

120VAC \$ (DEDICATED CKT.)

WIRE NOTE: VERIFY EXACT WIRE TYPE WITH FIRE ALARM CONTRACTOR BEFORE ORDERING.

110

FIRE

ALARM RISER

DIAGRAM

DATE

10/14/2015

WAYNE B. HAWS NICET IV 90496

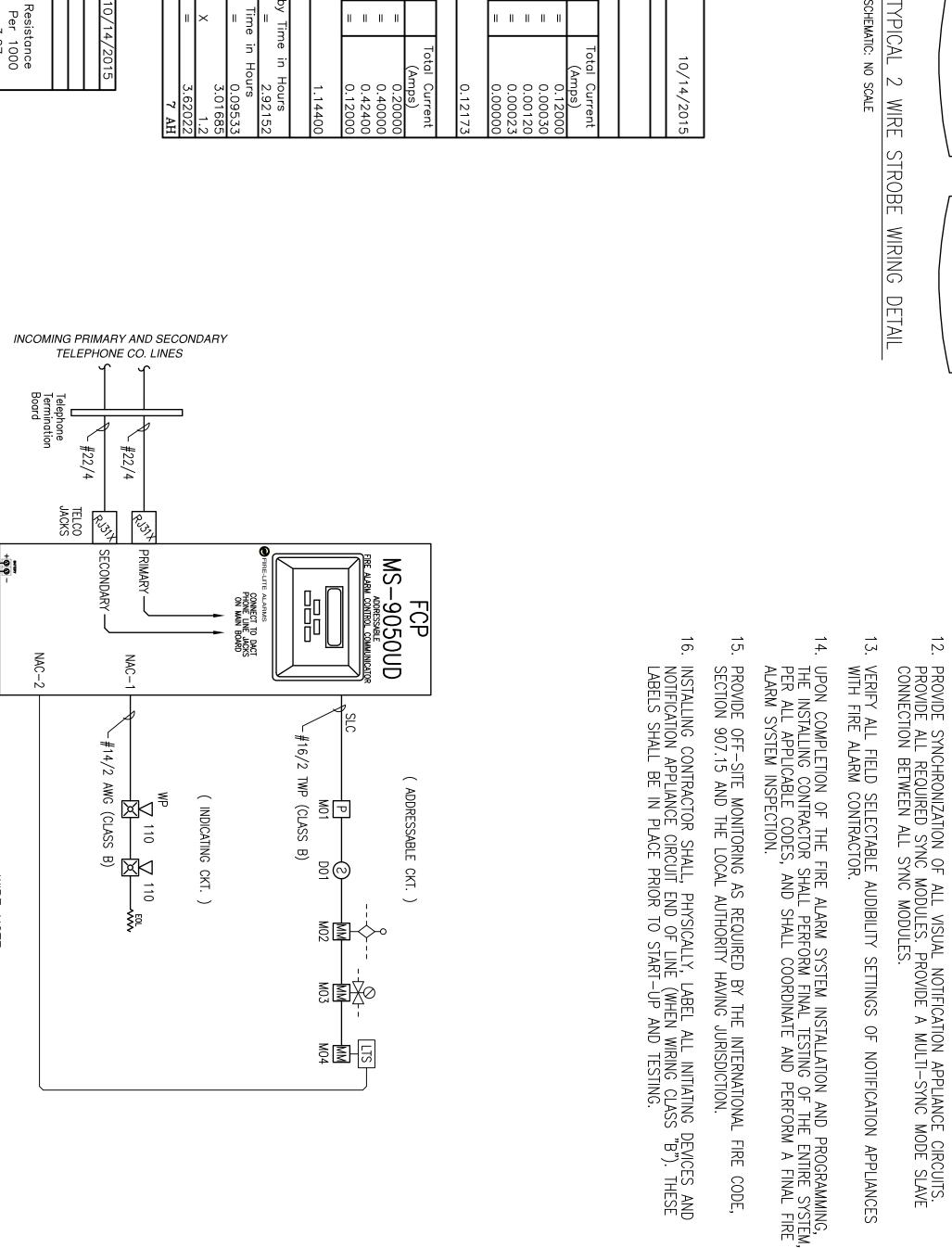
JPB UNICAD JOB #15707

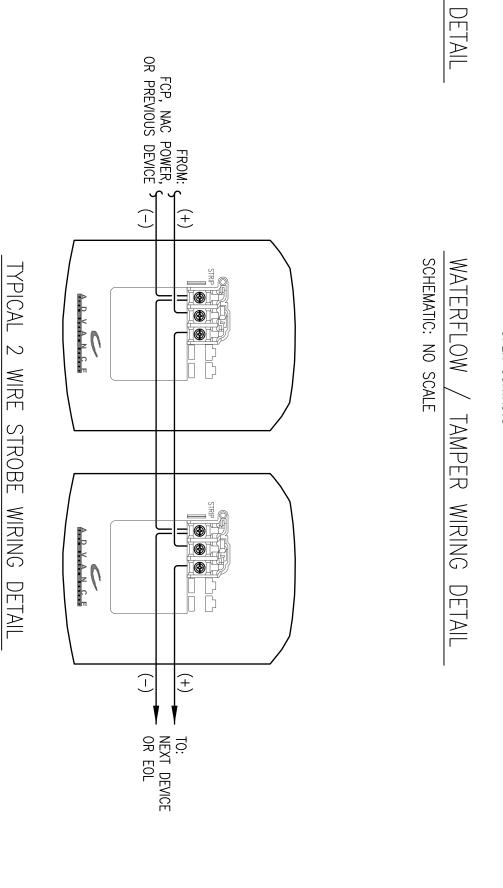
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NONE

SCHEMATIC: NO SCALE

7 AH					BATTERIES TO BE PROVIDED (2 - 12v)
3.62022	II				TOTAL AMPERE HOURS REQUIRED
3.01685 1.2	×				Total Ampere Hours (before derating factor) Derating Factor
in Hours 0.09533	Time =	Required Alarm 0.08333	×	1.14400	Alarm Load Current (Amps)
ne in Hours 2.92152	y Time =	Required Standby 24.00000 :	×	0.12173	Standby Load Current (Amps)
		nts	me	y Requirements	Battery
1.14400					TOTAL ALARM LOAD
0.12000	II	0.12000	×	<u></u>	NAC-2 (To EA200-24)
0.42400	II	0.42400	×	_	NAC-1 (See Voltage Drop Calculations)
0.40000	11 11	0.40000	××	<u></u>	MAX ALARM DRAW - ALL ADDRESSABLE DEV.
		(Amps)		of Devices	
Total Current		Current		71	C
		ALARM		d Load in	Regulated
0.12173					TOTAL STANDBY LOAD
0.00000	11	0.00000	×	<u>→</u>	MAX ALARM DRAW — ALL ADDRESSABLE DEV.
0.00023	II	0.00023	×	_	PULL STATION - BG-12LX
0.00120	II	0.00040	×	3	MONITOR MODULE - MMF-300
0.00030	II	0.00030	×		SMOKE DETECTOR — SD355
0.12000	II	0.12000	×	1	FACP — MS9050UD MAIN CIRCUIT BOARD
(Amps)		(Amps)		of Devices	Device Type
		Stationy	טנ		   การเทลื่อน
			2	T 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
		rs Ites	Hours Minutes	24 5	Required Standby Time: Reauired Alarm Time:
