIP STG 1-SS131		X	X			X		ON
N1:T4:M11-55	PHOTO	VSMOKE	1:M11-55 FLR 1W WOMENS LOCKER 1-SS135	X	X	X			X		ON
N1:T4:M11-56	HEAT	HEAT	1:M11-56 FLR 1W WOMENS BATH 1-SS136				X		X		ON
N1:T4:M11-57	PHOTO	SMOKE	1:M11-57 FLR 1W MENS LOCKER 1-SS138	X			X		X		ON
N1:T4:M11-58	PHOTO	VSMOKE	1:M11-58 FLR 1W NURSE LOUNGE 1-SS139		X		X		X		ON
N1:T4:M11-59		SPARE	SPARE	X	X		X		X		ON
N1:T4:M11-60		SPARE	SPARE			X	X		X		ON
N1:T4:M11-61		SPARE	SPARE	X		X	X		X		ON
N1:T4:M11-62	RPHOTO	LSDUCT	1:M11-62 FLR 1W OR-11 1-SS100 SUP FSD		X	X	X		X		ON
N1:T4:M11-63	RPHOTO	LSDUCT	1:M11-63 FLR 1W CORR 1-SS112 SUP FSD		X	X	X		X		ON
N1:T4:M11-64		SPARE	SPARE							X	ON
N1:T4:M11-65	RIAM	RELAY	1:M11-65 FLR 1W OR-1 PHOENIX VALVE	X						X	ON
N1:T4:M11-66	RIAM	RELAY	1:M11-66 FLR 1W OR-2 PHOENIX VALVE		X					X	ON
N1:T4:M11-67	PHOTO	VSMOKE	1:M11-67 FLR 1W CORR 1-SS0237 @ STER STG	X	X					X	ON
N1:T4:M11-68	PHOTO	VSMOKE	1:M11-68 FLR 1W CORR 1-SS037 @ STG ALC			X				X	ON
N1:T4:M11-69	PHOTO	VSMOKE	1:M11-69 FLR 1W CORR 1-SS029 @ N CORR	X		X				X	ON
N1:T4:M11-70	PHOTO	SMOKE	1:M11-70 FLR 1W CORR 1-SS036		X	X				X	ON
N1:T4:M11-71	PHOTO	SMOKE	1:M11-71 FLR 1W CORR 1-SS036	X	X	X				X	ON
N1:T4:M11-72	PHOTO	SMOKE	1:M11-72 FLR 1W STOR 1-SS035				X			X	ON
N1:T4:M11-73	PHOTO	SMOKE	1:M11-73 FLR 1W SOILED FLUIDS 1-SS032	X			X			X	ON
N1:T4:M11-74	RIAM	DHOLDER	1:M11-74 FLR 1W OR 4 CORR 1-SS036		X		X			X	ON
N1:T4:M11-75	RIAM	RELAY	1:M11-75 FLR 1W OR 4 PHOENIX VALVE	X	X		X			X	ON
2 N1:T4:M11-76	HEAT	HEAT	1:M11-76 FLR 1W OR 4 1-SS031 INTERIM			X		X		X	ON
1 N1:T4:M11-77		SPARE	SPARE	X		X	X			X	ON
N1:T4:M11-78	PHOTO	VSMOKE	1:M11-78 FLR 1W PASS 1-PA11		X	X	X			X	ON
N1:T4:M11-79	PHOTO	VSMOKE	1:M11-79 FLR 1W CLEAN UTILITY 1-PA07	X	X	X	X			X	ON
N1:T4:M11-80	PHOTO	VSMOKE	1:M11-80 FLR 1W PRIVATE PACI BAY 1100				X			X	ON
N1:T4:M11-81	PHOTO	VSMOKE	1:M11-81 FLR 1W PACU RECOVERY 1-PA01 N	X			X			X	ON
N1:T4:M11-82	PHOTO	VSMOKE	1:M11-82 FLR 1W PASS 1-PA12		X		X			X	ON
N1:T4:M11-83	PHOTO	VSMOKE	1:M11-83 FLR 1W STF LNGE 1-PA14	X	X		X			X	ON
N1:T4:M11-84	HEAT	HEAT	1:M11-84 FLR 1W TLT PA15			X	X			X	ON
N1:T4:M11-85	PHOTO	SMOKE	1:M11-85 FLR 1W PACU RECOVERY 1-PA01 S	X		X	X			X	ON
N1:T4:M11-86	PHOTO	SMOKE	1:M11-86 FLR 1W SOILED UTILITY 1-PA08		X	X	X			X	ON
N1:T4:M11-87	PHOTO	SMOKE	1:M11-87 FLR 1W PASS 1-PA06	X	X	X	X			X	ON
N1:T4:M11-88	PHOTO	SMOKE	1:M11-88 FLR 1W ELEC 1-PA05			X	X	X		X	ON
N1:T4:M11-89	ADRPUL	PULL	1:M11-89 FLR 1W NURSE STATION A 1-PA10	X			X	X		X	ON
N1:T4:M11-90	RIAM	RRELAY	1:M11-90 FLR 1W DAVINCI OR 4 1-SS029		X		X	X		X	ON
N1:T4:M11-91		SPARE	SPARE	X	X		X	X		X	ON
N1:T4:M11-92	PHOTO	VSMOKE	1:M11-92 FLR 1W CORR 1-SS122 @STORAGE			X	X	X		X	ON
N1:T4:M11-93	PHOTO	VSMOKE	1:M11-93 FLR 1W STORAGE 1-SS125	X		X	X	X		X	ON
N1:T4:M11-94		SPARE	SPARE		X	X	X	X		X	ON
N1:T4:M11-95		SPARE	SPARE	X	X	X	X	X		X	ON
N1:T4:M11-96		SPARE	SPARE						X	X	ON
N1:T4:M11-97		SPARE	SPARE	X					X	X	ON
N1:T4:M11-98		SPARE	SPARE		X				X	X	ON
N1:T4:M11-99		SPARE	SPARE	X	X				X	X	ON
N1:T4:M11-100	PHOTO	VSMOKE	1:M11-100 FLR 1W PASS 1-SS204 S			X			X	X	ON
N1:T4:M11-101	PHOTO	VSMOKE	1:M11-101 FLR 1W PASS 1-SS204 CTR	X		X			X	X	ON
N1:T4:M11-102	PHOTO	VSMOKE	1:M11-102 FLR 1W PASS 1-SS204 N		X	X			X	X	ON
N1:T4:M11-103	PHOTO	VSMOKE	1:M11-103 FLR 1W STORE ROOM 1-SS201	X	X	X			X	X	ON
N1:T4:M11-104	PHOTO	VSMOKE	1:M11-104 FLR 1W EVS 1-SS202				X		X	X	ON
N1:T4:M11-105	HEAT	HEAT	1:M11-105 FLR 1W TOILET 1-SS203	X			X		X	X	ON
N1:T4:M11-106	ADRPUL	PULL	1:M11-106 FLR 1W NURSE STATION A 1-SS205		X		X		X	X	ON
N1:T4:M11-107	PHOTO	VSMOKE	1:M11-107 FLR 1W PASS E 1-SS212	X	X		X		X	X	ON
N1:T4:M11-108	HEAT	HEAT	1:M11-108 FLR 1W TOILET 1-SS206			X	X		X	X	ON
N1:T4:M11-109	PHOTO	VSMOKE	1:M11-109 FLR 1W MEDS 1-SS207	X		X	X		X	X	ON
N1:T4:M11-110	PHOTO	VSMOKE	1:M11-110 FLR 1W SOILED UTILITY 1-SS208		X	X	X		X	X	ON
N1:T4:M11-111	PHOTO	VSMOKE	1:M11-111 FLR 1W OFFICE 1-SS209	X	X	X	X		X	X	ON
N1:T4:M11-112	PHOTO	VSMOKE	1:M11-112 FLR 1W PASSAGE 1-SS210					X	X	X	ON
N1:T4:M11-113	PHOTO	VSMOKE	1:M11-113 FLR 1W WORK ROOM 1-SS215	X				X	X	X	ON
N1:T4:M11-114	PHOTO	VSMOKE	1:M11-114 FLR 1W CLEAN UTILITY 1-SS214		X			X	X	X	ON
N1:T4:M11-115	ADRPUL	PULL	1:M11-115 FLR 1W NURSE STATION 1-SS213	X	X			X	X	X	ON
N1:T4:M11-116	PHOTO	SMOKE	1:M11-116 FLR 1W PASSAGE W 1-SS212		X		X	X	X	X	ON
N1:T4:M11-117	HEAT	HEAT	1:M11-117 FLR 1W TOILET 1-SS221	X		X	X	X	X	X	ON
N1:T4:M11-118	PHOTO	VSMOKE	1:M11-118 FLR 1W NOURISHMENT 1-SS222		X	X	X	X	X	X	ON
N1:T4:M11-119	PHOTO	VSMOKE	1:M11-119 FLR 1W PASS E 1-SS224	X	X	X		X	X	X	ON
N1:T4:M11-120	PHOTO	VSMOKE	1:M11-120 FLR 1W PASS N 1-SS224				X	X	X	X	ON
N1:T4:M11-121	PHOTO	VSMOKE	1:M11-121 FLR 1W PASS S 1-SS224	X			X	X	X	X	ON
N1:T4:M11-122	ADRPUL	PULL	1:M11-122 FLR 1W NURSE STAT C 1-SS223		X		X	X	X	X	ON
N1:T4:M11-123	HEAT	HEAT	1:M11-123 FLR 1W TLT 1-SS219	X	X		X	X	X	X	ON
N1:T4:M11-124	HEAT	HEAT	1:M11-124 FLR 1W TLT 1-SS218			X	X	X	X	X	ON
N1:T4:M11-125	PHOTO	VSMOKE	1:M11-125 FLR 1W NURSE LOUNGE 1-SS217	X		X	X	X	X	X	ON

NOTE: THE LABELS SHOWN ABOVE WILL BE USED FOR PROGRAMMING PURPOSES.
THE LABELS ARE BASED UPON INFORMATION SHOWN ON THE ARCHITECTURAL DRAWINGS.
ANY CHANGES TO THESE LABELS MUST BE NOTED ON THE SUBMITTAL REVIEW, PRIOR TO PROGRAMMING.
POINTS SHOWN IN ITALIC TEXT REFER TO EXISTING DEVICES.

IDNET CHANNEL N1:T4:M11		ADDRESSES IN USE: 168 (67.2%) | SPARE ADDRESSES: 82 (32.8%)		SWITCH SETTINGS							
Address	Device Type	Point Type	Location Description	1	2	3	4	5	6	7	8
N1:T4:M11-126	HEAT	HEAT	1:M11-126 FLR 1W TOILET 1-SS220		X	X	X	X	X		ON
N1:T4:M11-127	PHOTO	VSMOKE	1:M11-127 FLR 1W COMM 1-SS216	X	X	X	X	X	X		ON
N1:T4:M11-128	PHOTO	LSDUCT	1:M11-128 ROOF RTU-3 SUP DET TO DDC							X	ON
N1:T4:M11-129	PHOTO	LSDUCT	1:M11-129 ROOF RTU-3 RET DET TO DDC	X						X	ON
N1:T4:M11-130	RIAM	RELAY	1:M11-130 ROOF RTU-3 SUPPLY TO DDC		X					X	ON
N1:T4:M11-131	RIAM	RELAY	1:M11-131 ROOF RTU-3 RETURN TO DDC	X	X					X	ON
N1:T4:M11-132	RIAM	RELAY	1:M11-132 FLR 1W ALARM TO DDC AHU-3			X				X	ON
N1:T4:M11-133	RIAM	RELAY	1:M11-133 FLR 1W SUPV FSD TO DDC AHU-3	X		X				X	ON
N1:T4:M11-134	RIAM	RELAY	1:M11-134 FLR 1W RET FSD TO DDC AHU-3		X	X				X	ON
N1:T4:M11-135	RIAM	RRELAY	1:M11-135 FL 1W PACU BY HALL SEC RELEASE	X	X	X				X	ON
N1:T4:M11-136			SPARE				X			X	ON
N1:T4:M11-137	PHOTO	VSMOKE	1:M11-137 FLR 1 1W CHANGING AREA 7200A	X			X			X	ON
N1:T4:M11-138	PHOTO	VSMOKE	1:M11-138 FLR 1W BREAK RM 7302A		X		X			X	ON
N1:T4:M11-139	PHOTO	VSMOKE	1:M11-139 FLR 1W O/S RADIOLOGY 05 7202A	X	X		X			X	ON
N1:T4:M11-140	PHOTO	VSMOKE	1:M11-140 FLR1 1W STAFF HALL 7203A E			X	X			X	ON
N1:T4:M11-141	PHOTO	VSMOKE	1:M11-141 FLR 1W STAFF HALL 7203A W	X		X	X			X	ON
N1:T4:M11-142	PHOTO	VSMOKE	1:M11-142 FLR 1W TECH WORK AREA 7204A		X	X	X			X	ON
N1:T4:M11-143	PHOTO	VSMOKE	1:M11-143 FLR 1W EQUIPMENT RM 7203B	X	X	X	X			X	ON
N1:T4:M11-144	PHOTO	VSMOKE	1:M11-144 FLR 1W CONTROL AREA 7402B					X		X	ON
N1:T4:M11-145	PHOTO	VSMOKE	1:M11-145 FLR 1W PATIENT HOLDING 7402D	X				X		X	ON
N1:T4:M11-146	PHOTO	VSMOKE	1:M11-146 FLR1 1W CONTROL AREA 7402B S		X			X		X	ON
N1:T4:M11-147	IAM	SMOKE	1:M11-147 FLR 1W MRI 2 7402A HW SMKDET	X	X			X		X	ON
N1:T4:M11-148			SPARE			X		X		X	ON
N1:T4:M11-149			SPARE	X		X		X		X	ON
N1:T4:M11-150	IAM	SDUCT	1:M11-150 FLR 1W CRAC1 INTERGRAL SMK DET		X	X		X		X	ON
N1:T4:M11-151	PHOTO	VSMOKE	1:M11-151 FLR 1W EQUIP RM 1W-8902A	X	X	X		X		X	ON
N1:T4:M11-152	PHOTO	VSMOKE	1:M11-152 FLR1 IR RM 03 1W-8113A N				X	X		X	ON
N1:T4:M11-153	PHOTO	VSMOKE	1:M11-153 FLR1 IR RM 03 1W-8113A S	X			X	X		X	ON
N1:T4:M11-154	PHOTO	VSMOKE	1:M11-154 FLR 1W CONTROL RM 1W-8112A		X		X	X		X	ON
N1:T4:M11-155	RIAM	RELAY	1:M11-155 FLR 1W IR RM 03 MUSIC SHUT-OFF	X	X		X	X		X	ON
N1:T4:M11-156	IAM	LSDUCT	1:M11-156FLR 1W MRI2 7402A CRAC UNIT SMK			X	X	X		X	ON
N1:T4:M11-157			SPARE	X		X	X	X		X	ON
N1:T4:M11-158	PHOTO	VSMOKE	1:M11-158 FLR 1W RADIOLOGY 05 7202A		X	X	X	X		X	ON
N1:T4:M11-159	PHOTO	VSMOKE	1:M11-159 FLR 1W CT SUITE 5300A	X	X	X	X	X		X	ON
N1:T4:M11-160	PHOTO	VSMOKE	1:M11-160 FLR 1W CT 01 5303A					X		X	ON
N1:T4:M11-161	PHOTO	VSMOKE	1:M11-161 FLR 1W CT 02 CONTROL 5301A	X				X		X	ON
N1:T4:M11-162	PHOTO	VSMOKE	1:M11-162 FLR 1W NUC/SPINE ROOM 1 6307A		X			X		X	ON
N1:T4:M11-163			SPARE	X	X			X		X	ON
N1:T4:M11-164			SPARE			X		X		X	ON
N1:T4:M11-165	PHOTO	VSMOKE	1:M11-165 FLR 1W CORRIDOR 1008 SW DOORS	X		X		X		X	ON
N1:T4:M11-166	PHOTO	VSMOKE	1:M11-166 FLR 1W CORRIDOR 1008 C		X	X		X		X	ON
N1:

MEDICAL CENTER OF AURORA SOUTH TOWER TRANSPONDER 4 - EPS-1 CIRCUIT SUMMARY & VOLTAGE DROP							
Channel	Description	Alarm Current	% Drop	Unit Load'	Wire Length	Spare Current	Spare Voltage/Drop
N1:T4:A2:1	*FLR 1W OR 11, STERILE STG*	*2.241A*	*5.80%*	*36*	*795*	*25%*	*72%*
N1:T4:A2:2	**FLR 1W OR 1-4, PACU CORR**	**1.346A**	**3.24%**	**23**	**690**	**55%**	**84%**
N1:T4:A2:3	*FLR 1W OR RECOVERY*	*2.008A*	*4.45%*	*30*	*849*	*33%*	*78%*
EPR2	*FLR 1W MRI AREA BREAK RM 7300A*	*2.802A*	*4.97%*	*39*	*864*	*7%*	*76%*
EPR1	*PACU RECOVERY*	*1.071A*	*2.53%*	*16*	*305*	*64%*	*88%*

N1:T4:A2: ENHANCED POWER SUPPLY - CHANNEL 1

IDNac Address	Device Type	PID	Setting	Custom Label (Max 40 Characters)	SWITCH SETTINGS 1	2	3	4	5	6	7	8	
N1:T4:A2:1-1	*VO*	*49VO-WRF*	*15cd*	*FLR 1W ELEC 1-CS16 T4:A2:1-1*	X								ON
N1:T4:A2:1-2	*AV*	*49MTV-WRF*	*15cd*	*FLR 1W CORR 1-CS14 T4:A2:1-2*		X							ON
N1:T4:A2:1-3	*VO*	*49VO-WRF*	*15cd*	*FLR 1W TOILET 1-CS15 T4:A2:1-3*	X	X							ON
N1:T4:A2:1-4	*AV*	*49MTV-WRF*	*15cd*	*FLR 1W CORR 1-CS14 T4:A2:1-4*			X						ON
N1:T4:A2:1-5	*AO*	*49MT-WRF*	*520 Hz*	*FLR 1W CASE CARTS 1-CS11 T4:A2:1-5*	X		X						ON
N1:T4:A2:1-6	*STRB*	*4906-9202*	*75cd*	*FLR 1W STERILE STG 1-CS1 T4:A2:1-6*		X	X						ON
N1:T4:A2:1-7	*VO*	*49VO-APPLW*	*30cd*	*FLR 1W OR 11 1-SS100 T4:A2:1-7*	X	X	X						ON
N1:T4:A2:1-8	*REPEATER*	*4009-9601*		*FLR 1W BREAK RM 7300A T4:A2:1-8*				X					ON
N1:T4:A2:1-9	*AV*	*49MTV-WRF*	*75cd*	*FLR 1W MAKE UP 1-CS7 T4:A2:1-9*	X			X					ON
N1:T4:A2:1-10	*AV*	*49MTV-WRF*	*75cd*	*FLR 1W MAKE UP 1CS7 T4:A2:1-10*		X		X					ON
N1:T4:A2:1-11	*VO*	*49VO-WRF*	*15cd*	*FLR 1W WAKE UP 1-CS07 T4:A2:1-11*	X	X		X					ON
N1:T4:A2:1-12	*VO*	*49VO-WRF*	*30cd*	*FLR 1W STERILIZER 1-CS08 T4:A2:1-12*			X	X					ON
N1:T4:A2:1-13	*VO*	*49VO-WRF*	*30cd*	*FLR 1W CLEAN STORAGE 1-CS06 T4:A2:1-13*	X		X	X					ON
N1:T4:A2:1-14	*AV*	*49MTV-WRF*	*30cd*	*FLR 1W DECON 1-CS03 T4:A2:1-14*		X	X	X					ON
N1:T4:A2:1-15	*AV*	*49MTV-WRF*	*75cd*	*FLR 1W CART WASH 1-CS04 T4:A2:1-15*	X	X	X	X					ON
N1:T4:A2:1-16	*STRB*	*4906-9202*	*15cd*	*FLR 1W DI WATER 1-CS09 T4:A2:1-16*					X				ON
N1:T4:A2:1-17	*VO*	*49VO-WRF*	*15cd*	*FLR 1W SURGERY VEN 1-CS01 T4:A2:1-17*	X				X				ON
N1:T4:A2:1-18	*VO*	*49VO-WRF*	*15cd*	*FLR 1W CLEAN STORAGE 1-CS05 T4:A2:1-18*		X			X				ON
N1:T4:A2:1-19	*AO*	*49MT-WRF*	*520 Hz*	*FLR 1W STERILE STG 1-CSG1 T4:A2:1-19*	X	X			X				ON
N1:T4:A2:1-20	*STRB*	*4906-9202*	*15cd*	*FLR 1W STERILE STG 1-CSG1 T4:A2:1-20*			X		X				ON
N1:T4:A2:1-21	*STRB*	*4906-9202*	*15cd*	*FLR 1W STERILE STG 1-CSG1 T4:A2:1-21*	X		X		X				ON
N1:T4:A2:1-22	*STRB*	*4906-9202*	*15cd*	*FLR 1W STERILE STG 1-CSG1 T4:A2:1-22*		X	X		X				ON
N1:T4:A2:1-23	*STRB*	*4906-9202*	*15cd*	*FLR 1W STERILE STG 1-CSG1 T4:A2:1-23*	X	X	X		X				ON
N1:T4:A2:1-24	*STRB*	*4906-9202*	*15cd*	*FLR 1W STERILE STG 1-CSG1 T4:A2:1-24*				X	X				ON
N1:T4:A2:1-25	*VO*	*49VO-APPLW*	*15cd*	*FLR 1W RADL03 CHANG AREA T4:A2:1-25*	X			X	X				ON
N1:T4:A2:1-26	*AV*	*49MTV-WRF*	*30cd*	*FLR 1W BREAK RM 7300A T4:A2:1-26*		X		X	X				ON
N1:T4:A2:1-27	*VO*	*49VO-APPLC*	*15cd*	*FLR 1W CHANGING AREA 7200A T4:A2:1-27*	X	X		X	X				ON
N1:T4:A2:1-28	*VO*	*49VO-APPLC*	*15cd*	*FLR 1W O/S RAD. 05 7202A T4:A2:1-28*			X	X	X				ON
N1:T4:A2:1-29	*AV*	*49MTV-WRF*	*15cd*	*FLR 1W STAFF HALL 7203A T4:A2:1-29*	X		X	X	X				ON
N1:T4:A2:1-30	*AV*	*49MTV-WRF*	*15cd*	*FLR 1W EQUIP RM 7203B T4:A2:1-30*		X	X	X	X				ON
N1:T4:A2:1-31	*VO*	*49VO-APPLC*	*15cd*	*FLR 1W TECH WORK AREA 7204A T4:A2:1-31*	X	X	X	X	X				ON
N1:T4:A2:1-32	*AV*	*49MTV-WRF*	*15cd*	*FLR 1W CONTROL AREA 7402B T4:A2:1-32*						X			ON
N1:T4:A2:1-33	*VO*	*49VO-APPLC*	*15cd*	*FLR 1W TLT 7402C T4:A2:1-33*	X					X			ON
N1:T4:A2:1-34	*VO*	*49VO-APPLC*	*15cd*	*FLR 1W PAT HOLDING 7402C T4:A2:1-34*		X				X			ON
N1:T4:A2:1-35	*AV*	*49MTV-WRF*	*15cd*	*FLR 1W CONTROL AREA 7402B S T4:A2:1-35*	X	X				X			ON
N1:T4:A2:1-36	*VO*	*49VO-APPLC*	*15cd*	*FLR 1W CHANGING RM 7402E T4:A2:1-36*			X			X			ON
N1:T4:A2:1-37	*VO*	*49VO-APPLC*	*15cd*	*FLR 1W STAFF TLT 7404A T4:A2:1-37*	X		X			X			ON
N1:T4:A2:1-38	*AV*	*49MTV-WRF*	*15cd*	*FLR 1W EQUIP RM 1W-8902A T4:A2:1-38*		X	X			X			ON
N1:T4:A2:1-39	*VO*	*49VO-APPLC*	*30cd*	*FLR 1W IR RM 03 1W-8113A N T4:A2:1-39*	X	X	X			X			ON
N1:T4:A2:1-40	*VO*	*49VO-APPLC*	*30cd*	*FLR 1W IR RM 03 1W-8113A S T4:A2:1-40*				X		X			ON
N1:T4:A2:1-41	*AV*	*49MTV-WRF*	*15cd*	*FLR 1W CONTROL RM 1W-8112A T4:A2:1-41*	X			X		X			ON
N1:T4:A2:1-42	*VO*	*49VO-APPLC*	*15cd*	*FLR 1W RAD RM 5 7202A T4:A2:1-42*		X		X		X			ON
N1:T4:A2:1-43	*VO*	*49VO-WRF*	*15cd*	*FLR 1W BATH 7201A T4:A2:1-43*	X	X		X		X			ON
N1:T4:A2:1-44	*VO*	*49VO-WRF*	*15cd*	*FLR 1W TLT 5305A 1-44*			X	X		X			ON
N1:T4:A2:1-45	*AV*	*49MTV-WRF*	*30cd*	*FLR 1W CT SUITE 5300A 1-45*	X		X	X		X			ON
N1:T4:A2:1-46	*VO*	*49VO-APPLC*	*75cd*	*FLR 1W CT 01 5303A 1-46*		X	X	X		X			ON
N1:T4:A2:1-47	*VO*	*49VO-APPLC*	*15cd*	*FLR 1W CT 01 5303A CONTROL 1-47*	X	X	X	X		X			ON
N1:T4:A2:1-48	*VO*	*49VO-APPLC*	*75cd*	*FLR 1W CT 02 5302A 1-48*					X	X			ON
N1:T4:A2:1-49	*VO*	*49VO-APPLC*	*15cd*	*FLR 1W CONTROL 5302A 1-49*	X				X	X			ON
N1:T4:A2:1-50	*AV*	*49MTV-WRF*	*15cd*	*FLR 1W NUC/SPINE ROOM 1 6307A 1-50*		X			X	X			ON
N1:T4:A2:1-51	*AV*	*49MTV-WRF*	*15cd*	*FLR 1W CORRIDOR 1008 W T4:A2:1-51*	X	X			X	X			ON
N1:T4:A2:1-52	*AV*	*49MTV-WRF*	*15cd*	*FLR 1W CORRIDOR 1008 E T4:A2:1-52*			X		X	X			ON
N1:T4:A2:1-53	*VO*	*49VO-APPLC*	*15cd*	*FLR 1W IR STORAGE 1004 T4:A2:1-53*	X		X	X	X				ON

