





Reviewed for Code Compliance  
Permitting and Inspections Department  
Approved with Conditions

10/17/2019

Honeywell		IntelliKnight 6808 Battery Calculation									
SILENT KNIGHT		Secondary Power Source Requirements									
		Standby Current (amps)				Secondary Alarm Current (amps)					
Device Type	Qty	Current Draw	Total	Qty	Current Draw	Total					
1. Control Panel											
6808 Control Panel	1	x 0.190000	= 0.170000	1	x 0.250000	= 0.250000					
2. Addressable SLC Devices											
SK-PHOTO		x 0.000300	=		x 0.000300	=					
SK-PHOTO-T		x 0.000300	=		x 0.000300	=					
SK-HEAT		x 0.000300	=		x 0.000300	=					
SK-HEAT-HT		x 0.000300	=		x 0.000300	=					
SK-HEAT-ROR		x 0.000300	=		x 0.000300	=					
SK-BEAM		x 0.002000	=		x 0.002000	=					
SK-BEAM-T		x 0.002000	=		x 0.002000	=					
SK-DUCT		x 0.000300	=		x 0.000300	=					
SK-ACCLIMATE		x 0.000300	=		x 0.000300	=					
SK-CONTROL		x 0.000375	=		x 0.000375	=					
SK-MONITOR	3	x 0.000375	= 0.001125	3	x 0.000375	= 0.001125					
SK-MINIMON	1	x 0.000375	= 0.000375	1	x 0.000375	= 0.000375					
SK-PULL-SA		x 0.000375	=		x 0.000375	=					
SK-PULL-DA	2	x 0.000375	= 0.000750	2	x 0.000375	= 0.000750					
SK-MONITOR-2		x 0.000750	=		x 0.000750	=					
SK-MON-10		x 0.003500	=		x 0.003500	=					
SK-RELAY-6		x 0.001450	=		x 0.001450	=					
SK-CONTROL-6		x 0.002250	=		x 0.002250	=					
SK-RELAY		x 0.000255	=		x 0.000255	=					
SK-RELAYMON-2		x 0.001300	=		x 0.024000	=					
SK-ZONE		x 0.000270	=		x 0.000270	=					
SK-ZONE-6		x 0.002000	=		x 0.002000	=					
SK-FIRE-CO		x 0.000300	=		x 0.007200	=					
3. SLC Accessory Bases											
B200S		x 0.000300	=		x 0.000300	=					
B200S-LF		x 0.000300	=		x 0.000300	=					
B200SR		x 0.000300	=		x 0.000300	=					
B200SR-LF		x 0.000300	=		x 0.000300	=					
B224RB		x 0.000500	=		x 0.000500	=					
RTS151		x 0.000000	=		x 0.007500	=					
RTS151KEY		x 0.000000	=		x 0.007500	=					
RA100Z		x 0.000000	=		x 0.010000	=					
4. SLC Isolator Devices											
SK-ISO		x 0.000450	=		x 0.000450	=					
ISO-6		x 0.002700	=		x 0.102000	=					
B224BI		x 0.000500	=		x 0.000500	=					
5. Auxiliary Power Draw - SLC Devices											
SK-CONTROL (Aux. Power)		x 0.001700	=		x 0.007000	=					
SK-CONTROL-6 (Aux. Power)		x 0.008000	=		x 0.020000	=					
SK-ZONE (Aux. Power)		x 0.012000	=		x 0.090000	=					
SK-ZONE-6 (Aux. Power)		x 0.050000	=		x 0.270000	=					
B200S (Aux. Power)		x 0.000500	=		x 0.035000	=					
B200S-LF (Aux. Power)		x 0.000550	=		x 0.140000	=					
B200SR (Aux. Power)		x 0.000500	=		x 0.035000	=					
B200SR-LF (Aux. Power)		x 0.001000	=		x 0.125000	=					
6. Accessory Modules											
5860		x 0.020000	=		x 0.025000	=					
5860R		x 0.020000	=		x 0.025000	=					
5824		x 0.045000	=		x 0.045000	=					
5496		x 0.010000	=		x 0.010000	=					
5865-4		x 0.035000	=		x 0.145000	=					
5865-3		x 0.035000	=		x 0.145000	=					
5880		x 0.035000	=		x 0.200000	=					
5883		x 0.000000	=		x 0.220000	=					
SK-IP-2		x 0.093000	=		x 0.136000	=					
SK-IP-2UD		x 0.098000	=		x 0.155000	=					
CELL-MOD		x 0.055000	=		x 0.100000	=					
CELL-CAB-SK		x 0.055000	=		x 0.100000	=					
SK-NIC		x 0.021000	=		x 0.021000	=					
SK-NIC-KIT		x 0.021000	=		x 0.021000	=					
SK-FSL		x 0.079000	=		x 0.079000	=					
SK-FML		x 0.053000	=		x 0.053000	=					
SK-FFT		x 0.120000	=		x 0.230000	=					
7. Miscellaneous Devices											
Conventional Detectors		x 0.000000	=		x 0.000000	=					
SK-PHOTO-W	12	x 0.000300	= 0.003600	12	x 0.000000	= 0.000000					
SK-HEAT-W	1	x 0.000300	= 0.000300	1	x 0.000000	= 0.000000					
Miscellaneous Device 3		x 0.000000	=		x 0.000000	=					
Miscellaneous Device 4		x 0.000000	=		x 0.000000	=					
Miscellaneous Device 5		x 0.000000	=		x 0.000000	=					
8. Notification Appliance Circuits											
NAC 1		0.000000	=		0.675000	= 0.675000					
NAC 2		0.000000	=		1.071000	= 1.071000					
NAC 3		0.000000	=		0.765000	= 0.765000					
Door-Holder 1		0.000000	=		0.000000	=					
Total Standby Load			0.176150	Total Alarm Load			2.763250				

