GENERAL SYSTEM NOTES

1) FIRE ALARM SYSTEM IS POWER LIMITED. METALLIC RACEWAY SHALL BE USED IF REQUIRED BY CODE, SPECIFICATIONS AND CONTRACT DOCUMENTS OR AHJ.
2) ALL RACEWAYS MUST BE FREE OF MOISTURE
3) REFER TO SIMPLEX FIRE ALARM DATASHEETS FOR PROPER TYPE AND SIZES OF REQUIRED DEVICE MOUNTING ELECTRICAL BOXES. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROPER INSTALLATION OF ALL DEVICES.
4) AC VOLTAGE IS NOT PERMITTED IN THE SAME RACEWAY AS FIRE ALARM WIRING.
5) UNRELATED (NON-FIRE ALARM) WIRING SHALL NOT BE IN THE SAME RACEWAY AS FIRE ALARM WIRING.
6) ALL CONTACTOR FIELD WIRING MUST ENTER TOP RIGHT AND/OR BOTTOM RIGHT OF FIRE ALARM CONTROL PANEL ONLY.
7) ZONE CIRCUITS AND SIGNAL CIRCUITS ARE ELECTRICALLY SUPERVISED. BRANCH CIRCUITS SHALL BE LOOPED TO MAINTAIN INTEGRITY OF SUPERVISED CIRCUITS—T-TAPPING OF ZONE CIRCUITS AND SIGNAL CIRCUITS IS NOT PERMITTED.
8) REFER TO FACP MODULE DIAGRAMS, INCLUDED WITH FACP, FOR SPECIFICATIONS AND INFORMATION ON INDIVIDUAL PANEL MODULES. VERIFY ALL CONNECTIONS WITH A SIMPLEX FIELD TECHNICAL REPRESENTATIVE PRIOR TO TERMINATION.
9) **ALL FIRE ALARM WIRING SHALL TEST FREE OF OPENS, SHORTS AND GROUNDS.**
10) ALL WIRING SHALL BE LABELED AND TAGGED
11) ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAKING ALL FINAL CONNECTIONS PRIOR TO JOB CHECKOUT AND FINAL TESTING BY A SIMPLEX FIELD TECHNICAL REPRESENTATIVE. CALL A MINIMUM OF 5 DAYS IN ADVANCE TO SCHEDULE A SIMPLEX TECHNICIAN AT 827-3700.
12) ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAKING ALL ARRANGEMENTS FOR INSPECTION, TEST AND CERTIFICATION OF THE FIRE ALARM SYSTEM BY ALL APPROPRIATE AUTHORITIES.
13) UPON WRITTEN REQUEST, SIMPLEX WILL PROVIDE WRITTEN INSTRUCTIONS REGARDING THE APPROPRIATE WIRE/CABLE FOR INSTALLATION OF THE EQUIPMENT/SYSTEM(S) IDENTIFIED IN THESE DRAWINGS. SIMPLEX SHALL NOT BE RESPONSIBLE FOR PROBLEMS OR DAMAGES RESULTING FROM THE USE OF WIRE/CABLE OTHER THAN THAT WHICH HAS BEEN IDENTIFIED IN WRITING BY SIMPLEX FOR A SPECIFIC APPLICATION.
14) ALL WIRING SHALL MEET ALL APPLICABLE NATIONAL ELECTRIC CODE ARTICLES FOR FIRE ALARM AND LOW VOLTAGE WIRING.

ARCHITECT: BECKER ARCHITECTS
KIRKLAND, WA

FIRE ALARM SYSTEM DESIGNED BY: INTERFACE ENGINEERS INC.
KIRKLAND, WA

FIRE ALARM SYSTEM INSTALLATION BY: COPPER ELECTRIC
REDMOND, WA

*EQUIPMENT FOR FIRE ALARM SYSTEM BY: SIMPLEX TIME RECORDER CO.
KIRKLAND, WA

*** THESE DRAWINGS DO NOT SUPERSEDE THE CONTRACT DRAWINGS AND SPECIFICATIONS, THEY ARE INTENDED AS A SUPPLEMENT ONLY AND MUST BE USED IN CONJUNCTION WITH THE CONTRACT DOCUMENTS. THEY DO NOT MODIFY THE CONTRACTORS OBLIGATIONS TO CONFORM TO THE PROJECTS ORIGINAL DESIGN CRITERIA.**

