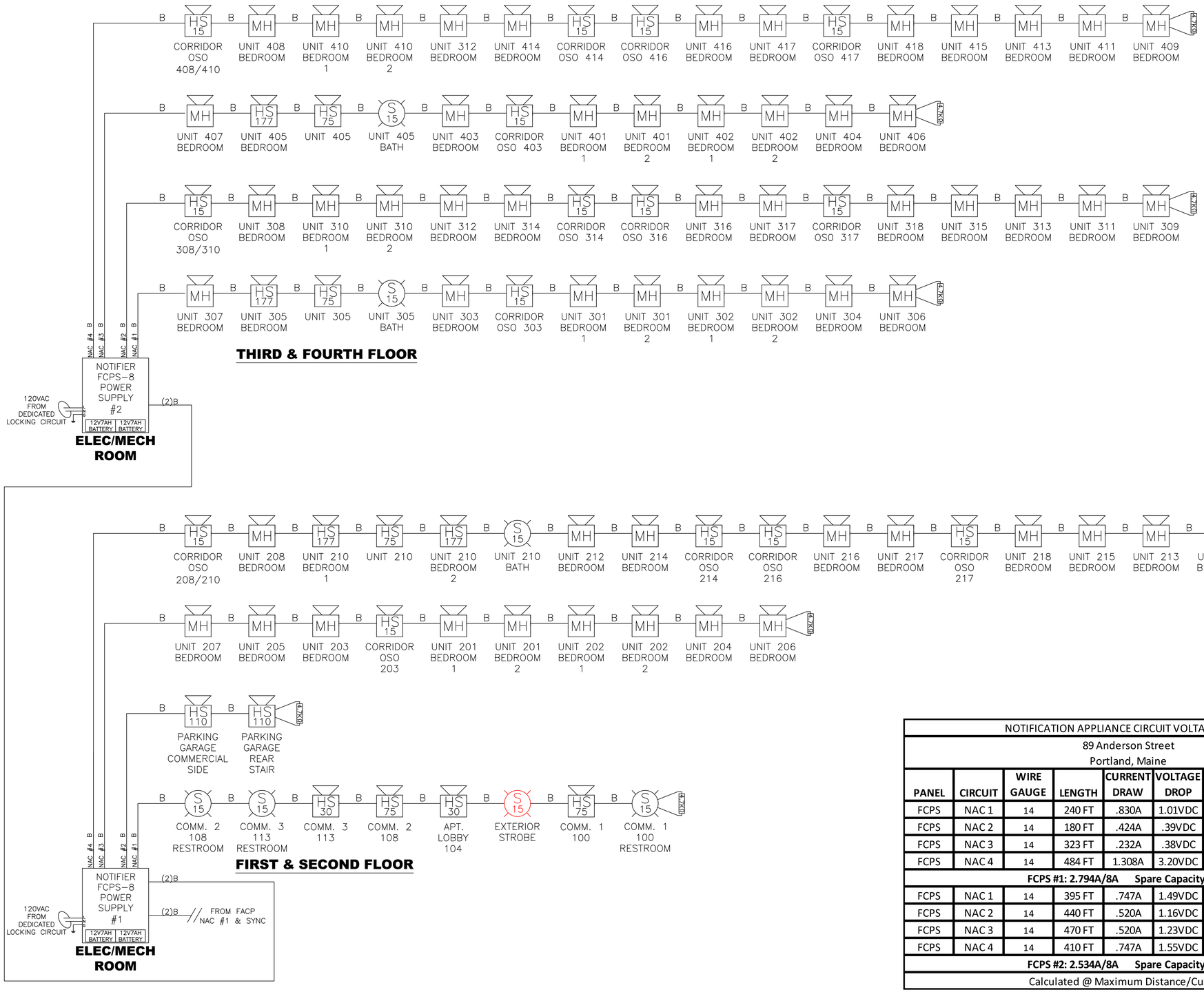

NOTIFICATION APPLIANCE CIRCUIT VOLTAGE DROPS								
89 Anderson Street Portland, Maine								
PANEL	**CIRCUIT**	**WIRE GAUGE**	**LENGTH**	**CURRENT DRAW**	**VOLTAGE DROP**	**VOLTAGE LOSS**	**END VOLTAGE**	**CIRCUIT LOAD**
FCPS	NAC 1	14	240 FT	.830A	1.01VDC	4.21%	22.99VDC	28%
FCPS	NAC 2	14	180 FT	.424A	.39VDC	1.63%	23.61VDC	14%
FCPS	NAC 3	14	323 FT	.232A	.38VDC	1.58%	23.62VDC	8%
FCPS	NAC 4	14	484 FT	1.308A	3.20VDC	13.33%	20.8VDC	44%
FCPS #1: 2.794A/8A Spare Capacity: 65%								
FCPS	NAC 1	14	395 FT	.747A	1.49VDC	6.21%	22.51VDC	25%
FCPS	NAC 2	14	440 FT	.520A	1.16VDC	4.83%	22.84VDC	17%
FCPS	NAC 3	14	470 FT	.520A	1.23VDC	5.13%	22.77VDC	17%
FCPS	NAC 4	14	410 FT	.747A	1.55VDC	6.46%	22.45VDC	25%
FCPS #2: 2.534A/8A Spare Capacity: 68%								
Calculated @ Maximum Distance/Current								