		<b>IntelliKnight 6808 Battery Calculation</b>									
<b>Calculation in Total Sheet</b>											
						<b>Required Standby Time in Hours</b>					
						24 Hours					
Standby Load Current		0.17615 Amps				x	24		=	4.228 AH	
						<b>Required Alarm Time in Minutes</b>					
						5 Minutes					
Alarm Load Current (Amps)		2.76325 Amps				x	0.084		=	0.232 AH	
						<b>Total Current Load</b>					
						<b>4.460 AH</b>					
Multiply by the Derating Factor						1.2				=	x 1.20
						<b>Total Ampere Hours Required</b>					
						<b>5.35 AH</b>					
<b>Batteries:</b>						<b>18AH</b>					

Honeywell		IntelliKnight 6808 Circuit Detail									
											
NAC 1											
Device	Qty	Non-Alarm Draw		Total	Qty	Alarm Draw		Total			
P2RL @ 15 Candela	8	x	0.000000	=	0.000000	8	x	0.073000	=	0.584000	
P2RK @ 15 Candela	1	x	0.000000	=	0.000000	1	x	0.091000	=	0.091000	
		x	0.000000	=		x	0.000000	=			
		x	0.000000	=		x	0.000000	=			
		x	0.000000	=		x	0.000000	=			
		x	0.000000	=		x	0.000000	=			
		x	0.000000	=		x	0.000000	=			
		x	0.000000	=		x	0.000000	=			
		x	0.000000	=		x	0.000000	=			
		x	0.000000	=		x	0.000000	=			
		x	0.000000	=		x	0.000000	=			
		x	0.000000	=		x	0.000000	=			
		x	0.000000	=		x	0.000000	=			
Total Standby Load					0.000000	Total Alarm Load				0.675000	