N1:T4:A2: ENHANCED POWER SUPPLY - CHANNEL 2

IDNac Address	Device Type	PID	Setting	Custom Label (Max 40 Characters)	SWITCH SETTINGS 1	2	3	4	5	6	7	8	
N1:T4:A2:2-1	*AV*	*49MTV-WRF*	*15cd*	*FLR 1W EQ STG 1-SS131 1:A2:2-1*	X								ON
N1:T4:A2:2-2	*VO*	*49VO-APPLW*	*75cd*	*FLR 1W CYSTO OR 3 1-SS129 1:A2:2-2*		X							ON
N1:T4:A2:2-3	*VO*	*49VO-APPLW*	*30cd*	*FLR 1W OR 2 1-SS119 1:A2:2-3*	X	X							ON
N1:T4:A2:2-4	*VO*	*49VO-APPLW*	*30cd*	*FLR 1W OR 1 1-SS118 1:A2:2-4*		X							ON
N1:T4:A2:2-5	*AV*	*49MTV-WRF*	*15cd*	*FLR 1W WOMENS LCKR RM 1-SS135 1:A2:2-5*	X		X						ON
N1:T4:A2:2-6	*VO*	*49VO-WRF*	*15cd*	*FLR 1W WOMENS LCKR RM 1-SS135 1:A2:2-6*		X	X						ON
N1:T4:A2:2-7	*VO*	*49VO-WRF*	*15cd*	*FLR 1W WOMENS BATH 1-SS136 1:A2:2-7*	X	X	X						ON
N1:T4:A2:2-8	*AV*	*49MTV-WRF*	*30cd*	*FLR 1W MENS LCKR RM 1-SS138 1:A2:2-8*				X					ON
N1:T4:A2:2-9	*VO*	*49VO-WRF*	*15cd*	*FLR 1W MENS LCKR RM 1-SS138 1:A2:2-9*	X			X					ON
N1:T4:A2:2-10	*AV*	*49MTV-WRF*	*75cd*	*FLR 1W NURSE LOUNGE 1-SS139 1:A2:2-10*		X		X					ON
N1:T4:A2:2-11	*AV*	*49MTV-WRF*	*15cd*	*SPARE*	X	X		X					ON
N1:T4:A2:2-12	*AV*	*49MTV-WRF*	*15cd*	*FLR 1W CORR 1-SS029 @OR 1:1:A2:2-12*			X	X					ON
N1:T4:A2:2-13	*VO*	*49VO-WRF*	*15cd*	*FLR 1W CORR 1-SS029 @OR 1:1:A2:2-13*	X		X	X					ON
N1:T4:A2:2-14				*SPARE*		X	X	X					ON
N1:T4:A2:2-15				*SPARE*	X	X	X	X					ON
N1:T4:A2:2-16	*REPEATER*	*4009-9601*		*FLR 1W ELEC 1-PA05 1:A2:2-16*					X				ON
N1:T4:A2:2-17	*VO*	*49VO-WRF*	*15cd*	*FLR 1W ELEC 1-PA05 1:A2:2-17*					X				ON
N1:T4:A2:2-18	*AV*	*49MTV-WRF*	*15cd*	*FLR 1W PASS 1-PA06 1:A2:2-18*		X			X				ON
N1:T4:A2:2-19	*VO*	*49VO-WRF*	*15cd*	*FLR 1W SOIL UTILITY 1-PA08 1:A2:2-19*	X	X			X				ON
N1:T4:A2:2-20	*VO*	*49VO-WRF*	*15cd*	*FLR 1W PACU RECOVERY 1-PA01 1:A2:2-20*			X		X				ON
N1:T4:A2:2-21	*AV*	*49MTV-WRF*	*30cd*	*FLR 1W NURSE STAT A 1-PA10 1:A2:2-21*	X		X		X				ON
N1:T4:A2:2-22	*AV*	*49MTV-WRF*	*15cd*	*FLR 1W PASS 1-PA11 1:A2:2-27*		X	X		X				ON
N1:T4:A2:2-23	*VO*	*49VO-WRF*	*15cd*	*FLR 1W CNC OFF 1-PA09 1:A2:2-28*	X	X	X		X				ON
N1:T4:A2:2-24	*AV*	*49MTV-WRF*	*30cd*	*FLR 1W CL UTILITY 1-PA07 1:A2:2-29*					X	X			ON
N1:T4:A2:2-25	*VO*	*49VO-WRF*	*30cd*	*FLR 1W PASS 1-PA12 1:A2:2-30*	X				X	X			ON
N1:T4:A2:2-26	*AV*	*49MTV-WRF*	*30cd*	*FLR 1W STAFF LOUNGE 1-PA14 1:A2:2-31*		X			X	X			ON
N1:T4:A2:2-27	*VO*	*49VO-WRF*	*15cd*	*FLR 1W TLT 1-PA15 1:A2:2-32*	X	X			X	X			ON
N1:T4:A2:2-28				**SPARE**				X	X	X			ON
N1:T4:A2:2-29				*SPARE*	X			X	X	X			ON
N1:T4:A2:2-30				*SPARE*		X	X	X	X	X			ON
N1:T4:A2:2-31				*SPARE*	X	X	X	X	X				ON

N1:T4:A2: ENHANCED POWER SUPPLY - CHANNEL 3

IDNac Address	Device Type	PID	Setting	Custom Label (Max 40 Characters)	SWITCH SETTINGS 1	2	3	4	5	6	7	8	
N1:T4:A2:3-1				*SPARE*	X								ON
N1:T4:A2:3-2				*SPARE*		X							ON
N1:T4:A2:3-3	*VO*	*49VO-WRF*	*15cd*	*FLR 1W COMM 1-SS216 1:A2:2-31*	X	X							ON
N1:T4:A2:3-4	*AV*	*49MTV-WRF*	*30cd*	*FLR 1W NURSE LOUNGE 1-SS217 1:A2:2-32*			X						ON
N1:T4:A2:3-5	*VO*	*49VO-WRF*	*15cd*	*FLR 1W TLT 1-SS22 1:A2:2-33*	X		X						ON
N1:T4:A2:3-6	*VO*	*49VO-WRF*	*15cd*	*FLR 1W TLT 1-SS218 1:A2:2-34*		X	X						ON
N1:T4:A2:3-7	*VO*	*49VO-WRF*	*15cd*	*FLR 1W TLT 1-SS219 1:A2:2-35*	X	X	X						ON
N1:T4:A2:3-8	*VO*	*49VO-WRF*	*75cd*	*FLR 1W PASS 1-SS224 1:A2:2-36*						X			ON
N1:T4:A2:3-9	*AV*	*49MTV-WRF*	*75cd*	*FLR 1W NURSE STAT C 1-SS223 1:A2:2-37*	X					X			ON
N1:T4:A2:3-10				*SPARE*		X		X					ON
N1:T4:A2:3-11				*SPARE*	X	X		X					ON
N1:T4:A2:3-12	*VO*	*49VO-WRF*	*15cd*	*FLR 1W PASS. 1-SS24 1:A2:3-12*		X	X	X					ON
N1:T4:A2:3-13	*VO*	*49VO-WRF*	*15cd*	*FLR 1W STORE RM 1-SS21 1:A2:3-13*	X		X	X					ON
N1:T4:A2:3-14	*AV*	*49MTV-WRF*	*30cd*	*FLR 1W PASS. 1-SS204 1:A2:3-14*		X	X	X					ON
N1:T4:A2:3-15	*VO*	*49VO-WRF*	*15cd*	*FLR 1W TLT 1-SS203 1:A2:3-15*	X	X	X	X					ON
N1:T4:A2:3-16	*VO*	*49VO-WRF*	*30cd*	*FLR 1W PASS 1-SS212 1:A2:3-16*						X			ON
N1:T4:A2:3-17	*VO*	*49VO-WRF*	*15cd*	*FLR 1W PASS. 1-SS204 1:A2:3-17*	X			X		X			ON
N1:T4:A2:3-18	*AV*	*49MTV-WRF*	*15cd*	*FLR 1W PASS. 1-SS205 1:A2:3-18*		X				X			ON
N1:T4:A2:3-19	*AV*	*49MTV-WRF*	*30cd*	*FLR 1W WK. RM 1-SS215 1:A2:3-19*	X	X		X		X			ON
N1:T4:A2:3-20	*VO*	*49VO-WRF*	*15cd*	*FLR 1W LN. UTIL. 1-SS214 1:A2:3-2*		X		X		X			ON
N1:T4:A2:3-21	*VO*	*49VO-WRF*	*15cd*	*FLR 1W SOIL UTIL. 1-SS206 1:A2:3-21*	X	X		X		X			ON
N1:T4:A2:3-22	*VO*	*49VO-WRF*	*15cd*	*FLR 1W MEDS 1-SS207 1:A2:3-22*		X	X			X			ON
N1:T4:A2:3-23	*AV*	*49MTV-WRF*	*75cd*	*FLR 1W SECTY 1-SS211 1:A2:3-23*	X	X	X			X			ON
N1:T4:A2:3-24	*VO*	*49VO-WRF*	*15cd*	*FLR 1W TLT 1-SS206 1:A2:3-24*					X	X			ON
N1:T4:A2:3-25	*AV*	*49MTV-WRF*	*30cd*	*FLR 1W PASS 1-SS212 1:A2:3-26*	X				X	X			ON
N1:T4:A2:3-26	*VO*	*49VO-WRF*	*15cd*	*FLR 1W TLT 1-SS221 1:A2:3-26*		X			X	X			ON
N1:T4:A2:3-27	*VO*	*49VO-WRF*	*15cd*	*FLR 1W NOUR 1-SS222 1:A2:3-27*	X	X			X	X			ON

N1:T4:A2:1 — **Notification SLC Distributed Load Voltage Drop**

Starting Voltage: 29vdc
Min. Device Voltage: 23.vdc
Allowable % Drop: 20.7%

Primary Wire Gauge: 14ga
Home Run Wire Gauge: 14ga

Wire Res. Per Ft. 0.003070 @ 75° Celsius
Wire Res. Per Ft. 0.003070 @ 75° Celsius

Branch	Device #	From	Distance (Feet)	PID	Setting	Device Draw	Class B Calculations Current at Device	Voltage Drop	Voltage at Device	% Vdrop Wire Length
1	*N1:T4:A2:1-1*	*PANEL*	*15*	*49VO-WRF*	*15cd*	*0.0470*	*1.059*	*0.098*	*28.902*	*Branch 1: 5.8%*
1	*N1:T4:A2:1-2*	*N1:T4:A2:1-1*	*25*	*49MTV-WRF*	*15cd*	*0.1450*	*0.955*	*0.147*	*28.756*	*Length: 795*
1	*N1:T4:A2:1-3*	*N1:T4:A2:1-2*	*22*	*49VO-WRF*	*15cd*	*0.0470*	*0.047*	*0.006*	*28.750*	
1	*N1:T4:A2:1-4*	*N1:T4:A2:1-2*	*51*	*49MTV-WRF*	*15cd*	*0.1450*	*0.145*	*0.045*	*28.710*	
1	*TAP9*	*N1:T4:A2:1-2*	*18*	*JBOX*		*0.0000*	*0.618*	*0.068*	*28.688*	
1	*N1:T4:A2:1-5*	*TAP9*	*18*	*49MT-WRF*	*520 Hz*	*0.0990*	*0.339*	*0.037*	*28.650*	
1	*N1:T4:A2:1-6*	*N1:T4:A2:1-5*	*45*	*4906-9202*	*75cd*	*0.1800*	*0.180*	*0.050*	*28.600*	
1	*N1:T4:A2:1-7*	*N1:T4:A2:1-1*	*48*	*49VO-APPLW*	*30cd*	*0.0570*	*0.057*	*0.017*	*28.886*	
1	*N1:T4:A2:1-8*	*N1:T4:A2:1-25*	*89*	*4009-9601*		*0.0032*	*1.122*	*0.613*	*27.774*	
1	*N1:T4:A2:1-9*	*N1:T4:A2:1-8*	*18*	*49MTV-WRF*	*75cd*	*0.1980*	*1.119*	*0.124*	*27.650*	
1	*N1:T4:A2:1-10*	*N1:T4:A2:1-9*	*56*	*49MTV-WRF*	*75cd*	*0.1980*	*0.245*	*0.084*	*27.566*	
1	*TAP10*	*N1:T4:A2:1-9*	*29*	*JBOX*		*0.0000*	*0.676*	*0.120*	*27.530*	
1	*N1:T4:A2:1-11*	*TAP10*	*17*	*49VO-WRF*	*15cd*	*0.0470*	*0.104*	*0.011*	*27.519*	
1	*N1:T4:A2:1-12*	*TAP10*	*15*	*49VO-WRF*	*30cd*	*0.0570*	*0.057*	*0.005*	*27.525*	
1	*N1:T4:A2:1-13*	*N1:T4:A2:1-11*	*17*	*49VO-WRF*	*30cd*	*0.0570*	*0.057*	*0.006*	*27.513*	
1	*N1:T4:A2:1-14*	*TAP10*	*51*	*49MTV-WRF*	*30cd*	*0.1630*	*0.515*	*0.161*	*27.369*	
1	*TAP11*	*N1:T4:A2:1-14*	*10*	*JBOX*		*0.0000*	*0.305*	*0.019*	*27.350*	
1	*N1:T4:A2:1-15*	*TAP11*	*27*	*49MTV-WRF*	*75cd*	*0.1980*	*0.198*	*0.033*	*27.317*	
1	*N1:T4:A2:1-16*	*TAP11*	*26*	*4906-9202*	*15cd*	*0.0600*	*0.060*	*0.010*	*27.340*	
1	*N1:T4:A2:1-17*	*TAP11*	*20*	*49VO-WRF*	*15cd*	*0.0470*	*0.047*	*0.008*	*27.344*	
1	*N1:T4:A2:1-18*	*N1:T4:A2:1-14*	*28*	*49VO-WRF*	*15cd*	*0.0470*	*0.047*	*0.008*	*27.361*	
1	*N1:T4:A2:1-19*	*TAP9*	*10*	*49MT-WRF*	*520 Hz*	*0.0990*	*0.279*	*0.017*	*28.670*	
1	*N1:T4:A2:1-20*	*N1:T4:A2:1-24*	*39*	*4906-9202*	*15cd*	*0.0600*	*0.060*	*0.014*	*28.649*	
1	*N1:T4:A2:1-21*	*N1:T4:A2:1-5*	*2*	*4906-9202*	*15cd*	*0.0600*	*0.060*	*0.001*	*28.649*	
1	*N1:T4:A2:1-22*	*N1:T4:A2:1-19*	*2*	*4906-9202*	*15cd*	*0.0600*	*0.180*	*0.002*	*28.668*	
1	*N1:T4:A2:1-23*	*N1:T4:A2:1-22*	*2*	*4906-9202*	*15cd*	*0.0600*	*0.120*	*0.001*	*28.667*	
1	*N1:T4:A2:1-24*	*N1:T4:A2:1-23*	*10*	*4906-9202*	*15cd*	*0.0600*	*0.060*	*0.004*	*28.663*	
1	*N1:T4:A2:1-25*	*N1:T4:A2:1-10*	*85*	*49VO-APPLW*	*15cd*	*0.0470*	*0.047*	*0.025*	*27.542*	
E2:1	*N1:T4:A2:1-26*	*EPR2*	*26*	*49MTV-WRF*	*30cd*	*0.1630*	*2.802*	*0.447*	*28.553*	*Branch E2:1: 4.97%*
E2:1	*N1:T4:A2:1-27*	*N1:T4:A2:1-26*	*28*	*49VO-APPLC*	*15cd*	*0.0550*	*2.639*	*0.454*	*28.099*	*Length: 415*
E2:1	*N1:T4:A2:1-28*	*N1:T4:A2:1-27*	*21*	*49VO-APPLC*	*15cd*	*0.0550*	*2.584*	*0.333*	*27.766*	
E2:1	*N1:T4:A2:1-29*	*N1:T4:A2:1-28*	*29*	*49MTV-WRF*	*15cd*	*0.1450*	*0.345*	*0.061*	*27.704*	
E2:1	*N1:T4:A2:1-30*	*N1:T4:A2:1-29*	*18*	*49MTV-WRF*	*15cd*	*0.1450*	*0.200*	*0.022*	*27.682*	
E2:1	*N1:T4:A2:1-31*	*N1:T4:A2:1-30*	*31*	*49VO-APPLC*	*15cd*	*0.0550*	*0.055*	*0.010*	*27.672*	
E2:1	*N1:T4:A2:1-32*	*N1:T4:A2:1-28*	*22*	*49MTV-WRF*	*15cd*	*0.1450*	*0.966*	*0.130*	*27.635*	
E2:1	*N1:T4:A2:1-33*	*N1:T4:A2:1-32*	*24*	*49VO-APPLC*	*15cd*	*0.0550*	*0.821*	*0.121*	*27.514*	
E2:1	*N1:T4:A2:1-34*	*N1:T4:A2:1-33*	*19*	*49VO-APPLC*	*15cd*	*0.0550*	*0.766*	*0.089*	*27.425*	
E2:1	*N1:T4:A2:1-35*	*N1:T4:A2:1-34*	*25*	*49MTV-WRF*	*15cd*	*0.1450*	*0.711*	*0.109*	*27.316*	
E2:1	*N1:T4:A2:1-36*	*N1:T4:A2:1-35*	*27*	*49VO-APPLC*	*15cd*	*0.0550*	*0.566*	*0.094*	*27.222*	
E2:1	*N1:T4:A2:1-37*	*N1:T4:A2:1-36*	*21*	*49VO-APPLC*	*15cd*	*0.0550*	*0.511*	*0.066*	*27.156*	
E2:1	*N1:T4:A2:1-38*	*N1:T4:A2:1-37*	*34*	*49MTV-WRF*	*15cd*	*0.1450*	*0.456*	*0.095*	*27.061*	
E2:1	*N1:T4:A2:1-39*	*N1:T4:A2:1-38*	*21*	*49VO-APPLC*	*30cd*	*0.0830*	*0.311*	*0.040*	*27.021*	
E2:1	*N1:T4:A2:1-40*	*N1:T4:A2:1-39*	*47*	*49VO-APPLC*	*30cd*	*0.0830*	*0.083*	*0.024*	*26.997*	
E2:1	*N1:T4:A2:1-41*	*N1:T4:A2:1-39*	*22*	*49MTV-WRF*	*15cd*	*0.1450*	*0.145*	*0.020*	*27.001*	
E2:1	*N1:T4:A2:1-42*	*N1:T4:A2:1-28*	*21*	*49VO-APPLC*	*15cd*	*0.0550*	*1.218*	*0.157*	*27.609*	
E2:1	*N1:T4:A2:1-43*	*N1:T4:A2:1-42*	*21*	*49VO-WRF*	*15cd*	*0.0470*	*1.163*	*0.150*	*27.459*	
E2:1	*N1:T4:A2:1-44*	*N1:T4:A2:1-43*	*27*	*49VO-WRF*	*15cd*	*0.0470*	*1.116*	*0.185*	*27.274*	
E2:1	*N1:T4:A2:1-45*	*N1:T4:A2:1-44*	*19*	*49MTV-WRF*	*30cd*	*0.1630*	*0.724*	*0.084*	*27.189*	
E2:1	*N1:T4:A2:1-46*	*N1:T4:A2:1-45*	*40*	*49VO-APPLC*	*75cd*	*0.1530*	*0.153*	*0.038*	*27.152*	
E2:1	*N1:T4:A2:1-47*	*N1:T4:A2:1-45*	*35*	*49VO-APPLC*	*15cd*	*0.0550*	*0.208*	*0.045*	*27.145*	
E2:1	*N1:T4:A2:1-48*	*N1:T4:A2:1-47*	*24*	*49VO-APPLC*	*75cd*	*0.1530*	*0.153*	*0.023*	*27.122*	
E2:1	*N1:T4:A2:1-49*	*N1:T4:A2:1-45*	*33*	*49VO-APPLC*	*15cd*	*0.0550*	*0.200*	*0.041*	*27.149*	
E2:1	*N1:T4:A2:1-50*	*N1:T4:A2:1-49*	*75*	*49MTV-WRF*	*15cd*	*0.1450*	*0.145*	*0.067*	*27.082*	
E2:1	*N1:T4:A2:1-51*	*N1:T4:A2:1-44*	*65*	*49MTV-WRF*	*15cd*	*0.1450*	*0.345*	*0.138*	*27.136*	
E2:1	*N1:T4:A2:1-52*	*N1:T4:A2:1-51*	*66*	*49MTV-WRF*	*15cd*	*0.1450*	*0.200*	*0.081*	*27.055*	
E2:1	*N1:T4:A2:1-53*	*N1:T4:A2:1-52*	*23*	*49VO-APPLC*	*15cd*	*0.0550*	*0.055*	*0.008*	*27.047*	

