ELECTRICAL SYMBOLS LIST
(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)

LIGHTING SYMBOLS

NL 'A' a , NL 'A' a NL 'A'	2'x4'/2'x2'/1'x4' FLUORESCENT CEILING MOUNTED FIXTURE 'A' = FIXTURE TYPE 'a' = CONTROLLED BY SWITCH 'a' NS = NOT SWITCHED NL = NIGHT LIGHT
◪ 'A' a , ◪ 'A' a ◪ 'A' a	SIMILAR TO ABOVE WITH EMERGENCY BACKUP 'A' = FIXTURE TYPE 'a' = CONTROLLED BY SWITCH 'a'
NL 'A' a	WALL MOUNTED FLUORESCENT LIGHT FIXTURE 'A' = FIXTURE TYPE 'a' = CONTROLLED BY SWITCH 'a' NL = NIGHT LIGHT
EM ├──┤ 'A' a	FLUORESCENT STRIP FIXTURE–TYPE AS NOTED 'A' = FIXTURE TYPE 'a' = CONTROLLED BY SWITCH 'a' EM = EMERGENCY BACKUP
▭ 'A'	UNDERCABINET LIGHT FIXTURE 'A' = FIXTURE TYPE
○ 'A' a	CEILING MOUNTED FIXTURE 'A' = FIXTURE TYPE 'a' = CONTROLLED BY SWITCH 'a'
◐ 'A' a	SIMILAR TO ABOVE WITH EMERGENCY BACKUP 'A' = FIXTURE TYPE 'a' = CONTROLLED BY SWITCH 'a'
○┤ 'A' a	WALL MOUNTED LIGHT FIXTURE 'A' = FIXTURE TYPE 'a' = CONTROLLED BY SWITCH 'a'
◐┤ 'A' a	SIMILAR TO ABOVE WITH EMERGENCY BACKUP 'A' = FIXTURE TYPE 'a' = CONTROLLED BY SWITCH 'a'
<○ 'A' a	ACCENT LIGHT OR WALL WASHER 'A' = FIXTURE TYPE 'a' = CONTROLLED BY SWITCH 'a'
<◐ 'A' a	SIMILAR TO ABOVE WITH EMERGENCY BACKUP 'A' = FIXTURE TYPE 'a' = CONTROLLED BY SWITCH 'a'
⊗ 'A'	CEILING MOUNTED EXIT LIGHT – DIRECTIONAL ARROWS WHERE INDICATED – SHADED AREAS INDICATE ILLUMINATED FACE/FACES 'A' = FIXTURE TYPE
⊗┤ 'A'	WALL MOUNTED EXIT LIGHT – DIRECTIONAL ARROWS WHERE INDICATED – SHADED AREAS INDICATE ILLUMINATED FACE/FACES 'A' = FIXTURE TYPE
▽▽ 'A'	EMERGENCY BATTERY LIGHT UNIT 'A' = FIXTURE TYPE
'A', 'B'	REMOTE LIGHT HEADS FOR EMERGENCY BATTERY LIGHT UNIT TYPE AS NOTED

POWER SYMBOLS

S_a^3	SINGLE POLE SWITCH 2 = DOUBLE POLE 3 = THREE–WAY 4 = FOUR–WAY a = CONTROLS SWITCH LEG 'a' D = DOOR K = KEY OPERATED MO = MOMENTARY CONTACT T = TIMER SWITCH P = PILOT LIGHT
$m	DISCONNECT SWITCH – TOGGLE TYPE MOTOR RATED, 20A, 1P, UON
D a 450	WALL DIMMER – TYPE 'a' # = WATTAGE RATING
OS	OCCUPANCY SENSOR, CEILING MOUNTED
OS┤	OCCUPANCY SENSOR, WALL MOUNTED
△1 CR┤	CARD READER
PC	PHOTO CONTROL SWITCH
△1 TC┤	TIME CLOCK
T	TRANSFORMER
⊖ a	20A, 125V DUPLEX RECEPTACLE – FLUSH WALL MOUNTED CONTROLLED FROM WALL SWITCH 'a'
⊕	20A, 125V QUADRUPLEX RECEPTACLE – FLUSH WALL MOUNTED
⊖	20A, 125V ISOLATED GROUND, DUPLEX RECEPTACLE, FLUSH FLOOR MOUNTED
⊖	20A, 125V DUPLEX RECEPTACLE FLUSH WALL MOUNTED GFI TYPE.
⊖	20A, 125V EMERGENCY DUPLEX RECEPTACLE FLUSH WALL MOUNTED
⊖	SINGLE RECEPTACLE – FLUSH WALL MOUNTED
⊘	20A, 125V DUPLEX RECEPTACLE SURFACE MOUNTED
⊖	20A, 125V SURGE SUPPRESSION DUPLEX RECEPTACLE FLUSH WALL MOUNTED
⊖	20A, 125V DUPLEX RECEPTACLE FLUSH FLOOR MOUNTED
⊕	20A, 125V QUADRUPLEX RECEPTACLE FLUSH FLOOR MOUNTED
⊘ A	SPECIAL PURPOSE RECEPTACLE – FLUSH WALL MOUNTED A = TYPE
B ▽ A	PLUG–IN SURFACE METAL RACEWAY – LETTER INDCIATES TYPE – WITH SPECIAL PURPOSE RECEPTACLES WHERE INDICATED

5 3 1	HOMERUN–NUMERAL WHERE USED INDICATES CIRCUIT NUMBER FOR REFERENCE ONLY. 2#12+1#12G–3/4"C FOR ONE CKT. HOMERUN, U.O.N. 3#12+1#12G–3/4"C FOR TWO CKT. HOMERUN, U.O.N. 4#12+1#12G–3/4"C FOR THREE CKT. HOMERUN, U.O.N.
──→ 1	HOMERUN – NUMERAL WHERE USED INDICATES CIRCUIT NUMBER FOR REFERENCE ONLY
⊠	MOTOR CONTROLLER
100/3 ⊠	COMBINATION MOTOR CONTROLLER AND DISCONNECT SWITCH SWITCH AMPS/# OF POLES, VOLTAGE RATING AS REQUIRED
30/3 ▭	UNFUSED DISCONNECT SWITCH SWITCH AMPS/# OF POLES, VOLTAGE RATING AS REQUIRED
100/60/3 ◺	FUSED DISCONNECT SWITCH; SWITCH AMPS/FUSE AMPS/ # OF POLES, VOLTAGE RATING AS REQUIRED
100/3 CB	ENCLOSED CIRCUIT BREAKER TRIP AMPS/# OF POLES, VOLTAGE RATING AS REQUIRED NA = NONAUTOMATIC
▬	SURFACE MOUNTED LIGHTING PANELBOARD
▬	FLUSH MOUNTED LIGHTING PANELBOARD
▨	SURFACE MOUNTED POWER PANELBOARD
▨	FLUSH MOUNTED POWER PANELBOARD
▨	SURFACE MOUNTED POWER DISTRIBUTION PANELBOARD
Ⓙ	CEILING MOUNTED JUNCTION BOX
Ⓙ┤	FLUSH WALL MOUNTED JUNCTION BOX
J	FLUSH FLOOR MOUNTED JUNCTION BOX
▩	PULLBOX
☐ P	POWER POLE
─x─x─x─	EXISTING CONDUIT TO BE REMOVED
───	EXISTING CONDUIT/EQUIPMENT TO REMAIN
⌒	NEW CONCEALED CONDUIT
── ‒ ‒ ──	NEW EXPOSED CONDUIT
─·─·─	NEW UNDERGROUND/IN SLAB CONDUIT
── ‒ ──	NEW EMERGENCY CONDUIT
───○	CONDUIT TURNING UP
───◯	CONDUIT TURNING DOWN
○∿→	CONDUIT STUB–UP WITH FLEXIBLE EQUIPMENT CONNECTION
∿→	FLEXIBLE EQUIPMENT CONNECTION
───]	CAPPED CONDUIT
⊡ K	PUSH BUTTON K = KEY OPERATED H = HOLD UP P = PANIC EPO = EM. POWER OFF
A / #	SECTION A # = DRAWING NUMBER

SINGLE LINE DIAGRAM SYMBOLS

480V 500KVA 120/208	POWER TRANSFORMER VOLTAGES, WINDINGS AND SIZE AS INDICATED
ATS 100A 4P	AUTOMATIC TRANSFER SWITCH ATS = AUTOMATIC TRANSFER MTS = MANUAL TRANSFER POLES AND RATING AS NOTED
Ⓜ	MOTOR
Ⓖ	GENERATOR
──┤	GROUND CONNECTION
100/90/3	FUSED SWITCH 100 AMP SWITCH – 90 AMP FUSE – 3 POLE
100/3	UNFUSED SWITCH – 100 AMP SWITCH – 3 POLE
90/3	CIRCUIT BREAKER – MOLDED CASE TYPE AMP TRIP / # OF POLES LT = LONG TIME SETTING ST = SHORT TIME SETTING I = INSTANTANEOUS SETTING
Ⓜ	DIGITAL MULTIMETER
400/5 3	CURRENT TRANSFORMER NUMBER AND RATIO AS INDICATED
100/90/3	COMBINATION MOTOR CONTROLLER AND FUSED DISCONNECT SWITCH SWITCH AMPS / FUSE AMPS / # OF POLES, VOLTAGE RATING & STARTER SIZE AS REQ'D
90/3	COMBINATION MOTOR CONTROLLER AND CIRCUIT BREAKER TRIP AMPS / # OF POLES, VOLTAGE RATING & STARTER SIZE AS REQ'D

FIRE ALARM SYSTEM

S F	CEILING MOUNTED SPACE SMOKE DETECTOR F = MOUNTED UNDER RAISED FLOOR
R	REMOTE SPACE SMOKE DETECTOR ALARM LIGHT – WALL MOUNTED
D	DUCT SMOKE DETECTOR
H F	THERMAL DETECTOR RATE–OF–RISE F = FIXED TEMPERATURE
W	SPRINKLER WATER FLOW SWITCH
T	SPRINKLER TAMPER SWITCH
PS	SPRINKLER PRESSURE SWITCH
SD	MOTORIZED SMOKE DAMPER, FBO
F	FIRE ALARM PULL STATION
F◀	COMBINATION FIRE ALARM SPEAKER AND STROBE LIGHT UNIT – FLUSH WALL MOUNTED
F◁ C	FIRE ALARM SPEAKER – FLUSH WALL MOUNTED C = CEILING MOUNTED
H◀	COMBINATION FIRE ALARM HORN AND STROBE LIGHT UNIT FLUSH WALL MOUNTED
H◁ C	FIRE ALARM HORN – FLUSH WALL MOUNTED C = CEILING MOUNTED
MM	FIRE ALARM MONITOR MODULE
CM	FIRE ALARM CONTROL MODULE
DH	DOOR HOLDERS
ER	ELEVATOR RECALL TIE–IN POINT
DR	ELECTROMAGNETIC DOOR RELEASE
△1 DS	ELECTROMAGNETIC DOOR STRIKE
┤Ⓕ	FLUSH WALL MOUNTED STROBE LIGHT UNIT
FAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL

VOICE/DATA/P.A. SYMBOLS

Ⓢ D	WALL MOUNTED PUBLIC ADDRESS SPEAKER D = DUAL HORN
Ⓢ D	CEILING MOUNTED PUBLIC ADDRESS SPEAKER D = DUAL HORN
▼#/#	VOICE & DATA OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED IN A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING #/# = # OF VOICE JACKS/# OF DATA JACKS
▼#	VOICE OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED IN A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING P = PUBLIC F = FAX W = WALL MOUNTED 48" AFF # = NUMBER OF JACKS
▽#	DATA OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED IN A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING # = NUMBER OF JACKS
TV	TELEVISION OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED IN A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING

HEALTHCARE SYMBOLS

M	NURSE CALL MASTER STATION
E	NURSE CALL EMERGENCY STATION
L	NURSE CALL LAVATORY STATION
D	NURSE CALL DUTY STATION
S	NURSE CALL STAFF STATION
B	NURSE CALL CODE BLUE STATION
NC F	NURSE CALL EQUIPMENT CABINET–SURFACE MOUNTED F = FLUSH WALL MOUNTED
I 1	NURSE CALL CORRIDOR LAMP, WALL MOUNTED C = CEILING MOUNTED # = NUMBER OF LAMP SECTIONS
Z 1	NURSE CALL ZONE LAMP, WALL MOUNTED, NUMBER OF LAMP SECTIONS EQUAL TO NUMBER OF COLORS IN ASSOCIATED CORRIDOR LAMPS. C = CEILING MOUNTED # = ZONE NUMBER
IC F	INTERCOM CENTRAL EQUIPMENT SURFACE MOUNTED F = FLUSH WALL MOUNTED
IC M	INTERCOM STATION M = MASTER STATION
PM	PHYSIOLOGICAL MONITORING – COMBINATION POWER/SIGNAL 2 GANG PARTITIONED WALLBOX WITH A DUPLEX RECEPTACLE AND 3/4"C (1.5"C AT NURSE'S STATION) TERMINATED IN A 90° BEND 6" INTO ACCESSIBLE CEILING FM = FETAL MONITOR

ABBREVIATIONS
(NOT ALL ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT)

+	SPECIAL MOUNTING HEIGHT. COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS
1P	SINGLE POLE
2P	TWO POLE
3P	THREE POLE
A	AMPERE
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
CAB	CABINET
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CTL	CONTROL
CONN	CONNECTED
CONT	CONTINUATION
CU	COPPER
DEG	DEGREE
°C	DEGREE CELSIUS
°F	DEGREE FAHRENHEIT
DIA	DIAMETER
DISC	DISCONNECT
DIV	DIVISION
DP	DISTRIBUTION PANEL BOARD
(E)	EXISTING TO REMAIN
EA	EACH
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EM	EMERGENCY
(ER)	EXISTING TO BE REMOVED
(ERR)	EXISTING TO BE REMOVED & RELOCATED
EXIST,EX	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAP	FIRE ALARM ANNUNCIATOR PANEL
FDR	FEEDER
FIXT	FIXTURE
FL	FLOOR
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
G	GROUND
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
HP	HORSE POWER
HZ	HERTZ
IG	ISOLATED GROUND
INCAND	INCANDESCENT
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MH	MANHOLE
MTD	MOUNTED
N	NEUTRAL
(N)	NEW
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
P	POLE
PB	PULL BOX
ø	PHASE
PNL	PANEL
PWR	POWER
(RE)	RELOCATED EXISTING
RECEPT,REC	RECEPTACLE
(RRO)	EXISTING TO BE REMOVED AND RETURN TO OWNER
SCHED,SCH	SCHEDULE
SPEC	SPECIFICATION
SP	SPEAKER
SW	SWITCH
SYS	SYSTEMS
UON	UNLESS OTHERWISE NOTED
V	VOLT OR VOLTAGE
XFMR	TRANSFORMER

