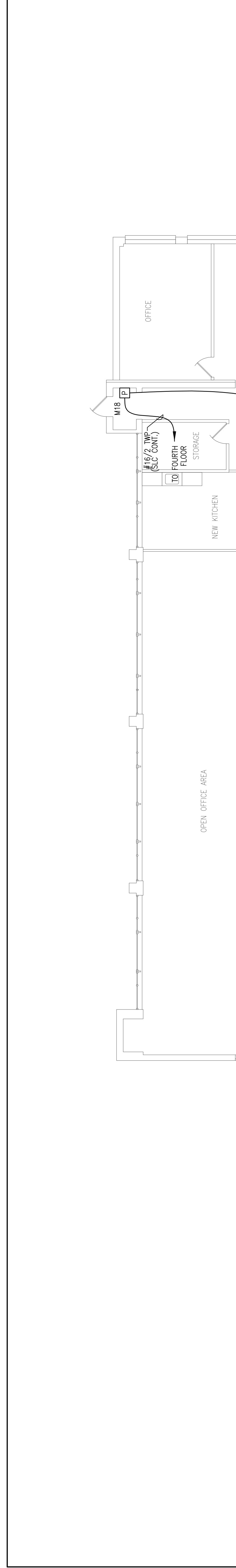


REVISION	DESCRIPTION	DATE
0	ISSUED FOR REVIEW & APPROVAL	5/19/2014

RESERVED FOR CITY STAMP



CUNNINGHAM
Security Systems
10 Princes Point Road, Yarmouth, Maine 04096
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27 PEARL STREET
PORTLAND, MAINE 04101
THIRD FLOOR FIRE ALARM PLAN

REVISION	SCALE
0	1/8"=1'-0"

DATE	CHECKED
5/15/2014	WAYNE B. HAWES NCEET # 90496

DATE	DESCRIPTION
5/19/2014	ISSUED FOR REVIEW & APPROVAL

SCALE: 1/8"=1'-0"



THIRD FLOOR FIRE ALARM PLAN

NAAC Circuit Voltage Drop Calculation 5/16/2014

Project Name	27 PEARL STREET BUILDING
Circuit Number	FFST-4
Nominal System Voltage	20.4 volts
Minimum Device Voltage	16 volts
Distance from source to 1st device	40
Wire Gauge for balance of circuit	14
Max Output Current	2.0 amps
Total Circuit Current	0.730 amps

Device	Distance previous device	Device Current	Voltage at Device	Drop from source	Percent Drop
Device 1	0.212	0.212	20.22	0.18	1%
Device 2	0.094	0.094	20.06	0.34	2%
Device 3	0.212	0.212	20.04	0.36	2%
Device 4	0.212	0.212	20.00	0.40	2%
Totals	0.730	1.34			

Circuit is within limits

NAAC Circuit Voltage Drop Calculation 5/16/2014

Project Name	27 PEARL STREET BUILDING
Circuit Number	FFST-3
Nominal System Voltage	20.4 volts
Minimum Device Voltage	16 volts
Distance from source to 1st device	20
Wire Gauge for balance of circuit	14
Max Output Current	2.0 amps
Total Circuit Current	0.678 amps

Device	Distance previous device	Device Current	Voltage at Device	Drop from source	Percent Drop
Device 1	0.066	0.066	20.32	0.08	0%
Device 2	0.084	0.084	20.27	0.13	1%
Device 3	0.212	0.212	20.20	0.20	1%
Device 4	0.212	0.212	20.16	0.24	1%
Device 5	0.094	0.094	20.15	0.25	1%
Totals	0.678	0.95			

Circuit is within limits