N1:T4:A2:2 — **Distributed Load Voltage Drop**

Starting Voltage: 29vdc
Min. Device Voltage: 23.vdc
Allowable % Drop: 20.7%

Primary Wire Gauge: 14ga
Home Run Wire Gauge: 14ga

Wire Res. Per Ft. 0.003070 @ 75° Celsius
Wire Res. Per Ft. 0.003070 @ 75° Celsius

Branch	Device #	From	Distance (Feet)	PID	Setting	Device Draw	Class B Calculations Current at Device	Voltage Drop	Voltage at Device	% Vdrop Wire Length
1	*TAP12*	*PANEL*	*105*	*JBOX*		*0.0000*	*0.198*	*0.772*	*28.228*	*Branch 1: 2.24%*
1	*N1:T4:A2:2-11*	*TAP12*	*18*	*49MTV-WRF*	*15cd*	*0.1450*	*0.145*	*0.016*	*28.212*	*Length: 458*
1	*N1:T4:A2:2-1*	*TAP12*	*33*	*49MTV-WRF*	*15cd*	*0.1450*	*0.359*	*0.073*	*28.155*	
1	*N1:T4:A2:2-2*	*N1:T4:A2:2-1*	*31*	*49VO-APPLW*	*75cd*	*0.1000*	*0.214*	*0.041*	*28.114*	
1	*N1:T4:A2:2-3*	*N1:T4:A2:2-2*	*45*	*49VO-APPLW*	*30cd*	*0.0570*	*0.114*	*0.031*	*28.083*	
1	*N1:T4:A2:2-12*	*N1:T4:A2:2-13*	*27*	*49MTV-WRF*	*15cd*	*0.1450*	*0.145*	*0.024*	*28.200*	
1	*N1:T4:A2:2-4*	*N1:T4:A2:2-3*	*37*	*49VO-APPLW*	*30cd*	*0.0570*	*0.057*	*0.013*	*28.070*	
1	*N1:T4:A2:2-14*	*N1:T4:A2:2-4*	*16*			*0.0000*	*0.000*	*0.000*	*28.070*	
1	*N1:T4:A2:2-13*	*TAP12*	*11*	*49VO-WRF*	*15cd*	*0.0470*	*0.047*	*0.003*	*28.224*	
1	*N1:T4:A2:2-5*	*TAP12*	*19*	*49MTV-WRF*	*15cd*	*0.1450*	*0.647*	*0.075*	*28.152*	
1	*TAP13*	*N1:T4:A2:2-5*	*11*	*JBOX*		*0.0000*	*0.502*	*0.034*	*28.118*	
1	*N1:T4:A2:2-6*	*TAP13*	*19*	*49VO-WRF*	*15cd*	*0.0470*	*0.292*	*0.034*	*28.084*	
1	*N1:T4:A2:2-7*	*N1:T4:A2:2-6*	*25*	*49VO-WRF*	*15cd*	*0.0470*	*0.047*	*0.007*	*28.077*	
1	*N1:T4:A2:2-8*	*TAP13*	*19*	*49MTV-WRF*	*30cd*	*0.1630*	*0.210*	*0.024*	*28.094*	
1	*N1:T4:A2:2-9*	*N1:T4:A2:2-8*	*23*	*49VO-WRF*	*15cd*	*0.0470*	*0.047*	*0.007*	*28.087*	
1	*N1:T4:A2:2-10*	*N1:T4:A2:2-6*	*19*	*49MTV-WRF*	*75cd*	*0.1980*	*0.198*	*0.023*	*28.061*	
2	*N1:T4:A2:2-15*	*PANEL*

MEDICAL CENTER OF AURORA SOUTH TOWER TRANSPONDER 4 4100es XPDR						
Module	Qty	Description		Standby Current	Total Standby	Alarm Current	Total Alarm
Panel Equipment							
4100-9600	1	BASIC TRANSPONDER	"	0.0870	0.0870	0.0870	0.0870
4100-0634	1	POWER DISTRIBUTION MODULE 120V		0.0000	0.0000	0.0000	0.0000
4100-0636	1	BOX TO BOX HARNESS KIT		0.0000	0.0000	0.0000	0.0000
4100-2300	1	EXPANSION BAY (PHASE 10 ONLY)		0.0000	0.0000	0.0000	0.0000
4100-5311	1	ENHANCED POWER SUPPLY, 3 CHANNELS, IDNet, 120V		0.2250	0.2250	0.4900	0.4900
4009-9601	2	IDNAC REPEATER 120V PLATINUM UL/ULC.		0.0700	0.1400	0.0960	0.1920
		Panel Totals			0.4520		0.7690
IDNet Addressable Devices (SLC)							
4090-9001	3	IDNET SUPERVISED IAM	"				
4090-9002	40	IDNET RELAY IAM	"				
4 **4098-9714**	**100**	**TRUEALARM PHOTO SMOKE SENSOR**					
3 **4098-9733**	**9**	**TRUEALARM HEAT SENSOR**	*	Constant current draw of .8mA standby and 1mA alarm per address used. Devices requiring additional current are accounted for in the section labeled "Miscellaneous Peripheral Devices Requiring Additional System Power".			
4098-9755	2	TRUEALARM DUCT SMOKE SENSOR W/O RELAY OUTPUT	"				
4098-9756	10	TRUEALARM DUCT SMOKE SENSOR W/ RELAY OUTPUT	"				
4 **4098-9792**	**109**	**TRUEALARM SENSOR BASE**	*				
4099-9004	4	ADDRESSABLE SINGLE ACTION MANUAL STATION	"				
4099-9006	1	ADDRESSABLE DOUBLE ACTION MANUAL STATION, PUSH	"				
Miscellaneous Peripheral Devices That Require (Additional) System Power							
4098-9843	10	ENCAPSULATED RELAY PAM-SD		0.0000	0.0000	0.0150	0.1500
4098-9756	10	TRUEALARM DUCT SMOKE SENSOR W/ RELAY OUTPUT		0.0030	0.0300	0.0150	0.1500
4603-9101	4	SERIAL LCD ANNUNCIATOR		0.0650	0.2600	0.1400	0.5600
2088-9021	11	ENCAPSULATED RELAY PAM-1		0.0000	0.0000	0.0150	0.1650
4098-9605	2	PHOTO SMOKE DETECTOR SSD		0.0001	0.0002	0.0000	0.0000
4098-9788	2	2 WIRE DETECTOR BASE		0.0000	0.0000	0.0000	0.0000
2098-9806	10	REMOTE TEST STATION W/ LED AND KEY SWITCH		0.0000	0.0000	0.0000	0.0000
IDNac Notification Appliances			**Setting**				
4009-9601	2	IDNAC REPEATER 120V PLATINUM UL/ULC.	"	0.0032	0.0064	0.0032	0.0064
4906-9202	6	ADDRESSABLE CEILING MNT MC V/O, RED	15	0.0008	0.0048	0.0600	0.3600
4906-9201	1	ADDRESSABLE CEILING MNT MC V/O, RED	75	0.0008	0.0008	0.1800	0.1800
49MT-WRF	2	MULTI-TONE AUDIBLE ONLY, RED, WALL MOUNT	520 H	0.0016	0.0032	0.0990	0.1980
49MTV-WRF	18	MULTI-TONE A/V, RED, WALL MOUNT	15	0.0016	0.0288	0.1450	2.6100
49MTV-WRF	11	MULTI-TONE A/V, RED, WALL MOUNT	30	0.0016	0.0176	0.1630	1.7930
49MTV-WRF	6	MULTI-TONE A/V, RED, WALL MOUNT	75	0.0016	0.0096	0.1980	1.1880
49VO-APPLC	11	STROBE, APPLIANCE ONLY, CEILING MOUNT	15	0.0008	0.0088	0.0550	0.6050
49VO-APPLC	2	STROBE, APPLIANCE ONLY, CEILING MOUNT	30	0.0008	0.0016	0.0830	0.1660
49VO-APPLC	2	STROBE, APPLIANCE ONLY, CEILING MOUNT	75	0.0008	0.0016	0.1530	0.3060
49VO-APPLW	1	VO APPLIANCE ONLY WALL MT.	15	0.0008	0.0008	0.0470	0.0470
49VO-APPLW	3	VO APPLIANCE ONLY WALL MT.	30	0.0008	0.0024	0.0700	0.1750
5 **49VO-APPLW**	**1**	**VO APPLIANCE ONLY WALL MT, W/ COLORED LENS KIT**	**75 w/**	**0.0008**	**0.0008**	**0.1280**	**0.1280**
49VO-APPLW	1	VO APPLIANCE ONLY WALL MT.	75	0.0008	0.0008	0.1000	0.1000
49VO-WRF	38	VO, WALL MT, RED, FIRE LABEL	15	0.0008	0.0240	0.0470	1.4100
		Total IDNac Device Current:			0.1160		9.5964
		IDNac Current Boost for 29vdc Regulated Output **					5.4711
		Peripheral Totals			0.2902		16.0925
		RUI Totals	**4**		0.0140		0.0140
		Address Totals	**169 Addresses**		0.1352		0.1690
		System Totals*:		**Standby**	**1.0074**	**Alarm**	**17.0445**

* Device Address current draw included below (See Additional Current Draws):

Battery Set #1 (Cabinet/Charger #1)				Standby Current	Standby Total	Alarm Current	Alarm Total
Select ALL Power Supplies on this battery set:							
EPS-1					0.6734		7.1974
			Sub Total		**0.6734**		**7.1974**
Additional Current Draws:							
IDNac Current Boost for 29vdc Regulated Output **							3.1900
RUI Connected Peripheral Devices	4	x 0.0035			= 0.0140	x 0.0035	= 0.0140
MAPNET/IDNet Device Address Communication Current	169	x 0.000800			= 0.1352	x 0.001000	= 0.1690
			Sub Total		**0.8226**		**10.5704**
Spare addressable point capacity	**20%**	34	x 0.0008		= 0.0272	x 0.001	= 0.0340
			Total		**0.8498**		**10.6044**
Standby Time =	**4**	Hrs	x 0.8498		= 3.3992	Standby Ah	
Alarm Time =	**5**	Min	0.08333 x 10.6044		= 0.8837	Alarm Ah	
					4.2829		
Additional Spare Battery Capacity =	**20%**				+ 0.8566		
					5.1395		
Battery Discharge Factor =	**20%**				+ 1.0279		
Minimum Battery Required	**2081-9272 6.2AH (2x)**				**6.1674**		
Battery Supplied	**2081-9287 25AH (2x)**						

* System Totals represent total system current requirements. Those currents may be distributed between multiple battery sets or power supplies as shown above.

** IDNac Current Boost formula: ((29.5 * IDNac Alarm Current) / .92) / 20.4 = Adjusted Current
DC-DC Converter Output = 29.5vdc. Terminal Output is 29vdc due to 0.5vdc internal loss.
Converter Worst Case efficiency is 92%, 20.4vdc represents battery output in 85% depleted state

Repeater Power Supply Battery Set:				Standby	Standby Total	Alarm	Alarm Total
EPR-1					0.0836		**1.2950**
Additional Current Draw:							
IDNac Current Boost for 29vdc Regulated Output **					0.0000		0.6836
			Total		**0.0836**		**1.9786**
Standby Time =	**4**	Hrs	x 0.8498		= 0.3344	Standby Ah	
Alarm Time =	**5**	Min	0.08333 x 1.9786		= 0.1649	Alarm Ah	
					0.4993		
Additional Spare Battery Capacity =	**20%**				+ 0.0999		
					0.5991		
Battery Discharge Factor =	**20%**				+ 0.1198		
Minimum Battery Required	**2081-9272 6.2AH (2x)**				**0.7190**		
Battery Supplied	**2081-9272 6.2AH (2x)**						

Repeater Power Supply Battery Set:				Standby Total	Alarm Total
EPR-2				0.1012	**2.8980**
Additional Current Draw:					
IDNac Current Boost for 29vdc Regulated Output **				0.0000	1.5975
			Total	**0.1012**	**4.4955**
Standby Time =	**4**	Hrs	x 0.8498	= 0.4048	Standby Ah
Alarm Time =	**5**	Min	0.08333 x 4.4955	= 0.3746	Alarm Ah
				0.7794	
Additional Spare Capacity =	**20%**			+ 0.1559	
				0.9353	
Additional Spare Battery Capacity =	**20%**			+ 0.1871	
Minimum Battery Required	**2081-9272 6.2AH (2x)**			**1.1224**	
Battery Supplied	**2081-9272 6.2AH (2x)**				