ELECTRICAL GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.
2. SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE AND BRICK), MACHINE SCREWS (METAL), BEAM CLAMPS (FRAMEWORK), WOOD SCREWS (WOOD) OR PAN THRU STRAPS (METAL DECK). NAILS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FT APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
3. PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 6 INCHES OF STEAM OR HOT WATER PIPES OR APPLIANCES (EXCEPT PIPE CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 3 INCH FROM PIPE COVERS).
4. CUT CONDUIT ENDS SQUARE. REAM SMOOTH. PAINT MALE THREAD OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.
5. HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS ARE NOT PERMITTED. DO NOT RUN CONDUIT IN PRECAST ROOF SLABS, IN 2 INCH SLABS OR IN TERRAZZO FLOOR FINISH.
6. LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS. RACEWAYS OVER 10 FT LONG IN WHICH WIRING IS NOT INSTALLED: FURNISH FISH WIRE.
7. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
8. VERIFY LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.
9. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. COORDINATE WITH ARCHITECT AND INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY FINAL HINGE LOCATIONS IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
10. COVERS OF JUNCTION AND PULLBOXES SHALL BE READILY ACCESSIBLE.
11. PROVIDE PULLBOXES WHERE INDICATED, WHERE REQUIRED BY CODE AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. COORDINATE PULLBOX LOCATIONS WITH OTHER TRADES.
12. EMPTY RACEWAY RUNS: PROVIDE PULLBOXES EVERY 100 FT AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.
13. JUNCTION AND PULLBOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACES. WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT.
14. SUPPORT PANEL, JUNCTION AND PULLBOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.
15. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
16. CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH FLEXIBLE CONDUIT (MINIMUM 18 IN. LENGTH AND 50% SLACK). DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.
17. PROVIDE 2#14 INDICATING PILOT LIGHT WIRES FROM PILOT LIGHT IN CONTROLLER TO LOAD SIDE OF DISCONNECT SWITCH. RUN WIRES IN BRANCH CIRCUIT CONDUIT AND INCREASE CONDUIT SIZE AS REQUIRED.
18. PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32°F (0C). PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.
19. PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS. COMMON BOXES: PROVIDE BARRIERS BETWEEN EMERGENCY AND NORMAL WIRING.
20. HEIGHTS OF OUTLETS FROM FINISHED FLOOR TO CENTERLINE OF OUTLET:

RECEPTACLES AND TELEPHONES:	
GENERALLY	1'–6"
OVER WORK BENCHES	3'–6"
WALL SWITCHES	4'–0"
WALL FIXTURES	7'–0"
MOTOR CONTROLLERS FA	5'–0"
SPEAKERS & STROBES	6'–8" AFF OR 6" BELOW CEILING (WHICHEVER IS LOWER)
FA PULL STATIONS	4'–0"
CLOCKS	7'–6"
FA STROBE LIGHTS	6'–8" TO BOTTOM

EXCEPTIONS: AT JUNCTION OF DIFFERENT WALL FINISH MATERIALS, ON MOLDING OR BREAK IN WALL SURFACE, IN VIOLATION OF CODE REQUIREMENTS, AS NOTED OR DIRECTED.

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND CONFIRMING ALL MOUNTING HEIGHTS WITH ARCHITECT AND ARCHITECTURAL DRAWINGS.

21. WIRE COLOR CODING: AS PER CODE. WHERE COLOR–CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 6") IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.
22. INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS: ONLY WITH WRITTEN CONSENT OF OWNER. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES. ALARM AND EMERGENCY SYSTEMS ARE NOT TO BE INTERRUPTED.
23. FIRESTOPPING SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED CONSTRUCTION.
24. LIGHTING FIXTURE SCHEDULE STANDARD NOTE: LIGHTING FIXTURE SCHEDULE SHOWN ON ENGINEER'S DRAWINGS ARE FOR INFORMATION PURPOSES ONLY. LIGHTING FIXTURES SHOWN ARE THOSE SELECTED BY ARCHITECT. ENGINEER SHALL NOT BE RESPONSIBLE FOR INFORMATION SHOWN RELATED TO FIXTURE SELECTION AND OVERALL LIGHTING DESIGN. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION

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Revisions

07–18–07	DESIGN DEVELOPMENT
08–23–07	CONSTRUCTION DOCUMENTS
△1 09–25–07	ADDENDUM #1

Sheet
ELECTRICAL
COVER SHEET

Project
Landmark Healthcare
Facilities LLC

Fore River Medical
Pavillon
Portland, Maine

Date
August 23, 2007

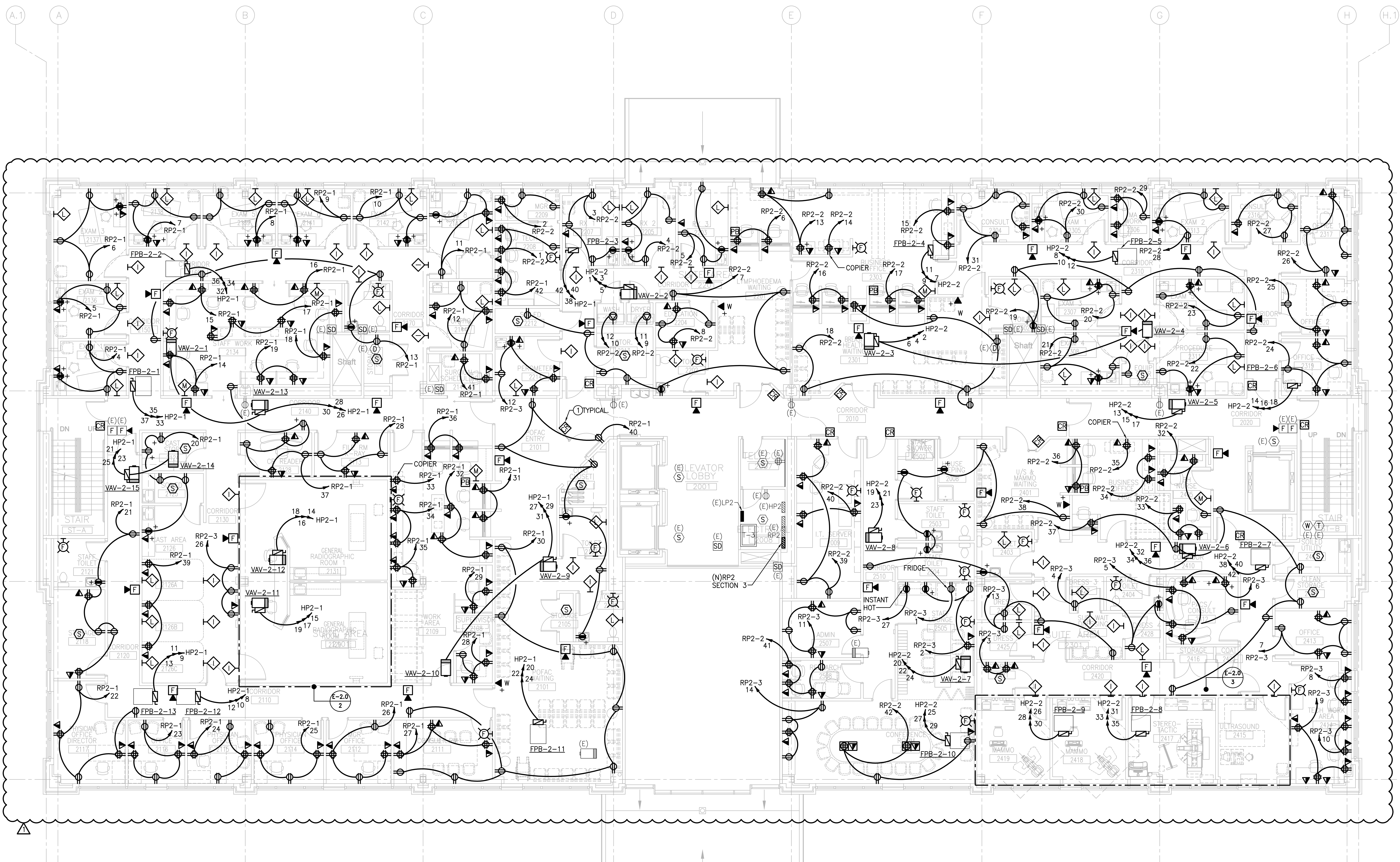
Project No.
07-5198

Sheet No.
E-1.0

Frank Lorenz
PROFESSIONAL ENGINEER
NO. MA 7907

0 1/4" 1/8" 1/2" 1" 2" 3"

P:\P060000\P060106-A – Mercy Health 2nd and 3rd Floor fit–out\Drawings\Elec\P060106-A.E–1.0.dwg 09/25/07 8:55 AM TBlancha


A-1
A
B
C
D
E
F
G
H
H-1
4
3
2
1
STAIR
ST-A
ELEVATOR LOBBY
2001
CORRIDOR
2010
(N)RP2
SECTION 3
1 TYPICAL
COPIER
FRIDGE
INSTANT HOT
VAV-2-13
VAV-2-14
VAV-2-15
FPB-2-1
FPB-2-3
FPB-2-4
FPB-2-5
FPB-2-6
FPB-2-7
FPB-2-8
FPB-2-9
FPB-2-10
FPB-2-11
FPB-2-12
FPB-2-13
E-2.0
2
3

1 SECOND FLOOR PLAN

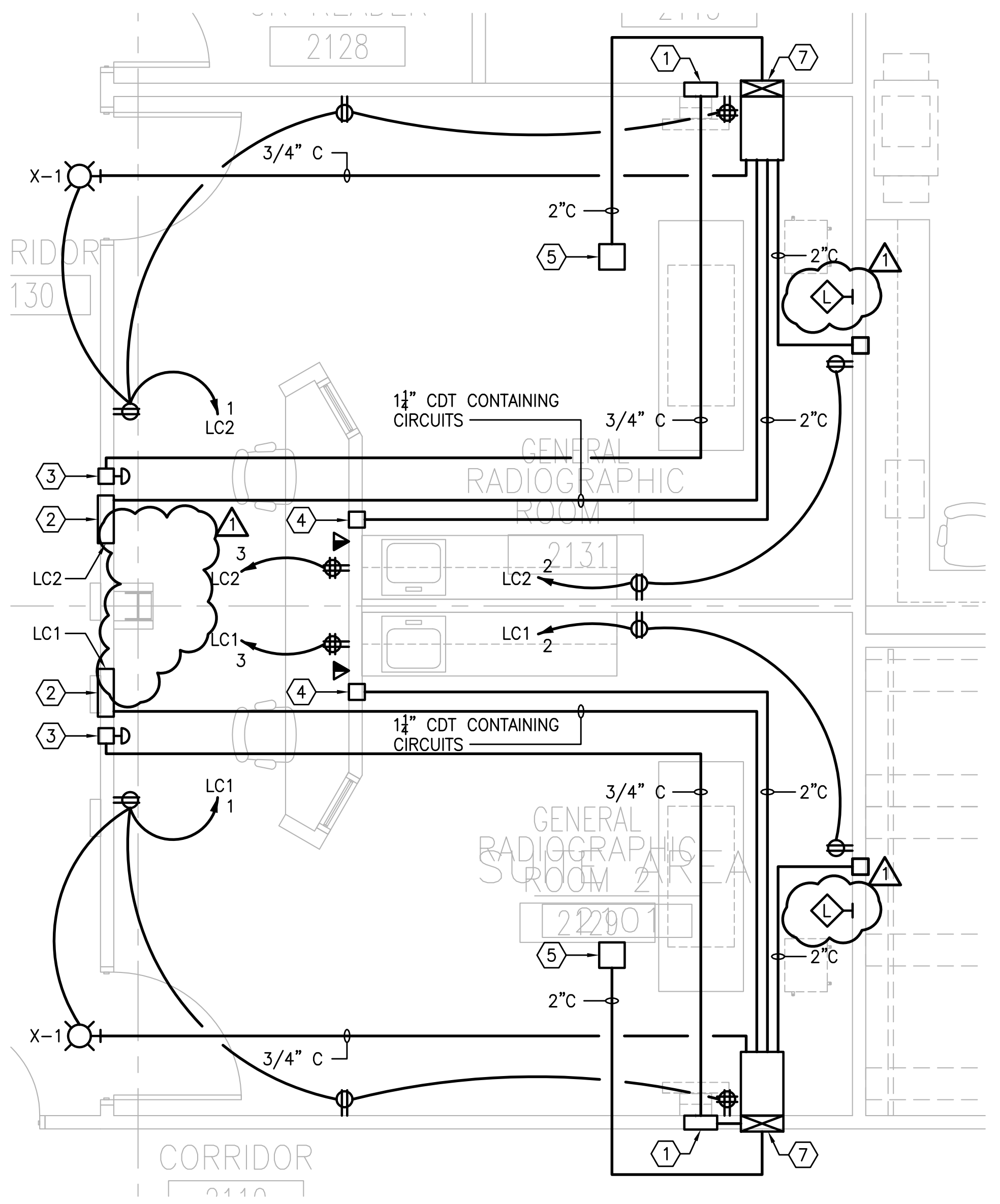
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT.
2. COORDINATE FINAL LOCATIONS OF ALL NURSE CALL STATIONS WITH OWNER PRIOR TO INSTALLATION.

KEYNOTES:

① SEE E-4.0, DETAILS 1 & 2, FOR TYPICAL SINGLE & DOUBLE DOOR CARD READER CONFIGURATIONS.