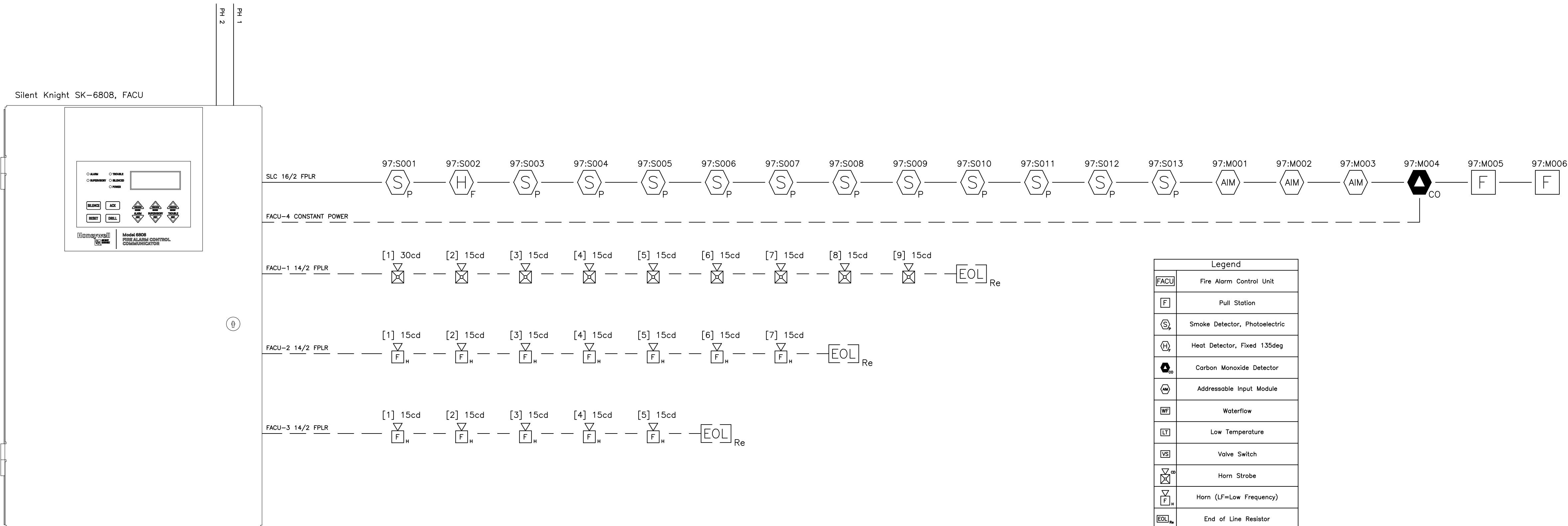
NAC 2										
Device	Qty	Non-Alarm Draw		Total	Qty	Alarm Draw		Total		
HR-LF	7	x	0.000000	=	0.000000	7	x	0.153000	=	1.071000
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
Total Standby Load					0.000000	Total Alarm Load				1.071000

NAC 3				
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SLC WIREFLOW SHOWN AS SOLID LINE, NAC OR PWR SHOWN AS DASHED

CITY/TOWN APPROVAL

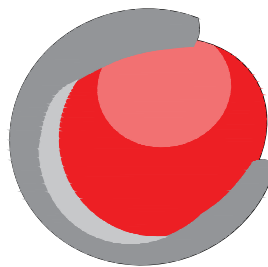
John Mocker, SET  
*John Mocker*  
NICET Level IV - Fire Alarm  
Technician ID: 137219  
Expires: 11/1/2022

NICET APPROVAL

0	Issued for Review
1	
2	
3	

Revisions

PORT PROPERTY MANAGEMENT	DATE	09-03-2019	AUTHOR	ZS	SCALE	None	55 WILLIAM STREET PORTLAND, ME
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CUNNINGHAM  
SECURITY SYSTEMS