IDNET CHANNEL N1:T4:M11	ADDRESSES IN USE: 169 (67.6%) | SPARE ADDRESSES: 81 (32.4%)		SWITCH SETTINGS							
Address	Device Type	Point Type	Location Description	1						
N1:T4:M11-1	PHOTO	SMOKE	1:M11-1 FLR 1W ELEC 1-CS16	X						ON
N1:T4:M11-2	PHOTO	SMOKE	1:M11-2 FLR 1W OR-11 1-SS10 SW		X					ON
N1:T4:M11-3	PHOTO	SMOKE	1:M11-3 FLR 1W OR-11 1-SS10 NE	X	X					ON
N1:T4:M11-4	RIAM	DHOLDER	1:M11-4 FLR 1W OR-11 1-SS100			X				ON
N1:T4:M11-5	HEAT	HEAT	1:M11-5 FLR 1W TOILET CS15	X		X				ON
N1:T4:M11-6	PHOTO	VSMOKE	1:M11-6 FLR 1W CORR 1-CS14		X	X				ON
N1:T4:M11-7	PHOTO	VSMOKE	1:M11-7 FLR 1W CORR 1-CS14	X	X	X				ON
N1:T4:M11-8	PHOTO	SMOKE	1:M11-8 FLR 1W STER STG 1-CS10 NORTH				X			ON
N1:T4:M11-9	PHOTO	SMOKE	1:M11-9 FLR 1W STER STG 1-CS10	X			X			ON
N1:T4:M11-10	PHOTO	SMOKE	1:M11-10 FLR 1W JAN1-CS13		X		X			ON
N1:T4:M11-11	PHOTO	VSMOKE	1:M11-11 FLR 1W STORAGE 1012	X	X		X			ON
N1:T4:M11-12	PHOTO	SMOKE	1:M11-12 FLR 1W STER STG 1-CS10 CTR			X	X			ON
N1:T4:M11-13	PHOTO	SMOKE	1:M11-13 FLR 1W CENTRAL STERILE	X		X	X			ON
N1:T4:M11-14	PHOTO	SMOKE	1:M11-14 FLR 1W STER STG 1-CS10 SOUTH		X	X				ON
N1:T4:M11-15	PHOTO	SMOKE	1:M11-15 FLR 1W STER STG 1-CS10 SOUTH	X	X	X				ON
N1:T4:M11-16	PHOTO	SMOKE	1:M11-16 FLR 1W MAKE UP 1-CS07 W				X			ON
N1:T4:M11-17	PHOTO	SMOKE	1:M11-17 FL 1W CENTRAL STERILE	X			X			ON
N1:T4:M11-18	PHOTO	SMOKE	1:M11-18 FL 1W MAKE UP 1-CS07 @ CORR		X		X			ON
N1:T4:M11-19	PHOTO	SMOKE	1:M11-19 FL 1W STERILIZER 1-CS08	X	X		X			ON
N1:T4:M11-20	PHOTO	SMOKE	1:M11-20 FL 1W CLEAN STORAGE 1-CS06			X	X			ON
N1:T4:M11-21	PHOTO	SMOKE	1:M11-21 FL 1W DECON 1-CS03 NORTH	X		X	X			ON
N1:T4:M11-22	PHOTO	SMOKE	1:M11-22 FL 1W DECON 1-CS03 SOUTH		X	X	X			ON
N1:T4:M11-23	PHOTO	SMOKE	1:M11-23 FL 1W CART WASH 1-CS04 NORTH	X	X	X				ON
N1:T4:M11-24	PHOTO	SMOKE	1:M11-24 FL 1W CART WASH 1-CS04 SOUTH				X	X		ON
N1:T4:M11-25	PHOTO	SMOKE	1:M11-25 FL 1W CSS OFF 1-CS02	X			X	X		ON
N1:T4:M11-26	PHOTO	SMOKE	1:M11-26 FL 1W DI WATER 1-CS09		X		X	X		ON
N1:T4:M11-27	PHOTO	SMOKE	1:M11-27 FL 1W SURGERY VENDOR 1-CS01	X	X		X	X		ON
N1:T4:M11-28	PHOTO	SMOKE	1:M11-28 FL 1W CLEAN STORAGE 1-CS05			X	X	X		ON
N1:T4:M11-29			SPARE	X		X	X	X		ON
N1:T4:M11-30	RPHOTO	LSDUCT	1:M11-30 FLR 1W STER STG SUP FSD 1-CS10		X	X	X			ON
N1:T4:M11-31	RPHOTO	LSDUCT	1:M11-31 FLR 1W CARTWASH 1-CS04 RET FSD		X	X	X	X		ON
N1:T4:M11-32			SPARE					X		ON
N1:T4:M11-33	RPHOTO	LSDUCT	1:M11-33 FLR 1W SRG VEND 1-CS01 RET FSD	X				X		ON
N1:T4:M11-34			SPARE		X			X		ON
N1:T4:M11-35	RPHOTO	LSDUCT	1:M11-35 FLR 1W DECON 1- CS03 SUP FSP	X	X			X		ON
N1:T4:M11-36			SPARE			X		X		ON
N1:T4:M11-37			SPARE	X		X		X		ON
N1:T4:M11-38			SPARE		X	X		X		ON
N1:T4:M11-39	RIAM	RELAY	1:M11-39 FLR 1W OR #11 ALARM TO DDC	X	X	X		X		ON
N1:T4:M11-40	RIAM	RELAY	1:M11-40 FLR 1W OR #3 ALARM TO DDC				X	X		ON
N1:T4:M11-41	RPHOTO	LSDUCT	1:M11-41 FLR 1W ELEC RM 1-CS16 SUP FSD	X		X	X	X		ON
N1:T4:M11-42	RPHOTO	LSDUCT	1:M11-42 FLR 1W ELEC RM 1-CS16 RET FSD		X	X	X	X		ON
N1:T4:M11-43	RPHOTO	LSDUCT	1:M11-43 FLR 1W TLT 1-CS15 SUP FSD	X	X	X	X	X		ON
N1:T4:M11-44	RPHOTO	LSDUCT	1:M11-44 FLR 1W OR-11 1-SS100 RET FSD			X	X	X		ON
N1:T4:M11-45	PHOTO	VSMOKE	1:M11-45 FLR 1W OR-1 1-SS118 NE	X		X	X	X		ON
N1:T4:M11-46	PHOTO	VSMOKE	1:M11-46 FLR 1W OR-1 1-SS118 SW		X	X	X	X		ON
N1:T4:M11-47	RIAM	DHOLDER	1:M11-47 FLR 1W OR-1 1-SS118 D/H	X	X	X	X	X		ON
N1:T4:M11-48	PHOTO	VSMOKE	1:M11-48 FLR 1W OR-2 1-SS119 NE					X		ON
N1:T4:M11-49	PHOTO	VSMOKE	1:M11-49 FLR 1W OR-2 1-SS119 SW	X				X	X	ON
N1:T4:M11-50	RIAM	DHOLDER	1:M11-50 FLR 1W OR-2 1-SS119 D/H		X			X	X	ON
N1:T4:M11-51	PHOTO	VSMOKE	1:M11-51 FLR 1W CYSTO OR-3 1-SS129 NE	X	X			X	X	ON
N1:T4:M11-52	PHOTO	VSMOKE	1:M11-52 FLR 1W CYSTO OR-3 1-SS129 SW			X		X	X	ON
N1:T4:M11-53	RIAM	DHOLDER	1:M11-53 FLR 1W CYSTO OR-3 1-SS129 D/H	X		X		X	X	ON
N1:T4:M11-54	PHOTO	VSMOKE	1:M11-54 FLR 1W EQUIP STG 1-SS131	X	X			X	X	ON
N1:T4:M11-55	PHOTO	VSMOKE	1:M11-55 FLR 1W WOMENS LOCKER 1-SS135	X	X	X		X	X	ON
N1:T4:M11-56	HEAT	HEAT	1:M11-56 FLR 1W WOMENS BATH 1-SS136				X	X	X	ON
N1:T4:M11-57	PHOTO	VSMOKE	1:M11-57 FLR 1W MENS LOCKER 1-SS139	X			X	X	X	ON
N1:T4:M11-58	PHOTO	VSMOKE	1:M11-58 FLR 1W NURSE LOUNGE 1-SS139		X		X	X	X	ON
N1:T4:M11-59			SPARE	X	X		X	X	X	ON
N1:T4:M11-60			SPARE			X	X	X	X	ON
N1:T4:M11-61			SPARE	X		X	X	X	X	ON
N1:T4:M11-62	RPHOTO	LSDUCT	1:M11-62 FLR 1W OR-11 1-SS100 SUP FSD		X	X	X	X	X	ON
N1:T4:M11-63	RPHOTO	LSDUCT	1:M11-63 FLR 1W CORR 1-SS112 SUP FSD	X	X	X	X	X	X	ON
N1:T4:M11-64			SPARE						X	ON
N1:T4:M11-65	RIAM	RELAY	1:M11-65 FLR 1W OR-1 PHOENIX VALVE	X					X	ON
N1:T4:M11-66	RIAM	RELAY	1:M11-66 FLR 1W OR-2 PHOENIX VALVE		X				X	ON
N1:T4:M11-67	PHOTO	VSMOKE	1:M11-67 FLR 1W CORR 1-SS0237 @ STER STG	X	X				X	ON
N1:T4:M11-68	PHOTO	VSMOKE	1:M11-68 FLR 1W CORR 1-SS037 @ STG ALC			X			X	ON
N1:T4:M11-69	PHOTO	VSMOKE	1:M11-69 FLR 1W CORR 1-SS029 @ N CORR	X		X			X	ON
N1:T4:M11-70	PHOTO	SMOKE	1:M11-70 FLR 1W CORR 1-SS036		X	X			X	ON
N1:T4:M11-71	PHOTO	SMOKE	1:M11-71 FLR 1W CORR 1-SS036	X	X	X			X	ON
N1:T4:M11-72	PHOTO	SMOKE	1:M11-72 FLR 1W STOR 1-SS035				X		X	ON
N1:T4:M11-73	PHOTO	SMOKE	1:M11-73 FLR 1W SOILED FLUIDS 1-SS032	X			X		X	ON
N1:T4:M11-74	RIAM	DHOLDER	1:M11-74 FLR 1W OR 4 CORR 1-SS036		X		X		X	ON
N1:T4:M11-75	RIAM	RELAY	1:M11-75 FLR 1W OR 4 PHOENIX VALVE	X	X		X		X	ON
4 **N1:T4:M11-76**	**PHOTO**	**SMOKE**	**1:M11-76 FLR 1W OR 4 100 W**			X			X	ON
N1:T4:M11-77	**PHOTO**	**SMOKE**	**1:M11-77 FLR 1W OR 4 100 E**	X		X			X	ON
N1:T4:M11-78	PHOTO	VSMOKE	1:M11-78 FLR 1W PASS 1-PA11		X	X			X	ON
N1:T4:M11-79	PHOTO	VSMOKE	1:M11-79 FLR 1W CLEAN UTILITY 1-PA07	X	X	X			X	ON
N1:T4:M11-80	PHOTO	VSMOKE	1:M11-80 FLR 1W PRIVATE PACU BAY 1100				X		X	ON
N1:T4:M11-81	PHOTO	VSMOKE	1:M11-81 FLR 1W PACU RECOVERY 1-PA01 N	X			X		X	ON
N1:T4:M11-82	PHOTO	VSMOKE	1:M11-82 FLR 1W PASS 1-PA12		X		X		X	ON
N1:T4:M11-83	PHOTO	VSMOKE	1:M11-83 FLR 1W STF LNGE 1-PA14	X	X		X		X	ON
N1:T4:M11-84	HEAT	HEAT	1:M11-84 FLR 1W TLT PA15			X	X		X	ON
N1:T4:M11-85	PHOTO	SMOKE	1:M11-85 FLR 1W PACU RECOVERY 1-PA01 S	X		X	X		X	ON
N1:T4:M11-86	PHOTO	SMOKE	1:M11-86 FLR 1W SOILED UTILITY 1-PA08		X	X	X		X	ON
N1:T4:M11-87	PHOTO	SMOKE	1:M11-87 FLR 1W PASS 1-PA06	X	X	X			X	ON
N1:T4:M11-88	PHOTO	SMOKE	1:M11-88 FLR 1W ELEC 1-PA05			X	X		X	ON
N1:T4:M11-89	ADRPUL	PULL	1:M11-89 FLR 1W NURSE STATION A 1-PA10	X		X	X		X	ON
5 N1:T4:M11-90	RIAM	RRELAY	**1:M11-90 FLR 1W OR 4 100**		X	X	X		X	ON
N1:T4:M11-91			SPARE	X	X		X	X	X	ON
N1:T4:M11-92	PHOTO	VSMOKE	1:M11-92 FLR 1W CORR 1-SS122 @STORAGE			X	X	X	X	ON
N1:T4:M11-93	PHOTO	VSMOKE	1:M11-93 FLR 1W STORAGE 1-SS125	X		X	X	X	X	ON
N1:T4:M11-94			SPARE		X	X	X	X	X	ON
N1:T4:M11-95			SPARE	X	X	X	X	X	X	ON
N1:T4:M11-96			SPARE					X	X	ON
N1:T4:M11-97			SPARE	X				X	X	ON
N1:T4:M11-98			SPARE		X			X	X	ON
N1:T4:M11-99			SPARE	X	X			X	X	ON
N1:T4:M11-100	PHOTO	VSMOKE	1:M11-100 FLR 1W PASS 1-SS204 S			X		X	X	ON
N1:T4:M11-101	PHOTO	VSMOKE	1:M11-101 FLR 1W PASS 1-SS204 CTR	X		X		X	X	ON
N1:T4:M11-102	PHOTO	VSMOKE	1:M11-102 FLR 1W PASS 1-SS204 N		X	X		X	X	ON
N1:T4:M11-103	PHOTO	VSMOKE	1:M11-103 FLR 1W STORE ROOM 1-SS201	X	X	X		X	X	ON
N1:T4:M11-104	PHOTO	VSMOKE	1:M11-104 FLR 1W EVS 1-SS202			X	X	X	X	ON
N1:T4:M11-105	HEAT	HEAT	1:M11-105 FLR 1W TOILET 1-SS203	X		X	X	X	X	ON
N1:T4:M11-106	ADRPUL	PULL	1:M11-106 FLR 1W NURSE STATION A 1-SS205		X		X	X	X	ON
N1:T4:M11-107	PHOTO	VSMOKE	1:M11-107 FLR 1W PASS 1-SS212	X	X		X	X	X	ON
N1:T4:M11-108	HEAT	HEAT	1:M11-108 FLR 1W TOILET 1-SS206			X	X	X	X	ON
N1:T4:M11-109	PHOTO	VSMOKE	1:M11-109 FLR 1W MEDS 1-SS207	X		X	X	X	X	ON
N1:T4:M11-110	PHOTO	VSMOKE	1:M11-110 FLR 1W SOILED UTILITY 1-SS208		X	X	X	X	X	ON
N1:T4:M11-111	PHOTO	VSMOKE	1:M11-111 FLR 1W OFFICE 1-SS209	X	X	X	X	X	X	ON
N1:T4:M11-112	PHOTO	VSMOKE	1:M11-112 FLR 1W PASSAGE 1-SS210				X	X	X	ON
N1:T4:M11-113	PHOTO	VSMOKE	1:M11-113 FLR 1W WORK ROOM 1-SS215	X			X	X	X	ON
N1:T4:M11-114	PHOTO	VSMOKE	1:M11-114 FLR 1W CLEAN UTILITY 1-SS214		X		X	X	X	ON
N1:T4:M11-115	ADRPUL	PULL	1:M11-115 FLR 1W NURSE STATION 1-SS213	X	X		X	X	X	ON
N1:T4:M11-116	PHOTO	SMOKE	1:M11-116 FLR 1W PASSAGE W 1-SS212		X		X	X	X	ON
N1:T4:M11-117	HEAT	HEAT	1:M11-117 FLR 1W TOILET 1-SS221	X		X	X	X	X	ON
N1:T4:M11-118	PHOTO	VSMOKE	1:M11-118 FLR 1W NOURISHMENT 1-SS222		X	X	X	X	X	ON
N1:T4:M11-119	PHOTO	VSMOKE	1:M11-119 FLR 1W PASS E 1-SS224	X	X	X		X	X	ON
N1:T4:M11-120	PHOTO	VSMOKE	1:M11-120 FLR 1W PASS N 1-SS224			X	X	X	X	ON
N1:T4:M11-121	PHOTO	VSMOKE	1:M11-121 FLR 1W PASS S 1-SS224	X		X	X	X	X	ON
N1:T4:M11-122	ADRPUL	PULL	1:M11-122 FLR 1W NURSE STAT C 1-SS223		X		X	X	X	ON
N1:T4:M11-123	HEAT	HEAT	1:M11-123 FLR 1W TLT 1-SS219	X	X		X	X	X	ON
N1:T4:M11-124	HEAT	HEAT	1:M11-124 FLR 1W TLT 1-SS218			X	X	X	X	ON
N1:T4:M11-125	PHOTO	VSMOKE	1:M11-125 FLR 1W NURSE LOUNGE 1-SS217	X		X	X	X	X	ON

NOTE: THE LABELS SHOWN ABOVE WILL BE USED FOR PROGRAMMING PURPOSES.
THE LABELS ARE BASED UPON INFORMATION SHOWN ON THE ARCHITECTURAL DRAWINGS.
ANY CHANGES TO THESE LABELS MUST BE NOTED ON THE SUBMITTAL REVIEW, PRIOR TO PROGRAMMING.
POINTS SHOWN IN ITALIC TEXT REFER TO EXISTING DEVICES.

IDNET CHANNEL N1:T4:M11	ADDRESSES IN USE: 169 (67.6%) | SPARE ADDRESSES: 81 (32.4%)		SWITCH SETTINGS							
Address	Device Type	Location Description	1							
N1:T4:M11-126	HEAT	HEAT	1:M11-126 FLR 1W TOILET 1-SS220		X	X	X	X	X	ON
N1:T4:M11-127	PHOTO	VSMOKE	1:M11-127 FLR 1W COMM 1-SS216	X	X	X	X	X	X	ON
N1:T4:M11-128	PHOTO	LSDUCT	1:M11-128 ROOF RTU-3 SUP DET TO DDC						X	ON
N1:T4:M11-129	PHOTO	LSDUCT	1:M11-129 ROOF RTU-3 RET DET TO DDC	X					X	ON
N1:T4:M11-130	RIAM	RELAY	1:M11-130 ROOF RTU-3 SUPPLY TO DDC		X				X	ON
N1:T4:M11-131	RIAM	RELAY	1:M11-131 ROOF RTU-3 RETURN TO DDC	X	X				X	ON
N1:T4:M11-132	RIAM	RELAY	1:M11-132 FLR 1W ALARM TO DDC AHU-3			X			X	ON
N1:T4:M11-133	RIAM	RELAY	1:M11-133 FLR 1W SUPV FSD TO DDC AHU-3	X		X			X	ON
N1:T4:M11-134	RIAM	RELAY	1:M11-134 FLR 1W RET FSD TO DDC AHU-3		X	X			X	ON
N1:T4:M11-135	RIAM	RRELAY	1:M11-135 FL 1W PACU BY HALL SEC RELEASE	X	X	X			X	ON
N1:T4:M11-136			SPARE				X		X	ON
N1:T4:M11-137	PHOTO	VSMOKE	1:M11-137 FLR 1 1W CHANGING AREA 7200A	X			X		X	ON
N1:T4:M11-138	PHOTO	VSMOKE	1:M11-138 FLR 1W BREAK RM 7302A		X		X		X	ON
N1:T4:M11-139	PHOTO	VSMOKE	1:M11-139 FLR 1W O/S RADIOLOGY 05 7202A	X	X		X		X	ON
N1:T4:M11-140	PHOTO	VSMOKE	1:M11-140 FLR1 1W STAFF HALL 7203A E			X	X		X	ON
N1:T4:M11-141	PHOTO	VSMOKE	1:M11-141 FLR 1W STAFF HALL 7203A W	X		X	X		X	ON
N1:T4:M11-142	PHOTO	VSMOKE	1:M11-142 FLR 1W TECH WORK AREA 7204A		X	X	X		X	ON
N1:T4:M11-143	PHOTO	VSMOKE	1:M11-143 FLR 1W EQUIPMENT RM 7203B	X	X	X	X		X	ON
N1:T4:M11-144	PHOTO	VSMOKE	1:M11-144 FLR 1W CONTROL AREA 7402B				X		X	ON
N1:T4:M11-145	PHOTO	VSMOKE	1:M11-145 FLR 1W PATIENT HOLDING 7402D	X			X		X	ON
N1:T4:M11-146	PHOTO	VSMOKE	1:M11-146 FLR1 1W CONTROL AREA 7402B S		X		X		X	ON
N1:T4:M11-147	IAM	SMOKE	1:M11-147 FLR 1W MRI 2 7402A HW SMKDET	X	X				X	ON
N1:T4:M11-148			SPARE			X	X		X	ON
N1:T4:M11-149			SPARE	X		X			X	ON
N1:T4:M11-150	IAM	SDUCT	1:M11-150 FLR 1W CRAC1 INTERGRAL SMK DET		X	X			X	ON
N1:T4:M11-151	PHOTO	VSMOKE	1:M11-151 FLR 1W EQUIP RM 1W-8902A	X	X	X			X	ON
N1:T4:M11-152	PHOTO	VSMOKE	1:M11-152 FLR1 IR RM 03 1W-8113A N			X	X		X	ON
N1:T4:M11-153	PHOTO	VSMOKE	1:M11-153 FLR1 IR RM 03 1W-8113A S	X			X		X	ON
N1:T4:M11-154	PHOTO	VSMOKE	1:M11-154 FLR 1W CONTROL RM 1W-8112A		X		X		X	ON
N1:T4:M11-155	RIAM	RELAY	1:M11-155 FLR 1W IR RM 03 MUSIC SHUT-OFF	X	X		X		X	ON
N1:T4:M11-156	IAM	LSDUCT	1:M11-156FLR 1W MRI2 7402A CRAC UNIT SMK			X	X		X	ON
N1:T4:M11-157			SPARE	X		X	X		X	ON
N1:T4:M11-158	PHOTO	VSMOKE	1:M11-158 FLR 1W RADIOLOGY 05 7202A		X	X	X		X	ON
N1:T4:M11-159	PHOTO	VSMOKE	1:M11-159 FLR 1W CT SUITE 5300A	X	X	X	X		X	ON
N1:T4:M11-160	PHOTO	VSMOKE	1:M11-160 FLR 1W CT 01 5303A					X	X	ON
N1:T4:M11-161	PHOTO	VSMOKE	1:M11-161 FLR 1W CT O2 CONTROL 5301A	X				X	X	ON
N1:T4:M11-162	PHOTO	VSMOKE	1:M11-162 FLR 1W NUC/SPINE ROOM 1 6307A		X			X	X	ON
N1:T4:M11-163			SPARE	X	X			X	X	ON
N1:T4:M11-164			SPARE			X		X	X	ON
N1:T4:M11-165	PHOTO	VSMOKE	1:M11-165 FLR 1W CORRIDOR 1008 SW DOORS	X		X		X	X	ON
N1:T4:M11-166	PHOTO	VSMOKE	1:M11-166 FLR 1W CORRIDOR 1008 C		X	X		X	X	ON
N1:T4:M11-167	PHOTO	VSMOKE	1:M11-167 FLR 1W CORRIDOR 1008 E	X	X	X		X	X	ON
N1:T4:M11-168	PHOTO	VSMOKE	1:M11-168 FLR 1W CORRIDOR 1008 NE DOORS				X	X	X	ON
N1:T4:M11-169	ADRPUL	PULL	1:M11-169 FLR 1W CORRIDOR 1008 STAIRS	X			X	X	X	ON
N1:T4:M11-170	PHOTO	VSMOKE	1:M11-170 FLR 1W IR STORAGE 1004		X		X	X	X	ON
N1:T4:M11-171	RIAM	CDAMPER	1:M11-171 FLR 1W DECON 1-CS03 SE RET FSD

MEDICAL CENTER OF AURORA SOUTH TOWER TRANSPONDER 4 - EPS-1 CIRCUIT SUMMARY & VOLTAGE DROP

Channel	Description	Alarm Current	% Drop	Unit Load*	Wire Length	Spare Current	Spare Voltage/Drop
N1:T4:A2:1	FLR 1W OR 11, STERILE STG	2.241A	5.80%	36	795	25%	72%
N1:T4:A2:2	**FLR 1W OR 1-4, PACU CORR**	**1.346A**	**3.24%**	**23**	**690**	**55%**	**84%**
N1:T4:A2:3	FLR 1W OR RECOVERY	2.008A	4.45%	30	849	33%	78%
EPR2	FLR 1W MRI AREA BREAK RM 7300A	2.802A	4.97%	39	864	7%	76%
EPR1	PACU RECOVERY	1.199A	2.53%	17	345	60%	86%

N1:T4:A2: ENHANCED POWER SUPPLY - CHANNEL 1

IDNac Address	Device Type	PID	Setting	Custom Label (Max 40 Characters)	SWITCH SETTINGS 1	2	3	4	5	6	7	8	
N1:T4:A2:1-1	VO	49VO-WRF	15cd	FLR 1W ELEC 1-CS16 T4:A2:1-1	X								ON
N1:T4:A2:1-2	AV	49MTV-WRF	15cd	FLR 1W CORR 1-CS14 T4:A2:1-2		X							ON
N1:T4:A2:1-3	VO	49VO-WRF	15cd	FLR 1W TOILET 1-CS15 T4:A2:1-3	X	X							ON
N1:T4:A2:1-4	AV	49MTV-WRF	15cd	FLR 1W CORR 1-CS14 T4:A2:1-4			X						ON
N1:T4:A2:1-5	AO	49MT-WRF	520 Hz	FLR 1W CASE CARTS 1-CS11 T4:A2:1-5	X		X						ON
N1:T4:A2:1-6	STRB	4906-9202	75cd	FLR 1W STERILE STG 1-CS1 T4:A2:1-6			X	X					ON
N1:T4:A2:1-7	VO	49VO-APPLW	30cd	FLR 1W OR 11 1-SS100 T4:A2:1-7	X	X	X						ON
N1:T4:A2:1-8	REPEATER	4009-9601	15cd	FLR 1W BREAK RM 7300A T4:A2:1-8				X					ON
N1:T4:A2:1-9	AV	49MTV-WRF	75cd	FLR 1W MAKE UP 1-CS7 T4:A2:1-9	X			X					ON
N1:T4:A2:1-10	AV	49MTV-WRF	75cd	FLR 1W MAKE UP 1CS7 T4:A2:1-10		X		X					ON
N1:T4:A2:1-11	VO	49VO-WRF	15cd	FLR 1W MAKE UP 1-CS07 T4:A2:1-11	X	X		X					ON
N1:T4:A2:1-12	VO	49VO-WRF	30cd	FLR 1W STERILIZER 1-CS08 T4:A2:1-12			X	X					ON
N1:T4:A2:1-13	VO	49VO-WRF	30cd	FLR 1W CLEAN STORAGE 1-CS06 T4:A2:1-13	X		X	X					ON
N1:T4:A2:1-14	AV	49MTV-WRF	30cd	FLR 1W DECON 1-CS03 T4:A2:1-14		X	X	X					ON
N1:T4:A2:1-15	AV	49MTV-WRF	75cd	FLR 1W CART WASH 1-CS04 T4:A2:1-15	X	X	X	X					ON
N1:T4:A2:1-16	STRB	4906-9202	15cd	FLR 1W DI WATER 1-CS09 T4:A2:1-16					X			X	ON
N1:T4:A2:1-17	VO	49VO-WRF	15cd	FLR 1W SURGERY VEN 1-CS01 T4:A2:1-17	X				X			X	ON
N1:T4:A2:1-18	VO	49VO-WRF	15cd	FLR 1W CLEAN STORAGE 1-CS05 T4:A2:1-18		X			X			X	ON
N1:T4:A2:1-19	AO	49MT-WRF	520 Hz	FLR 1W STERILE STG 1-CSG1 T4:A2:1-19	X	X			X			X	ON
N1:T4:A2:1-20	STRB	4906-9202	15cd	FLR 1W STERILE STG 1-CSG1 T4:A2:1-20			X		X			X	ON
N1:T4:A2:1-21	STRB	4906-9202	15cd	FLR 1W STERILE STG 1-CSG1 T4:A2:1-21	X		X		X			X	ON
N1:T4:A2:1-22	STRB	4906-9202	15cd	FLR 1W STERILE STG 1-CSG1 T4:A2:1-22			X	X	X			X	ON
N1:T4:A2:1-23	STRB	4906-9202	15cd	FLR 1W STERILE STG 1-CSG1 T4:A2:1-23	X	X	X		X			X	ON
N1:T4:A2:1-24	STRB	4906-9202	15cd	FLR 1W STERILE STG 1-CSG1 T4:A2:1-24				X	X			X	ON
N1:T4:A2:1-25	VO	49VO-APPLW	15cd	FLR 1W RADIUS CHANG AREA T4:A2:1-25	X			X	X			X	ON
N1:T4:A2:1-26	AV	49MTV-WRF	30cd	FLR 1W BREAK RM 7300A T4:A2:1-26		X		X	X			X	ON
N1:T4:A2:1-27	VO	49VO-APPLC	15cd	FLR 1W CHANGING AREA 7200A T4:A2:1-27	X	X		X	X			X	ON
N1:T4:A2:1-28	VO	49VO-APPLC	15cd	FLR 1W O/S RAD. 05 7202A T4:A2:1-28			X	X	X			X	ON
N1:T4:A2:1-29	AV	49MTV-WRF	15cd	FLR 1W STAFF HALL 7203A T4:A2:1-29	X		X	X	X			X	ON
N1:T4:A2:1-30	AV	49MTV-WRF	15cd	FLR 1W EQUIP RM 7203B T4:A2:1-30		X	X	X	X			X	ON
N1:T4:A2:1-31	VO	49VO-APPLC	15cd	FLR 1W TECH WORK AREA 7204A T4:A2:1-31	X	X	X	X	X			X	ON
N1:T4:A2:1-32	AV	49MTV-WRF	15cd	FLR 1W CONTROL AREA 7402B T4:A2:1-32						X		X	ON
N1:T4:A2:1-33	VO	49VO-APPLC	15cd	FLR 1W TLT 7402C T4:A2:1-33	X					X		X	ON
N1:T4:A2:1-34	VO	49VO-APPLC	15cd	FLR 1W PAT HOLDING 7402C T4:A2:1-34		X				X		X	ON
N1:T4:A2:1-35	AV	49MTV-WRF	15cd	FLR 1W CONTROL AREA 7402B S T4:A2:1-35	X	X				X		X	ON
N1:T4:A2:1-36	VO	49VO-APPLC	15cd	FLR 1W CHANGING RM 7402E T4:A2:1-36			X			X		X	ON
N1:T4:A2:1-37	VO	49VO-APPLC	15cd	FLR 1W STAFF TLT 7404A T4:A2:1-37	X		X	X		X		X	ON
N1:T4:A2:1-38	AV	49MTV-WRF	15cd	FLR 1W EQUIP RM 1W-8902A T4:A2:1-38		X	X			X		X	ON
N1:T4:A2:1-39	VO	49VO-APPLC	30cd	FLR 1W IR RM 03 1W-8113A N T4:A2:1-39	X	X	X			X		X	ON
N1:T4:A2:1-40	VO	49VO-APPLC	30cd	FLR 1W IR RM 03 1W-8113A S T4:A2:1-40				X		X		X	ON
N1:T4:A2:1-41	AV	49MTV-WRF	15cd	FLR 1W CONTROL RM 1W-8112A T4:A2:1-41	X			X		X		X	ON
N1:T4:A2:1-42	VO	49VO-APPLC	15cd	FLR 1W RAD RM 5 7202A T4:A2:1-42		X		X		X		X	ON
N1:T4:A2:1-43	VO	49VO-WRF	15cd	FLR 1W BATH 7201A T4:A2:1-43	X	X		X		X		X	ON
N1:T4:A2:1-44	VO	49VO-WRF	15cd	FLR 1W TLT 5303A 1-44			X	X		X		X	ON
N1:T4:A2:1-45	AV	49MTV-WRF	30cd	FLR 1W CT SUITE 5300A 1-45	X		X	X		X		X	ON
N1:T4:A2:1-46	VO	49VO-APPLC	75cd	FLR 1W CT 01 5303A 1-46		X	X	X		X		X	ON
N1:T4:A2:1-47	VO	49VO-APPLC	15cd	FLR 1W CT 01 5303A CONTROL 1-47	X	X	X	X		X		X	ON
N1:T4:A2:1-48	VO	49VO-APPLC	75cd	FLR 1W CT 02 5302A 1-48					X	X		X	ON
N1:T4:A2:1-49	VO	49VO-APPLC	15cd	FLR 1W CONTROL 5301A 1-49	X				X	X		X	ON
N1:T4:A2:1-50	AV	49MTV-WRF	15cd	FLR 1W NUC/SPINE ROOM 1 6307A 1-50		X			X	X		X	ON
N1:T4:A2:1-51	AV	49MTV-WRF	15cd	FLR 1W CORRIDOR 1008 W T4:A2:1-51	X	X			X	X		X	ON
N1:T4:A2:1-52	AV	49MTV-WRF	15cd	FLR 1W CORRIDOR 1008 E T4:A2:1-52			X		X	X		X	ON
N1:T4:A2:1-53	VO	49VO-APPLC	15cd	FLR 1W IR STORAGE 1004 T4:A2:1-53	X		X		X	X		X	ON