		ANO BUILDERS	ROMANO	PAPI AND F	PROJECT NAME:
10/14/2015		culation	alc	cery C	FACP Battery Calculation





<u></u>

LOCATE SMOKE DETECTORS A MINIMUM OF THREE (3) FEET FROM MECHANICAL DIFFUSERS. WALL-MOUNTED SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 4" AND A MAXIMUM OF 12" FROM CEILING. CEILING-MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON CEILINGS AND NOT ON THE BOTTOMS OF BEAMS OR JOISTS.

ABBREVIATION

DESCRIPTION

SPEAKER \ \(\frac{12W}{2W}\) \ 75 \ \ CANDELA \ \ 30

WALL 80"-96"

WALL @ 90"

WALL 80"-96"

WALL 80"-96"

DEVICE ADDRESS DO1

L1D001 OR D01

(L - DENOTES LOOP #)

(D or M - DENOTES DETECTOR OR MODULE #)

- WIRE TYPE ABBREVIATED
- CONDUCTOR COUNT
- WIRE SIZE
- # OF CABLES (IF OMITTED ONLY 1 CABLE NEEDED)

10.

9.

ALL FIRE ALARM CABLING SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSE.

idlø|a|a|r

X

MINI HO

CEILING

MOUNT SPEAKER

FIELD VERIFY

WALL @ 10'-0

FIELD VERIFY

CEILING

MOUNT HORN

STROBE

SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED AND FINAL.

 $\dot{\infty}$ 

12.

ADDRESSABLE WIRING DETAIL

SMOKE

DETECTOR

SCHEMATIC: NO SCALE

- STYLE "D" INITIATING
DEVICE CIRCUIT
POWER LIMITED,
SUPERVISED - WATERFLOW SWITCH OR TAMPER SWITCH WITH NORMALLY OPEN CONTACTS ک RETURN TO FCP SLC FROM SLC

FCP

GENERAL NOTES:

RETURN TO FCP SLC

0NES

ROTARY DECADE ADDRESS SWITCH

MANUAL SCHEMATIC:

PULL

STATION WIRING

NO SCALE

FCP SLC

WHEN UTILIZING SHIELDED JUNCTION BOX. INSULATE

) CABLE TIE SHIELDS THROUGH AND INSULATE AT EACH AND TAPE BACK AT END.

