1 ELECTRICAL POWER & SYSTEMS PLAN

SCALE: 1/4"=1'

2 NURSE CALL RISER

SCALE: NOT TO SCALE

DIRECTORY	KVA LOAD A	KVA LOAD B	KVA LOAD C	CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD A	KVA LOAD B	KVA LOAD C	DIRECTORY
SPARE	*			1	20	A	50	2	5.0			ROOFTOP CONDENSER CU-3
DENTAL EXAM RECEPTS		*		3	20	B		4		5.0		
DENTAL CHAIR 1			*	5	20	C		6			5.0	
DENTAL CHAIR 2	*			7	20	A	20	8	0.4			AIR HANDLER 3
STAFF ROOM		*		9	20	B		10		0.4		
SPARE			*	11	20	C	30	12			2.3	ROOFTOP CONDENSER CU-10
DENTAL ROOMS	*			13	20	A		14	2.3			
DENTAL EQUIP PROC. RECEPTS		**0.8**		15	20	B	20	16		0.4		AIR HANDLER #10
CHECK-IN RECEPTS			*	17	20	C	20	18			0.5	EXISTING EMERGENCY LTS
LARGE EXAM/COUNSEL RECEPTS	**0.8**			19	20	A	20	20	0.8			TELEPHONE PANEL
COUNSEL, TOILET		*		21	20	B	20	22		**1.5**		**CORRIDOR LTS**
WAITING AREA RECEPTS			*	23	20	C	20	24			**1.0**	**CORRIDOR LTS**
CHECK-IN RECEPTS	**1.4**			25	20	A	20/20	26	1.2			XRAY RECEPTS
EXISTING CIRCUIT		*		27	20	B	20	28		1.2		XRAY RECEPTS
EXISTING CIRCUIT			*	29	20	C	20	30			*	XRAY PANOGRAPH
PANEL P1	**3.5**			31	**60**	A	30	32	2.3			WATER HEATER
		3.5		33		B		34		2.3		
			4.1	35		C	20	36			*	DENTAL AIR COMPRESSOR
BATHROOM	*			37	20	A	20	38	*			DENTAL VACUUM
EXAM #1 RECEPTS		**0.8**		39	20	B	20	40		*		SPARE
DENTAL EXAM RECEPTS			*	41	20	C	20	42			*	SPARE
SUBTOTAL	###	###	###						###	###	###	SUBTOTAL

VOLTAGE: 208Y/120V PHASE: 3 POLES: 4	TOTAL KVA A-PHASE	###	PANEL: P
MAIN LUGS ONLY BUS AMPS: 200A	TOTAL KVA B-PHASE	###	
MOUNTING: RECESSED	TOTAL KVA C-PHASE	###	LOCATION: CORRIDOR 012
SHORT CIRCUIT RATING: 10KAIC	TOTAL KVA	###	

NOTES:
FOR ANY NEW BREAKERS REQUIRED, MATCH MANUFACTURER PART TYPE AND KAIC RATING TO EXISTING BREAKERS IN PANEL.

DIRECTORY	KVA LOAD A	KVA LOAD B	KVA LOAD C	CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD A	KVA LOAD B	KVA LOAD C	DIRECTORY
SPARE	*			1	20	A	15	2	0.4			ERV-1
STAFF TEAM ROOM RECEPTS		1.2		3	20	B		4		0.4		
STAFF TEAM ROOM RECEPTS			1.4	5	20	C	20	6			0.1	ERV MODS
CHECK-IN COPIER	1.0			7	20	A	15	8	0.9			ENTRANCE ELECTRIC BASEBOARD HEAT
CARD ACCESS PANEL		1.0		9	20	B		10		0.9		
UNDERCOUNTER REFRIGERATOR			1.0	11	20	C	20	12			1.0	CLINICAL LAB RECEPTS
UNDERCOUNTER REFRIGERATOR	1.0			13	20	A	20	14	0.2			PHLEBOTOMY ALCOVE RECEPTS
UNDERCOUNTER REFRIGERATOR		1.0		15	20	B	20	16		*		SPARE
EXAM #2 (TRIAGE) RECEPTS			0.8	17	20	C	20	18			0.8	EXAM #5 (ISOL) RECEPTS
CORRIDOR SCALE RECEPT	0.2			19	20	A	20	20	0.8			MED ROOM RECEPTS
SPARE		*		21	20	B	20	22		*		SPARE
SPARE			*	23	20	C	20	24			*	SPARE
SUBTOTAL	2.2	3.2	3.2						2.3	1.3	1.9	