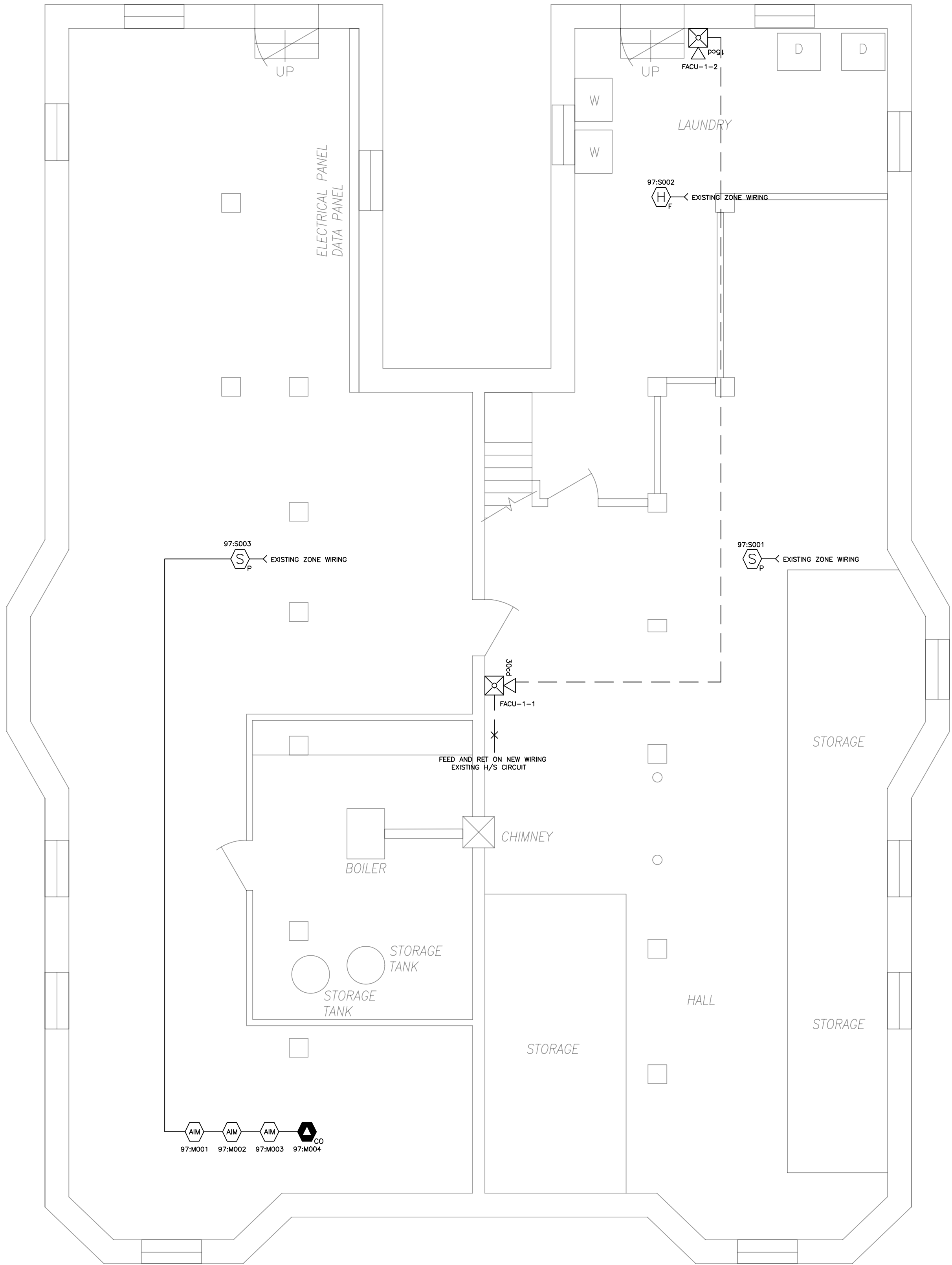
RISER

FA-2



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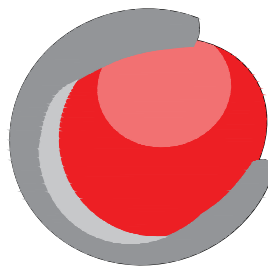
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NICET APPROVAL