2128
X-1
3/4" C
2"C
LC2
LC1
1¼" CDT CONTAINING CIRCUITS
GENERAL RADIOGRAPHIC ROOM
2131
CORRIDOR
2110
1
2
3
4
5
6
7

2 RADIOGRAPHIC ROOMS ENLARGED PLAN

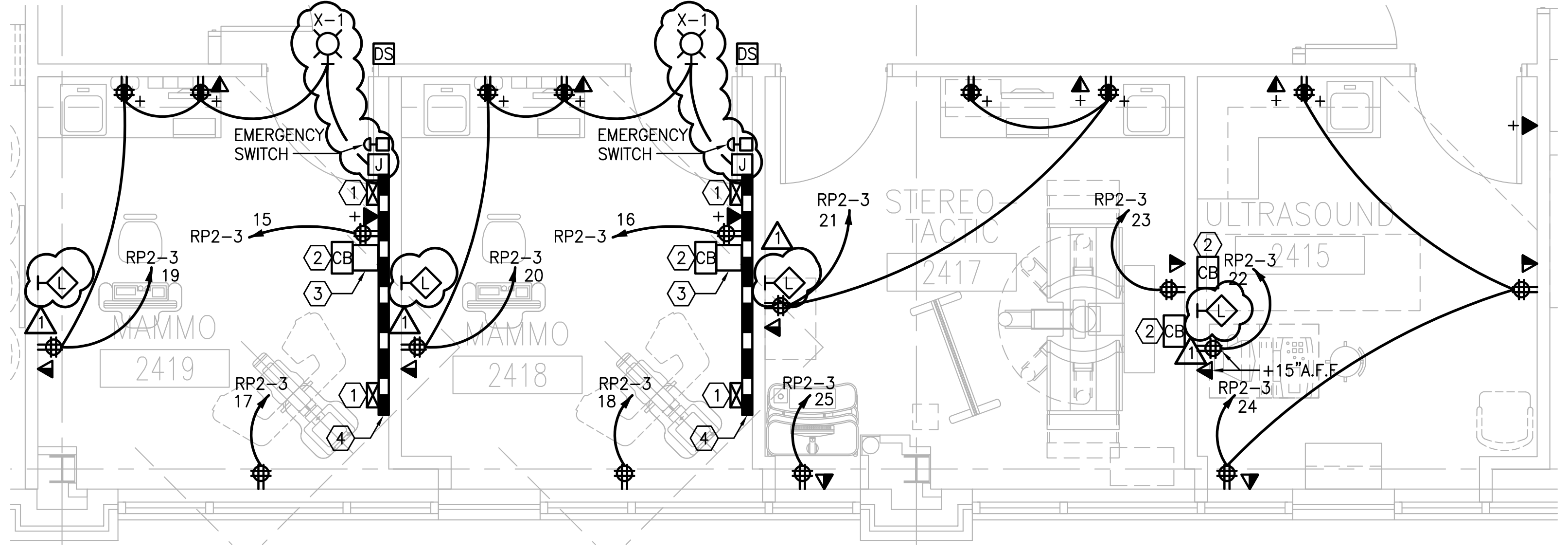
SCALE: 1/4"=1'-0"

GENERAL NOTES:

1. REFER TO EQUIPMENT VENDOR'S DRAWINGS FOR EXACT LOCATIONS OF ALL RACEWAYS AND BOXES.
2. ALL RACEWAY SHALL BE CONCEALED.

NOTES:

1. MAIN 100A, 480V, 3-POLE, SHUNT TRIP CIRCUIT BREAKER WITH SOLID NEUTRAL AND GROUND BUS IN FLUSH ENCLOSURE.
2. 120/240 VOLT, 100A, SINGLE PHASE, 3-WIRE LOAD CENTER, 12 POLES, IN FLUSH ENCLOSURE. SEE SCHEDULE SHEET E-4.2.
3. EMERGENCY POWER OFF PUSH BUTTON. MAINTAINED NORMALLY CLOSED CONTACT, RED MUSHROOM HEAD. ALLEN BRADLEY 800T-FXJ6-D2 FLUSH ENCLOSURE.
4. FLUSH MOUNTED JUNCTION BOX 6" x 6" x 4" DEEP. SPLIT REMOVABLE COVER WITH 2" GROMMETED OPENING. 6" BELOW COUNTER.
5. FLUSH FLOOR BOX. 8" x 8" x 4" DEEP. SPLIT REMOVABLE COVER WITH 2" GROMMETED OPENING.
6. FLUSH MOUNTED JUNCTION BOX. 6" x 6" x 4" DEEP. SPLIT REMOVABLE COVER WITH A 2" GROMMETED OPENING. 36" A.F.F.
7. 10" x 3½" FLUSH WIRE TROUGH FLOOR TO CEILING AND ABOVE CEILING AS SHOWN.


X-1
DS
EMERGENCY SWITCH
RP2-3
15
19
20
21
23
17
18
25
24
MAMMO
2419
MAMMO
2418
STEREO TACTIC
2417
ULTRASOUND
2415
15" A.F.F.
1
2
3
4

3 ULTRASOUND, STEREO-STATIC & MAMMO ENLARGED PLAN

SCALE: 1/4"=1'-0"

GENERAL NOTES:

1. REFER TO EQUIPMENT VENDOR'S DRAWINGS FOR EXACT LOCATIONS OF ALL RACEWAYS AND BOXES.

NOTES:

1. 4" x 4" VERTICAL FLUSH WIREWAY WITH CONNECTION TO HORIZONTAL SURFACE WIREMOLD.
2. DEDICATED 35 AMP ENCLOSED CIRCUIT BREAKER FOR GENERATOR.
3. 10" x 10" x 4" FLUSH MTD ELECTRICAL WALLBOX WITH 1½" CONDUIT TO WIREMOLD BELOW.
4. 4" x 4" HORIZONTAL SURFACE WIREWAY MTD 12" A.F.F.

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Revisions

07-18-07 DESIGN DEVELOPMENT
08-23-07 CONSTRUCTION DOCUMENTS
△1 09-25-07 ADDENDUM #1

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ELECTRICAL
SECOND FLOOR PLAN
POWER

Project

Landmark Healthcare
Facilities LLC

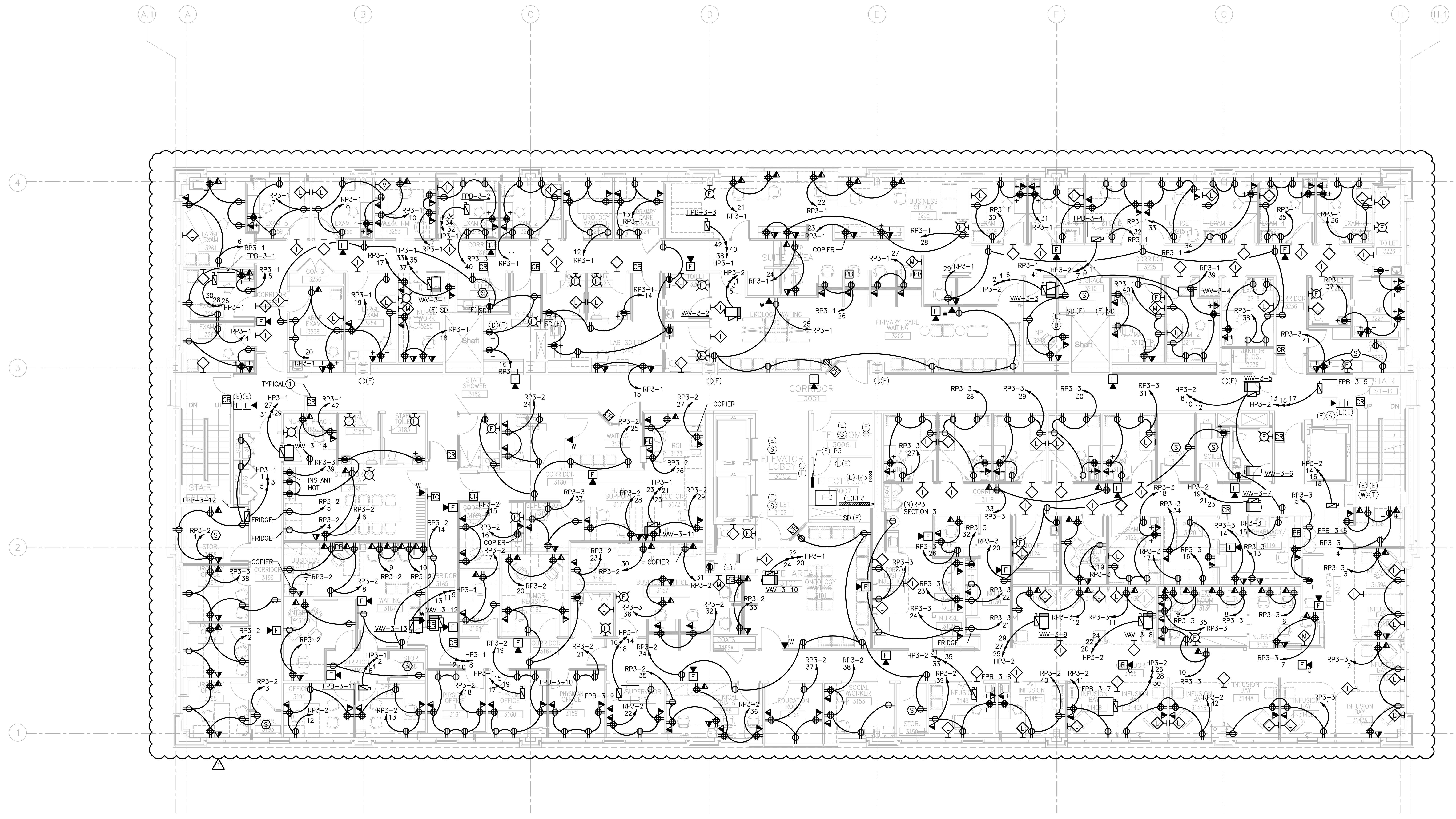
Fore River Medical
Pavillon
Portland, Maine

Frank Lorenz
PROFESSIONAL ENGINEER
NO. MA 7907

Date
August 23, 2007

Project No.
07-5198

Sheet No.
E-2.0



① THIRD FLOOR PLAN

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

GENERAL NOTES:

1. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT.
2. COORDINATE FINAL LOCATIONS OF ALL NURSE CALL STATIONS WITH OWNER PRIOR TO INSTALLATION.

KEYNOTES:

① SEE E-4.0, DETAILS 1 & 2, FOR TYPICAL SINGLE & DOUBLE DOOR CARD READER CONFIGURATIONS.

△1

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Sheet No.
E-2.1

0 1/4" 1/8" 1/2" 1" 2" 3"

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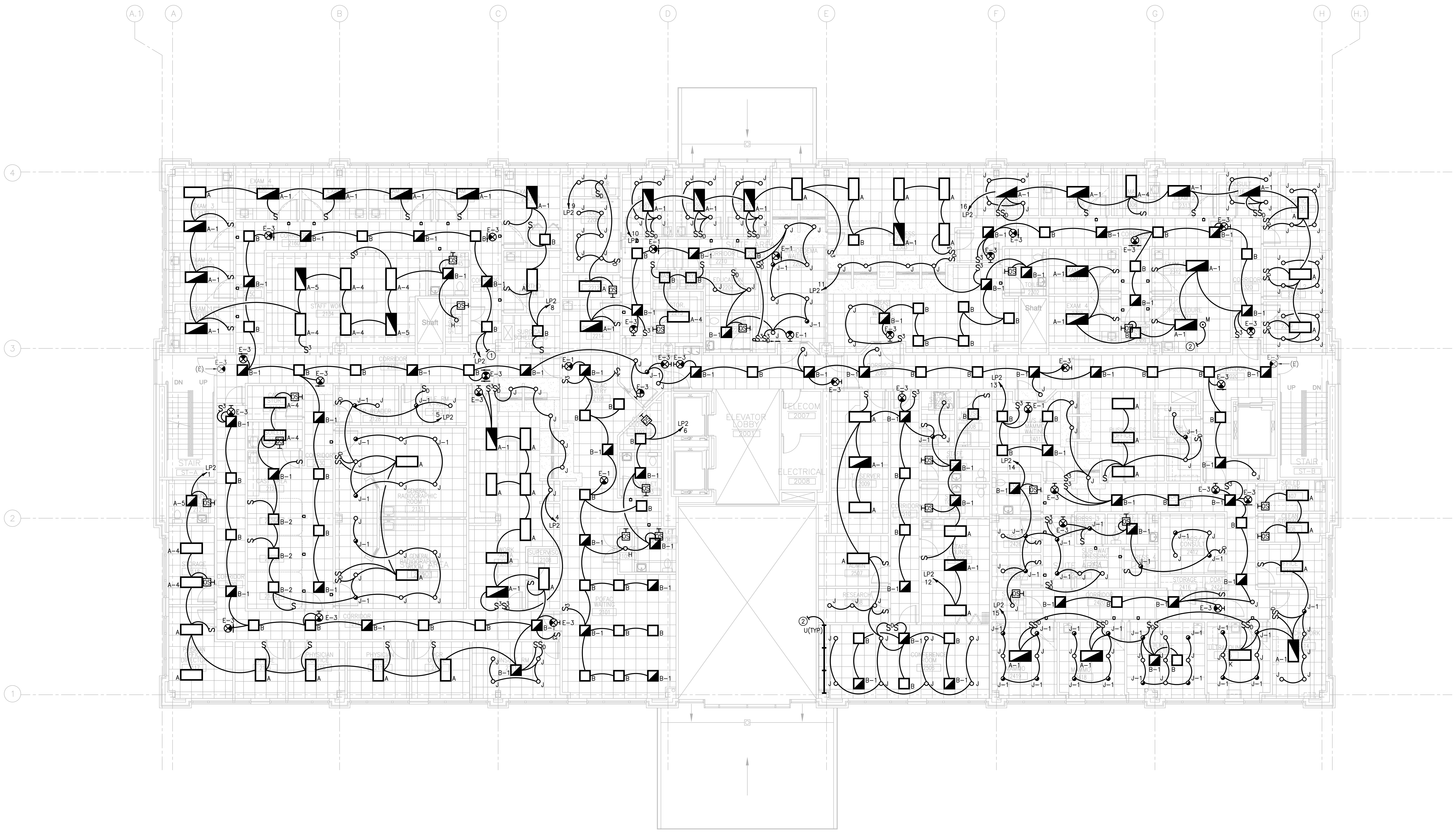
A.1
A
B
C
D
E
F
G
H
H.1
4
3
2
1
CORRIDOR
STAIR
ST-A
ST-B
DN
UP
ELEVATOR
LOBBY
2001
TELECOM
2007
ELECTRICAL
2006
Shaft
EXAM 4
EXAM 3
STAFF WORK
LP2
E-3
E-1
A-1
A-4
A-5
B-1
B-2
J-1
OS
U(TYP)
(E)

1 SECOND FLOOR PLAN

SCALE: 1/8"=1'–0"

KEYNOTES:

① CIRCUIT CONTROLLED BY TIME CLOCK.

② CONNECT FIXTURE TO RECEPTACLE CIRCUIT SERVING THIS ROOM. REFER TO E–2.0.