LEGEND

SYMBOL	DESCRIPTION	MODEL #	BACK BOX
F 1-1	MANUAL PULL STATION * SUBSCRIPT INDICATES MAPNET #	2099-9795W/ 2099-9813 TRIM	2-GANG DEEP BY EC 3" X 2" X 2.5"
F 2/2	SPEAKER/STROBE 15/75cd * SUBSCRIPT INDICATES CIRCUIT #	4903-9326	4" SQ BY EC
F 2	STROBE 15/75 cd * SUBSCRIPT INDICATES CIRCUIT #	4904-9305	SG DEEP BY EC
S 1-1	TRUEALARM SMOKE DETECTOR * SUBSCRIPT INDICATES MAPNET #	4098-9701 W/ 4098-9784 BASE	4" OCT BY EC
H 1-1	TRUEALARM HEAT DETECTOR * SUBSCRIPT INDICATES MAPNET #	4098-9732 W/ 4098-9784 BASE	4" OCT BY EC
S 1-1	DUCT SMOKE DETECTOR W/ REMOTE LED W/TEST * SUBSCRIPT INDICATES MAPNET #	4098-9706 W/ 2098-9806	SELF-CONTAINED SINGLE GANG BY EC
FS	FLOW SWITCH	BY OTHERS	BY OTHERS
TS	TAMPER SWITCH	BY OTHERS	BY OTHERS
PIV	POST INDICATOR VALVE	BY OTHERS	BY OTHERS
R	REMOTE RELAY	2088-9007	SELF-CONTAINED
IAM 1-1	SUPERVISED IAM	2190-9172	4" SQ DEEP W/COVER BY EC
PTR	REMOTE PRINTER 24V	2190-9039	TABLE TOP
VOICE	VOICE CONTROL PANEL	4003-9002	20.75" X 25.75" X 4.25"
BATT	BATTERY CABINET	2081-9281	20.75" X 25.75" X 6.75"
M	DOOR HOLDER	2088-9588	SG BY EC
SD	SMOKE/FIRE DAMPER	BY OTHERS	BY OTHERS
FAA	LCD ANNUNCIATOR	4603-9101	5-GANG BOX 3.5" DEEP BY EC
FACP	FIRE ALARM CONTROL PANEL	4002-8001	52.125" X 25.75" X 4.25"

WIRE CODE

ALL WIRING TO MEET CURRENT NATIONAL ELECTRIC CODE ARTICLE 760, 300, 310, 370, 725 AND ALL RELATED SECTION CODE REQUIREMENTS

LETTER	QTY	COLOR/TYPE	SIZE	FUNCTION
A	2	BLACK/ORANGE	16	ZONE
C	2	RED/BLUE THHN	14	STROBE
E	2	BROWN/YELLOW THHN	14	DOOR HOLDERS
F	2	ORANGE/YEL./BLACK/BLUE THHN	14	FAN SHUTDOWN
H	1	WEST PENN D975	18	SERIAL ANNUNCIATOR
	2	RED/BLACK THHN	14	
J	1	TW/SHLD. PAIR	16	SPEAKER
P	2	RED/BLACK THHN	14	24VDC POWER
R	2	BLUE/WHITE TFN	16	REMOTE LED W/TEST
	2	PINK TFN	16	
S	2	PURPLE/WHITE THHN	14	FACP SIGNALS
T	1	WEST PENN D975	18	PRINTER
V	2	WEST PENN D975	18	VOICE CONTROL PANEL
	2	RED/BLACK THHN	14	
	2	RED/BLUE THHN	14	
X	1	WEST PENN D975	18	ADDR. MAPNET DATA LINE

NOTES:
1) TAG AND IDENTIFY ALL ZONE WIRES WITH ZONE NUMBER.
2) TAG AND IDENTIFY ALL SIGNAL CIRCUIT WIRES WITH SIGNAL CIRCUIT NUMBER.
3) TAG AND IDENTIFY ALL ANNUNCIATOR WIRES.

Simplex
SIMPLEX TIME RECORDER CO.
10630 NORTHEAST 38TH PLACE SUITE 75
KIRKLAND, WA 98033
SALES: (425) 828-4511
SERVICE: (425) 827-2700
FAX: (425) 827-2754

SEQUENCE OF OPERATION	MANUAL PULL STATION	SMOKE DETECTION	DUCT SMOKE DETECTION	HEAT DETECTION	FLOW SWITCH	TAMPER SWITCH	POST INDICATOR VALVE	SYSTEM TROUBLE
ACTIVATION OF LOCAL ALARM AT FACP (LCD DISP. & AUDIBLE INDICATION)	X	X	X	X	X			
DISPLAY ALARM AT ANNUNCTATOR	X	X	X	X	X			
ACTIVATE ALL AUDIBLE/VISIBLE DEVICES	X	X	X	X	X			
RELEASE DOOR HOLDERS	X	X	X	X	X			
GLOBAL FAN SHUTDOWN	X	X	X	X	X			
CLOSE SMOKE/FIRE DAMPERS	X	X	X	X	X			
TRANSMIT SIGNAL TO TURN-ON LIGHTS	X	X	X	X	X			
TRANSMIT SIGNAL TO SECURITY CONTROL SYSTEM	X	X	X	X	X			
TRANSMIT SIGNAL TO SMOKE REMOVAL SYSTEM	X	X	X	X	X			
TRANSMIT ALARM SIGNAL TO CENTRAL STATION MONITOR	X	X	X	X	X			
TROUBLE/SUPV. INDICATION AT FACP						X	X	X
TROUBLE/SUPV. INDICATION AT ANNUNCIATOR						X	X	X
TRANSMIT TROUBLE/SUPV. SIGNAL TO CENTRAL STATION MONITOR						X	X	X

BATTERY CALCULATIONS

DOES THE SYSTEM HAVE AN EMERGENCY GENERATOR THAT MEETS NEC 700.7(I) ☐ YES ■ NO?