N1:T4:A2: ENHANCED POWER SUPPLY - CHANNEL 2

IDNac Address	Device Type	PID	Setting	Custom Label (Max 40 Characters)	SWITCH SETTINGS 1								
N1:T4:A2:2-1	AV	49MTV-WRF	15cd	FLR 1W EQ STG 1-SS131 T:A2:2-1	X								ON
N1:T4:A2:2-2	VO	49VO-APPLW	75cd	FLR 1W CYSTO OR 3 1-SS129 1:A2:2-2		X							ON
N1:T4:A2:2-3	VO	49VO-APPLW	30cd	FLR 1W OR 2 1-SS119 1:A2:2-3	X	X							ON
N1:T4:A2:2-4	VO	49VO-APPLW	30cd	FLR 1W OR 1 1-SS118 1:A2:2-4		X							ON
N1:T4:A2:2-5	AV	49MTV-WRF	15cd	FLR 1W WOMENS LCKR RM 1-SS135 1:A2:2-5	X		X						ON
N1:T4:A2:2-6	VO	49VO-WRF	15cd	FLR 1W WOMENS LCKR RM 1-SS135 1:A2:2-6		X	X						ON
N1:T4:A2:2-7	VO	49VO-WRF	15cd	FLR 1W WOMENS BATH 1-SS136 1:A2:2-7	X	X	X						ON
N1:T4:A2:2-8	AV	49MTV-WRF	30cd	FLR 1W MENS LCKR RM 1-SS138 1:A2:2-8				X					ON
N1:T4:A2:2-9	VO	49VO-WRF	15cd	FLR 1W MENS LCKR RM 1-SS138 1:A2:2-9	X			X					ON
N1:T4:A2:2-10	AV	49MTV-WRF	75cd	FLR 1W NURSE LOUNGE 1-SS139 1:A2:2-10		X		X					ON
N1:T4:A2:2-11	AV	49MTV-WRF	15cd	SPARE	X	X		X					ON
N1:T4:A2:2-12	AV	49MTV-WRF	15cd	FLR 1W CORR 1-SS029 @OR 1:1:A2:2-12			X	X					ON
N1:T4:A2:2-13	VO	49VO-WRF	15cd	FLR 1W CORR 1-SS029 @OR 1:1:A2:2-13	X		X	X					ON
N1:T4:A2:2-14				SPARE		X	X	X					ON
N1:T4:A2:2-15				SPARE	X	X	X	X					ON
N1:T4:A2:2-16	REPEATER	4009-9601		FLR 1W ELEC 1-PA05 1:A2:2-16					X			X	ON
N1:T4:A2:2-17	VO	49VO-WRF	15cd	FLR 1W ELEC 1-PA01 1:A2:2-17	X				X			X	ON
N1:T4:A2:2-18	AV	49MTV-WRF	15cd	FLR 1W PASS 1-PA06 1:A2:2-18		X			X			X	ON
N1:T4:A2:2-19	VO	49VO-WRF	15cd	FLR 1W SOIL UTILITY 1-PA08 1:A2:2-19	X	X			X			X	ON
N1:T4:A2:2-20	VO	49VO-WRF	15cd	FLR 1W PACU RECOVERY 1-PA01 1:A2:2-20			X	X	X			X	ON
N1:T4:A2:2-21	AV	49MTV-WRF	30cd	FLR 1W NURSE STAT A 1-PA10 1:A2:2-21	X		X	X	X			X	ON
N1:T4:A2:2-22	AV	49MTV-WRF	15cd	FLR 1W PASS 1-PA11 1:A2:2-27			X	X	X			X	ON
N1:T4:A2:2-23	VO	49VO-WRF	15cd	FLR 1W CNC OFF 1-PA09 1:A2:2-28	X	X	X		X			X	ON
N1:T4:A2:2-24	AV	49MTV-WRF	30cd	FLR 1W CL UTILITY 1-PA07 1:A2:2-29					X	X		X	ON
N1:T4:A2:2-25	VO	49VO-WRF	30cd	FLR 1W PASS 1-PA12 1:A2:2-30	X				X	X		X	ON
N1:T4:A2:2-26	AV	49MTV-WRF	30cd	FLR 1W STAFF LOUNGE 1-PA14 1:A2:2-31			X		X	X		X	ON
N1:T4:A2:2-27	VO	49VO-WRF	15cd	FLR 1W TLT 1-PA15 1:A2:2-32	X	X			X	X		X	ON
6 **N1:T4:A2:2-28**	**VO**	**49VO-APPLW**	**75 w/Lens Kit**	**FLR 1W OR 4 100 1:A2:2-28**			X	X	X	X		X	ON
N1:T4:A2:2-29				SPARE	X		X	X	X	X		X	ON
N1:T4:A2:2-30				SPARE		X	X	X	X	X		X	ON
N1:T4:A2:2-31				SPARE	X	X	X	X	X	X		X	ON

N1:T4:A2: ENHANCED POWER SUPPLY - CHANNEL 3

IDNac Address	Device Type	PID	Setting	Custom Label (Max 40 Characters)	SWITCH SETTINGS 1								
N1:T4:A2:3-1				SPARE	X								ON
N1:T4:A2:3-2				SPARE		X							ON
N1:T4:A2:3-3	VO	49VO-WRF	15cd	FLR 1W COMM 1-SS216 1:A2:2-31	X	X							ON
N1:T4:A2:3-4	AV	49MTV-WRF	30cd	FLR 1W NURSE LOUNGE 1-SS217 1:A2:2-32			X						ON
N1:T4:A2:3-5	VO	49VO-WRF	15cd	FLR 1W TLT 1-SS22 1:A2:2-33	X		X						ON
N1:T4:A2:3-6	VO	49VO-WRF	15cd	FLR 1W TLT 1-SS218 1:A2:2-34		X	X						ON
N1:T4:A2:3-7	VO	49VO-WRF	15cd	FLR 1W TLT 1-SS219 1:A2:2-35	X	X	X						ON
N1:T4:A2:3-8	VO	49VO-WRF	15cd	FLR 1W PASS 1-SS224 1:A2:2-36					X				ON
N1:T4:A2:3-9	AV	49MTV-WRF	75cd	FLR 1W NURSE STAT C 1-SS223 1:A2:2-37	X				X				ON
N1:T4:A2:3-10				SPARE		X			X				ON
N1:T4:A2:3-11				SPARE	X	X			X				ON
N1:T4:A2:3-12	VO	49VO-WRF	15cd	FLR 1W PASS. 1-SS24 1:A2:3-12			X		X				ON
N1:T4:A2:3-13	VO	49VO-WRF	15cd	FLR 1W STORE RM 1-SS21 1:A2:3-13	X		X		X				ON
N1:T4:A2:3-14	AV	49MTV-WRF	30cd	FLR 1W PASS. 1-SS204 1:A2:3-14		X	X		X				ON
N1:T4:A2:3-15	VO	49VO-WRF	15cd	FLR 1W TLT 1-SS203 1:A2:3-15	X	X	X		X				ON
N1:T4:A2:3-16	VO	49VO-WRF	30cd	FLR 1W PASS 1-SS212 1:A2:3-16					X				ON
N1:T4:A2:3-17	VO	49VO-WRF	15cd	FLR 1W PASS. 1-SS204 1:A2:3-17	X				X				ON
N1:T4:A2:3-18	AV	49MTV-WRF	15cd	FLR 1W PASS. 1-SS201 1:A2:3-18		X			X				ON
N1:T4:A2:3-19	AV	49MTV-WRF	30cd	FLR 1W WK. RM 1-SS215 1:A2:3-19	X	X			X				ON
N1:T4:A2:3-20	VO	49VO-WRF	15cd	FLR 1W LN. UTIL. 1-SS214 1:A2:3-2			X		X				ON
N1:T4:A2:3-21	VO	49VO-WRF	15cd	FLR 1W ELEC UTIL 1-SS208 1:A2:3-21	X		X		X				ON
N1:T4:A2:3-22	VO	49VO-WRF	15cd	FLR 1W MEDS 1-SS207 1:A2:3-22		X	X		X				ON
N1:T4:A2:3-23	AV	49MTV-WRF	75cd	FLR 1W SECTY 1-SS211 1:A2:3-23	X	X	X		X				ON
N1:T4:A2:3-24	VO	49VO-WRF	15cd	FLR 1W TLT 1-SS206 1:A2:3-24				X	X				ON
N1:T4:A2:3-25	AV	49MTV-WRF	30cd	FLR 1W PASS 1-SS213 1:A2:3-26	X			X	X				ON
N1:T4:A2:3-26	VO	49VO-WRF	15cd	FLR 1W TLT 1-SS221 1:A2:3-26		X		X	X				ON
N1:T4:A2:3-27	VO	49VO-WRF	15cd	FLR 1W NOUR 1-SS222 1:A2:3-27	X	X		X	X				ON

N1:T4:A2:1 — Notification SLC Distributed Load Voltage Drop

Starting Voltage: 29vdc
Min. Device Voltage: 23.vdc
Allowable % Drop: 20.7%

Primary Wire Gauge: 14ga
Home Run Wire Gauge: 14ga

Wire Res. Per Ft. 0.003070 @ 75° Celsius
Wire Res. Per Ft. 0.003070 @ 75° Celsius

Branch	Device #	From	Distance (Feet)	PID	Setting	Device Draw	Class B Calculations Current at Device	Voltage Drop	Voltage at Device	% Vdrop Wire Length
1	N1:T4:A2:1-1	PANEL	15	49VO-WRF	15cd	0.0470	1.059	0.098	28.902	Branch 1: 5.8%
1	N1:T4:A2:1-2	N1:T4:A2:1-1	25	49MTV-WRF	15cd	0.1450	0.955	0.147	28.756	Length: 795
1	N1:T4:A2:1-3	N1:T4:A2:1-2	22	49VO-WRF	15cd	0.0470	0.047	0.006	28.750	
1	N1:T4:A2:1-4	N1:T4:A2:1-2	51	49MTV-WRF	15cd	0.1450	0.145	0.045	28.710	
1	TAP9	N1:T4:A2:1-2	18	JBOX		0.0000	0.618	0.068	28.688	
1	N1:T4:A2:1-5	TAP9	18	49MT-WRF	520 Hz	0.0990	0.339	0.037	28.650	
1	N1:T4:A2:1-6	N1:T4:A2:1-5	45	4906-9202	75cd	0.1800	0.189	0.050	28.600	
1	N1:T4:A2:1-7	N1:T4:A2:1-1	48	49VO-APPLW	30cd	0.0570	0.057	0.017	28.886	
1	N1:T4:A2:1-8	N1:T4:A2:1-25	89	4009-9601		0.0032	1.122	0.613	27.774	
1	N1:T4:A2:1-9	N1:T4:A2:1-8	18	49MTV-WRF	75cd	0.1980	1.119	0.124	27.650	
1	N1:T4:A2:1-10	N1:T4:A2:1-9	56	49MTV-WRF	75cd	0.1980	0.245	0.084	27.566	
1	TAP10	N1:T4:A2:1-9	29	JBOX		0.0000	0.676	0.120	27.530	
1	N1:T4:A2:1-11	TAP10	17	49VO-WRF	15cd	0.0470	0.104	0.011	27.519	
1	N1:T4:A2:1-12	TAP10	15	49VO-WRF	30cd	0.0570	0.057	0.005	27.525	
1	N1:T4:A2:1-13	N1:T4:A2:1-11	17	49VO-WRF	30cd	0.0570	0.057	0.006	27.513	
1	N1:T4:A2:1-14	TAP10	51	49MTV-WRF	30cd	0.1630	0.515	0.161	27.369	
1	TAP11	N1:T4:A2:1-14	10	JBOX		0.0000	0.305	0.019	27.350	
1	N1:T4:A2:1-15	TAP11	27	49MTV-WRF	75cd	0.1980	0.198	0.033	27.317	
1	N1:T4:A2:1-16	TAP11	26	4906-9202	15cd	0.0600	0.060	0.010	27.340	
1	N1:T4:A2:1-17	TAP11	20	49VO-WRF	15cd	0.0470	0.047	0.008	27.344	
1	N1:T4:A2:1-18	N1:T4:A2:1-14	28	49VO-WRF	15cd	0.0470	0.047	0.008	27.361	
1	N1:T4:A2:1-19	TAP9	10	49MT-WRF	520 Hz	0.0990	0.279	0.017	28.670	
1	N1:T4:A2:1-20	N1:T4:A2:1-24	39	4906-9202	15cd	0.0600	0.060	0.014	28.649	
1	N1:T4:A2:1-21	N1:T4:A2:1-5	2	4906-9202	15cd	0.0600	0.060	0.001	28.649	
1	N1:T4:A2:1-22	N1:T4:A2:1-19	2	4906-9202	15cd	0.0600	0.180	0.002	28.668	
1	N1:T4:A2:1-23	N1:T4:A2:1-22	2	4906-9202	15cd	0.0600	0.120	0.001	28.667	
1	N1:T4:A2:1-24	N1:T4:A2:1-23	10	4906-9202	15cd	0.0600	0.060	0.004	28.663	
1	N1:T4:A2:1-25	N1:T4:A2:1-10	85	49VO-APPLW	15cd	0.0470	0.047	0.025	27.542	
E2:1	N1:T4:A2:1-26	EPR2	26	49MTV-WRF	30cd	0.1630	2.802	0.447	28.553	Branch E2:1: 4.97%
E2:1	N1:T4:A2:1-27	N1:T4:A2:1-26	28	49VO-APPLC	15cd	0.0550	2.639	0.454	28.099	Length: 415
E2:1	N1:T4:A2:1-28	N1:T4:A2:1-27	21	49VO-APPLC	15cd	0.0550	2.584	0.333	27.766	
E2:1	N1:T4:A2:1-29	N1:T4:A2:1-28	29	49MTV-WRF	15cd	0.1450	0.345	0.061	27.704	
E2:1	N1:T4:A2:1-30	N1:T4:A2:1-29	18	49MTV-WRF	15cd	0.1450	0.200	0.022	27.682	
E2:1	N1:T4:A2:1-31	N1:T4:A2:1-30	31	49VO-APPLC	15cd	0.0550	0.055	0.010	27.672	
E2:1	N1:T4:A2:1-32	N1:T4:A2:1-28	22	49MTV-WRF	15cd	0.1450	0.966	0.130	27.635	
E2:1	N1:T4:A2:1-33	N1:T4:A2:1-32	24	49VO-APPLC	15cd	0.0550	0.821	0.121	27.514	
E2:1	N1:T4:A2:1-34	N1:T4:A2:1-33	19	49VO-APPLC	15cd	0.0550	0.766	0.089	27.425	
E2:1	N1:T4:A2:1-35	N1:T4:A2:1-34	25	49MTV-WRF	15cd	0.1450	0.711	0.109	27.316	
E2:1	N1:T4:A2:1-36	N1:T4:A2:1-35	27	49VO-APPLC	15cd	0.0550	0.566	0.094	27.222	
E2:1	N1:T4:A2:1-37	N1:T4:A2:1-36	21	49VO-APPLC	15cd	0.0550	0.511	0.066	27.156	
E2:1	N1:T4:A2:1-38	N1:T4:A2:1-37	34	49MTV-WRF	15cd	0.1450	0.456	0.095	27.061	
E2:1	N1:T4:A2:1-39	N1:T4:A2:1-38	21	49VO-APPLC	30cd	0.0830	0.311	0.040	27.021	
E2:1	N1:T4:A2:1-40	N1:T4:A2:1-39	47	49VO-APPLC	30cd	0.0830	0.083	0.024	26.997	
E2:1	N1:T4:A2:1-41	N1:T4:A2:1-39	22	49MTV-WRF	15cd	0.1450	0.145	0.020	27.101	
E2:1	N1:T4:A2:1-42	N1:T4:A2:1-28	21	49VO-APPLC	15cd	0.0550	1.218	0.157	27.609	
E2:1	N1:T4:A2:1-43	N1:T4:A2:1-42	21	49VO-WRF	15cd	0.0470	1.163	0.150	27.459	
E2:1	N1:T4:A2:1-44	N1:T4:A2:1-43	27	49VO-WRF	15cd	0.0470	1.116	0.185	27.274	
E2:1	N1:T4:A2:1-45	N1:T4:A2:1-44	19	49MTV-WRF	30cd	0.1630	0.724	0.084	27.189	
E2:1	N1:T4:A2:1-46	N1:T4:A2:1-45	40	49VO-APPLC	75cd	0.1530	0.153	0.038	27.152	
E2:1	N1:T4:A2:1-47	N1:T4:A2:1-45	35	49VO-APPLC	15cd	0.0550	0.208	0.045	27.145	
E2:1	N1:T4:A2:1-48	N1:T4:A2:1-47	24	49VO-APPLC	75cd	0.1530	0.153	0.023	27.122	
E2:1	N1:T4:A2:1-49	N1:T4:A2:1-45	33	49VO-APPLC	15cd	0.0550	0.200	0.041	27.149	
E2:1	N1:T4:A2:1-50	N1:T4:A2:1-49	75	49MTV-WRF	15cd	0.1450	0.145	0.067	27.082	
E2:1	N1:T4:A2:1-51	N1:T4:A2:1-44	65	49MTV-WRF	15cd	0.1450	0.345	0.138	27.136	
E2:1	N1:T4:A2:1-52	N1:T4:A2:1-51	66	49MTV-WRF	15cd	0.1450	0.200	0.081	27.055	
E2:1	N1:T4:A2:1-53	N1:T4:A2:1-52	23	49VO-APPLC	15cd	0.0550	0.055	0.008	27.047	

N1:T4:A2:2 — Distributed Load Voltage Drop

Starting Voltage: 29vdc
Min. Device Voltage: 23.vdc
Allowable % Drop: 20.7%

Primary Wire Gauge: 14ga
Home Run Wire Gauge: 14ga

Wire Res. Per Ft. 0.003070 @ 75° Celsius
Wire Res. Per Ft. 0.003070 @ 75° Celsius