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ELECTRICAL
SECOND FLOOR PLAN
LIGHTING

Project
Landmark Healthcare
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Fore River Medical
Pavilion
Portland, Maine

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Project No.
07-5198

Sheet No.
E-3.0

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0 1/4" 1/8" 1/2" 1" 2" 3"

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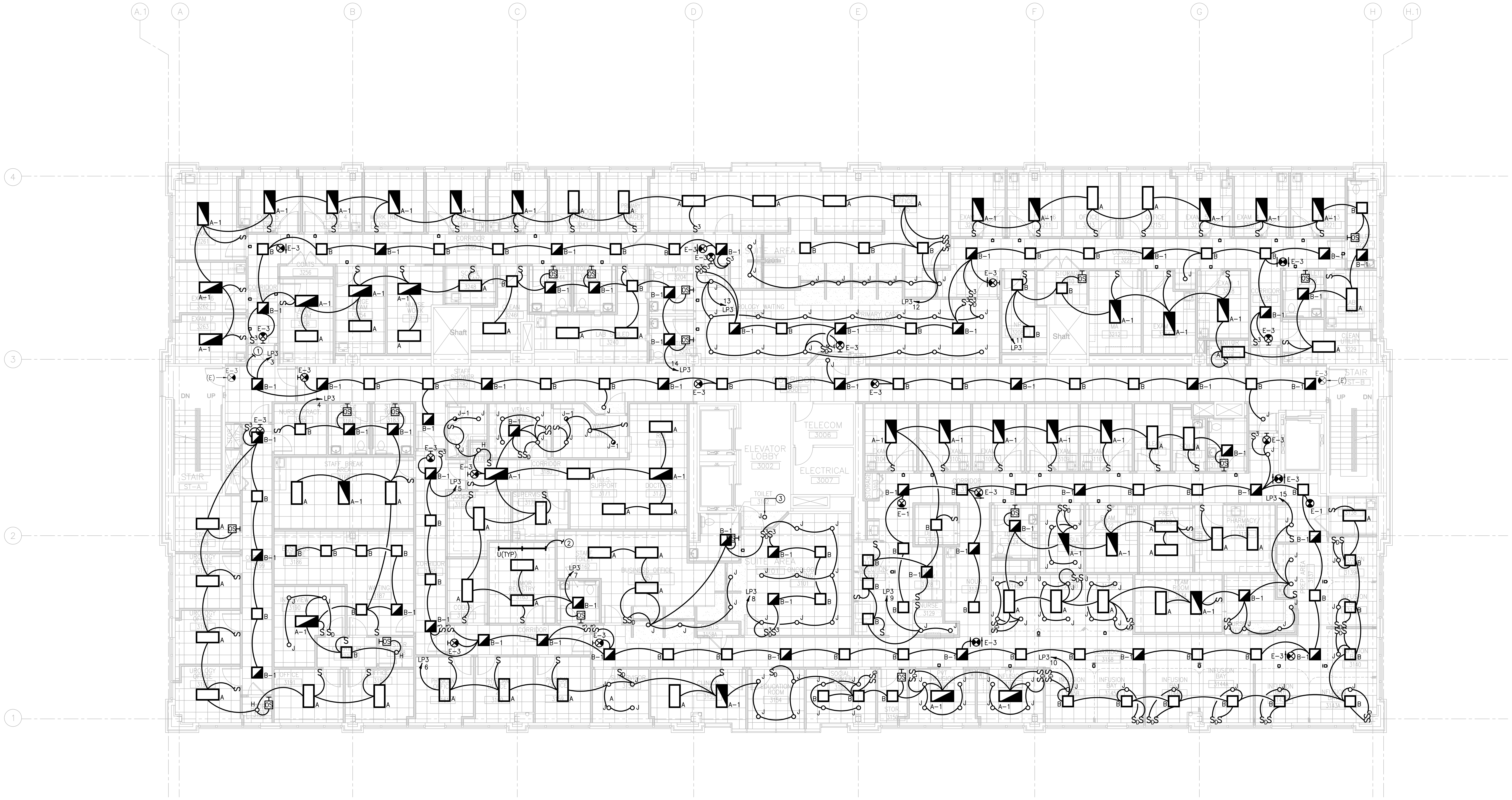

1 THIRD FLOOR PLAN
SCALE: 1/8"=1'-0"

KEYNOTES:

① CIRCUIT CONTROLLED BY TIME CLOCK.

② CONNECT FIXTURE TO RECEPTACLE CIRCUIT SERVING THIS ROOM. REFER TO E-2.0.

③ CONNECT FIXTURE TO EXISTING LIGHTING CIRCUIT SERVING THIS AREA.

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Frank Lorenz
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0 1/4" 1/8" 1/2" 1" 2" 3"
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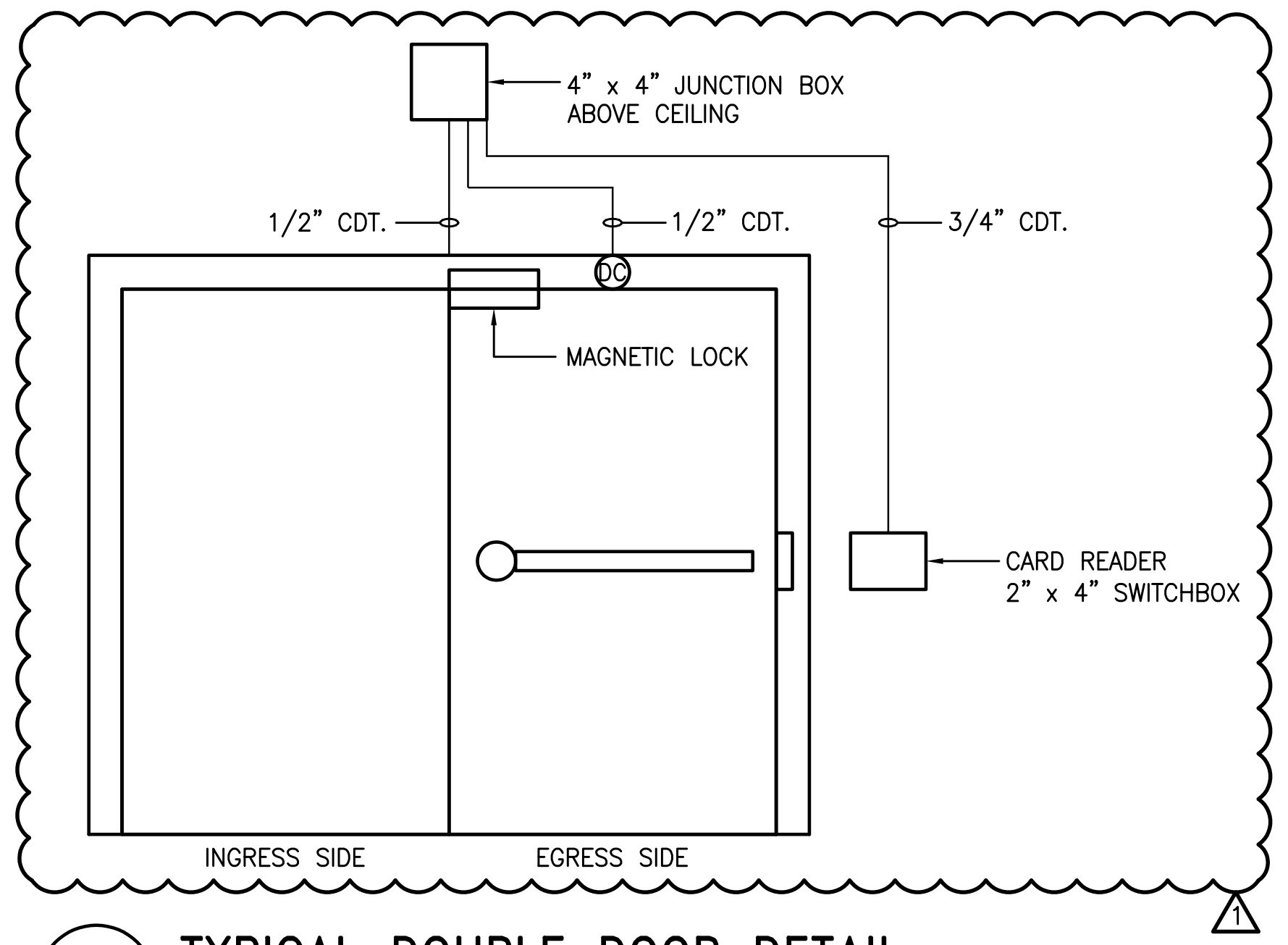
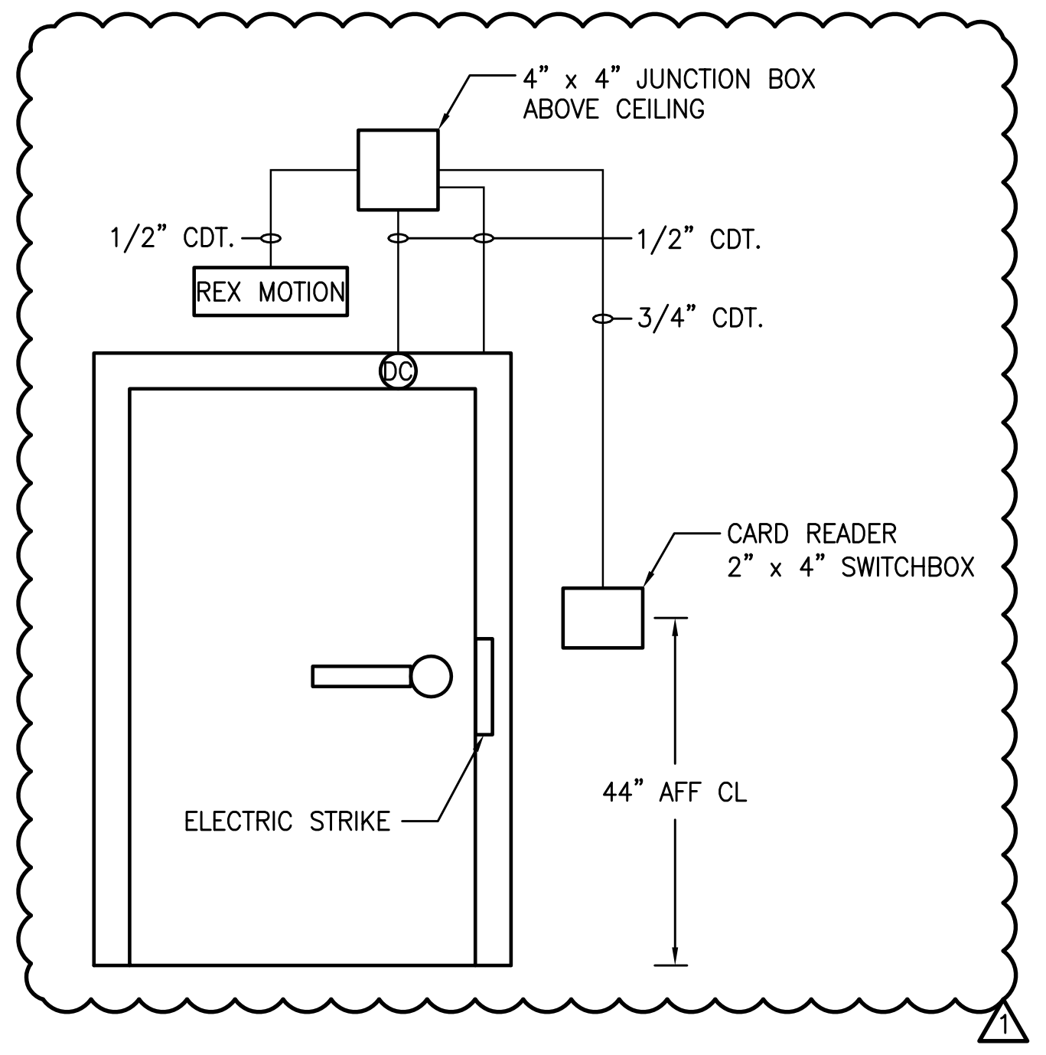


1 TYPICAL DOUBLE DOOR DETAIL

SCALE: N.T.S

NOTES:

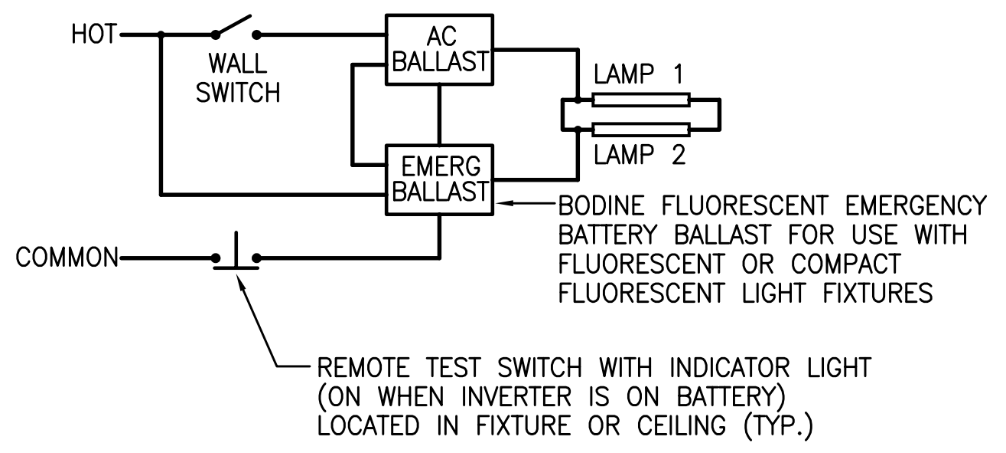
1. CARD READER ON EGRESS SIDE OF DOOR IN BOTH DIRECTIONS.



2 TYPICAL SINGLE DOOR DETAIL

SCALE: N.T.S

SEQUENCE:
- NORMAL OPERATION: LIGHT FIXTURE IS SWITCHED AND EMERGENCY BALLAST IS IN CHARGING MODE.
- EMERGENCY OPERATION: SWITCHED LIGHT FIXTURE WHETHER ON OR OFF ENERGIZES THRU INTERNAL RELAY PREFABRICATED IN EMERGENCY BALLAST.


HOT
WALL
SWITCH
AC
BALLAST
LAMP 1
LAMP 2
EMERG
BALLAST
COMMON
BODINE FLUORESCENT EMERGENCY
BATTERY BALLAST FOR USE WITH
FLUORESCENT OR COMPACT
FLUORESCENT LIGHT FIXTURES
REMOTE TEST SWITCH WITH INDICATOR LIGHT
(ON WHEN INVERTER IS ON BATTERY)
LOCATED IN FIXTURE OR CEILING (TYP.)