HOW MANY HOURS OF BATTERY STANDBY ARE REQUIRED?
☐ 4 ■ 24 ☐ 48 ☐ 60 (4 HRS. MIN. W/EMER. GEN.)

QTY	PART #	DESCRIPTION	STANDBY CURRENT (A)	TOTAL STANDBY (A)	ALARM CURRENT (A)	TOTAL ALARM (A)
1	4020-7003	FIRE ALARM CONTROL PANEL	0.5000	0.5000	0.6400	0.6400
2	4020-0305	8 POINT I/O CARD	0.1000	0.2000	0.3400	0.6800
1	4020-0110	MAPNET	0.3000	0.3000	0.3200	0.3200
1	4020-0113	RS-232 MODULE	0.0030	0.0030	0.0300	0.0300
1	4603-9101	LCD ANNUNCIATOR	0.0300	0.0300	0.1700	0.1700
22	4903-9328	SPEAKER/STROBE		0.0000	0.0850	2.0400
8	4904-9305	STROBE		0.0000	0.0850	0.5700
1	2190-9039	PRINTER	0.5000	0.5000	1.2000	1.2000
3	4905-9914	SYNC MODULE	0.0100	0.0300	0.0100	0.0300
17	4098-9701	DUCT DETECTOR	0.0003	0.0051	0.0280	0.4760
4	2088-9007	MR 101 RELAY		0.0000	0.0150	0.0600
			Total Standby=	1.5881	Total Alarm=	6.2660

			Time (Hrs.)	
Total Standby Current Required=	1.5881	X	24	37.6344
Total Alarm Current Required=	6.2660	X	0.1667	1.0445
Total=				38.6789
20% Depletion Factor				7.7358
Total Amp/Hour Required				46.4147
Total Amp/Hour Batteries Provided			(1) Set	50.0000

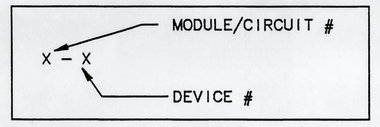
I/O POINTS

CIRCUIT	CIRCUIT DESCRIPTION	CIRCUIT I(A)	@WIRE RUN (FT)	CIRCUIT VDROP
1	MAIN FLOOR WEST & EAST STROBES	0.855	600	1.6720
2	MAIN FLOOR CENTER STROBES	0.665	420	0.911
3	STAGE, ORCHESTRA & ARTS STROBES	1.140	620	2.304
4	VOICE CONTROL PANEL			
5-8	NOT USED			
9	RELEASE DOOR HOLDERS			
10	GLOBAL FAN SHUTDOWN			
11	LIGHTING CONTROL PANEL			
12	SECURITY CONTROL SYSTEM			
13	SMOKE REMOVAL SYSTEM			
14	SPARE			
15	SPARE			
16	SPARE			

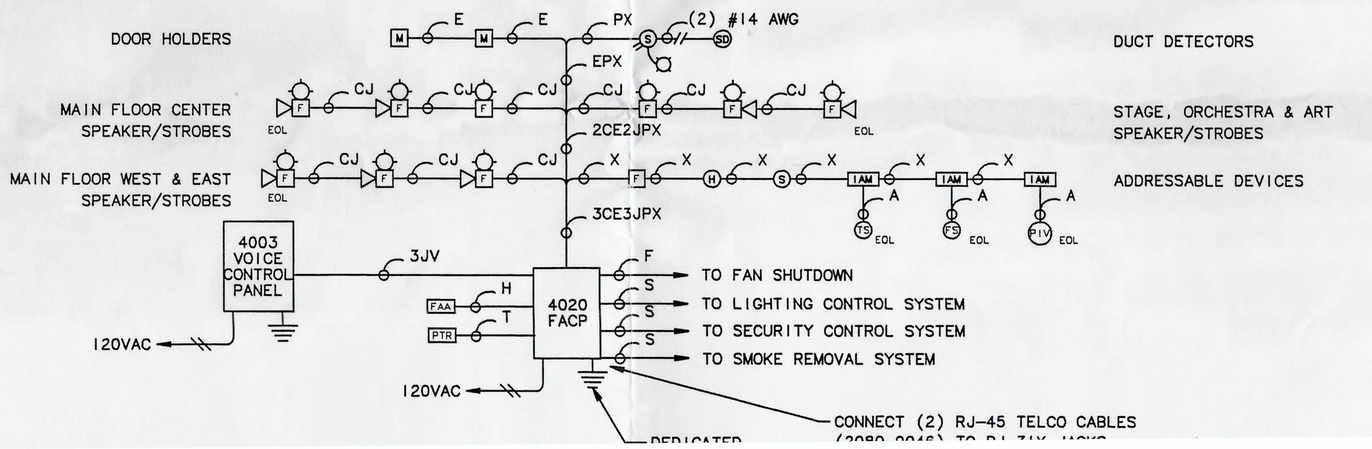
VOICE CONTROL PANEL

CIRCUIT	CIRCUIT DESCRIPTION	CIRCUIT LOAD(W)
1	MAIN FLOOR WEST & EAST SPEAKERS	9 WATTS
2	MAIN FLOOR CENTER SPEAKERS	5 WATTS
3	STAGE, ORCHESTRA & ARTS SPEAKERS	10 WATTS
4	SPARE	