0	Issued for Review
1	
2	
3	

Revisions

PORT PROPERTY MANAGEMENT				
DATE	09-03-2019	AUTHOR	ZS	
SCALE	1/4" = 1'-0"			
	55 WILLIAM STREET			
	PORTLAND, ME			



CUNNINGHAM  
SECURITY SYSTEMS

BASEMENT

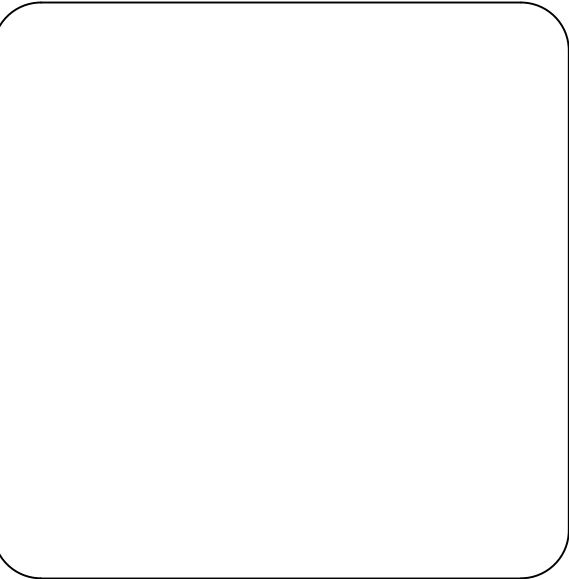
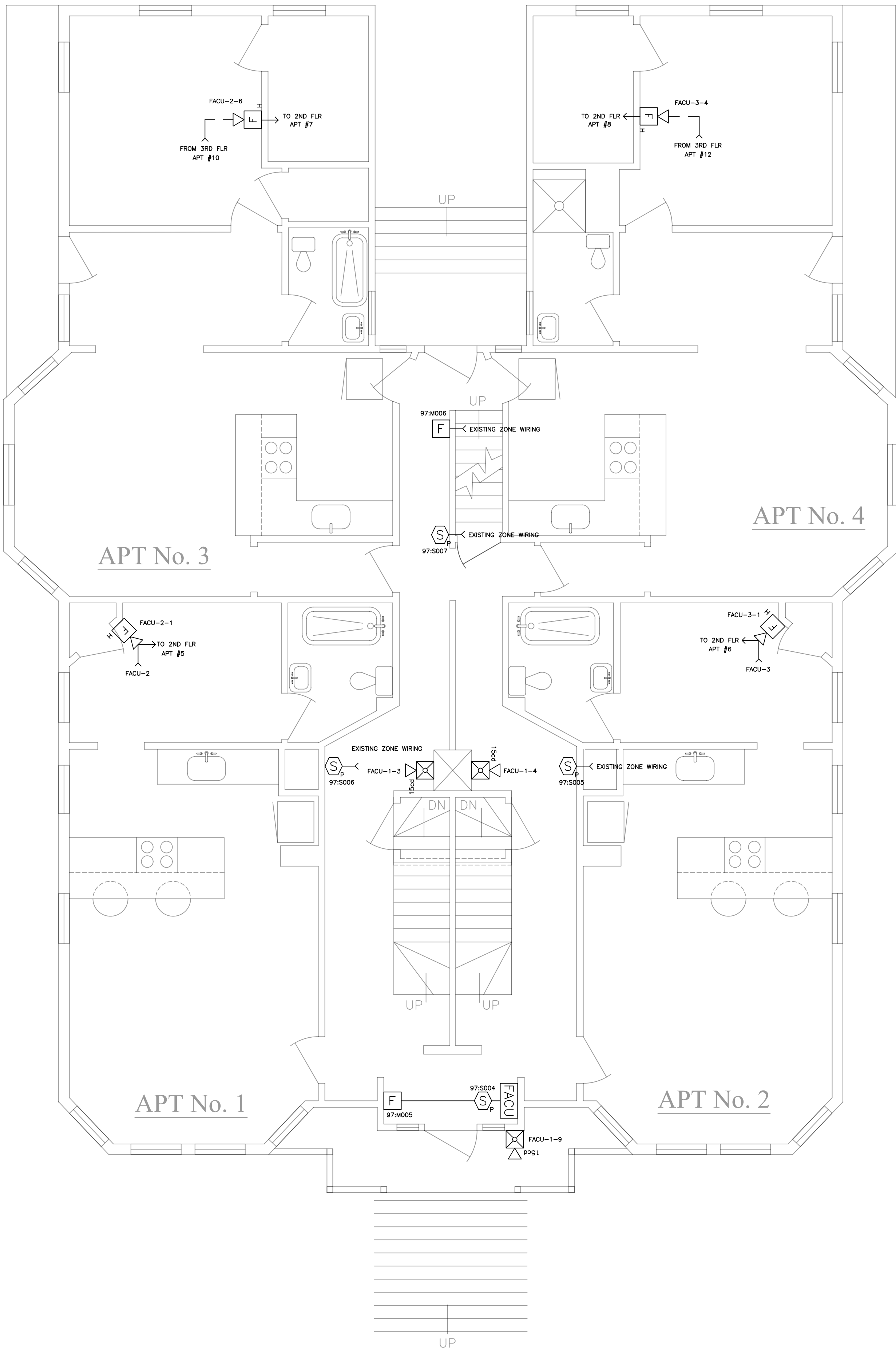
FA-3