3 NORMAL/EMERGENCY WIRING SCHEMATIC

SCALE: N.T.S.

0 1/4" 1/8" 1/2" 1" 2" 3"

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LIGHTING FIXTURE SCHEDULE

				LAMPS		FIXTURE WATTS			REMARKS
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	NO.	TYPE		VOLTS	MOUNTING	
A	FLUORESCENT LIGHT WITH 4 LAMPS FOR EXAM RM, DENTAL RM, CONSULTATION OFFICE, PRIVATE OFFICE, PRIVATE TOILETS, WAITING RM, LAB, MINOR SURGERY, SPECIAL PROCEDURE, BUSINESS OFFICE, WORK AREA, AND OTHER SIMILAR RMS, SHALL BE 2' X 4' PRISMATIC ACRYLIC LENS IN RECESSED WHITE ALUMINUM FLOATING FRAME, WITH BLACK REVEAL, ELECTRONIC BALLAST, AND AIR SUPPLY/HEAT RMOVAL FIXTURES USED FOR PLEMUM RETURN AIR	METALUX LITHONIA ADDITIONAL APPROVED MANUFACTURER AND PRODUCT MAY BE CONSIDERED	HRD2GCAV432A-EB81 2SPG4D32RWA12-1/4GEBAPB	4	32W T8	128	277	RECESSED	
A-1	FLUORESCENT LIGHT FIXTURE SHALL BE SIMILAR TO FIXTURE A, WITH BATTERY POWER EMERGENCY BACK-UP BALLAST	METALUX LITHONIA ADDITIONAL APPROVED MANUFACTURER AND PRODUCT MAY BE CONSIDERED	HRD2GCAV432A-EB81EM 2SPG4D32RWA12-1/4GEBAPBEL4	4	32W T8	128	277	RECESSED	
A-4	FLUORESCENT LIGHT WITH 3 LAMPS TO SATISFY ENERGY CODE, FOR EXAM RM, DENTAL RM, CONSULTATION OFFICE, PRIVATE OFFICE, PRIVATE TOILETS, WAITING RM, LAB, MINOR SURGERY, SPECIAL PROCEDURE, BUSINESS OFFICE, WORK AREAS, AND OTHER SIMILAR RMS, SHALL BE 2' X 4' PRISMATIC ACRYLIC LENS IN RECESSED WHITE ALUMINUM FLOATING FRAME, WITH BLACK REVEAL, ELECTRONIC BALLAST, AND AIR SUPPLY/HEAT REMOVAL FIXTURES USED FOR PLEMUM RETURN AIR	METALUX LITHONIA ADDITIONAL APPROVED MANUFACTURER AND PRODUCT MAY BE CONSIDERED	HRD2GCAV332A-EB81 2SPG3D32RWA12-1/3GEBAPB	3	32W T8	96	277	RECESSED	
A-5	FLUORESCENT LIGHT FIXTURE SHALL BE SIMILAR TO FIXTURE A-4, WITH BATTERY POWER EMERGENCY BACK-UP BALLAST	METALUX LITHONIA ADDITIONAL APPROVED MANUFACTURER AND PRODUCT MAY BE CONSIDERED	HRD2GCAVFA332A-EB81EL4 2SPG3D32RWA12-1/3GEBELAPB	3	32W T8	96	277	RECESSED	
B	FLUORESCENT LIGHT FIXTURE WITH 2 LAMPS, FOR CORRIDORS AND HALLWAYS, SHALL BE 2' X 2' PRISMATIC ACRYLIC LENS IN RECESSED WHITE ALUMINUM FLOATING FRAME, WITH BLACK REVEAL, ELECTRONIC BALLAST AND AIR SUPPLY/HEAT REMOVAL FIXTURE USED FOR PLENUM AIR RETURN	METALUX LITHONIA ADDITIONAL APPROVED MANUFACTURER AND PRODUCT MAY BE CONSIDERED	HRD2GCAVFA2U6T8A-EB81 2SPG2DU31RWA12-GEBAPB	2	32W T8	64	277	RECESSED	
B-1	FLUORESCENT LIGHT FIXTURE SHALL BE SIMILAR TO FIXTURE B, WITH BATTERY POWER EMERGENCY BACK-UP BALLAST	METALUX LITHONIA ADDITIONAL APPROVED MANUFACTURER AND PRODUCT MAY BE CONSIDERED	HRD2GCAVFA2U6T8A-EB81EL4 2SPG2DU31RWA12-GEBAPBEL	2	32W T8	64	277	RECESSED	
B-2	FLUORESCENT LIGHT FIXTURE WITH 2 LAMPS, FOR CORRIDORS AND HALLWAYS, SHALL BE 2' X 2' X 3" DEEP PARABOLIC LOUVER LENS IN RECESSED WHITE ALUMINUM FLOATING FRAME, WITH BLACK REVEAL, ELECTRONIC BALLAST AND AIR SUPPLY/HEAT REMOVAL FIXTURE USED FOR PLENUM AIR RETURN	METALUX LITHONIA ADDITIONAL APPROVED MANUFACTURER AND PRODUCT MAY BE CONSIDERED	HRD2EP3GAX2U6T8S44I-EB81 2PM3NGDU31616LD-GEBAPB	2	32W T8	64	277	RECESSED	
B-3	FLUORESCENT LIGHT FIXTURE SHALL BE SIMILAR TO FIXTURE B-2, WITH BATTERY POWER EMERGENCY BACK-UP BALLAST	METALUX LITHONIA ADDITIONAL APPROVED MANUFACTURER AND PRODUCT MAY BE CONSIDERED	HRD2EP3GAX2U6T8S44I-EB81EL4 2PM3NGDU31616LD-GEBAPBEL	2	32W T8	64	277	RECESSED	
E-1	EXIT LIGHT WITH LED SOURCE, FOR SUITES, STAIRS, AND OTHER NON-PUBLIC SPACES SHALL BE CEILING AND WALL MOUNTED, SINGLE OR DOUBLE FACE. DIRECTIONAL ARROWS AND LETTER COLOR AS REQUIRED BY CODE, WITH BATTERY POWER EMERGENCY BACK UP	LITHONIA SURE-LITES MCPHILBEN ADDITIONAL APPROVED MANUFACTURER AND PRODUCT MAY BE CONSIDERED	QUANTUM LQMELN SERIES ELX SERIES 45V SERIES		LED	5	277	CEILING/WALL	
E-3	EXIT LIGHT WITH LED SOURCE, FOR ALL PUBLIC SPACES INCLUDING CORRIDORS, LOBBIES, AND VESTIBULES, SHALL BE CEILING AND WALL MOUNTED, SINGLE OR DOUBLE FACE. DIRECTIONAL ARROWS AND LETTER COLOR AS REQUIRED BY CODE, WITH BATTERY POWER EMERGENCY BACK UP	LITHONIA SURE-LITES MCPHILBEN ADDITIONAL APPROVED MANUFACTURER AND PRODUCT MAY BE CONSIDERED	PRECISE LRP SERIES ELX SERIES 45V SERIES		LED	5	277	CEILING/WALL	
H	COMPACT FLUORESCENT LIGHT FIXTURE WITH 1 LAMP FOR STORAGE CLOSETS LESS THAN 50 S.F. SHALL BE FLAT ALBALITE LENS RECESSED FIXTURE WITH ELECTRONIC BALLAST	HALO ADDITIONAL APPROVED MANUFACTURER AND PRODUCT MAY BE CONSIDERED	H801-277-800P	1	28W DTT	28	277	RECESSED	
J	COMPACT FLUORESCENT LIGHT FIXTURE WITH 2 LAMPS FOR LOBBIES AND VESTIBULES WITH 10'-0" HIGH CEILINGS, SHALL BE 7-$\frac{1}{2}$" DIAMETER OPEN APERTURE WITH CLEAR ALZAK REFLECTOR (7-$\frac{5}{8}$" DEEP) RECESSED DOWN LIGHT FIXTURE	PORTFOLIO LITHONIA ADDITIONAL APPROVED MANUFACTURER AND PRODUCT MAY BE CONSIDERED	C72181H728OLI AF218TRT6AR	2	18W DTT	36	277	RECESSED	
J-1	FLUORESCENT LIGHT FIXTURE SHALL BE SIMILAR TO FIXTURE J, WITH BATTERY POWER EMERGENCY BACK-UP BALLAST	PORTFOLIO LITHONIA ADDITIONAL APPROVED MANUFACTURER AND PRODUCT MAY BE CONSIDERED	C7218EM728OLI AF218TRT6AR	2	18W DTT	36	277	RECESSED	
K	RECESSED 23 $\frac{3}{4}$" X 47 $\frac{3}{4}$" CLOUD FIXTURE WITH NATURAL LITE FLUORESCENT LAMPS AND STANDARD 40W RAPID START BALLAST	SKYMAN	–	2	F40T12 "NATURAL LITE"	80	277	RECESSED	
M	CEILING MOUNTED CHROMOPHARE PROCEDURE LIGHT	BERCHTOLD	D 540	1	150W HALOGEN	150	120	CEILING	
U	UNDERCOUNTER FIXTURE	LITHONIA ADDITIONAL APPROVED MANUFACTURER AND PRODUCT MAY BE CONSIDERED	N2S 32 120 GEB10IS SWR	1	32W T8	32	120	SURFACE	
X-1	CUSTOM EDGE LIT "X-RAY IN USE" SIGN	ALCKO ADDITIONAL APPROVED MANUFACTURER AND PRODUCT MAY BE CONSIDERED	SGLO LEDX1 RC /"X-RAY IN USE"	1	L.E.D	5	120/277	SURFACE	

NOTES:
1. FIXTURES MUST UTILIZE MULTILAMP BALLAST. FIXTURES INSTALLED MUST NOT EXCEED FIXTURE WATTAGE LISTED ON SCHEDULE.
2. ALL FIXTURES LISTED FIRST ON SCHEDULE TO BE TAKEN AS BASIS OF DESIGN.

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Sheet
ELECTRICAL
SCHEDULES

Project
Landmark Healthcare
Facilities LLC

Fore River Medical
Pavilion
Portland, Maine

Frank Lorenz
PROFESSIONAL ENGINEER
NO. MA 7907

Date
August 23, 2007

Project No.
07-5198

Sheet No.
E-4.0

PANEL: RP2 - SECTION 1
LOCATION:
BUILDING:
FED FROM: SEE SINGLE LINE DIAGRAM
FEEDER SIZE: SEE SINGLE LINE DIAGRAM
208 / 120 VOLTS, 3 PHASE 4 WIRE
MOUNTING: ▨ SURFACE ☐ FLUSH
BUS: ▨ COPPER ☐ ALUMINUM
GROUND BUS: ☐
ISOL.GND. BUS: ☐
* SHUNT TRIP BRKR.
MAIN BUS: 225 AMPS NEUTRAL: 100%
☐ MAIN LUGS ONLY
▨ MAIN BKR: 225 AMPS
☐ PROVIDE WITH FEED-THRU LUGS
AIC: 10000 AMPS

CKT #	TRIP / POLE	DESCRIPTION OF LOAD	WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP / POLE	CKT #
					A	B	C					
1	20/1	GEN REC - CORR 2002	2A	360	900			540	2A	GEN REC - CORR 2003	20/1	2
3	20/1	DED. REC - TELECOM 2007	2A	360		1260		900	2A	EXAM ROOM 2135	20/1	4
5	20/1	EXAM ROOM 2136	2A	900			1800	900	2A	EXAM ROOM 2137	20/1	6
7	20/1	EXAM R00M 2138	2A	900	1800			900	2A	EXAM ROOM 2139	20/1	8
9	20/1	EXAM ROOM 2141	2A	900		1800		900	2A	EXAM ROOM 2142	20/1	10
11	20/1	EXAM ROOM 2143	2A	900			1980	1080	2A	ORTHO ROOM 2144	20/1	12
13	20/1	CORRIDOR 2150	2A	900	1620			720	2A	STAFF WORK ROOM 2134	20/1	14
15	20/1	STAFF WORK ROOM 2134	2A	720		1440		720	2A	STAFF WORK ROOM 2134	20/1	16
17	20/1	STAFFWORK ROOM 2134	2A	1080			1800	720	2A	STAFF WORK ROOM 2134	20/1	18
19	20/1	STAFF WORK ROOM 2134	2A	720	2160			1440	2A	STAFF WORK/GENERAL REC	20/1	20
21	20/1	CORRIDOR 2120	2A	1440		2520		1080	2A	PHYSICIAN OFFICE 2117	20/1	22
23	20/1	OFFICE 2116	2A	1260			2340	1080	2A	PHYSICIAN OFFICE 2115	20/1	24
25	20/1	PHYSICIAN OFFICE 2114	2A	1080	2160			1080	2A	MANAGER OFFICE 2112	20/1	26
27	20/1	CONSULT ROOM 2111	2A	1080		2160		1080	2A	SUPERVISOR OFFICE 2108	20/1	28
29	20/1	WORK AREA 2109	2A	1080			2700	1620	2A	POFAC WAITING AREA 2101	20/1	30
31	20/1	RECEPTION DESKS 2101	2A	720	1800			1080	2A	WORK AREA REC 2109	20/1	32
33	20/1	COPIER ROOM 2109	2A	1000		1720		720	2A	WORK AREA 2109	20/1	34
35	20/1	WORK AREA 2109	2A	720			1440	720	2A	RECEPTION DESKS 2109	20/1	36
37	20/1	CORRIDOR 3140	2A	1440	2160			720	2A	FILE ROOM/ X-RAY 2113	20/1	38
39	20/1	BEDS 2126A, 2126B, 2126C	2A	1080		2340		1260	2A	POFAC ENTRY/GENERAL 2101	20/1	40
41	20/1	SURGICAL SCHEDULING 2147	2A	720			1440	720	2A	TECH ROOM 2208	20/1	42
				TOTAL BY PHASE	12600	13240	13500					

SPARE = 0%
TOTAL CONNECTED LOAD = 39340 VA
TOTAL CONNECTED AMPS = 109 AMPS
TOTAL DEMAND LOAD = 24670 VA
TOTAL DEMAND AMPS = 69 AMPS

PANEL: RP2 - SECTION 2
LOCATION:
BUILDING:
FED FROM: SEE SINGLE LINE DIAGRAM
FEEDER SIZE: SEE SINGLE LINE DIAGRAM
208 / 120 VOLTS, 3 PHASE 4 WIRE
MOUNTING: ▨ SURFACE ☐ FLUSH
BUS: ▨ COPPER ☐ ALUMINUM
GROUND BUS: ☐
ISOL.GND. BUS: ☐
* SHUNT TRIP BRKR.
MAIN BUS: 225 AMPS NEUTRAL: 100%
▨ MAIN LUGS ONLY
☐ MAIN BKR: AMPS
☐ PROVIDE WITH FEED-THRU LUGS
AIC: 10000 AMPS