ADDRESSABLE DETECTOR IDENTIFICATION



MAPNET CIRCUIT DISTRIBUTION



NOTES:
- FIRE ALARM DRAWINGS ARE SCHEMATIC ONLY.
- ALL CABLE SUBSTITUTIONS MUST BE APPROVED BY SIMPLEX ENGINEERING IN WRITING.
- NOTE: MOUNT HORN/STROBES, SPEAKER/STROBES AND STROBES AT 80" TO BOTTOM OF DEVICE.
- NOTE: MOUNT PULL STATIONS AT 48" TO TOP OF DEVICE.
- ALL SHIELDS ON THE SAME MAPNET CHANNEL SHALL BE TAPED TOGETHER AND BE FREE OF OPENS, SHORTS, AND GROUNDS.
- DO NOT EXCEED 2500 FT OUT TO FURTHEST DEVICE—MAXIMUM 10,000 FT ON MAPNET CHANNEL.
- DRY CONTACT ONLY PROVIDED FOR DOOR HOLDERS, ROLL DOORS AND SMOKE/FIRE DAMPERS — POWER BY OTHERS.

ELECTRICAL CONTRACTOR

FIRE ALARM SYSTEM
COVER SHEET

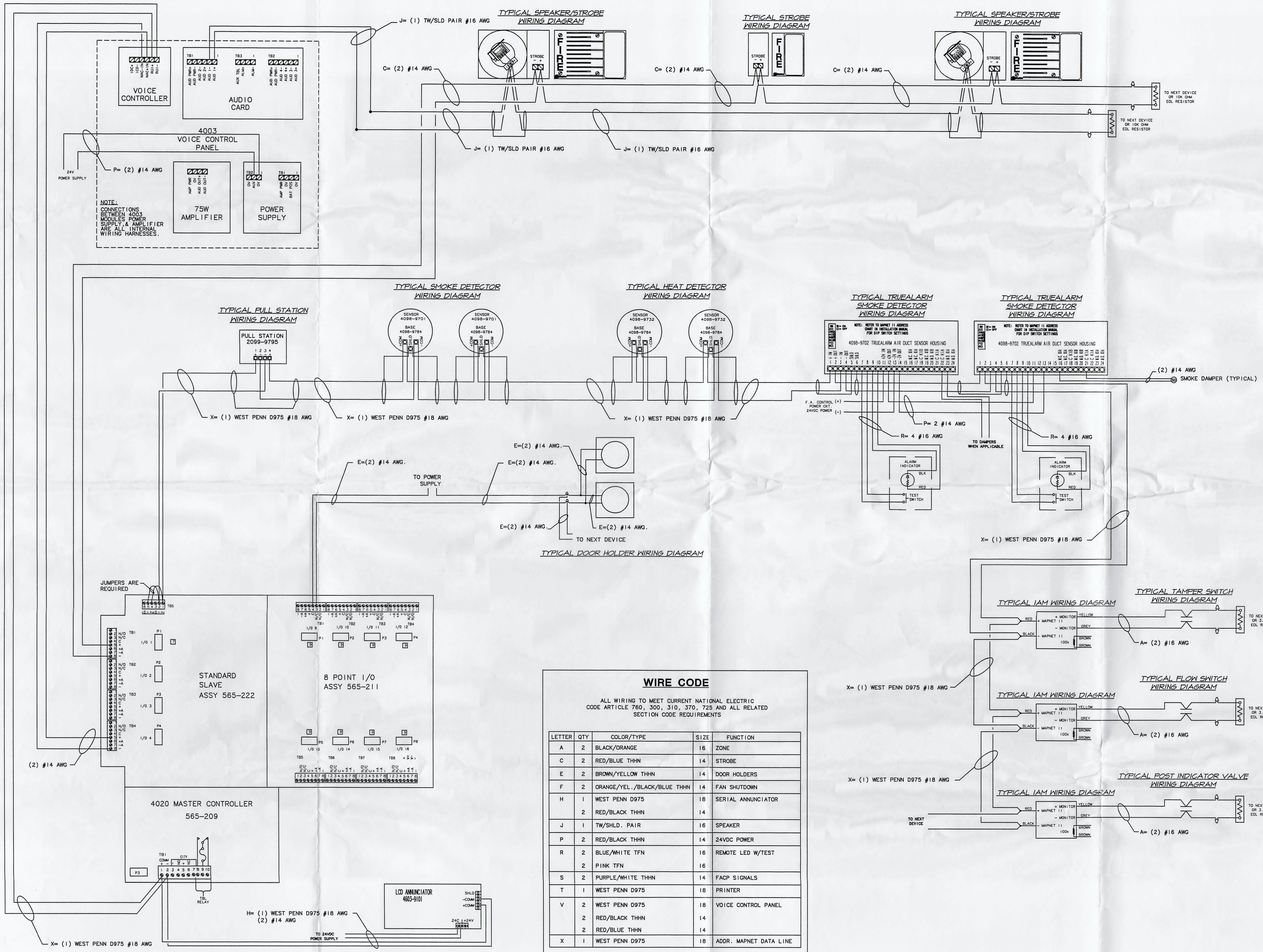
KIRKLAND PERFORMANCE CENTER
406 KIRKLAND AVENUE
KIRKLAND, WA

ISSUE RECORD

PURPOSE	DATE	DRAFTER

DRAWN BY: SAL

REVISION INFORMATION



TYPICAL POINT TO POINT WIRING DIAGRAM

SCALE: NONE

WIRE CODE

ALL WIRING TO MEET CURRENT NATIONAL ELECTRIC CODE ARTICLE 760, 300, 310, 370, 725 AND ALL RELATED SECTION CODE REQUIREMENTS