LEGEND

HS XX — HORN/STROBE (XX NOTES CANDELA)

S XX — STROBE (XX NOTES CANDELA) (RED NOTES LENS COVER)

WIRE LEGEND

B 2 COND 14 AWG FPL CABLE

INSTALLATION NOTES:

FIELD WIRING SHALL BE INSTALLED FOLLOWING THE CURRENT EDITION OF **NFPA 70: NATIONAL ELECTRIC CODE(2014)**, ALL APPLICABLE **MUNICIPAL, COUNTY, & STATE CODES, REQUIREMENTS, AND REGULATIONS**, AS WELL AS ALL **MANUFACTURER GUIDELINES FOR INSTALLATION**.

CONTROL PANELS, DEVICES, AND ALL OTHER SYSTEM COMPONENTS SHALL BE INSTALLED FOLLOWING THE CURRENT EDITION OF **NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE(2013)**, ALL APPLICABLE **MUNICIPAL, COUNTY, & STATE CODES, REQUIREMENTS, AND REGULATIONS**, AS WELL AS ALL **MANUFACTURER GUIDELINES FOR INSTALLATION**.

THE INSTALLER SHALL FOLLOW CORRECT CONDUCTOR POLARITY, INDICATED CIRCUIT DIVISIONS, PROPER GROUNDING AND SHIELDING WITHOUT EXCEPTION. IMPROPER INSTALLATION CAN RESULT IN INTERFERENCE, TRANSIENT VOLTAGE, OR SHORT CIRCUITS CAUSING UNDESIRED OPERATION OR DAMAGE TO THE CONTROL PANEL, DEVICES AND ANY OTHER INTEGRATED COMPONENTS.

WIRE FOR THE NOTIFICATION APPLIANCE CIRCUITS (IDENTIFIED AS "B" ON THIS PRINT), SHALL FOLLOW THE SPECIFIC REQUIREMENTS OF THE **WIRING LEGEND**. THIS WAS DETERMINED BY THE AVAILABLE DIMENSIONED OR SCALED FLOOR PLAN DEVICE LAYOUT. PLEASE REFERENCE THE *VOLTAGE DROP CALCULATIONS* LOCATED ON THIS SHEET FOR DISTANCE LIMITATIONS. THE INDICATED DISTANCES IN THE *VOLTAGE DROP CALCULATIONS* FOR EACH CIRCUIT SHALL BE CONSIDERED THE MAXIMUM LENGTH. ANY DISTANCES EXCEEDING THOSE IN THE *VOLTAGE DROP CALCULATIONS* MUST BE BROUGHT TO THE ATTENTION OF NORRIS INC. TO ASSURE PROPER FUNCTIONALITY AND COMPLIANCE OF THE NOTIFICATION APPLIANCE CIRCUITS.

THIS SYSTEM MEETS NFPA REQUIREMENTS FOR OPERATION AT 32-120°F AND A RELATIVE HUMIDITY OF 91-95% AT 87-93°F. HOWEVER, THE USEFUL LIFE OF THE SYSTEM'S STANDBY BATTERIES AND THE ELECTRONIC COMPONENTS MAY BE ADVERSELY AFFECTED BY EXTREME TEMPERATURE RANGES AND HUMIDITY. THEREFORE, IT IS RECOMMENDED THAT THIS SYSTEM AND ITS PERIPHERALS BE INSTALLED IN AN ENVIRONMENT WITH A NORMAL ROOM TEMPERATURE OF 60-80°F.

DESIGN NOTES:

SYSTEM DESIGN PERFORMANCE AND COMPLIANCE WITH ALL APPLICABLE CODES AND REQUIREMENTS IS THE RESPONSIBILITY OF THE DESIGNING ENGINEER. PROPER INSTALLATION OF THIS SYSTEM AND ITS COMPONENTS IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. ANY ALTERATIONS, CHANGES, OR DEFICIENCIES MUST BE BROUGHT TO THE ATTENTION OF THE DESIGNING ENGINEER.

NORRIS INC. ASSUMES NO RESPONSIBILITY FOR ERRORS IN SYSTEM DESIGN OR INSTALLATION, AS WELL AS ANY COSTS ASSOCIATED WITH CORRECTING THESE ERRORS, IF ANY EXIST, UNLESS SYSTEM DESIGN OR INSTALLATION WAS PERFORMED BY NORRIS INC.

CITY OF PORTLAND MAINE — RESURGAM
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/17/16

REVISION 0 SUBMITTAL DATE: 12/29/2015

NAC WIRING RISER

PROJECT NAME
89 ANDERSON STREET
PORTLAND, MAINE 04101

BY: JRS
CK: DG
SCALE: NONE
SHEET: FA-2

NORRIS INC
Prepared For Tomorrow; Delivered Today
2257 BROADWAY, SOUTH PORTLAND, MAINE