Branch	Device #	From	Distance (Feet)	PID	Setting	Device Draw	Class B Calculations Current at Device	Voltage Drop	Voltage at Device	% Vdrop Wire Length
1	TAP12	PANEL	153	JBOX		0.0000	0.772	0.198	28.226	Branch 1: 3.24%
1	N1:T4:A2:2-11	TAP12	18	49MTV-WRF	15cd	0.1450	0.145	0.016	28.212	Length: 458
1	N1:T4:A2:2-1	TAP12	33	49MTV-WRF	15cd	0.1450	0.359	0.073	28.155	
1	N1:T4:A2:2-2	N1:T4:A2:2-1	31	49VO-APPLW	75cd	0.1000	0.214	0.041	28.114	
1	N1:T4:A2:2-3	N1:T4:A2:2-2	45	49VO-APPLW	30cd	0.0570	0.114	0.031	28.083	
1	N1:T4:A2:2-12	N1:T4:A2:2-13	27	49MTV-WRF	15cd	0.1450	0.145	0.024	28.200	
1	N1:T4:A2:2-4	N1:T4:A2:2-3	37	49VO-APPLW	30cd	0.0570	0.057	0.013	28.070	
1	N1:T4:A2:2-14	N1:T4:A2:2-4	16			0.0000	0.000	0.000	28.070	
1	N1:T4:A2:2-13	TAP12	11	49VO-WRF	15cd	0.0470	0.047	0.003	28.224	
1	N1:T4:A2:2-5	TAP12	19	49MTV-WRF	15cd	0.1450	0.647	0.075	28.152	
1	TAP13	N1:T4:A2:2-5	11	JBOX		0.0000	0.502	0.034	28.118	
1	N1:T4:A2:2-6	TAP13	19	49VO-WRF	15cd	0.0470	0.292	0.034	28.084	
1	N1:T4:A2:2-7	N1:T4:A2:2-6	25	49VO-WRF	15cd	0.0470	0.047	0.007	28.077	
1	N1:T4:A2:2-8	TAP13	19	49MTV-WRF	30cd	0.1630	0.210	0.024	28.094	
1	N1:T4:A2:2-9	N1:T4:A2:2-8	23	49VO-WRF	15cd	0.0470	0.047	0.007	28.087	
1	N1:T4:A2:2-10	N1:T4:A2:2-6	19	49MTV-WRF	75cd	0.1980	0.198	0.023	28.061	
2	N1:T4:A2:2-15	PANEL	232	4009-9601		0.0032	0.003	0.005	28.895	Branch 2: 0.02%
E1:1	N1:T4:A2:2-17	EPR1	18	49VO-WRF	15cd	0.0470	1.199	0.133	28.867	Branch E1:1: 2.81%
E1:1	N1:T4:A2:2-18	N1:T4:A2:2-17	25	49MTV-WRF	15cd	0.1450	1.152	0.177	28.691	Length: 345
E1:1	N1:T4:A2:2-19	N1:T4:A2:2-18	21	49VO-WRF	15cd	0.0470	0.047	0.006	28.685	
E1:1	TAP14	N1:T4:A2:2-18	26	JBOX		0.0000	0.960	0.147	28.543	
E1:1	N1:T4:A2:2-20	TAP14	23	49VO-WRF	15cd	0.0470	0.047	0.007	28.537	
E1:1	N1:T4:A2:2-21	TAP14	29	49MTV-WRF	30cd	0.1630	0.913	0.163	28.381	
E1:1	TAP15	N1:T4:A2:2-21	9	JBOX		0.0000	0.750	0.041	28.339	
E1:1	N1:T4:A2:2-22	TAP15	17	49MTV-WRF	15cd	0.1450	0.483	0.050	28.289	
E1:1	N1:T4:A2:2-23	N1:T4:A2:2-22	14	49VO-WRF	15cd	0.0470	0.338	0.029	28.260	
E1:1	N1:T4:A2:2-24	N1:T4:A2:2-23	25	49MTV-WRF	30cd	0.1630	0.291	0.045	28.215	
E1:1	**N1:T4:A2:2-28**	**N1:T4:A2:2-24**	**40**	**49VO-APPLW**	**75 w/Lens Kit**	**0.1280**	**0.128**	**0.031**	**28.184**	
E1:1	N1:T4:A2:2-

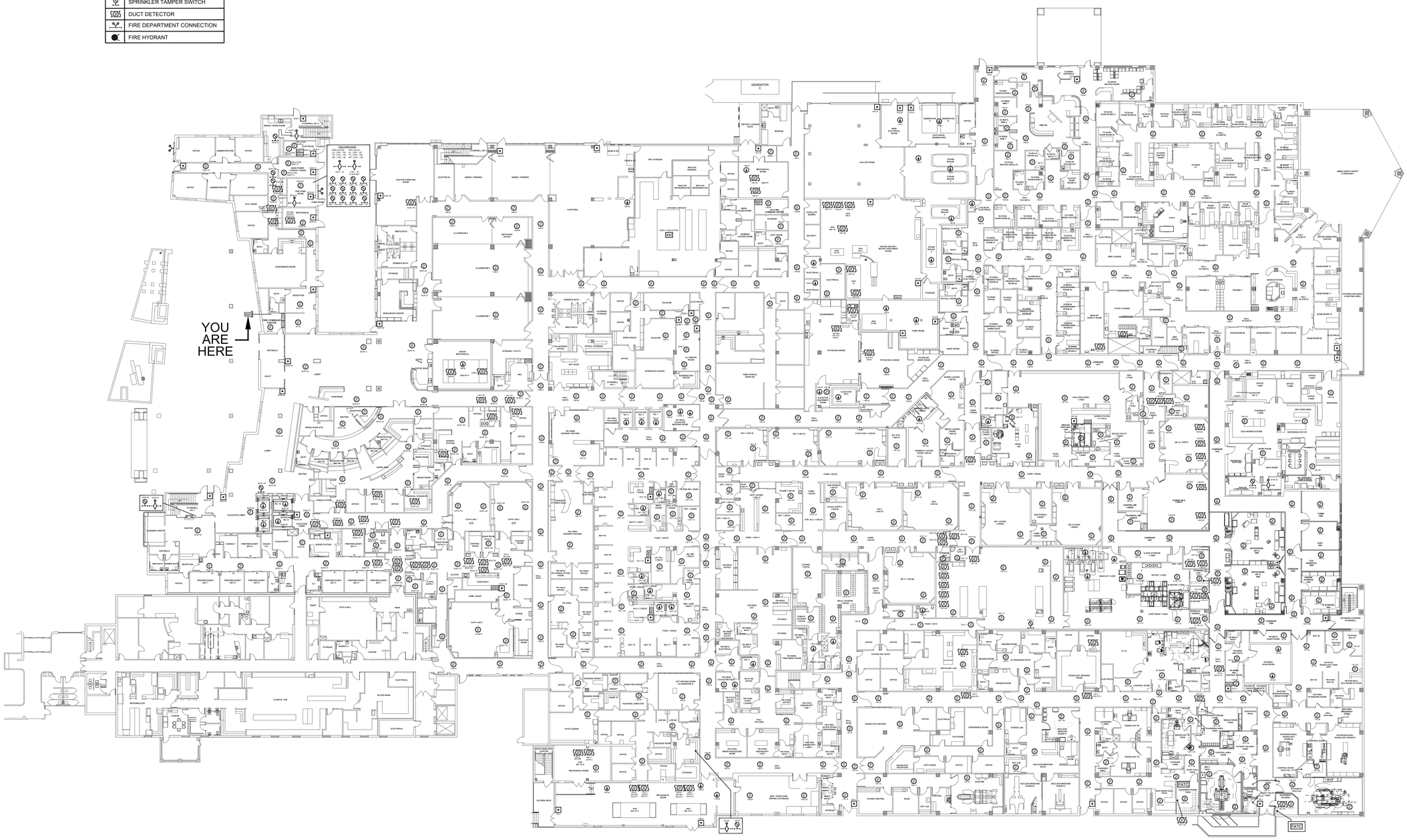
RSN: 1668225
Permit # 2022-2234529-CT
Sheet 9 of 29

AS OF: 09/21/2022

THE MEDICAL CENTER OF AURORA
1501 S. POTOMAC ST
AURORA, COLORADO 80012

LEGEND:

FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
ANN	GRAPHIC ANNUNCIATOR
MAP	GRAPHIC ZONE MAP
	SMOKE DETECTOR
	HEAT DETECTOR
	MANUAL PULL STATION
KH	KITCHEN HOOD SYSTEM
	SPRINKLER WATERFLOW VALVE
	SPRINKLER TAMPER SWITCH
	DUCT DETECTOR
	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT



Johnson Controls
AURORA (303) 355-0500

The Medical Center of Aurora
HealthONE

Johnson Controls
DISTRICT 1-415
14101 E. EASTON AVE
AURORA, CO 80017
SERVICE: 303-355-0500
PHONE: 303-326-0500
FAX: 303-355-0615

NICET CERTIFICATION INFORMATION

NANCY S. WILTSIE
NICET Fire Alarm, III
Certification #93727
Valid Through: 03/01/24

Nancy S Wiltsie
September 22, 2022

THE MEDICAL CENTER OF AURORA - SOUTH OR 4 RENOVATION

THE MEDICAL CENTER OF AURORA
1501 SOUTH POTOMAC STREET
AURORA, COLORADO 80012

Revisions shown with A symbol

ISSUE LOG				
MARK	DATE	CAD	CHK	DESCRIPTION

FOR PERMIT

DRAWN BY:	CCD
CHECKED BY:	CBR
ISSUE DATE:	9/6/22
JOB #:	
PROJECT #:	419-650218804

JOHNSON CONTROLS © 2022

SYSTEM:
FIRE ALARM SYSTEM

SHEET:
STATIC GRAPHIC MAP AT FIRE COMMAND CENTER 1C-1013A

FA-801

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30" x 42" Arch E1 Size

RSN: 1668225
Permit # 2022-2234529-CT
Sheet 10 of 29

Johnson Controls
14200 E. Exposition Avenue
Aurora, Colorado 80012

www.simplexgrinnell.com

Tele: (303) 355-0500
Fax: (303) 355-0615

Fire Alarm
Product Data Submittal for:

The Medical Center of Aurora - South
OR 4 Renovation
1501 S Potomac Street
Aurora, Colorado 80012

Prepared for:

Odin Electric
2120 South Ash Street, Unit 200
Denver, Colorado 80222

Johnson Controls
14200 E. Exposition Avenue
Aurora, Colorado 80012
Sales: (303) 355-0500
Service: (303) 355-0500
Fax: (303) 355-0615

PROJECT:	The Medical Center of Aurora - South OR 4 Renovation
PREPARED FOR:	Odin Electric

TYPE:	***DESCRIPTION:***
4098-9714	TRUEALARM PHOTO SMOKE SENSOR (FOR REFERENCE ONLY)
4098-9733	TRUEALARM HEAT SENSOR
4098-9792	TRUEALARM SENSOR BASE (FOR REFERENCE ONLY)
49VO-APPLW	VO APPLIANCE ONLY WALL MT (FOR REFERENCE ONLY)
49MP-AVVOWR	AV/VO MOUNTING PLATE, WALL MT, RED (FOR REFERENCE ONLY)
49VOC-WRFIRE	VO COVER, WALL MT, RED, FIRE (FOR REFERENCE ONLY)
49LENS-RED	NOTI APPL RED LENS ONLT KIT (FOR REFERENCE ONLY)

Features

TrueAlarm analog sensing provides the following features

- Digital transmission of analog sensor values using IDNet or MAPNET II two-wire communications

For use with the following Simplex products

- 4007ES, 4010, 4010ES, 4100ES, and 4100U Series control units ; and 4008 Series control units with reduced feature set (refer to data sheet *S4008-0001* for details)
- 4020, 4100, and 4120 Series control units, Universal Transponders, and 2120 TrueAlarm CDTs equipped for MAPNET II operation

Fire alarm control unit provides the folloing features

- Peak value logging with accurate analysis of each sensor for individual sensitivity selection
- Sensitivity monitoring meets NFPA 72 sensitivity testing requirements; automatic individual sensor calibration check verifies sensor integrity
- Automatic environmental compensation, multi-stage alarm operation, and display of sensitivity directly in percent for each foot
- Display and print detailed sensor information in plain English language

Photoelectric smoke sensors provide the following features

- Sensitivity levels from 0.2% to 3.1%. See TrueAlarm sensors for more information.

Heat sensors have these features

- Three fixed temperature sensing thresholds: 135°F, 155°F and 190°F
- Rate-of-rise temperature sensing
- Utility temperature sensing
- Listed to UL 521 and ULC-S530

General features

- Ceiling or wall mounting
- Listed to UL 268 7th Edition and ULC-S529
- NEMA 1 rated. See TrueAlarm analog sensing product selection chart for more information.
- Louvered smoke sensor design enhances smoke capture by directing flow to chamber; entrance areas are minimally visible when ceiling mounted
- Designed for EMI compatibility
- Magnetic testing
- Different bases support a supervised or unsupervised output relay, or a remote LED alarm indicator

Additional base reference

- For isolator bases, refer to data sheet *S4098-0025*
- For sounder bases, refer to data sheet *S4098-0028*
- For photo/heat sensors, refer to data sheet *S4098-0024* , single address and *S4098-0033* , dual address

Description

Digital communication of analog sensing

TrueAlarm analog sensors provide an analog measurement digitally communicated to the host control panel using Simplex addressable communications. The control unit analyses the data, determines an average value and stores it. Comparing the sensor's present value against its average value and time, determines an alarm or other abnormal condition.

Intelligent data evaluation

Monitoring each sensor's average value provides a continuously shifting reference point. A software filtering process compensates for environmental factors, such as dust and dirt, and component aging, to provide an accurate reference for evaluating new activity. This filtering reduces the probability of false or nuisance alarms caused by shifts in sensitivity, either up or down.

Control unit selection

The control unit stores peak activity for each sensor to assist in evaluating specific locations. The host control unit determines the alarm set point for each TrueAlarm sensor, selectable as more or less sensitive as the individual application requires.

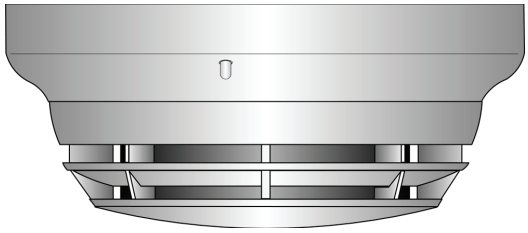


Figure 1: 4098-9714 TrueAlarm photoelectric sensor mounted in base

Timed/multi-stage selection

You can program the sensor alarm set points for timed automatic sensitivity selection, such as more sensitive at night, less sensitive during day. You can program the control unit to provide multi-stage operation for each sensor.

Sensor alarm and trouble LED indication

Each sensor base's LED pulses to indicate communications with the unit. If the control unit determines a sensor is in alarm, is dirty, or has some other type of trouble, the details are annunciated at the control unit and the sensor's base LED will turn on steadily. During a system alarm, the control unit will control the LEDs such that an LED indicating a trouble will return to pulsing to help identify the alarmed sensors.

TrueAlarm sensor bases and accessories

Sensor base features

Base mounted address selection

- Address remains with its programmed location
- Accessible from front, DIP switch under sensor

General features

- Automatic identification provides default sensitivity when substituting sensor types
- Integral red LED for power-on, pulsing, or alarm or trouble, steady on
- Locking anti-tamper design mounts on standard outlet box
- Magnetically-operated functional test

* These products have been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listings 7272-0026:218, 7271-0026:231, 7270-0026:216, and 7300-0026:217 for allowable values and/or conditions concerning material presented in this document. Additional listings may be applicable, contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.

Sensor bases

4098-9792, standard sensor base

4098-9789, sensor base with wired connections

- 2098-9808 remote LED alarm indicator or 4098-9822 relay (relay is unsupervised and requires separate 24 VDC)

Supervised relay bases not compatible with 2120 CDT:

- **4098-9791, 4-wire sensor base,** use with remote or locally mounted 2098-9737 relay, requires separate 24 VDC
- **4098-9780, 2-wire sensor base,** use with remote or locally mounted 4098-9860 relay, no separate power required
- Supervised relay operation is programmable and can be manually operated from control unit
- Includes wired connections for remote LED alarm indicator **or** 4098-9822 relay, relay is unsupervised and requires separate 24 VDC

Sensor base options

2098-9737, remote or local mount supervised relay

- DPDT contacts for resistive/suppressed loads
- power limited rating of 3 A at 28 VDC
- non-power limited rating of 3 A at 120 VAC, requires external 24 VDC coil power

4098-9860, remote or local mount supervised relay

- SPDT dry contacts, power limited rating of 2 A at 30 VDC, resistive; non-power limited rating of 0.5 A at 125 VAC, resistive

4098-9822, LED annunciation relay

- Activates when base LED is on steady, indicating local alarm or trouble
- DPDT contacts for resistive/suppressed loads, power limited rating of 2 A at 28 VDC; non-power limited rating of 1/2 A at 120 VAC, (requires external 24 VDC coil power)

4098-9832, adapter plate

- Required for surface or semi-flush mounting to 4 in. square electrical box and for surface mounting to 4 in. octagonal box
- Can be used for cosmetic retrofitting to existing 6 3/8 in. diameter base product

2098-9808, remote red LED alarm indicator

- Mounts on single gang box

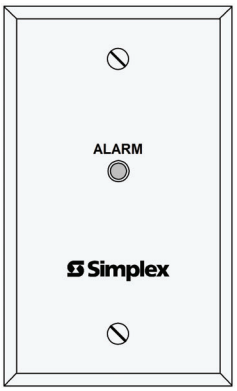


Figure 2: Remote red LED alarm indicator

Description

TrueAlarm sensor bases contain integral addressable electronics that constantly monitor the status of the detachable photoelectric or heat sensors. Each sensor's output is digitized and transmitted to the system fire alarm control unit every four seconds.

You can easily interchange different TrueAlarm sensor types to meet specific location requirements. This feature allows intentional sensor substitution during building construction. When conditions are temporarily dusty, you can install heat sensors without reprogramming the control unit, as covering smoke sensors causes them to be disabled. Although the control unit will indicate an incorrect sensor type, the heat sensor will operate at a default sensitivity providing heat detection for building protection at that location.

Mounting reference

Electrical Box Requirements: (boxes are by others)

Without relay in the box: 4" octagonal or 4" square, 1-1/2" deep; single gang, 2" deep

With relay in the box : 4" octagonal or 4" square, 1-1/2" deep, with 1-1/2" extension ring

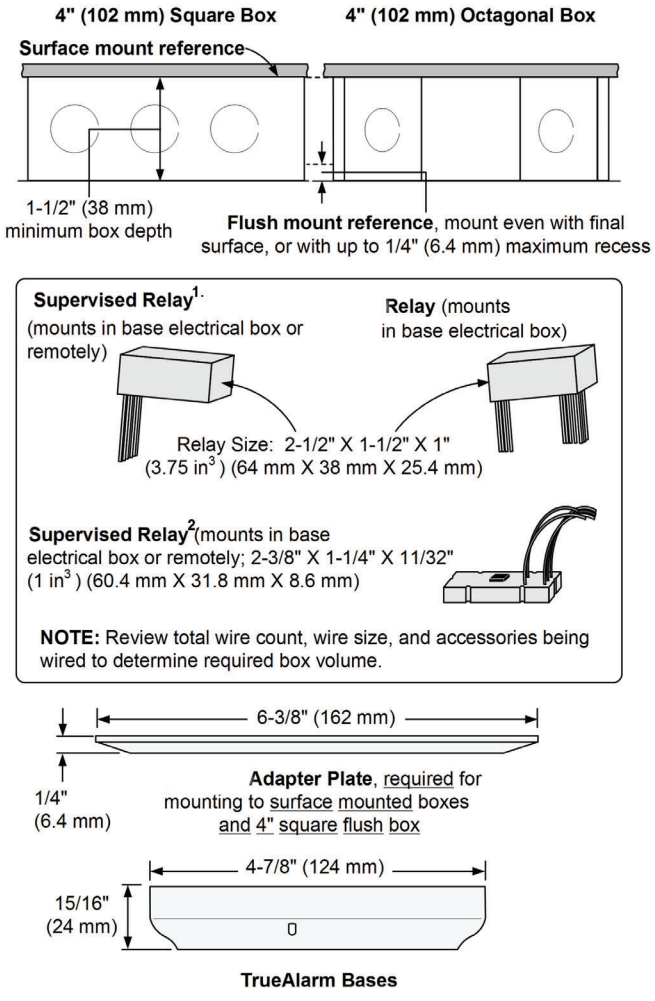


Figure 3: Mounting reference

Table 1: Product mounting - SKU reference

Product	SKU
Relay	4098-9822
Supervised relay	Example 1 2098-9739 Example 2 4098-9860
Adapter plate	4098-9832
TrueAlarm bases	4098-9780, 4098-9789, 4098-9791, 4098-9792

TrueAlarm sensors

Features

- Sealed against rear air flow entry
- Interchangeable mounting
- EMI/RFI shielded electronics
- Heat sensors:
  - Selectable rate compensated, fixed temperature sensing with or without rate-of-rise operation
  - Rated spacing distance between sensors:

Fixed Temp. Setting	UL and ULC Spacing	FM Spacing, Either Fixed Temperature Setting
135°F (57.2°C) 190°F (88°C)	60 ft x 60 ft (18.3 m)	20 ft x 20 ft (6.1 m) for fixed temperature only; RTI = Quick
155°F (68°C)	40 ft x 40 ft (12.2 m)	50 ft x 50 ft (15.2 m) for fixed temperature with either rate-of-rise selection; RTI = Ultra Fast

Note: 190°F (88°C) ratings apply only to the 4098-9734 sensor.

Smoke sensors

- Photoelectric technology sensing
- 360° smoke entry for optimum response
- Built-in insect screens

4098-9714 photoelectric sensor

TrueAlarm photoelectric sensors use a stable, pulsed LED light source and a silicon photodiode receiver to deliver consistent and accurate low power smoke sensing. There are three user-selectable sensitivities for special applications for each individual sensor: 0.2%, 0.5%, and 1% for each foot. Standard sensitivity is 1.25% to 3.1% for each foot. The fire alarm control unit runs an algorithm that can vary the sensitivity for normal applications between 1.25% and 3.1% for each foot.

Note: Fixed sensitivity settings higher than 1.0% for each foot are not UL268 7th Edition compliant.

The sensor head design provides 360° smoke entry for optimum response to smoke from any direction. Due to its photoelectric operation, air velocity is not normally a factor, except for impact on area smoke flow.