LETTER	QTY	COLOR/TYPE	SIZE	FUNCTION
A	2	BLACK/ORANGE	16	ZONE
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E	2	BROWN/YELLOW THHN	14	DOOR HOLDERS
F	2	ORANGE/YEL./BLACK/BLUE THHN	14	FAN SHUTDOWN
H	1	WEST PENN D975	18	SERIAL ANNUNCIATOR
	2	RED/BLACK THHN	14	
J	1	TW/SHLD. PAIR	16	SPEAKER
P	2	RED/BLACK THHN	14	24VDC POWER
R	2	BLUE/WHITE TFN	16	REMOTE LED W/TEST
	2	PINK TFN	16	
S	2	PURPLE/WHITE THHN	14	FACP SIGNALS
T	1	WEST PENN D975	18	PRINTER
V	2	WEST PENN D975	18	VOICE CONTROL PANEL
	2	RED/BLACK THHN	14	
	2	RED/BLUE THHN	14	
X	1	WEST PENN D975	18	ADDR. MAPNET DATA LINE

NOTES:

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Simplex
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10630 NORTHEAST 38TH PLACE SUITE 75
KIRKLAND, WA 98033
SALES: (425) 822-2411
SERVICE: (425) 822-2412
FAX: (425) 827-3646

FIRE ALARM SYSTEM
DETAIL WIRING DIAGRAM

KIRKLAND PERFORMANCE CENTER
406 KIRKLAND AVENUE
KIRKLAND, WA.

ISSUE RECORD

PURPOSE	DATE	DRAFTER

DRAWN BY: M.C.B.