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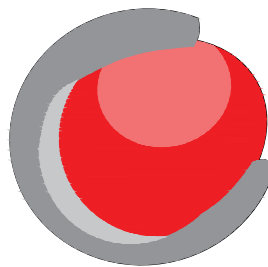
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NICET APPROVAL

0	Issued for Review
1	
2	
3	

Revisions

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	55 WILLIAM STREET			
	PORTLAND, ME			



CUNNINGHAM  
SECURITY SYSTEMS

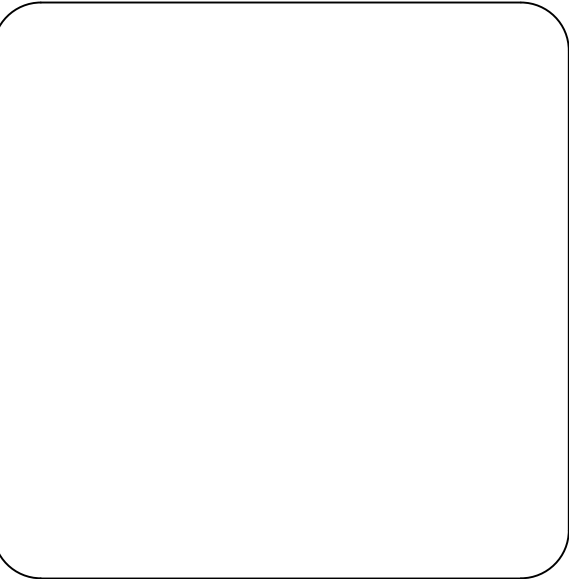