CKT #	TRIP / POLE	DESCRIPTION OF LOAD	WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP / POLE	CKT #
					A	B	C					
1	20/1	TECH ROOM 2208	2A	900	1620			720	2A	MANAGER 2209	20/1	2
3	20/1	RX 1 2207	2A	720		1800		1080	2A	RX 2 2205	20/1	4
5	20/1	RX 3 2203	2A	900			1620	720	2A	RECEPTION DESKS 2201	20/1	6
7	20/1	GEN REC SUITE 2201	2A	1440	2520			1080	2A	EDUCATION 2204	20/1	8
9	20/2	DRYER	2A	1000		2000		1000	2A	WASHER	20/2	10
11		.		1000			2000	1000		.		12
13	20/1	BUSINESS OFFICE 2303	2A	720	1720			1000	2A	COPIER	20/1	14
15	20/1	BUSINESS OFFICE 2303	2A	720		1440		720	2A	RECEPTION DESKS 2301	20/1	16
17	20/1	RECEPTION DESKS 2301	2A	720			2160	1440	2A	BREAST HEALTH WAITING 2301	20/1	18
19	20/1	TOILET/GENERAL 2302	2A	900	1800			900	2A	EXAM ROOM 2307	20/1	20
21	20/1	EXAM ROOM 2308	2A	1080		1980		900	2A	PROCEDURE 2311	20/1	22
23	20/1	EXAM ROOM 2312	2A	900			1980	1080	2A	OFFICE 2319	20/1	24
25	20/1	OFFICE 2318	2A	1080	2160			1080	2A	OFFICE 2317	20/1	26
27	20/1	CONSULT 2316	2A	900		1800		900	2A	EXAM ROOM 2313	20/1	28
29	20/1	WORK ROOM 2306	2A	900			1800	900	2A	EXAM ROOM 2305	20/1	30
31	20/1	CONSULT 2304	2A	1080	1980			900	2A	BH NURSE 2405	20/1	32
33	20/1	BH NURSE 2405	2A	1080		1800		720	2A	BUSINESS OFFICE 2402	20/1	34
35	20/1	COPIER 2402	2A	1000			1720	720	2A	RECEPTION DESKS 2401	20/1	36
37	20/1	ULTRA/MAMMO WAITING 2401	2A	1440	2700			1260	2A	CORRIDOR 2510	20/1	38
39	20/1	IT SERVER 2009	2A	1080		1800		720	2A	IT SERVER 2009	20/1	40
41	20/1	RESEARCH 2508	2A	1260			2340	1080	2A	CONFERENCE ROOM 2506	20/1	42
				TOTAL BY PHASE	14500	12620	13620					

SPARE = 0%
TOTAL CONNECTED LOAD = 40740 VA
TOTAL CONNECTED AMPS = 113 AMPS
TOTAL DEMAND LOAD = 25370 VA
TOTAL DEMAND AMPS = 71 AMPS

PANEL: RP2 - SECTION 3
LOCATION:
BUILDING:
FED FROM: SEE SINGLE LINE DIAGRAM
FEEDER SIZE: SEE SINGLE LINE DIAGRAM
208 / 120 VOLTS, 3 PHASE 4 WIRE
MOUNTING: ▨ SURFACE ☐ FLUSH
BUS: ▨ COPPER ☐ ALUMINUM
GROUND BUS: ☐
ISOL.GND. BUS: ☐
* SHUNT TRIP BRKR.
MAIN BUS: 225 AMPS NEUTRAL: 100%
▨ MAIN LUGS ONLY
☐ MAIN BKR: AMPS
☐ PROVIDE WITH FEED-THRU LUGS
AIC: 10000 AMPS

CKT #	TRIP / POLE	DESCRIPTION OF LOAD	WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP / POLE	CKT #
					A	B	C					
1	20/1	REFRIGERATOR STAFF LOUNGE	2A	1000	1900			900	2A	STAFF LOUNGE 2505	20/1	2
3	20/1	DRESS 2425	2A	720		1800		1080	2A	DRESS 2427	20/1	4
5	20/1	PACS CONSULT 2412	2A	720			1440	720	2A	PACS CONSULT 2412	20/1	6
7	20/1	OFFICE 2413	2A	1260	1980			720	2A	TECH WORK ROOM 2414	20/1	8
9	20/1	TECH WORK ROOM 2414	2A	1080		1800		720	2A	TECH WORK ROOM 2414	20/1	10
11	20/1	ADMINISTRATION 2507	2A	1260			2520	1260	2A	PEROMETER 2214	20/1	12
13	20/1	DRESS 2426	2A	1080	1980			900	2A	CONFERENCE ROOM 2506	20/1	14
15	2A/1	MAMMO ROOM 2419	2A	360		720		360	2A	MAMMO ROOM 2418	20/1	16
17	20/1	MAMMO ROOM 2419	2A	360			720	360	2A	MAMMO ROOM 2418	20/1	18
19	20/1	MAMMO ROOM 2419	2A	1100	2200			1100	2A	MAMMO ROOM 2418	20/1	20
21	20/1	STERO-TACTIC ROOM 2417	2A	1080		1440		360	2A	ULTRASOUND ROOM 2415	20/1	22
23	20/1	STERO-TACTIC ROOM 2417	2A	360			720	360	2A	ULTRASOUND ROOM 2415	20/1	24
25	20/1	STERO-TACTIC ROOM 2417	2A	360	900			540	2A	CORRIDOR 2130	20/1	26
27	20/1	INSTANT HOT	2A	500		500		0	-	SPARE		28
29		SPARE	-	0			0	0	-	SPARE		30
31		SPARE	-	0	0			0	-	SPARE		32
33		SPARE	-	0		0		0	-	SPARE		34
35		SPARE	-	0			0	0	-	MAMMO 2418	35/2	36
37		SPARE	-	0	0			0	-	.		38
39	35/2	ULTRASOUND 2415	-	0		0		0	-	MAMMO 2419	35/2	40
41		.	-	0			0	0	-	.		42
				TOTAL BY PHASE	8960	6260	5400					

SPARE = 0%
TOTAL CONNECTED LOAD = 20620 VA
TOTAL CONNECTED AMPS = 57 AMPS
TOTAL DEMAND LOAD = 15560 VA
TOTAL DEMAND AMPS = 43 AMPS

PANEL: RP3 - SECTION 1
LOCATION:
BUILDING:
FED FROM: SEE SINGLE LINE DIAGRAM
FEEDER SIZE: SEE SINGLE LINE DIAGRAM
208 / 120 VOLTS, 3 PHASE 4 WIRE
MOUNTING: ▨ SURFACE ☐ FLUSH
BUS: ▨ COPPER ☐ ALUMINUM
GROUND BUS: ☐
ISOL.GND. BUS: ☐
* SHUNT TRIP BRKR.
MAIN BUS: 225 AMPS NEUTRAL: 100%
☐ MAIN LUGS ONLY
▨ MAIN BKR: 225 AMPS
☐ PROVIDE WITH FEED-THRU LUGS
AIC: 10000 AMPS

CKT #	TRIP / POLE	DESCRIPTION OF LOAD	WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP / POLE	CKT #
					A	B	C					
1	20/1	GEN REC - CORR 3001	2A	360	1080			720	2A	GEN REC - LOBBY 3002	20/1	2
3	20/1	DED. REC - TELECOM 3008	2A	360		1260		900	2A	EXAM ROOM 3263		4
5	20/1	EXAM ROOM 3262	2A	900			2160	1260	2A	EXAM ROOM 3261		6
7	20/1	EXAM ROOM 3259	2A	900	2160			1260	2A	EXAM ROOM 3255		8
9	20/1	WORK ROOM 3253	2A	720		1440		720	2A	WORK ROOM 3253		10
11	20/1	EXAM ROOM 3245	2A	1260			2520	1260	2A	UROLOGY MANAGER 3243		12
13	20/1	PRIMARY CARE MANAGER 3241	2A	1260	2700			1440	2A	GENERAL/TOILET ROOM 3244		14
15	20/1	LAB SOILED ROOM 3240	2A	720		1440		720	2A	CLEAN ROOM 3246		16
17	20/1	NURSE WORK 3250	2A	720			1800	1080	2A	NURSE WORK ROOM 3250		18
19	20/1	EXAM ROOM 3254	2A	1080	2160			1080	2A	EXAM ROOM 3258		20
21	20/1	BUSINESS OFFICE 3205	2A	720		1440		720	2A	BUSINESS OFFICE 3205		22
23	20/1	COPIER	2A	1000			1720	720	2A	RECEPTION DESKS 3201		24
25	20/1	UROLOGY WAITING ROOM 3201	2A	1260	1980			720	2A	RECEPTION DESKS 3202		26
27	20/1	RECEPTION DESKS 3202	2A	720		1980		1260	2A	BUSINESS OFFICE 3205		28
29	20/1	RECEPTION DESKS 3205	2A	1080			1980	900	2A	EXAM ROOM 3209		30
31	20/1	EXAM ROOM 3211	2A	900	2160			1260	2A	OFFICE 3213		32
33	20/1	OFFICE 3215	2A	1260		2520		1260	2A	EXAM ROOM 3219		34
35	20/1	EXAM ROOM 3220	2A	1260			2520	1260	2A	EXAM ROOM 3221		36
37	20/1	GENERAL/TOILET 3228	2A	1440	2700			1260	2A	EXAM ROOM 3218		38
39	20/1	EXAM ROOM 3214	2A	1260		2700		1440	2A	WORK ROOM 3212		40
41	20/1	NP ROOM 3208	2A	1080			1980	900	2A	NURSE PRACTITIONER 3185		42
				TOTAL BY PHASE	14940	12780	14680					

SPARE = 0%
TOTAL CONNECTED LOAD = 42400 VA
TOTAL CONNECTED AMPS = 118 AMPS
TOTAL DEMAND LOAD = 26200 VA
TOTAL DEMAND AMPS = 73 AMPS

PANEL: RP3 - SECTION 2
LOCATION:
BUILDING:
FED FROM: SEE SINGLE LINE DIAGRAM
FEEDER SIZE: SEE SINGLE LINE DIAGRAM
208 / 120 VOLTS, 3 PHASE 4 WIRE
MOUNTING: ▨ SURFACE ☐ FLUSH
BUS: ▨ COPPER ☐ ALUMINUM
GROUND BUS: ☐
ISOL.GND. BUS: ☐
* SHUNT TRIP BRKR.
MAIN BUS: 225 AMPS NEUTRAL: 100%
▨ MAIN LUGS ONLY
☐ MAIN BKR: AMPS
☐ PROVIDE WITH FEED-THRU LUGS
AIC: 10000 AMPS

CKT #	TRIP / POLE	DESCRIPTION OF LOAD	WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP / POLE	CKT #
					A	B	C					
1	20/1	STORE ROOM 3198	2A	1440	2520			1080	2A	UROLOGY OFFICE 3196	20/1	2
3	20/1	UROLOGY OFFICE 3145	2A	1260		2260		1000	2A	REFRIGERATOR STAFF RM 3168	20/1	4
5	20/1	REFRIGERATOR 3168	2A	1000			2080	1080	2A	STAFF ROOM 3168	20/1	6
7	20/1	COPIER 3186	2A	1000	1900			900	2A	BUSINESS OFFICE 3186	20/1	8
9	20/1	WAITING ROOM 3187	2A	720		1440		720	2A	WAITING ROOM 3187	20/1	10
11	20/1	INTERVIEW ROOM 3190	2A	1080			2160	1080	2A	OFFICE 3191	20/1	12
13	20/1	OFFICE 3189	2A	1080	2160			1080	2A	CORRIDOR 3165	20/1	14
15	20/1	CODER ROOM 3169	2A	720		1800		1080	2A	COPIER 3169	20/1	16
17	20/1	CODER ROOM 3164	2A	900			2340	1440	2A	PHYSICIAN OFFICE 3161	20/1	18
19	20/1	PHYSICIAN OFFICE 3160	2A	1440	2160			720	2A	TUMOR REGISTRY 3163	20/1	20
21	20/1	PHYSICIAN OFFICE 3159	2A	1440		2520		1080	2A	SUPERVISOR OFFICE 3156	20/1	22
23	20/1	BUSINESS OFFICE 3157	2A	1440			2520	1080	2A	VITALS RM 3175	20/1	24
25	20/1	WAITING ROOM 3174	2A	900	1980			1080	2A	ROI ROOM 3173	20/1	26
27	20/1	COPIER 3173	2A	1000		1720		720	2A	H.I.S. SUPPORT	20/1	28
29	20/1	DOCTORS 3172	2A	720			1080	360	2A	BUSINESS OFFICE 3157	20/1	30
31	20/1	COPIER 3157	2A	1000	1720			720	2A	RECEPTION DESKDS RM 3157	20/1	32
33	20/1	RECEPTION DESKS 3101	2A	720		2160		1440	2A	GENERAL/CORRIDOR 3158	20/1	34
35	20/1	CLINICAL TRIALS RM 3155	2A	900			1980	1080	2A	CLINICAL TRIALS 3155	20/1	36
37	20/1	EDUCATION ROOM 3154	2A	1080	2160			1080	2A	SOCIAL WORKER 3153	20/1	38
39	20/1	PATIENT INFUSION 3149	2A	720		1440		720	2A	PATIENT INFUSION 3148	20/1	40
41	20/1	INFUSION BAY 3145B	2A	540			1620	1080	2A	INFUSION BAY 3145A-B	20/1	42
				TOTAL BY PHASE	14600	13340	13780					

SPARE = 0%
TOTAL CONNECTED LOAD = 41720 VA
TOTAL CONNECTED AMPS = 116 AMPS
TOTAL DEMAND LOAD = 25860 VA
TOTAL DEMAND AMPS = 72 AMPS

PANEL: RP3 - SECTION 3
LOCATION:
BUILDING:
FED FROM: SEE SINGLE LINE DIAGRAM
FEEDER SIZE: SEE SINGLE LINE DIAGRAM
208 / 120 VOLTS, 3 PHASE 4 WIRE
MOUNTING: ▨ SURFACE ☐ FLUSH
BUS: ▨ COPPER ☐ ALUMINUM
GROUND BUS: ☐
ISOL.GND. BUS: ☐
* SHUNT TRIP BRKR.
MAIN BUS: 225 AMPS NEUTRAL: 100%
▨ MAIN LUGS ONLY
☐ MAIN BKR: AMPS
☐ PROVIDE WITH FEED-THRU LUGS
AIC: 10000 AMPS