DATE: 8/14/97

REVISION INFORMATION

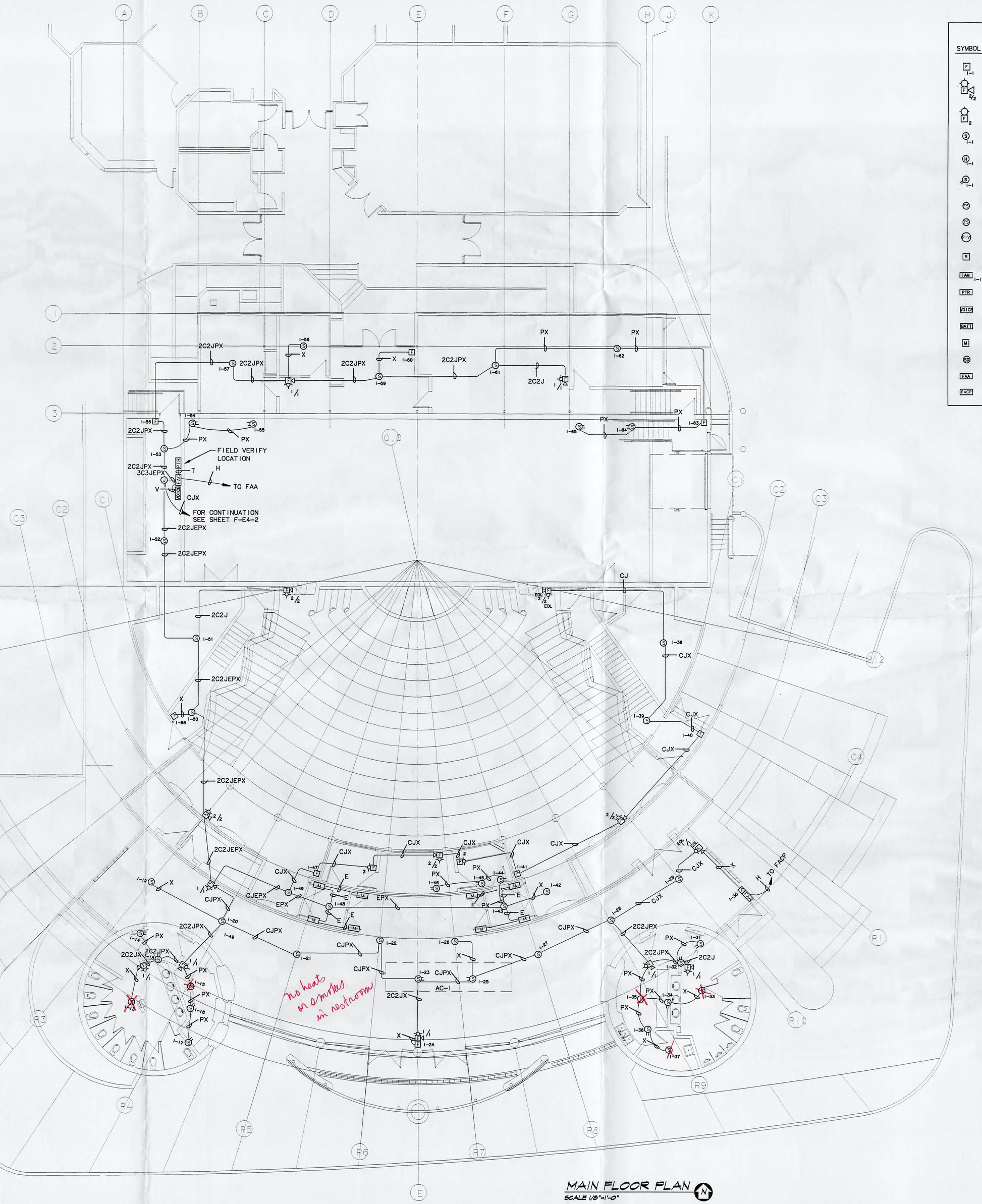
APPROVED BY: H.D.

APPROVED BY:

SIMPLEX PROJECT NUMBER: 45897007901

SHEET TITLE: DETAILS

SHEET NUMBER: 2 OF 4



MAIN FLOOR PLAN

SCALE 1/8"=1'-0"

LEGEND

SYMBOL	DESCRIPTION	MODEL #	BACK BOX
F 1-1	MANUAL PULL STATION • SUBSCRIPT INDICATES MAPNET #	2099-9795W/ 2099-9813 TRIM	2-GANG DEEP BY EC 3" X 2" X 2.5"
F 2/2	SPEAKER/STROBE 15/75cd • SUBSCRIPT INDICATES CIRCUIT #	4903-9326	4" SQ BY EC
F 2	STROBE 15/75 cd • SUBSCRIPT INDICATES CIRCUIT #	4904-9305	SG DEEP BY EC
S 1-1	TRUEALARM SMOKE DETECTOR • SUBSCRIPT INDICATES MAPNET #	4098-9701 W/ 4098-9784 BASE	4" OCT BY EC
H 1-1	TRUEALARM HEAT DETECTOR • SUBSCRIPT INDICATES MAPNET #	4098-9732 W/ 4098-9784 BASE	4" OCT BY EC
S 1-1	DUCT SMOKE DETECTOR W/ REMOTE LED W/TEST • SUBSCRIPT INDICATES MAPNET #	4098-9706 W/ 2098-9806	SELF-CONTAINED SINGLE GANG BY EC
FS	FLOW SWITCH	BY OTHERS	BY OTHERS
TS	TAMPER SWITCH	BY OTHERS	BY OTHERS
PIV	POST INDICATOR VALVE	BY OTHERS	BY OTHERS
R	REMOTE RELAY	2088-9007	SELF-CONTAINED
IAM 1-1	SUPERVISED IAM	2190-9172	4" SQ DEEP W/COVER BY EC
PTR	REMOTE PRINTER 24V	2190-9039	TABLE TOP
VOICE	VOICE CONTROL PANEL	4003-9002	20.75" X 25.75" X 4.25"
BATT	BATTERY CABINET	2081-9281	20.75" X 25.75" X 6.75"
M	DOOR HOLDER	2088-9588	SG BY EC
SD	SMOKE/FIRE DAMPER	BY OTHERS	BY OTHERS
FAA	LCD ANNUNCIATOR	4603-9101	5-GANG BOX 3.5" DEEP BY EC
FACP	FIRE ALARM CONTROL PANEL	4002-8001	52.125" X 25.75" X 4.25"

WIRE CODE

ALL WIRING TO MEET CURRENT NATIONAL ELECTRIC CODE ARTICLE 760, 300, 310, 370, 725 AND ALL RELATED SECTION CODE REQUIREMENTS