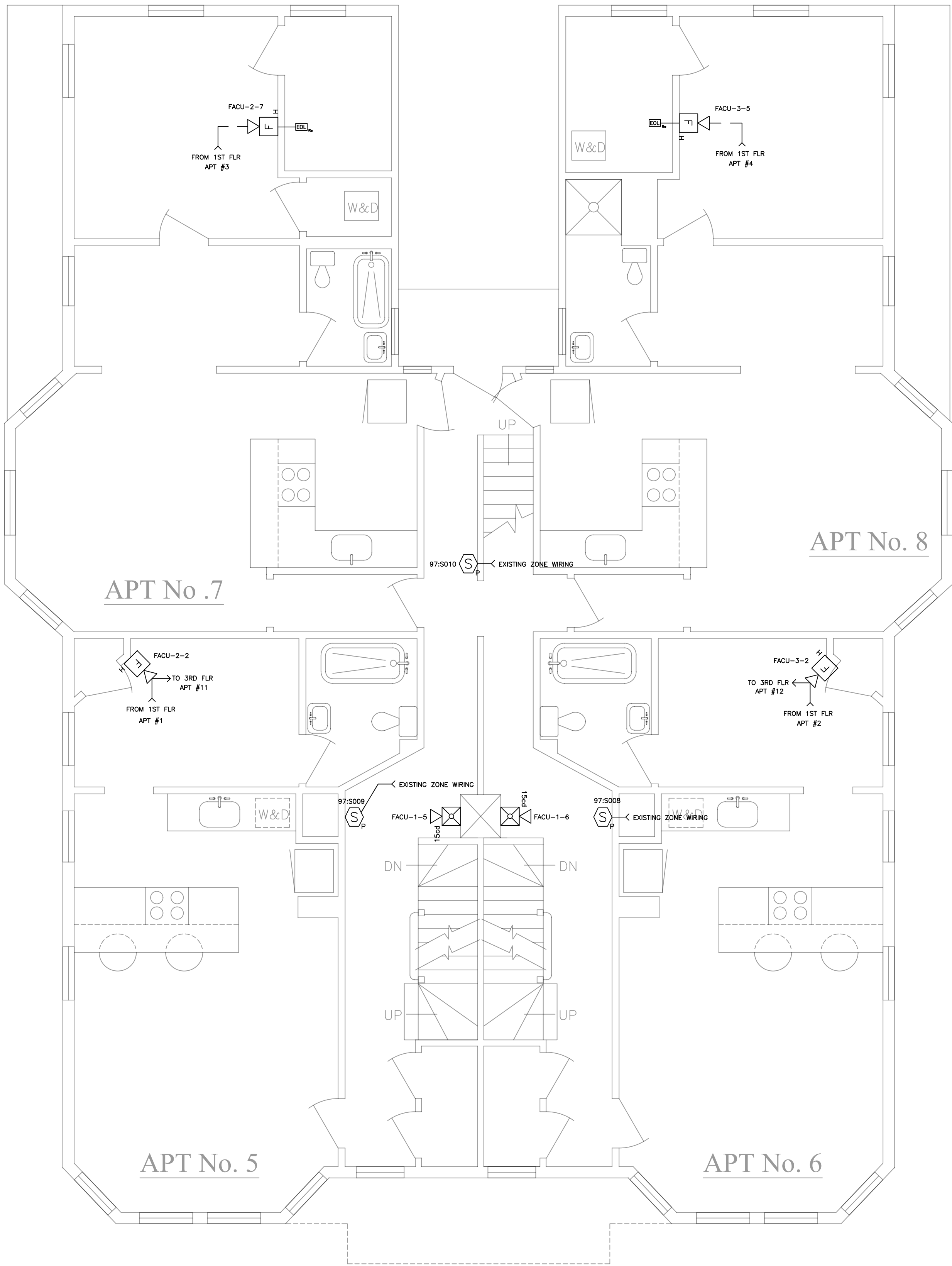
FIRST FLOOR

FA-4



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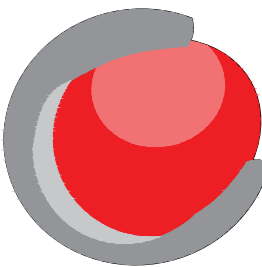
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NICET APPROVAL

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1	
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3	