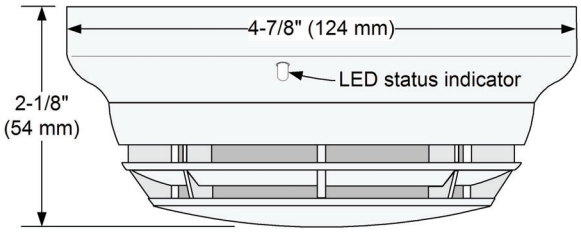


Figure 4: 4098-9714 photoelectric sensor with base

4098-9733 and 4098-9734 heat sensors

TrueAlarm heat sensors are self-restoring and provide rate-compensated, fixed temperature sensing, you can select with or without rate-of-rise temperature sensing. Due to its small thermal mass, the sensor accurately and quickly measures the local temperature for analysis at the fire alarm control unit.

You can select rate-of-rise temperature detection at the control unit for either 15°F or 20°F, (8.3°C or 11.1°C) for each minute. Fixed temperature sensing is independent of rate-of-rise sensing and you can program it to operate at 135°F or 155°F (57.2°C or 68°C). The 4098-9734 sensor provides an additional 190°F (88°C) set point.

In a slowly developing fire, the temperature may not increase rapidly enough to operate the rate-of-rise feature. However, an alarm will be initiated when the temperature reaches its rated fixed temperature setting.

You can program TrueAlarm heat sensors as a utility device to monitor for temperature extremes in the range of 32°F to 155°F (0°C to 68°C). This feature can provide freeze warnings, or alert you to HVAC system problems. Refer to panel specifications for availability.

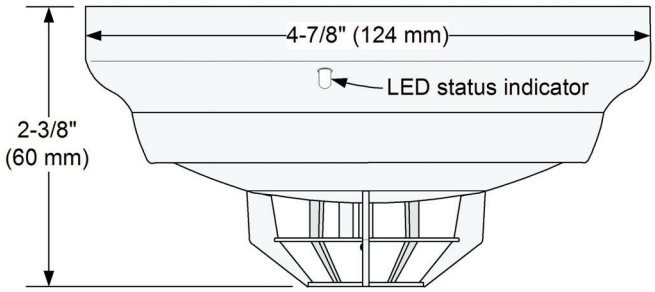


Figure 5: 4098-9733 heat sensor with base

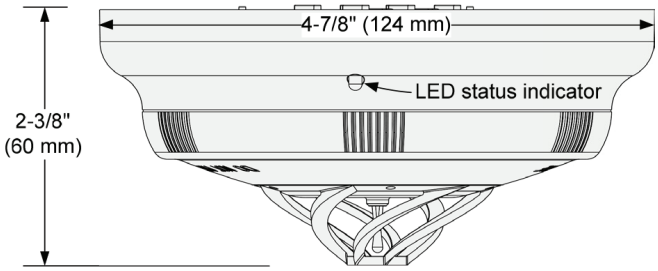


Figure 6: 4098-9734 high temperature heat sensor with base

WARNING: In most fires, hazardous levels of smoke and toxic gas can build up before a heat detection device would initiate an alarm. In cases where Life Safety is a factor, the use of smoke detection is highly recommended.

Application reference

Sensor locations should be determined only after careful consideration of the physical layout and contents of the area to be protected. Refer to NFPA 72, ***the National Fire Alarm and Signaling Code***. On smooth ceilings, a smoke sensor spacing of 30 ft (9.1 m) can be used as a guide.

For detailed application information including sensitivity selection, refer to *Installation Instructions 574-709*.

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TrueAlarm analog sensing product selection chart

Table 2: TrueAlarm sensor bases (for use with sensors 4098-9714 and 4098-9733)

SKU	Color	Description	Compatibility	Mounting requirements
4098-9792 GSA4098-9792	White	Standard sensor base	No options	4 in. octagonal or 4 in. square box, 1 1/2 in. min. depth; or single gang box, 2 in. min. depth
4098-9776	Black			
4098-9789 4098-9789IND GSA4098-9789	White	Sensor base with connections for remote LED alarm indicator **or** unsupervised relay	2098-9808 remote alarm indicator or 4098-9822 unsupervised relay	4 in. octagonal or 4 in. square box **Note:** Box depth requirements depend on total wire count and wire size, see Table 4 for reference.
4098-9775	Black			
4098-9791 **Note:** NOT compatible with the 2120 CDT	White	4-wire sensor supervised relay base with connections for LED indicator or unsupervised relay	2098-9737 supervised remote relay	
			2098-9808 remote alarm indicator or 4098-9822 unsupervised relay	
4098-9780 GSA4098-9780 **Note:** NOT compatible with the 2120 CDT	White	2-wire sensor supervised relay base with connections for LED indicator or unsupervised relay	4098-9860 supervised remote relay	
			2098-9808 remote alarm indicator or 4098-9822 unsupervised relay	

Note: SKU numbers ending in IND are assembled in India. SKU numbers with GSA prefix are assembled in the USA.

Refer to *Application Manual 574-709* and *Installation Instructions 574-707* for additional information.

Table 3: TrueAlarm sensors

SKU	Color	Description	Compatibility	Mounting requirements
4098-9714 4098-9714-IND GSA4098-9714	White	Photoelectric smoke sensor	Bases 4098-9775, 4098-9776, 4098-9792, 4098-9789, 4098-9791, and 4098-9780	Refer to base requirements
4098-9774	Black			
4098-9733 GSA4098-9733	White	Heat sensor		
4098-9778	Black			
4098-9734 GSA4098-9734	White	High temperature heat sensor		

Note:

- All of these SKUs are NEMA 1 rated.
- The 4098-9734 Heat Sensor is compatible with IDNet on the 4100ES, 4010ES, and 4007ES only.
- SKU numbers with GSA prefix are assembled in the USA.

Table 4: TrueAlarm sensor/base accessories

SKU	Description	Compatibility	Mounting requirements
2098-9737	Supervised relay, mounts remote or in base electrical box	For use with 4098-9791 base	Remote mounting requires 4 in. octagonal or 4 in. square box, 1 1/2 in. minimum depth Base mounting requires 4 in. octagonal box, 2 1/8 in. deep with 1 1/2 in. extension ring
4098-9860	Supervised relay, mounts remote or in base electrical box	For use with 4098-9780 base	
2098-9808	Remote red LED alarm indicator on single gang stainless steel plate	Bases 4098-9789, 4098-9791, and 4098-9780	Single gang box, 1 1/2 in. minimum depth
4098-9822	Unsupervised relay, tracks base led status. **Note:** Mounts only in base electrical box.	Bases 4098-9789, 4098-9791, and 4098-9780	4 in. octagonal box, 2 1/8 in. deep with 1 1/2 in. extension ring
4098-9832	Adapter plate	Bases 4098-9792, 4098-9789, 4098-9791, and 4098-9780	Required for surface or semi-flush mounted 4 in. square box and for surface mounted 4 in. octagonal box

Note: 2098-9808 is NEMA 1 rated.

4098-9714 & 4098-9792 ARE FOR REFERENCE ONLY
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Specifications

Table 5: General operating specifications

Specification		Rating
Communications and sensor supervisory power		IDNet or MAPNET II communications, auto-selected, one address for each base
Communications connections		Screw terminals for in/out wiring, 18 to 14 AWG, 0.82 mm^2 to 2.08 mm^2
Remote LED alarm indicator current		1 mA typical, no impact to alarm current
Remote LED alarm indicator and relay connections		Color coded wire leads, 18 AWG, 0.82 mm^2
UL listed operating temperature range		32°F to 100°F, 0°C to 38°C
Operating temperature range	with 4098-9733 Heat Sensor	32°F to 122°F, 0°C to 50°C
	with 4098-9714 Smoke Sensor	15°F to 122°F, -9°C to 50°C
	with 4098-9734 Heat Sensor	32°F to 150°F, 0°C to 66°C
Storage temperature range		0°F to 140°F, -18°C to 60°C
Humidity range		10% to 95% RH
4098-9714 smoke sensor air velocity rating		0 to 4000 ft/min, 0 to 1220 m/min
Housing color		Frost white or black

Table 6: 4098-9791 Base with supervised remote relay 2098-9737

Specification	Rating
Externally supplied relay coil voltage	18 VDC to 32 VDC, nominal 24 VDC
Supervisory current	270 µA, from 24 VDC supply
Alarm current with 2098-9737 relay	28 mA, from 24 VDC supply
Note: See Sensor base options for contact ratings.	

Table 7: 4098-9780 Base with supervised remote relay 4098-9860

Specification	Rating
Power	Supplied from communications

Table 8: 4098-9822 Unsupervised relay, requirements for bases 4098-9789, 4098-9791, and 4098-9780

Specification	Rating
Externally supplied relay coil voltage	18 VDC to 32 VDC, nominal 24 VDC
Supervisory current	Supplied from communications
Alarm current	13 mA from separate 24 VDC supply
Note: See Sensor base options for contact ratings.	

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*UL, ULC, CSFM Listed; FM Approved**

TrueAlert ES Addressable Notification Appliances

Visible Notification Appliances, Wall Mount Multi-Candela Strobes, Model Series 49VO

Features

Individually addressed and controlled multi-candela TrueAlert ES V/O (visible only) notification appliances provide:

- Multi-candela xenon strobe with synchronized 1 Hz flash rate and with intensity ***programmable from the control panel*** or jumper selected as 15, 30, 75, 110, 135, or 185 cd
- Advanced addressable notification controlled by **IDNAC SLCs** providing *regulated 29 VDC* allowing strobes to operate with lower current even under battery backup
- Wiring supervision to each appliance allowing "T-tapped" connections for Class B circuits to simplify wiring (Class A circuits require in/out wiring)
- *Self-Test Mode* allows an on-board sensor to detect the strobe output and then report its status to the control panel
- *TrueAlert Device Reports* at the control panel detailing appliance point ID, custom label, type, and candela setting
- *Magnet Test diagnostics* to assist checkout and testing of appliances and wiring and *Electrical test point access* without removing cover
- Compatibility with ADA requirements; (refer to Installation Reference)
- Compatibility with legacy TrueAlert addressable systems for upgrade and replacement (see TrueAlert ES Strobe LEGACY Compatibility Reference)
- Listed to UL Standard 1971 and ULC Standard S526

LED Indicator and Magnet Test feature:

- Appliance LED can be selected to display each polling cycle to indicate appliance supervision
- When the controller is in diagnostic mode, the Magnet Test pulses the LED to indicate appliance address and can be set to also briefly flash the strobe

Mechanical design features include:

- Rugged, high impact, flame retardant thermoplastic housing in red with white letters or white with red letters, with clear lens, available with FIRE, ALERT, FEU, FEU/FIRE, or blank lettering
- Separate covers are available to change appliance type on-site or for replacement; covers can be easily removed without disturbing the connected housing and avoiding trouble conditions
- A separate mounting plate allows wiring to be completed before appliance is mounted; use with single gang, double gang, or 4-inch square box, flush or surface mount
- In/out wiring terminals for 18 AWG to 12 AWG
- Optional mounting adapters are available to cover surface mounted electrical boxes and to adapt to Simplex, 2975-9145 boxes
- Optional red wire guards (see Product Selection)

Description

TrueAlert ES addressable strobes

TrueAlert ES addressable strobes are individually addressed visible notification appliances that receive power, supervision, and control signals from the Simplex fire alarm control panel providing **IDNAC** Signaling Line Circuits (SLCs). (See IDNAC SLC Controller Compatibility Reference.)

Strobe Application Reference

Proper selection of visible notification is dependent on occupancy, location, local codes, and proper applications of: the ***National Fire Alarm Code*** (NFPA 72), ANSI A117.1; the appropriate model building code: BOCA, ICBO, or SBCCI; and the application guidelines of the Americans with Disabilities Act (ADA).



Figure 1: TrueAlert ES Addressable Strobes are Available in Red with White Lettering and White with Red Lettering

TrueAlert ES Operation Advantage

TrueAlert ES addressable appliances on IDNAC SLCs provide separate visible (and audible) notification using a single two-wire circuit that also *confirms connection to the individual notification appliance's electronic circuit*. This operation increases circuit supervision integrity by providing supervision that extends beyond the appliance wiring connections.

Reduced current allows efficient IDNAC SLC operation. With *IDNAC SLCs*, a *constant* 29 VDC source voltage is maintained, even during battery standby, allowing strobes to operate at higher voltage with lower current and ensuring a consistent current draw and voltage drop margin under both primary power and secondary battery standby. Efficiencies include wiring distances up to 2 to 3 times farther than with conventional notification, or support for more appliances per IDNAC SLC, or use of smaller gauge wiring, or combinations of these benefits, all providing installation and maintenance savings with high assurance that appliances that operate during normal system testing will operate during worst case alarm conditions.

Reducing Installation and Testing Time. With separate controls on the same two-wire SLC, installation time and expense for both retrofit and new construction can be significantly reduced. When Class B wiring is used, ***wiring can be "T" tapped***, allowing more savings in distance, wire, conduit (size and utilization), and overall installation efficiency. Use of Self-Test and Magnet Test features improves installation efficiency. TrueAlert device reports conveniently identify information about each connected appliance.

* These products have been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7125-0026:0373 for allowable values and/or conditions concerning material presented in this document. Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.

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TrueAlert ES Diagnostics

Test Features. When IDNAC SLCs are in diagnostic mode, ***Self-Test*** and ***Magnet Test*** features provide individual appliance testing. With the ***Self-Test*** feature, ***appliance operation can be confirmed without leaving the control panel***. Additionally, each appliance's LED can be selected to pulse when it receives a supervision poll during normal operation.

Self-Test Details. Selecting Self-Test Mode from the control panel allows on-board sensors, depending on the device type, to detect its own strobe and/or horn output and then report their status to the control panel. Operation is by selected VNAC appliance groups and is either automatic (all briefly simultaneously activated) or individually activated by applying a magnet (Refer to control panel data sheet for more Self-Test information, see IDNAC SLC Controller Compatibility Reference).

Silent Appliance Magnet Test. In this test mode, in response to application of a magnet, the appliance LED pulses sequentially to conveniently indicate the appliance's address.

Operational Appliance Magnet Test. In this test mode, after the address is indicated by pulsing the appliance LED, the strobe will briefly flash to indicate proper operation.

TrueStart Instrument Two (TSIT). The 2nd generation of the Simplex TrueStart Test Instrument adds testing of IDNAC SLC wiring and TrueAlert ES appliances to its ability to test IDCs, NACs, and IDNet communications ***before connection to the control panel***. Please contact your local Simplex representative for additional information.

TrueAlert Addressable Wiring Isolator

Isolator Model 4905-9929 is available for remote mounting on TrueAlert addressable circuits to isolate short circuited wiring from functioning wiring. (See data sheet *S4905-0001* .)

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Installation Reference

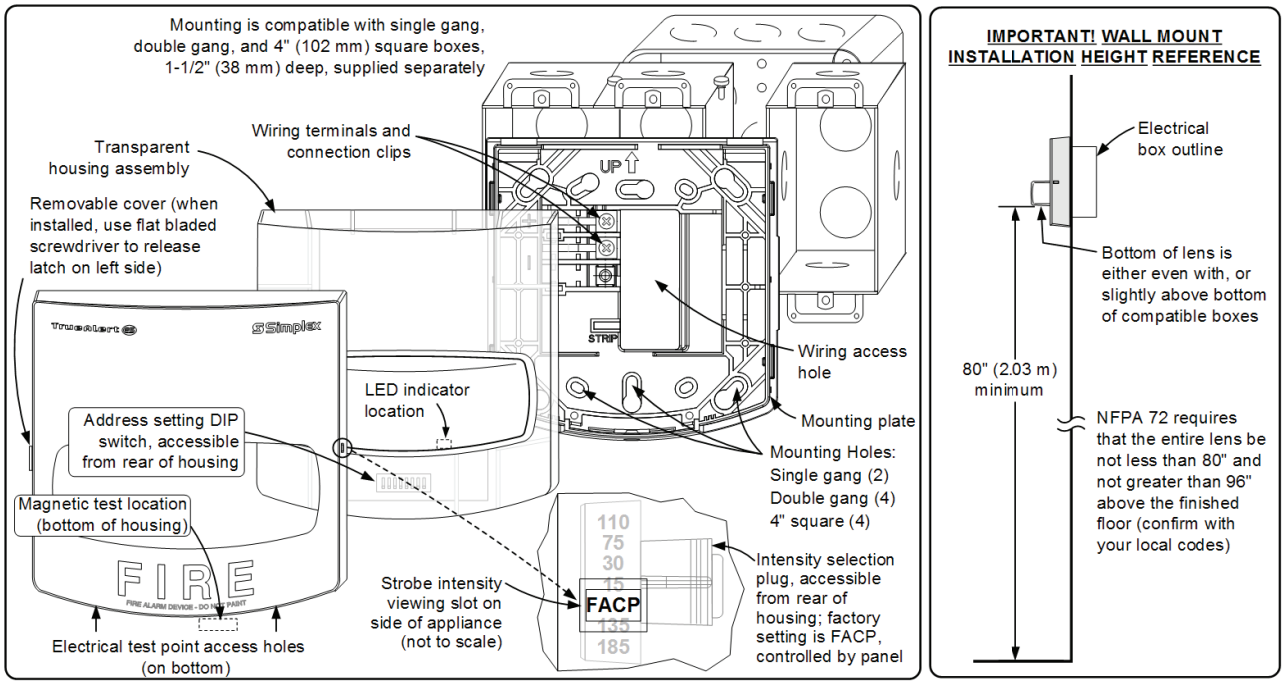


Figure 2: Installation Reference

Adapter Plate and Surface Mount Installation Reference

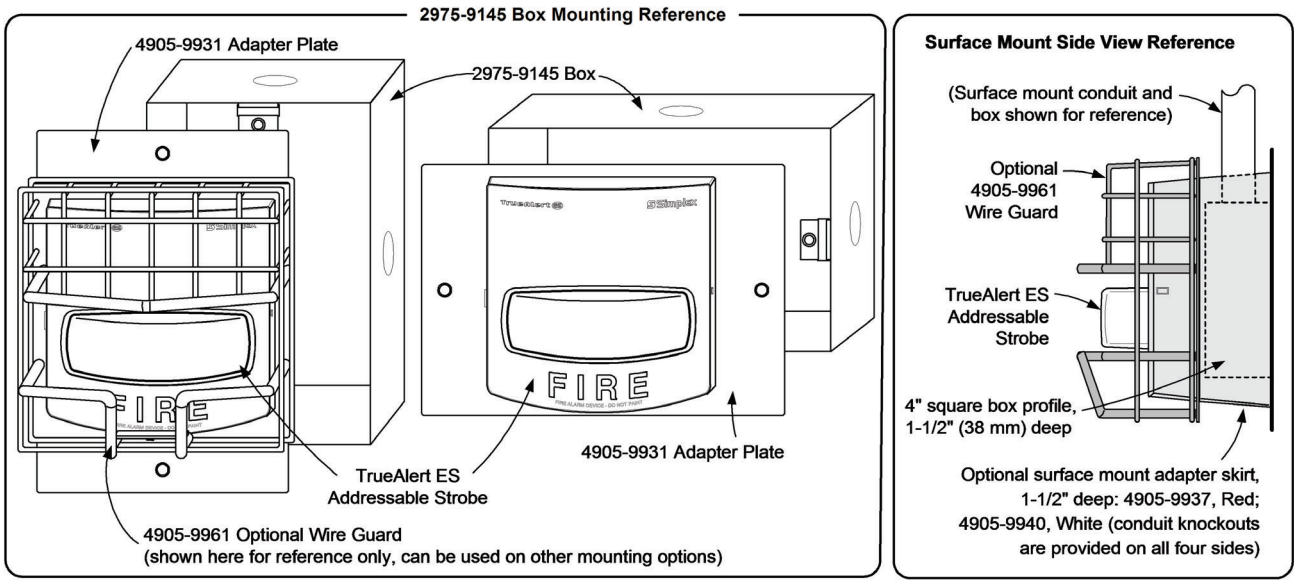


Figure 3: Adapter Plate and Surface Mount Installation Reference

The 2975-9145 box is shown mounted to the 4905-9931 Adapter Plates. Also shown is the optional surface mount adapter skirt (available in red 4905-9937 or white 4905-9940)., as well as the 4905-9961 optional wire guard.