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F	2	ORANGE/YEL./BLACK/BLUE THHN	14	FAN SHUTDOWN
H	1	WEST PENN D975	18	SERIAL ANNUNCIATOR
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J	1	TW/SHLD. PAIR	16	SPEAKER
P	2	RED/BLACK THHN	14	24VDC POWER
R	2	BLUE/WHITE TFN	16	REMOTE LED W/TEST
	2	PINK TFN	16	
S	2	PURPLE/WHITE THHN	14	FACP SIGNALS
T	1	WEST PENN D975	18	PRINTER
V	2	WEST PENN D975	18	VOICE CONTROL PANEL
	2	RED/BLACK THHN	14	
	2	RED/BLUE THHN	14	
X	1	WEST PENN D975	18	ADDR. MAPNET DATA LINE

NOTES:

1) TAG AND IDENTIFY ALL ZONE WIRES WITH ZONE NUMBER.
2) TAG AND IDENTIFY ALL SIGNAL CIRCUIT WIRES WITH SIGNAL CIRCUIT NUMBER.
3) TAG AND IDENTIFY ALL ANNUNCIATOR WIRES.

ADDRESSABLE DETECTOR IDENTIFICATION

X - X
MODULE/CIRCUIT #
DEVICE #

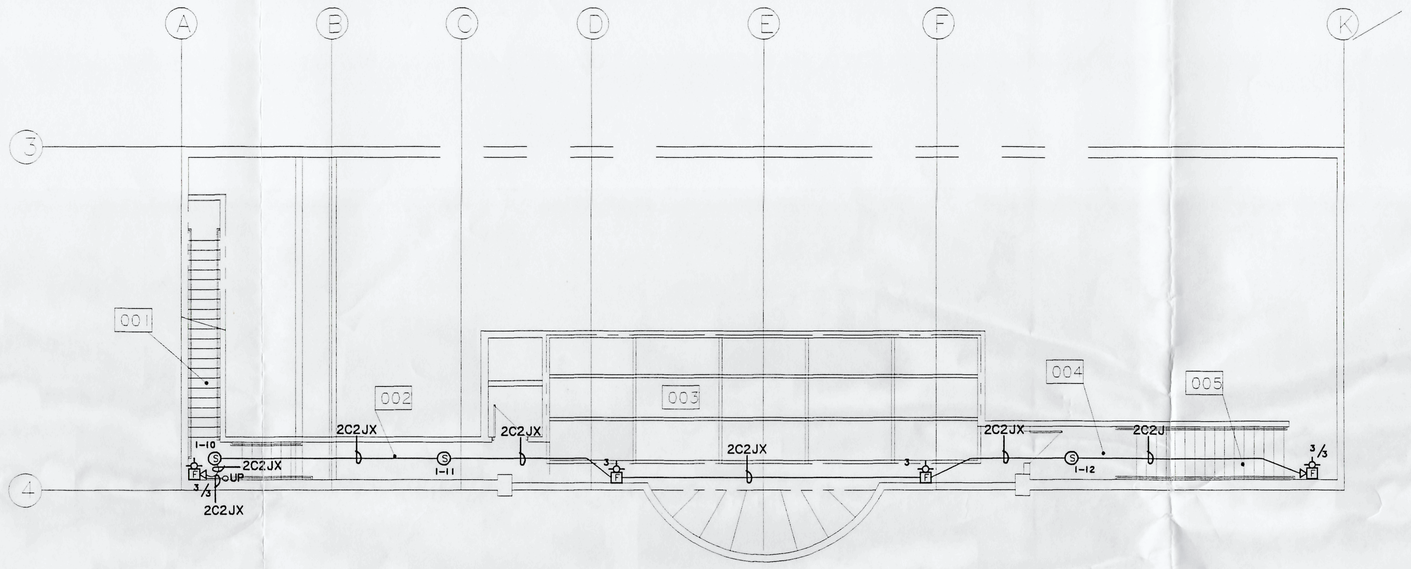
Simplex
SIMPLEX TIME RECORDER CO.
10630 NORTHEAST 38TH PLACE SUITE 75
KIRKLAND, WA. 98033
SALES (425) 822-7200
SERVICE (425) 822-7201
FAX (425) 822-7244