Revisions

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	PORTLAND, ME			



CUNNINGHAM  
SECURITY SYSTEMS

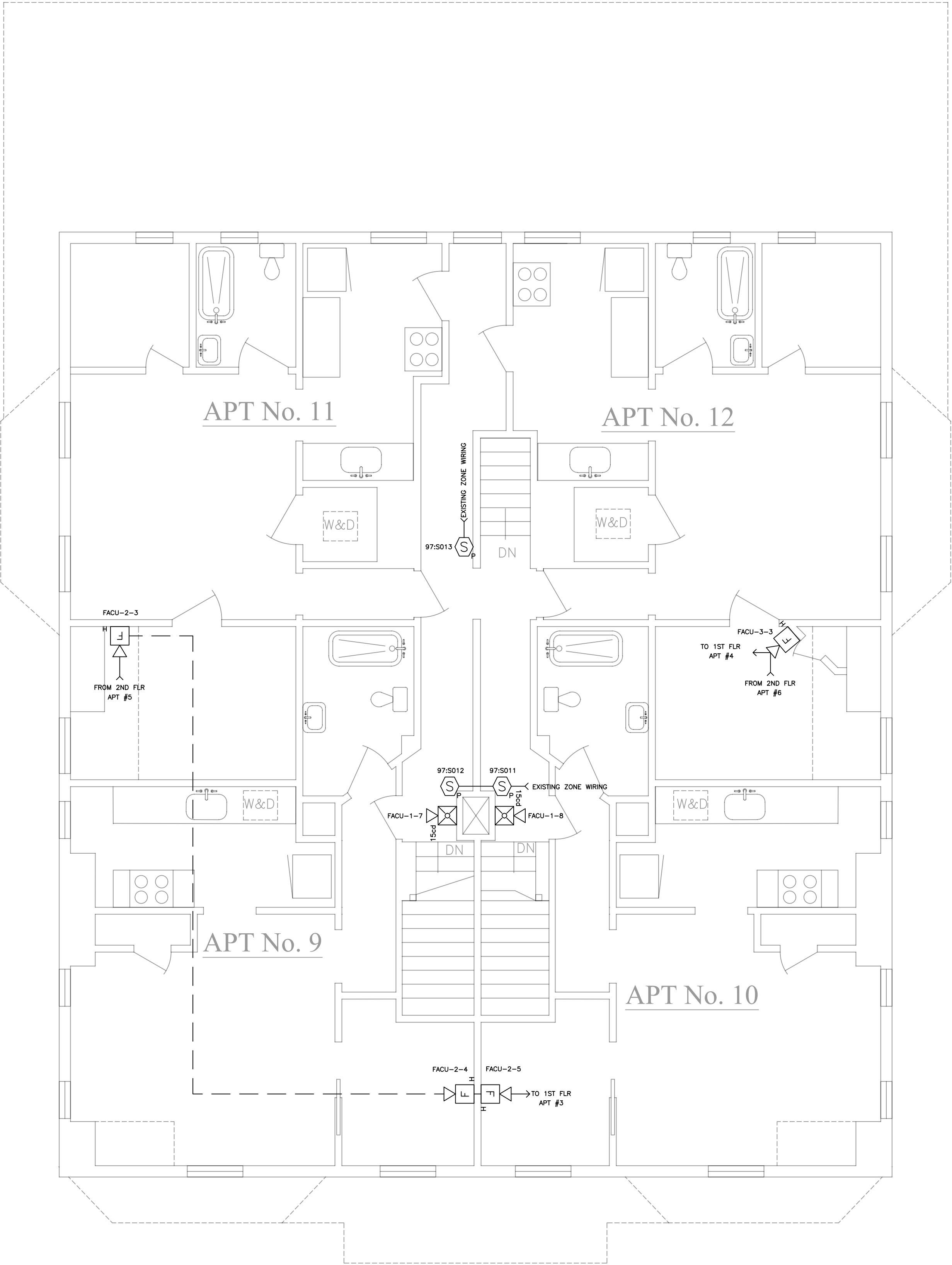
SECOND FLOOR

FA-5



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CITY/TOWN APPROVAL

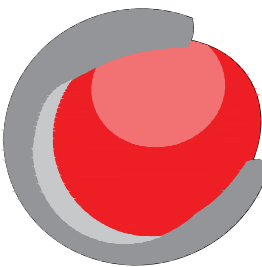
John Mocker, SET  
*John Mocker*  
NICET Level IV - Fire Alarm  
Technician ID: 137219  
Expires: 11/1/2022

NICET APPROVAL

0	Issued for Review
1	
2	
3	

Revisions

PORT PROPERTY MANAGEMENT				
DATE	09-03-2019			
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	55 WILLIAM STREET			
	PORTLAND, ME			



CUNNINGHAM  
SECURITY SYSTEMS

THIRD FLOOR

FA-6