VOLTAGE: 208Y/120V PHASE: 3 POLES: 4	TOTAL KVA A-PHASE	4.5	PANEL: P1
MAIN LUGS ONLY BUS AMPS: 100A	TOTAL KVA B-PHASE	4.5	
MOUNTING: SURFACE	TOTAL KVA C-PHASE	5.1	LOCATION: DATA CLOSET
SHORT CIRCUIT RATING: 10KAIC	TOTAL KVA	14.1	

NOTES:

3 PANEL SCHEDULES

SCALE: NOT TO SCALE

NOTES:

1. SEE E0.0 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. 20 AMP DUPLEX AND QUAD HOSPITAL GRADE RECEPTACLES REQUIRED FOR ALL EXAM ROOMS, LABS, TREATMENTS ROOMS AND PROCESSING ROOMS.
3. 2" X 4" WORK BOX SHALL BE USED AT EACH VOICE AND DATA JACK LOCATION. STUB UP TO CEILING WITH 3/4" MINIMUM EMT CONDUIT. DEVICES AND INSTALLATION SHALL BE BY OWNER'S I.T. PROVIDER. VOICE/DATA CABLES WILL BE TERMINATED IN DATA CLOSET OFF THE STAFF LOUNGE.
4. ALL NEW CIRCUITS AND NEW PANEL ARE IN BOLD TYPE. EXISTING PANEL AND EXISTING CIRCUITS ARE IN REGULAR TYPE.

KEYED NOTES:

1. MOUNT 42" ABOVE FINISHED FLOOR.
2. MOUNT 6" ABOVE COUNTERTOP. COORDINATE WITH BACKSPLASH.
3. CIRCUIT FOR MOTOR-OPERATED DAMPERS.
4. 15 AMP 2-POLE CIRCUIT FOR ENERGY RECOVERY UNIT. LOCATION ABOVE CEILING.
5. MOUNT QUAD POWER RECEPTACLES AND PHONE/DATA CONNECTOR BELOW COUNTERTOPS.
6. EXISTING DOMESTIC HOT WATER HEATER. REFER TO MANUFACTURERS WIRING DIAGRAM FOR CALL LIGHT AND CALL STATION WIRING DETAILS.
7. REFER TO MANUFACTURERS WIRING DIAGRAM FOR CALL LIGHT AND CALL STATION WIRING DETAILS.
8. EXISTING NURSE CALL MASTER STATION.
9. EXISTING NURSE STATION POWER SUPPLY.
10. NEW CALL LIGHT. MATCH WITH EXISTING MANUFACTURER AND PART NUMBER.
11. NEW EMERGENCY PULL CORD MATCH WITH EXISTING MANUFACTURER AND PART NUMBER.
12. FURNISH BOXES AND CONDUITS FOR CARD READER AND ELECTRIC LOCK/STRIKE. COORDINATE WITH DOOR HARDWARE. WIRE BACK TO DATA ROOM.
13. NEW 200A 3-POLE BREAKER. MATCH KAIC RATING TO THE EXISTING 150 AMP 3-POLE BREAKER.
14. UNDER COUNTER REFRIGERATOR RECEPTACLE.

WIRING SCHEDULE:

A 4#3/0AWG CU & #6GND, 2"C.

B 4#3AWG CU & #8GND, 1-1/4"C.

4 ONE-LINE DIAGRAM

SCALE: NOT TO SCALE

MorrisSwitzer ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
888.781.8441 207.773.8941
183 Middle Street, Portland
BOSTON | DALLAS | NEW YORK | BURLINGTON | PO
eHarchitex

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STATE OF MAINE ROBERT J. CURRAN 11160 LICENSED PROFESSIONAL ENGINEER

SWIFTCURRENT Engineering Services
10 Forest Falls Dr. Unit 4B
Yarmouth, ME 04096
Tel: (207) 847-9280

Greater Portland Health
63 Preble Street Renovation

Portland, Maine

REV	DESCRIPTION	DATE
	ISSUED FOR CONSTRUCTION	7-26-17

SEAL:

PROJECT NUMBER: 201708

DATE: 07/26/2017

ELECTRICAL POWER & SYSTEMS PLAN

E1.0

Unnamed