FIRE ALARM SYSTEM
MAIN FLOOR PLAN
KIRKLAND PERFORMANCE CENTER
405 KIRKLAND AVENUE
KIRKLAND, WA

ISSUE RECORD

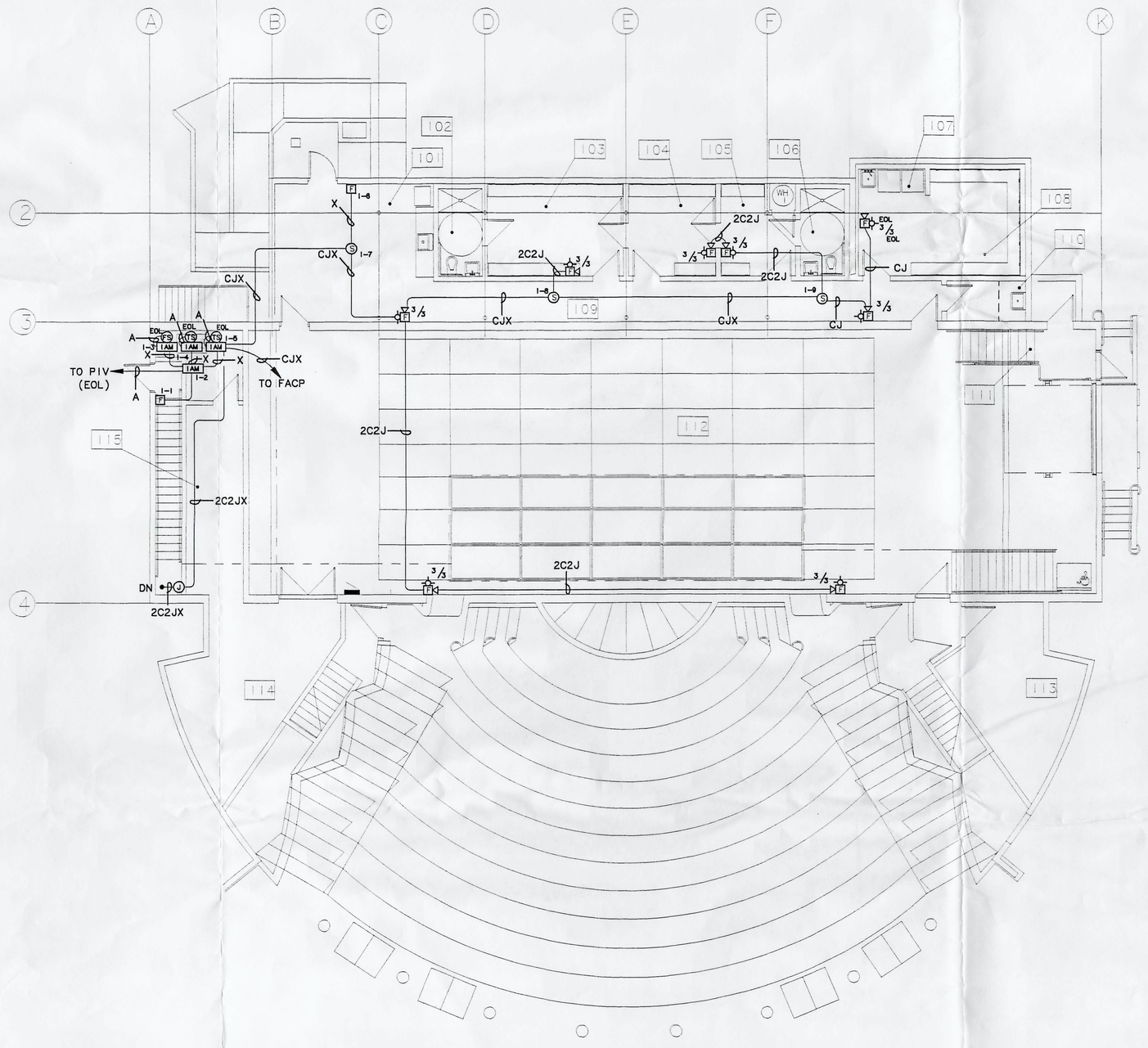
PURPOSE	DATE	DRAFTER

DRAWN BY: SAL
DATE: 8-14-97
REVISION INFORMATION
APPROVED BY: H.D.
APPROVED BY:
SIMPLEX PROJECT NUMBER: 45897007901
SHEET TITLE: F-E4-1
SHEET NUMBER: 3 OF 4



ORCHESTRA & PIT AND TRAP FLOOR PLAN

SCALE 1/8"=1'-0"



STAGE ORCHESTRA & PIT FLOOR PLAN

SCALE 1/8"=1'-0"

LEGEND

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	2	RED/BLACK THHN	14	
	2	RED/BLUE THHN	14	
X	1	WEST PENN D975	18	ADDR. MAPNET DATA LINE

NOTES

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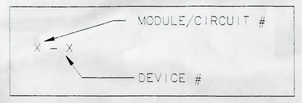
3) TAG AND IDENTIFY ALL ANNUNCIATOR WIRES

ADDRESSABLE DETECTOR IDENTIFICATION



Simplex
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10630 NORTHEAST 38TH PLACE SUITE 75
KIRKLAND, WA 98033
SALES (425) 828-4012
SERVICE (425) 827-8811
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FIRE ALARM SYSTEM
STAGE, ORCHESTRA & PIT FLOOR PLAN
KIRKLAND PERFORMANCE CENTER
406 KIRKLAND AVENUE
KIRKLAND, WA

ISSUE RECORD

PURPOSE	DATE	DRAFTER

DRAWN BY: SAL	REVISION INFORMATION
DATE: 8-14-97	
APPROVED BY: H.D.	APPROVED BY:
SIMPLEX PROJECT NUMBER 45897007901	
SHEET TITLE: F-E4-2	
SHEET NUMBER: 4 OF 4	