CKT #	TRIP / POLE	DESCRIPTION OF LOAD	WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP / POLE	CKT #
					A	B	C					
1	20/1	INFUSION BAY 3144A 3143B	2A	1080	2160			1080	2A	INFUSION BAY 3143A, 3140	20/1	2
3	20/1	INFUSION BAY 3139A	2A	1080		2160		1080	2A	ROOM 3138	20/1	4
5	20/1	PREP AREA 3137	2A	720			1440	720	2A	NURSE ROOM 3135	20/1	6
7	20/1	NURSE ROOM 3135	2A	720	1440			720	2A	TEAM WORK ROOM 3134	20/1	8
9	20/1	TEAM ROOM 3134	2A	720		1620		900	2A	TEAM WORK ROOM 3134	20/1	10
11	20/1	INFUSION BAY 3146C	2A	540			1440	900	2A	INFUSION BAY 3146A, B	20/1	12
13	20/1	PHARMACY 3119	2A	1080	1440			360	2A	PHARMACY	20/1	14
15	20/1	PHARMACY 3119	2A	1000		2000		1000	2A	IV PREP 3120	20/1	16
17	20/1	IV PREP 3120	2A	1000			2080	1080	2A	EXAM ROOM 3122	20/1	18
19	20/1	CONSULT 3123	2A	1080	2340			1260	2A	NOURISHMENT ROOM 3130	20/1	20
21	20/1	NOURISHMENT 3130	2A	180		540		360	2A	NOURISHMENT ROOM 3130	20/1	22
23	20/1	MA WORK ROOM 3128	2A	720			1260	540	2A	NURSE ROOM 3129	20/1	24
25	20/1	PORT FLUSH INJECTION RM 3127	2A	360	1260			900	2A	CORRIDOR 3118	20/1	26
27	20/1	EXAM ROOM 3104	2A	1260		2520		1260	2A	EXAM ROOM 3105	20/1	28
29	20/1	EXAM ROOM 3108	2A	1260			2520	1260	2A	EXAM ROOM 3109	20/1	30
31	20/1	EXAM ROOM 3110	2A	1260	1760			500	2A	INSTANT HOT NOURISH RM 3130	20/1	32
33	20/1	CORRIDOR 3118	2A	720		1980		1260	2A	IV PREP 3120	20/1	34
35	20/1	TEAM ROOM 3134	2A	720			1440	720	2A	BUSINESS OFFICE 3137	20/1	36
37	20/1	SUPERVISOR ROOM 3170	2A	1080	2340			1260	2A	UROLOGY OFFICE 3197	20/1	38
39	20/1	INSTANT HOT	2A	500		1760		1260	2A	EXAM ROOM 3249	20/1	40
41	20/1	CLEAN UTILITY RM 3229	-	720			720	0	-	SPARE	20/1	42
				TOTAL BY PHASE	12740	12580	10900					

SPARE = 0%
TOTAL CONNECTED LOAD = 36220 VA
TOTAL CONNECTED AMPS = 101 AMPS
TOTAL DEMAND LOAD = 23360 VA
TOTAL DEMAND AMPS = 65 AMPS

PANEL: HP2-1
LOCATION:
BUILDING:
FED FROM: SEE SINGLE LINE DIAGRAM
FEEDER SIZE: SEE SINGLE LINE DIAGRAM
480 / 277 VOLTS, 3 PHASE 4 WIRE
MOUNTING: ▨ SURFACE ☐ FLUSH
BUS: ▨ COPPER ☐ ALUMINUM
GROUND BUS: ☐
ISOL.GND. BUS: ☐
* SHUNT TRIP BRKR.
MAIN BUS: AMPS NEUTRAL: 100%
☐ MAIN LUGS ONLY
▨ MAIN BKR: 225 AMPS
☐ PROVIDE WITH FEED-THRU LUGS
AIC: 35000 AMPS

CKT #	TRIP / POLE	DESCRIPTION OF LOAD	WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP / POLE	CKT #
					A	B	C					
1	40/3	(E)VAV-C	4C	4334	8668			4334	4C	(E)VAV-C	40/3	2
3		.		4334		8668		4334		.		4
5		.		4334			8668	4334		.		6
7	20/1	(E)VAV-A	2A	2500	5666			3166	3C	FPB-2-12	30/3	8
9	30/3	FPB-2-13	3C	2766		5932		3166		.		10
11		.		2766			5932	3166		.		12
13		.		2766	5299			2533	3C	VAV-2-12	30/3	14
15	30/3	VAV-2-11	3C	2533		5066		2533		.		16
17		.		2533			5066	2533		.		18
19		.		2533	4633			2100	3C	FPB-2-11	30/3	20
21	30/3	VAV-2-14, VAV-2-15	3C	2533		4633		2100		.		22
23		.		2533			4633	2100		.		24
25		.		2533	8366			5833	3C	VAV-2-1, VAV-2-13	30/3	26
27	30/3	VAV-2-9, VAV-2-10	3C	4600		10433		5833		.		28
29		.		4600			10433	5833		.		30
31		.		4600	7133			2533	3C	FPB-2-2	30/3	32
33	30/3	FFPB-2-1	3C	3133		5666		2533		.		34
35		.		3133			5666	2533		.		36
37		.		3133	4833			1700	3C	FPB-2-3	30/3	38
39	20/1	SPARE	-	0		1700		1700		.		40
41	20/1	SPARE	-	0			1700	1700		.		42
				TOTAL BY PHASE	44598	42098	42098					

SPARE = 0%
TOTAL CONNECTED LOAD = 128794 VA
TOTAL CONNECTED AMPS = 155 AMPS
TOTAL DEMAND LOAD = 128794 VA
TOTAL DEMAND AMPS = 155 AMPS

PANEL: HP2-2
LOCATION:
BUILDING:
FED FROM: SEE SINGLE LINE DIAGRAM
FEEDER SIZE: SEE SINGLE LINE DIAGRAM
480 / 277 VOLTS, 3 PHASE 4 WIRE
MOUNTING: ▨ SURFACE ☐ FLUSH
BUS: ▨ COPPER ☐ ALUMINUM
GROUND BUS: ☐
ISOL.GND. BUS: ☐
* SHUNT TRIP BRKR.
MAIN BUS: 225 AMPS NEUTRAL: 100%
▨ MAIN LUGS ONLY
☐ MAIN BKR: AMPS
☐ PROVIDE WITH FEED-THRU LUGS
AIC: 35000 AMPS

CKT #	TRIP / POLE	DESCRIPTION OF LOAD	WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP / POLE	CKT #
					A	B	C					
1	30/3	VAV-2-2	3C	2500	6333			3833	3C	VAV-2-3, VAV-2-4	30/3	2
3		.		2500		6333		3833		.		4
5		.		2500			6333	3833		.		6
7	30/3	FPB-2-4	3C	3366	6432			3066	3C	FPB-2-5	30/3	8
9		.		3366		6432		3066		.		10
11		.		3366			6432	3066		.		12
13	30/3	VAV-2-5	3C	3133	5233			2100	3C	FPB-2-6	30/3	14
15		.		3133		5233		2100		.		16
17		.		3133			5233	2100		.		18
19	30/3	VAV-2-8	3C	2633	6099			3466	3C	VAV-2-7	30/3	20
21		.		2633		6099		3466		.		22
23		.		2633			6099	3466		.		24
25	30/3	FPB-2-10	3C	4233	8966			4733	3C	FPB-2-9	30/3	26
27		.		4233		8966		4733		.		28
29		.		4233			8966	4733		.		30
31	30/3	FPB-2-8	3C	3033	6333			3300	3C	VAV-2-6	30/3	32
33		.		3033		6333		3300		.		34
35		.		3033			6333	3300		.		36
37		SPACE		0	5100			5100	3C	FPB-2-7	30/3	38
39		SPACE		0		5100		5100		.		40
41		SPACE		0			5100	5100		.		42
				TOTAL BY PHASE	44496	44496	44496					

SPARE = 0%
TOTAL CONNECTED LOAD = 133488 VA
TOTAL CONNECTED AMPS = 161 AMPS
TOTAL DEMAND LOAD = 133488 VA
TOTAL DEMAND AMPS = 161 AMPS

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Revisions
07-18-07 DESIGN DEVELOPMENT
08-23-07 CONSTRUCTION DOCUMENTS

Sheet
ELECTRICAL
SCHEDULES

Project
Landmark Healthcare
Facilities LLC

Fore River Medical
Pavillon
Portland, Maine

Frank Lorenz
PROFESSIONAL ENGINEER
NO. MA 7907

Date
August 23, 2007

Project No.
07-5198

Sheet No.
E-4.1

0 1/4" 1/8" 1/2" 1" 2" 3"

P:\P060000\P060106-A - Mercy Health 2nd and 3rd Floor fit-out\Drawings\Elec\P060106-A.E-4.1_2.dwg 09/25/07 8:55 AM TBlancha

PANEL: HP3-1 — 480 / 277 VOLTS, 3 PHASE 4 WIRE — MAIN BUS: 225 AMPS NEUTRAL: 100%
LOCATION: — MOUNTING: ☒ SURFACE ☐ FLUSH — ☐ MAIN LUGS ONLY
BUILDING: — BUS: ☒ COPPER ☐ ALUMINUM — ☒ MAIN BKR: 225 AMPS
FED FROM: SEE SINGLE LINE DIAGRAM — GROUND BUS: ☐ — ☐ PROVIDE WITH FEED-THRU LUGS
FEEDER SIZE: SEE SINGLE LINE DIAGRAM — ISOL.GND. BUS: ☐ — * SHUNT TRIP BRKR. — AIC: 35000 AMPS

CKT #	TRIP / POLE	DESCRIPTION OF LOAD	WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP / POLE	CKT #
					A	B	C					
1	20/1	(E)VAV-A	2A	2500	4366			1866	3C	FPB-3-11	30/3	2
3	30/3	FPB-3-12	3C	2966		4832		1866		.		4
5		.		2966			4832	1866		.		6
7		.		2966	6166			3200	3C	VAV-3-12	30/3	8
9	30/3	VAV-3-13	3C	2433		5633		3200		.		10
11		.		2433			5633	3200		.		12
13		.		2433	6666			4233	3C	FPB-3-9	30/3	14
15	30/3	FPB-3-10	3C	2266		6499		4233		.		16
17		.		2266			6499	4233		.		18
19		.		2266	3966			1700	3C	VAV-3-10	30/3	20
21	30/3	VAV-3-11	3C	3233		4933		1700		.		22
23		.		3233			4933	1700		.		24
25		.		3233	7199			3966	3C	FPB-3-1	30/3	26
27	30/3	VAV-3-14	3C	2266		6232		3966		.		28
29		.		2266			6232	3966		.		30
31		.		2266	4616			2350	3C	FPB-3-2	30/3	32
33	30/3	VAV-3-1	3C	800		3150		2350		.		34
35		.		800			3150	2350		.		36
37		.		800	5733			4933	3C	FPB-3-3	30/3	38
39	20/1	SPACE	-	0		4933		4933		.		40
41	20/1	SPACE	-	0			4933	4933		.		42
				TOTAL BY PHASE	38712	36212	36212					

SPARE = 0%

TOTAL CONNECTED LOAD = 111136 VA — TOTAL DEMAND LOAD = 111136 VA
TOTAL CONNECTED AMPS = 134 AMPS — TOTAL DEMAND AMPS = 134 AMPS

PANEL: HP3-2 — 480 / 277 VOLTS, 3 PHASE 4 WIRE — MAIN BUS: 225 AMPS NEUTRAL: 100%
LOCATION: — MOUNTING: ☒ SURFACE ☐ FLUSH — ☒ MAIN LUGS ONLY
BUILDING: — BUS: ☒ COPPER ☐ ALUMINUM — ☐ MAIN BKR: AMPS
FED FROM: SEE SINGLE LINE DIAGRAM — GROUND BUS: ☐ — ☐ PROVIDE WITH FEED-THRU LUGS
FEEDER SIZE: SEE SINGLE LINE DIAGRAM — ISOL.GND. BUS: ☐ — * SHUNT TRIP BRKR. — AIC: 35000 AMPS

CKT #	TRIP / POLE	DESCRIPTION OF LOAD	WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP / POLE	CKT #
					A	B	C					
1	30/3	VAV-3-2	3C	2500	4666			2166	3C	VAV-3-3, VAV-3-4	30/3	2
3		.		2500		4666		2166		.		4
5		.		2500			4666	2166		.		6
7	30/3	FPB-3-4	3C	2000	5066			3066	3C	VAV-3-5, VAV-3-6	30/3	8
9		.		2000		5066		3066		.		10
11		.		2000			5066	3066		.		12
13	30/3	FPB-3-5	3C	1466	4366			2900	3C	FPB-3-6	30/3	14
15		.		1466		4366		2900		.		16
17		.		1466			4366	2900		.		18
19	30/3	VAV-3-7	3C	2933	5633			2700	3C	VAV-3-8	30/3	20
21		.		2933		5633		2700		.		22
23		.		2933			5633	2700		.		24
25	30/3	VAV-3-9	3C	2566	6532			3966	3C	FPB-3-7	30/3	26
27		.		2566		6532		3966		.		28
29		.		2566			6532	3966		.		30
31	30/3	FPB-3-8	3C	2166	2166			0		SPACE		32
33		.		2166		2166		0		SPACE		34
35		.		2166			2166	0		SPACE		36
37		SPACE		0	0			0		SPACE		38
39		SPACE		0		0		0		SPACE		40
41		SPACE		0			0	0		SPACE		42
				TOTAL BY PHASE	28429	28429	28429					

SPARE = 0%

TOTAL CONNECTED LOAD = 85287 VA — TOTAL DEMAND LOAD = 85287 VA
TOTAL CONNECTED AMPS = 103 AMPS — TOTAL DEMAND AMPS = 103 AMPS

PANEL: LP2 — 480 / 277 VOLTS, 3 PHASE 4 WIRE — MAIN BUS: 225 AMPS NEUTRAL: 100%
LOCATION: — MOUNTING: ☒ SURFACE ☐ FLUSH — ☐ MAIN LUGS ONLY
BUILDING: — BUS: ☒ COPPER ☐ ALUMINUM — ☒ MAIN BKR: 225 AMPS
FED FROM: SEE SINGLE LINE DIAGRAM — GROUND BUS: ☐ — ☐ PROVIDE WITH FEED-THRU LUGS
FEEDER SIZE: SEE SINGLE LINE DIAGRAM — ISOL.GND. BUS: ☐ — * SHUNT TRIP BRKR. — AIC: 35000 AMPS