WHEN UTILIZING CLASS "A" CIRCUITS, SEPARATE OUTGOING AND RETURN CONDUCTORS OF CLASS "A" CIRCUITS BY A MINIMUM OF 12" WHERE RUN VERTICALLY AND 48" WHERE RUN HORIZONTALLY.

WATER

FLOW SWITCH

KNOX

VALVE

TAMPER SWITCH

EMPERATURE SENS

FIELD VERIFY

BY OTHERS

BY OTHERS

POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST REMAIN SEPARATED IN CABINET. ALL POWER-LIMITED CIRCUIT WIRING MUST REMAIN AT LEAST 0.25" AWAY FROM ANY NONPOWER-LIMITED CIRCUIT WIRING. FURTHERMORE, ALL POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST ENTER AND EXIT THE CABINET THROUGH DIFFERENT KNOCK OUTS AND/OR SEPARATE CONDUITS.

R P

CONTRO

RELAY (MULTI-VOLTAGE)

WALL @ 48"
FIELD VERIFY

FIELD VERIFY

FIELD VERIFY

FIELD VERIFY

FIELD VERIFY

ADDRE:

SABLE RELAY MODULE

MANUAL

PULL STATION

Z

SABLE MONITOR MODULE

SABLE CONTROL MODULE

FIRE RATINGS SHALL BE MAINTAINED FOR ALL PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION. POWER FOR ALL FIRE ALARM PANELS AND FIRE ALARM POWER SUPPLIES MUST BE PROVIDED BY A DEDICATED AC BRANCH CIRCUIT.

WIRING DEPICTED ON THESE PLANS IS SCHEMATIC — ACTUAL WIRE LOCATIONS MAY DIFFER FROM THESE PLANS. WIRING SHALL BE PERFORMED AS ACTUAL BUILDING CONSTRUCTION CONDITIONS ALLOW AND TO MINIMIZE PENETRATIONS THROUGH AREA SEPARATION WALLS AND FIRE WALLS. THE USE OF A RACEWAY IS PERMITTED AS LONG AS NO 110V OR HIGHER VOLTAGE CABLES ARE IN THE SAME RACEWAY.

INSTALLATION SHALL COMPLY WITH NEC, NFPA 72 AND ALL OTHER APPLICABLE CODES AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

THESE DRAWINGS ARE DIAGRAMMATIC. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.

FSD 0  $\bigcirc$ 0 FIRE FIRE AL HEAT SYSTEM ANNUNCIATOR ARM POWER SUPPLY ALARM ARM CONTROL PANEL MOKE DETECTOR OKE DAMPER SYMBOL ON THIS PRO LEGEND MOUNTING WALL-TOP @ 66" CEILING FIELD VERIFY BY OTHERS BY OTHERS WALL-TOP @ 66"

		IVI, LIFE SAFEII CODE

<u>APPLICABLE</u>

										,	
LOSS OF AC TO BUILDING	NAC SHORT CIRCUIT	GROUND FAULT	OPEN CIRCUIT	FIRE ALARM LOW BATTERY	FIRE ALARM AC POWER FAIL	LOW TEMPERATURE SENSOR	VALVE TAMPER SWITCHES	WATERFLOW SWITCHES	PULL STATIONS	SMOKE DETECTORS	OPERATIONS MATRIX
											FIRE ALARM OUTPUT
										•	ACTIVATE ALARM INDICATOR
								•	•	•	ACTIVATE AUDIBLE ALARM
						•	•				ACTIVATE SUPERVISORY INDICATOR
						•	•				ACTIVATE AUDIBLE SUPERVISORY SIGNAL
		8	•	•	•						ACTIVATE TROUBLE INDICATOR
		8	•	•	•						ACTIVATE AUDIBLE TROUBLE INDICATOR
								•	•	•	TRANSMIT ALARM SIGNAL
						•	•				TRANSMIT SUPERVISORY SIGNAL
			•		•						TRANSMIT TROUBLE SIGNAL

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								•	•	•	TRANSMIT ALARM SIGNAL
						•	•				TRANSMIT SUPERVISORY SIGNAL
•	•	•	•	•	•						TRANSMIT TROUBLE SIGNAL

PAPI AND ROMANO BUILDERS
828 RIVERSIDE STREET
PORTLAND, MAINE 04103
CALCS, DETAILS, LEGEND, MATRIX, NOTES
<u> </u>

	<del></del>
CUNNINGHAM	
Security Systems	

10 Princes Point Road, Yarmouth, Maine 04096 Office: 207.846.3350 • Fax: 207.846.6080

REVISION		DESCRIPTION	DATE
0	ISSUED	FOR REVIEW & APPROVAL	10/14/2015
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