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Product Selection

Table 1: TrueAlert ES Wall Mount Addressable Strobes

SKU*	Cover Color	Wording	Lens Color
49VO-WRF 49VO-WRF-BA	Red	FIRE	Clear
49VO-WWF 49VO-WWF-BA	White		
49VO-WRA 49VO-WRA-BA	Red	ALERT	
49VO-WWA 49VO-WWA-BA	White		
49VO-WRQ	Red	FEU	
49VO-WWQ	White		
49VO-WRS 49VO-WRS-BA	Red	Simplex logo only	
49VO-WWS 49VO-WWS-BA	White		
49VO-APPLW 49VO-APPLW-BA	Select cover and mounting plate separately		
TrueAlert ES addressable VO (strobe) appliances include cover and matching mounting plate except as noted; Dimensions with Cover = 5 ⅛" H x 5" W x 2 ⅝" D (130 mm x 127 mm x 67 mm)			

Table 2: Separate Mounting Plate

Model	Color	Note
49MP-AVVOWR	Red	Mounting Plate **is required** when ordering model 49VO-APPLW(-BA)
49MP-AVVOWW	White	

Table 3: Separate Covers (Required when ordering model 49VO-APPLW(-BA))

SKU*	Color	Wording
49VOC-WRFIRE	Red	FIRE
49VOC-WWFIRE	White	
49VOC-WRALT	Red	ALERT
49VOC-WWALT	White	
49VOC-WRFEU	Red	FEU
49VOC-WWFEU	White	
49VOC-WRBLNG	Red	FEU/FIRE
49VOC-WWBLNG	White	
49VOC-WRS	Red	Simplex logo only
49VOC-WWS	White	

Table 4: Mounting Adapters and Wire Guard

Model	Color	Description	Dimensions
4905-9937	Red	Surface Mount Adapter Skirt	5 ⅜" H x 5 ¼" W x 1 ⅝" D (136 mm x 133 mm x 41 mm) Total depth with strobe = 4 ⅜" (111 mm)
4905-9940	White		
4905-9931	Red Adapter Plate for mounting to Simplex, 2975-9145 Box (typically for retrofit, mount vertical or horizontal)		8 5/16" x 5 ¾" x 0.060" Thick (211 mm x 146 mm x 1.5 mm)
2975-9145	Red Mounting Box, requires 4905-9931 Adapter Plate		7 ⅞" x 5 ⅛" x 2 ¾" D (200 mm x 130 mm x 70 mm)
4905-9961	Red wire guard with mounting plate, compatible with semi-flush or surface mount boxes		6 1/16" H x 6 1/16" W x 3 ⅛" D (154 mm x 154 mm x 79 mm)

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IDNAC SLC Controller Compatibility Reference

Compatible Controllers	Data Sheet Reference	Controller Output	IDNAC SLC Output Voltage	Appliance Voltage Design Reference
4100ES with EPS+ or EPS Power Supply	*S4100-0100*	IDNAC SLC	29 VDC (regulated)	23 VDC (with 6 VDC drop)
4009 IDNAC Repeater	*S4009-0004*			
4007ES with IDNAC Notification	*S4007-0002*			
4010ES with ESS Enhanced System Supply	*S4010-0011*			

TrueAlert ES Strobe Specifications

Table 5: Electrical Ratings

Specification	Rating
Typical Operating Voltage Range	23 VDC to 31 VDC, Special Application (see below for 17 VDC rating)
Supervisory Requirements	1 unit load (= 0.8 mA control panel current)
IDNAC SLC Loading	Maximum of 127 addresses per SLC, 139 unit loads

Table 6: Candela Setting

Candela	15 cd	30 cd	75 cd	110 cd	135 cd	185 cd
23 VDC RMS Current Ratings, for typical design of IDNAC Addressable SLCs (6 VDC drop)	47 mA	57 mA	100 mA	132 mA	160 mA	208 mA

Table 7: General Specifications

Temperature Range	32° to 122° F (0° to 50° C)
Humidity Range	10% to 93%, non-condensing @ 104° F (40° C)
IDNAC SLC Wiring Specifications (refer to control panel installation instructions for more information)	UTP, unshielded twisted pair recommended
	Maximum wire length allowed with "T-Taps" for Class B wiring per SLC = 10,000 ft (3048 m)
	Maximum wire length to any appliance = 4000 ft (1219 m)
Connections	Terminal blocks on mounting plate for 18 AWG to 12 AWG (0.82 mm2 to 3.31 mm2); two wires per terminal for in/out wiring
Installation Instructions	579-1031
Note: Refer to compatibility table above for fire alarm control panel and power supply operation type.	

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TrueAlert ES Strobe LEGACY Compatibility Reference

Table 8: Compatibility Reference

Compatible Controller	Data Sheet Reference	Controller Output	Available Strobe Intensity	Appliance Voltage Minimum
4100ES or 4100U with TrueAlert Power Supply	*S4100-0031*	TrueAlert Addressable SLC	15, 30, 75, and 110 cd	17 VDC
4009 TPS, Remote TrueAlert Power Supply	*S4100-0037*			
TrueAlert Addressable Controller (4009T)	*S4009-0003*			

Table 9: Electrical Ratings Reference for Retrofit Applications

Voltage Range	**17 VDC to 31 VDC, Special Application**			
Candela Setting	**15 cd**	**30 cd**	**75 cd**	**110 cd**
17 VDC RMS Current Ratings, use when connected to TrueAlert Addressable SLCs per above	62 mA	75 mA	133 mA	178 mA

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Simplex

TrueAlert ES Addressable Notification Appliances

UL, ULC, CSFM Listed;
*FM Approved**

Wall Mount Visible & Audible/Visible Notification Appliances for Emergency Communications

Features

Individually addressed and controlled multi-candela TrueAlert ES Emergency Communications appliances provide:

- Multi-candela xenon strobe with synchronized 1 Hz flash rate and with intensity ***programmable from the control panel*** or jumper selected
- Standard strobe models *with amber lens covers*, available with ALERT lettering or blank, and with red or white covers, available with 15, 30, 75, 110, or 135 cd output
- Separate lens covers are available in *amber, blue, green, and red* to configure strobes (V/O) or audible/visible (A/V) appliances (see ordering details on page 2 and candela ratings on page 4)
- Advanced addressable notification controlled by ***IDNAC SLCs*** providing ***regulated 29 VDC*** allowing strobes to operate with lower current even under battery backup
- Emergency Communications appliances are controlled separately from fire alarm appliances but both can be on the same IDNAC SLC; (only one type activates at a time, ether fire alarm or notification, not both)
- Wiring supervision to each appliance allowing "T-tapped" connections for Class B circuits to simplify wiring (Class A circuits require in/out wiring)

Provides TrueAlert ES product features:

- ***Self-Test Mode*** using on-board sensors
- ***TrueAlert Device Reports*** at the control panel
- ***Magnet Test diagnostics*** to assist checkout and test
- Compatibility with ADA requirements; (see page 3)
- Compatibility with legacy TrueAlert addressable systems for upgrade and replacement (see page 4)
- Appliance LED can be selected to display polling
- UL listed to Standard 1638 (due to non-white lens); verified by UL testing to provide light dispersion patterns of UL Standard 1971 at rated candela (no derating necessary for amber or blue lens)
- ULC listed to Standard S526

Mechanical design features include:

- Rugged, high impact, flame retardant thermoplastic housing in red with white letters or white with red letters, available with ALERT or blank lettering
- Separate covers, optional mounting adapters and red wire guards are available
- A separate mounting plate allows wiring to be completed before appliance is mounted; use with single gang, double gang, or 4-inch square box, flush or surface mount
- In/out wiring terminals for 18 AWG to 12 AWG

For clear lens TrueAlert ES appliances:

- Refer to data sheet S49VO-0001 for strobes
- Refer to data sheet S49AV-0001 for A/Vs

* These products have been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7125-0026:0373 (for 49AV-APPLW(-BA)) and 7300-0026:0374 (for color lens products) for allowable values and/or conditions concerning material presented in this document. Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.



TrueAlert ES Notification Appliances for Emergency Communications are available with ALERT or Blank

Description

TrueAlert ES addressable appliances are individually addressed and receive power, supervision, and control signals from a Simplex fire alarm control panel providing **IDNAC** Signaling Line Circuits (SLCs). (See compatibility list on page 4.)

Strobe Application Reference

Proper selection of visible notification is dependent on occupancy, location, local codes, and proper applications of: the *National Fire Alarm Code* (NFPA 72), ANSI A117.1; the appropriate model building code: BOCA, ICBO, or SBCCI; and the application guidelines of the Americans with Disabilities Act (ADA).

TrueAlert ES Operation Advantage

TrueAlert ES addressable appliances on IDNAC SLCs provide separate visible and audible notification using a single two-wire circuit that also *confirms connection to the individual notification appliance's electronic circuit*. This operation increases circuit supervision integrity by providing supervision that extends beyond the appliance wiring connections.

Reduced current allows efficient IDNAC SLC operation. With ***IDNAC SLCs***, a ***constant*** 29 VDC source voltage is maintained, even during battery standby, allowing strobes to operate at higher voltage with lower current and ensuring a consistent current draw and voltage drop margin under both primary power and secondary battery standby. Efficiencies include wiring distances up to 2 to 3 times farther than with conventional notification, or support for more appliances per IDNAC SLC, or use of smaller gauge wiring, or combinations of these benefits, all providing installation and maintenance savings with high assurance that appliances that operate during normal system testing will operate during worst case alarm conditions.

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TrueAlert ES Operation Advantage *(Cont'd)*

Reducing Installation and Testing Time. With separate controls on the same two-wire SLC, installation time and expense for both retrofit and new construction can be significantly reduced. When Class B wiring is used, *wiring can be "T" tapped*, allowing more savings in distance, wire, conduit (size and utilization), and overall installation efficiency. Use of Self-Test and Magnet Test features improves installation efficiency. TrueAlert device reports conveniently identify information about each connected appliance.

TrueAlert ES Diagnostics

Test Features. When IDNAC SLCs are in diagnostic mode, *Self-Test* and *Magnet Test* features provide individual appliance testing. With the *Self-Test* feature, *appliance operation can be confirmed without leaving the control panel.* Additionally, each appliance's LED can be selected to pulse when it receives a supervision poll during normal operation.

***Self-Test* Details.** Selecting Self-Test Mode from the control panel allows on-board sensors, depending on the device type, to detect its own strobe and/or horn output and then report their status to the control panel.

TrueAlert ES Diagnostics *(Continued)*

***Self-Test* Details** *(Continued)*. Operation is by selected VNAC appliance groups and is either automatic (all briefly simultaneously activated) or individually activated by applying a magnet. (Refer to control panel data sheet for more Self-Test information, see list on page 4.)

Silent Appliance Magnet Test. In this test mode, in response to application of a magnet, the appliance LED pulses sequentially to conveniently indicate the appliance's address.

Operational Appliance Magnet Test. In this test mode, after the address is indicated by pulsing the appliance LED, the strobe will briefly flash to indicate proper operation.

TrueStart Instrument Two (TSIT). The 2nd generation of the Simplex TrueStart Test Instrument adds testing of IDNAC SLC wiring and TrueAlert ES appliances to its ability to test IDCs, NACs, and IDNet communications *before connection to the control panel*. Please contact your local Simplex representative for additional information.

TrueAlert Addressable Wiring Isolator

Isolator Model 4905-9929 is available for remote mounting on TrueAlert addressable circuits to isolate short circuited wiring from functioning wiring. (See data sheet S4905-0001.)

Product Selection

TrueAlert ES Wall Mount Addressable Strobes (V/O) with Color Lens

Model*	Cover Color	Lettering	Lens Color	Description
49VO-WRA-A(-BA)	Red	ALERT	Amber	Complete assembly with amber lens cover, housing cover with color and lettering as indicated, and matching mounting plate; Dimensions with cover = 5 ⅛" H x 5" W x 2 ⅝" D (130 mm x 127 mm x 67 mm
49VO-WWA-A(-BA)	White	ALERT	Amber	
49VO-WWS-A-BA	White	Blank	Amber	

Configured Appliance Selection (Lens covers include correct intensity selection plug)

Model*	Description	
49VO-APPLWE(-BA)	V/O Housing for color lens Emergency Communications Appliances	**Order lens cover, housing cover, and mounting plate separately**
49AV-APPLW(-BA)	A/V Housing (has setting on-board for selecting color lens applications)	

Color Lens Covers	49LENS-AMBER	49LENS-BLUE	49LENS-GREEN	→ 49LENS-RED

Separate Mounting Plate (**Required** when ordering model 49VO-APPLWE(-BA) or 49AV-APPLW(-BA))

Model*	Color	Model*	Color
49MP-AVVOWR	Red	49MP-AVVOWW	White

*** Note:** (-BA) indicates model is available either with or without the -BA suffix. Model numbers ending in -BA, APPLW and APPLWE models, and separate mounting plates are assembled in the USA.

Housing Covers (**Required** when ordering model 49VO-APPLWE(-BA) or 49AV-APPLW(-BA))

Color	V/O ALERT Lettering	V/O Blank Lettering	A/V ALERT Lettering	A/V Blank Lettering
Red	49VOC-WRALT	49VOC-WRS	49AVC-WRALT	49AVC-WRS
White	49VOC-WWALT	49VOC-WWS	49AVC-WWALT	49AVC-WWS

Mounting Adapters and Wire Guard

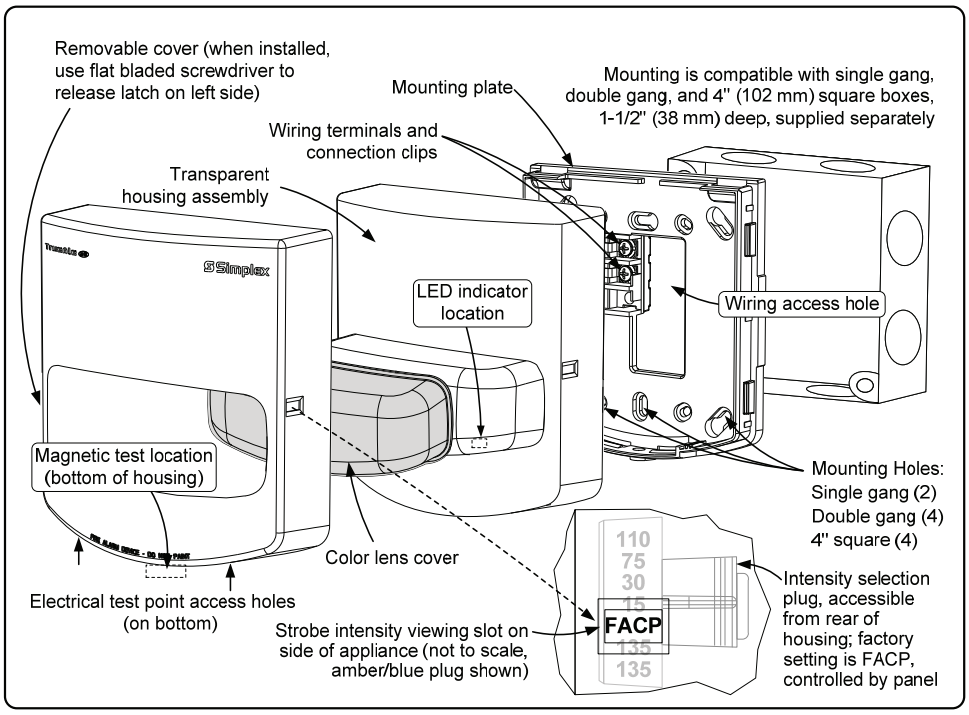
Model	Color	Description	Dimensions
4905-9937	Red	Surface Mount Adapter Skirt	5 ⅜" H x 5 ¼" W x 1 ⅝" D (136 mm x 133 mm x 41 mm) Total depth with strobe = 4 ⅜" (111 mm)
4905-9940	White	Surface Mount Adapter Skirt	5 ⅜" H x 5 ¼" W x 1 ⅝" D (136 mm x 133 mm x 41 mm) Total depth with strobe = 4 ⅜" (111 mm)
4905-9931	Red Adapter Plate for mounting to Simplex 2975-9145 Box (typically for retrofit, mount vertical or horizontal)		8 5/16" x 5 ¾" x 0.060" Thick (211 mm x 146 mm x 1.5 mm)
2975-9145	Red Mounting Box, requires 4905-9931 Adapter Plate		7 ⅞" x 5 ⅛" x 2 ¾" D (200 mm x 130 mm x 70 mm)
4905-9961	Red wire guard with mounting plate, compatible with semi-flush or surface mount boxes		6 1/16" H x 6 1/16" W x 3 ⅛" D (154 mm x 154 mm x 79 mm)

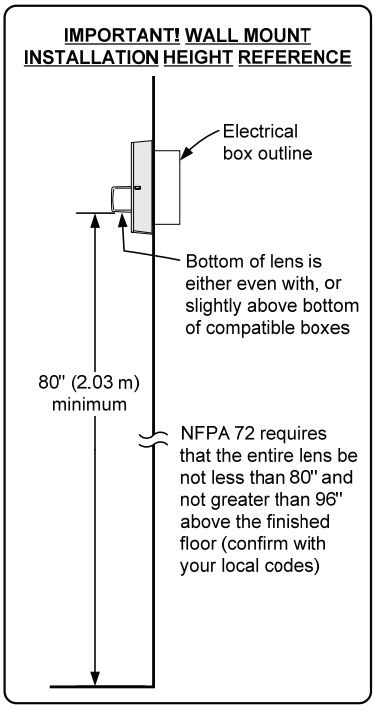
TrueAlert Device Reports Reference

Service Port — Page 1
REPORT 5 : TrueAlert Device Report — 12:34:56am TUE 27-Jan-15

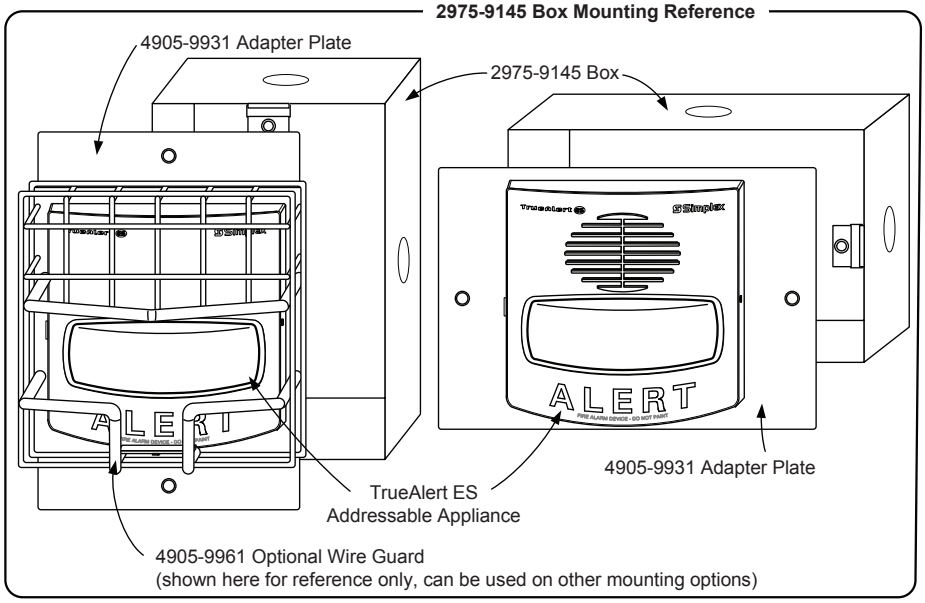
POINT ID	CUSTOM LABEL	DEVICE TYPE	CANDELA
T14-1-1	Location Label . . . up to 40 characters	V/O	15
T14-1-2	Break Room 5	A/V	110
T14-1-3	Boiler Room	A/V	75
T14-1-4	Elec. Room 7	A/V	135

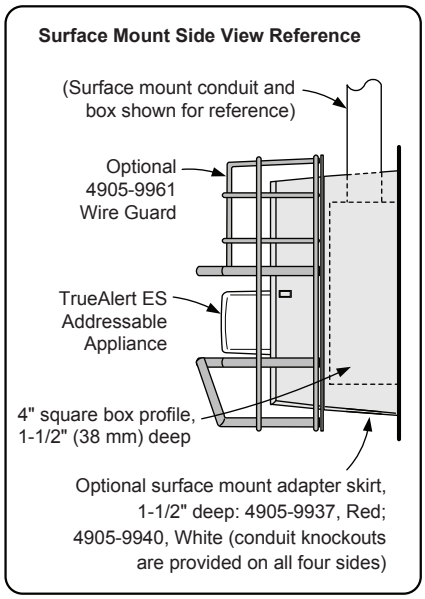
Installation Reference





Adapter Plate and Surface Mount Installation Reference





IDNAC SLC Controller Compatibility Reference

Compatible Controllers	Data Sheet Reference	Controller Output	IDNAC SLC Output Voltage	Appliance Voltage Design Reference
4100ES with EPS+ or EPS Power Supply	S4100-0100	IDNAC SLC	29 VDC (regulated)	23 VDC (with 6 VDC drop)
4009 IDNAC Repeater	S4009-0004			
4007ES with IDNAC Notification	S4007-0002			
4010ES with ESS Enhanced System Supply	S4010-0011			

TrueAlert ES with Color Lens Specifications

Electrical Ratings

Typical Operating Voltage Range		23 VDC to 31 VDC, Special Application (see below for 17 VDC rating)					
Supervisory Requirements		1 unit load (= 0.8 mA control panel current)					
IDNAC SLC Loading		Maximum of 127 addresses per SLC, 139 unit loads					
Appliance PC Board Marking Reference		**15 cd**	**30 cd**	**75 cd**	**110 cd**	**135 cd**	**185 cd**
Amber and **Blue** Lens Output Rating		**15 cd**	**30 cd**	**75 cd**	**110 cd**	**135 cd**	Not Available
Green Lens Output Rating		**10 cd**	**20 cd**	**45 cd**	**75 cd**	**95 cd**	
Red Lens Output Rating		**3 cd**	**7 cd**	**15 cd**	**30 cd**	**37 cd**	
23 VDC RMS Current Ratings, for typical design of IDNAC Addressable SLCs (6 VDC drop)	V/O	54 mA	78 mA	128 mA	184 mA	211 mA	
	A/V	66 mA	88 mA	137 mA	192 mA	219 mA	

General Specifications

Temperature Range	32° to 122° F (0° to 50° C)
Humidity Range	10% to 93%, non-condensing @ 104° F (40° C)
IDNAC SLC Wiring Specifications (refer to control panel installation instructions for more information)	UTP, unshielded twisted pair recommended
	Maximum wire length allowed with “T-Taps” for Class B wiring per SLC = 10,000 ft (3048 m)
	Maximum wire length to any appliance = 4000 ft (1219 m)
Connections	Terminal blocks on mounting plate for 18 AWG to 12 AWG (0.82 mm^2 to 3.31 mm^2); two wires per terminal for in/out wiring
Installation Instructions	579-1052, *TrueAlert ES Addressable Emergency Indoor Notification Appliances* 579-1046, *TrueAlert ES A/V and V/O Colored Lens Kit Installation Instructions*

Notes: Refer to compatibility table above for fire alarm control panel and power supply operation type.

TrueAlert ES Strobe with Color Lens LEGACY Compatibility Reference

Compatible Controller	Data Sheet Reference	Controller Output	Available Strobe Intensity	Appliance Voltage Minimum
4100ES or 4100U with TrueAlert Power Supply	S4100-0031	TrueAlert Addressable SLC	15, 30, 75, and 110 cd	17 VDC
4009 TPS, Remote TrueAlert Power Supply	S4100-0037			
TrueAlert Addressable Controller (4009T)	S4009-0003			

Electrical Ratings Reference for Retrofit Applications

Voltage Range		17 VDC to 31 VDC, Special Application					
Appliance PC Board Marking Reference		**15 cd**	**30 cd**	**75 cd**	**110 cd**	**135 cd**	**185 cd**
Amber and **Blue** Lens Output Rating		**15 cd**	**30 cd**	**75 cd**	**110 cd**	Not Available	
Green Lens Output Rating		**10 cd**	**20 cd**	**45 cd**	**75 cd**		
Red Lens Output Rating		**3 cd**	**7 cd**	**15 cd**	**30 cd**		
17 VDC RMS Current Ratings, use when connected to TrueAlert Addressable SLCs per above	V/O	67 mA	103 mA	171 mA	250 mA		
	A/V	79 mA	113 mA	180 mA	258 mA		

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