CKT #	TRIP / POLE	DESCRIPTION OF LOAD	WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP / POLE	CKT #
					A	B	C					
1	2A/1	LIGHTING	2A	1296	2626			1330	2A	(E)CORRIDOR LIGHTING	20/1	2
3	20/1	(E)EMERGENCY LIGHTING	2A	218		2103		1885	2A	LIGHTING	20/1	4
5	20/1	LIGHTING	2A	1444			2693	1249	2A	LIGHTING	20/1	6
7	20/1	LIGHTING	2A	2284	4552			2268	2A	LIGHTING	20/1	8
9	20/1	LIGHTING	2A	1608		3256		1648	2A	LIGHTING	20/1	10
11	20/1	LIGHTING	2A	1880			4557	2677	2A	LIGHTING	20/1	12
13	20/1	LIGHTING	2A	1575	2279			704	2A	LIGHTING	20/1	14
15	20/1	LIGHTING	2A	0		1744		1744	2A	LIGHTING	20/1	16
17	20/1	SPARE	-	0			0	0	-	SPARE	20/1	18
19	20/1	SPARE	-	0	0			0	-	SPARE	20/1	20
21	20/1	SPARE	-	0		0		0	-	SPARE	20/1	22
23	20/1	SPARE	-	0			0	0	-	SPARE	20/1	24
25	20/1	SPARE	-	0	0			0	-	SPARE	20/1	26
27	20/1	SPARE	-	0		0		0	-	SPARE	20/1	28
29	20/1	SPARE	-	0			7500	7500	4B	15 KVA XFMR - LC1	40/2	30
31	20/1	SPARE	-	0	7500			7500		.		32
33	20/1	SPARE	-	0		7500		7500	4B	15 KVA XFMR - LC2	40/2	34
35	20/1	SPARE	-	0			7500	7500		.		36
37	20/1	SPARE	-	0	25000			25000	SEE SLD	75 KVA XFMR TO PANEL RP2	125/3	38
39	20/1	SPARE	-	0		25000		25000		.		40
41	20/1	SPARE	-	0			25000	25000		.		42
				TOTAL BY PHASE	41957	39603	47250					

SPARE = 0%

TOTAL CONNECTED LOAD = 128810 VA — TOTAL DEMAND LOAD = 87263 VA
TOTAL CONNECTED AMPS = 155 AMPS — TOTAL DEMAND AMPS = 105 AMPS

PANEL: LP3 — 480 / 277 VOLTS, 3 PHASE 4 WIRE — MAIN BUS: 225 AMPS NEUTRAL: 100%
LOCATION: — MOUNTING: ☒ SURFACE ☐ FLUSH — ☐ MAIN LUGS ONLY
BUILDING: — BUS: ☒ COPPER ☐ ALUMINUM — ☒ MAIN BKR: 225 AMPS
FED FROM: SEE SINGLE LINE DIAGRAM — GROUND BUS: ☐ — ☐ PROVIDE WITH FEED-THRU LUGS
FEEDER SIZE: SEE SINGLE LINE DIAGRAM — ISOL.GND. BUS: ☐ — * SHUNT TRIP BRKR. — AIC: 35000 AMPS

CKT #	TRIP / POLE	DESCRIPTION OF LOAD	WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP / POLE	CKT #
					A	B	C					
1	20/1	CORRIDOR LIGHTING	2A	224	382			158	2A	EMERGENCY LIGHTING	20/1	2
3	20/1	LIGHTING	2A	1329		3590		2261	2A	LIGHTING	20/1	4
5	20/1	LIGHTING	2A	2168			3960	1792	2A	LIGHTING	20/1	6
7	20/1	LIGHTING	2A	1860	2996			1136	2A	LIGHTING	20/1	8
9	20/1	LIGHTING	2A	1352		3316		1964	2A	LIGHTING	20/1	10
11	20/1	LIGHTING	2A	2048			4320	2272	2A	LIGHTING	20/1	12
13	20/1	LIGHTING	2A	1346	3532			2186	2A	LIGHTING	20/1	14
15	20/1	LIGHTING	2A	2200		2200		0	-	SPARE	20/1	16
17	20/1	SPARE	-	0			0	0	-	SPARE	20/1	18
19	20/1	SPARE	-	0	0			0	-	SPARE	20/1	20
21	20/1	SPARE	-	0		0		0	-	SPARE	20/1	22
23	20/1	SPARE	-	0			0	0	-	SPARE	20/1	24
25	20/1	SPARE	-	0	0			0	-	SPARE	20/1	26
27	20/1	SPARE	-	0		0		0	-	SPARE	20/1	28
29	20/1	SPARE	-	0			0	0	-	SPARE	20/1	30
31	20/1	SPARE	-	0	0			0	-	SPARE	20/1	32
33	20/1	SPARE	-	0		0		0	-	SPARE	20/1	34
35	20/1	SPARE	-	0			0	0	-	SPARE	20/1	36
37	20/1	SPARE	-	0	25000			25000	SEE SLD	75 KVA XFMR TO PANEL RP3	125/3	38
39	20/1	SPARE	-	0		25000		25000		.		40
41	20/1	SPARE	-	0			25000	25000		.		42
				TOTAL BY PHASE	31910	34106	33280					

SPARE = 0%

TOTAL CONNECTED LOAD = 99296 VA — TOTAL DEMAND LOAD = 72870 VA
TOTAL CONNECTED AMPS = 120 AMPS — TOTAL DEMAND AMPS = 88 AMPS

PANEL: LC1 — 240 /120 VOLTS, 1 PHASE 3 WIRE — MAIN BUS 100 AMPS
LOCATION: — MOUNTING: ☐ SURFACE ☒ FLUSH — MAIN BRK AMPS P
BUILDING: — BUS ☒ COPPER ☐ ALUMINUM — NEUTRAL 100% AIC 10000
FED FROM: SEE SINGLE LINE DIAGRAM — GROUND BUS ☐ — ☐ THRU-FEED LUGS — ☒ LUGS ONLY
FEEDER SIZE: SEE SINGLE LINE DIAGRAM — ISOL.GND. BUS ☐ — * SHUNT TRIP BRKR. — FEED: ☐ TOP ☐ BTM

CKT NO	TRIP AMPS	DESCRIPTION OF LOAD	WIRE & COND	LOAD (VA)	PER PHASE (VA)		LOAD (VA)	WIRE & COND	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO
					A	B					
1	20/1	RECEPTACLES	2A	720	1080		360	2A	RECEPTACLES	20/1	2
3	20/1	RECEPTACLES	2A	360		360	0	2A		20/1	4
5	20/1		2A	0	0		0	2A		20/1	6
7	20/1		2A	0		0	0	2A		20/1	8
9	20/1		2A	0	0		0	2A	EQUIPMENT	30/2	10
11	20/1		2A	0		0	0		.		12
				TOTAL BY PHASE	1080	360					

		MULT FACTOR	
TOTAL LTG.	0	1.25	0
TOTAL MISC.	0	1.00	0
TOTAL REC.	1440	Per NEC	1440
TOTAL A/C	0	0.70	0
TOTAL HTG	0	1.00	0
TOTAL CONN	1440		

SPARE 0% SIZING FACTOR 1
TOTAL DEMAND 1440
TOTAL LOAD 1440 VA 6 AMPS

PANEL: LC2 — 240 /120 VOLTS, 1 PHASE 3 WIRE — MAIN BUS 100 AMPS
LOCATION: — MOUNTING: ☐ SURFACE ☒ FLUSH — MAIN BRK AMPS P
BUILDING: — BUS ☒ COPPER ☐ ALUMINUM — NEUTRAL 100% AIC
FED FROM: SEE SINGLE LINE DIAGRAM — GROUND BUS ☐ — ☐ THRU-FEED LUGS — ☐ LUGS ONLY
FEEDER SIZE: SEE SINGLE LINE DIAGRAM — ISOL.GND. BUS ☐ — * SHUNT TRIP BRKR. — FEED: ☐ TOP ☐ BTM

CKT NO	TRIP AMPS	DESCRIPTION OF LOAD	WIRE & COND	LOAD (VA)	PER PHASE (VA)		LOAD (VA)	WIRE & COND	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO
					A	B					
1	20/1	RECEPTACLES	2A	720	1080		360	2A	RECEPTACLES	20/1	2
3	20/1	RECEPTACLES	2A	360		360	0	2A		20/1	4
5	20/1		2A	0	0		0	2A		20/1	6
7	20/1		2A	0		0	0	2A		20/1	8
9	20/1		2A	0	0		0	2A	EQUIPMENT	30/2	10
11	20/1		2A	0		0	0		.		12
				TOTAL BY PHASE	1080	360					

		MULT FACTOR	
TOTAL LTG.	0	1.25	0
TOTAL MISC.	0	1.00	0
TOTAL REC.	1440	Per NEC	1440
TOTAL A/C	0	0.70	0
TOTAL HTG	0	1.00	0
TOTAL CONN	1440		

SPARE 0% SIZING FACTOR 1
TOTAL DEMAND 1440
TOTAL LOAD 1440 VA 6 AMPS

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Revisions
07–18–07 DESIGN DEVELOPMENT
08–23–07 CONSTRUCTION DOCUMENTS

Sheet
ELECTRICAL
SCHEDULES

Project
Landmark Healthcare
Facilities LLC

Fore River Medical
Pavilion
Portland, Maine

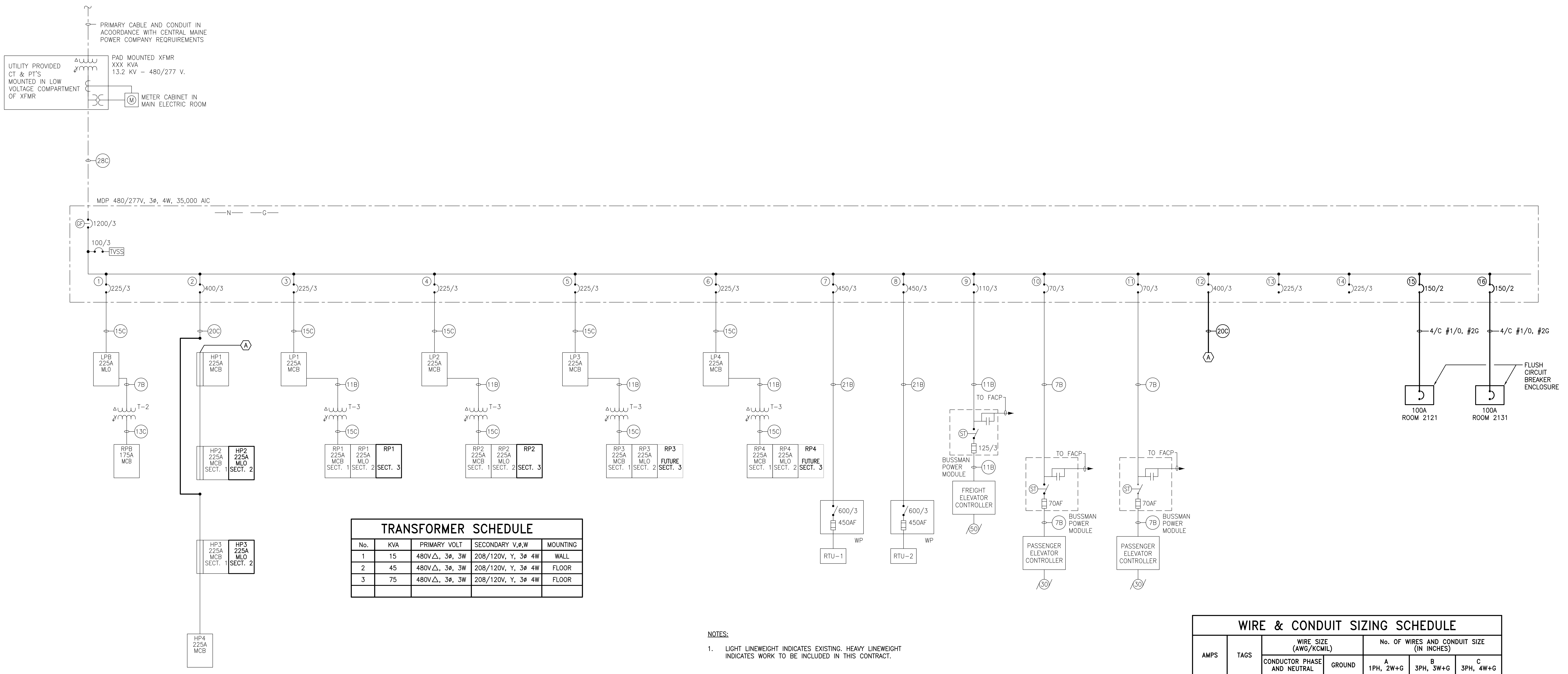
Frank Lorenz
PROFESSIONAL ENGINEER
NO. MA 7907

Date
August 23, 2007

Project No.
07-5198

Sheet No.
E-4.2

0 1/4" 1" 2" 3"
1/8" 1/2"
P:\P060000\P060106-A – Mercy Health 2nd and 3rd Floor fit–out\Drawings\Elec\P060106–A.E–4.1_2.dwg 09/25/07 8:55 AM TBlancha


PRIMARY CABLE AND CONDUIT IN ACOORDANCE WITH CENTRAL MAINE POWER COMPANY REQRUIREMENTS
UTILITY PROVIDED CT & PT'S MOUNTED IN LOW VOLTAGE COMPARTMENT OF XFMR
PAD MOUNTED XFMR XXX KVA 13.2 KV – 480/277 V.
M
METER CABINET IN MAIN ELECTRIC ROOM
28C
MDP 480/277V, 3ø, 4W, 35,000 AIC
N
G
GF
1200/3
100/3
TVSS
① 225/3
② 400/3
③ 225/3
④ 225/3
⑤ 225/3
⑥ 225/3
⑦ 450/3
⑧ 450/3
⑨ 110/3
⑩ 70/3
⑪ 70/3
⑫ 400/3
⑬ 225/3
⑭ 225/3
⑮ 150/2
⑯ 150/2
15C
20C
A
LPB 225A MLO
7B
T-2
13C
RPB 175A MCB
HP1 225A MCB
HP2 225A MCB SECT. 1
HP2 225A MLO SECT. 2
HP3 225A MCB SECT. 1
HP3 225A MLO SECT. 2
HP4 225A MCB
LP1 225A MCB
LP2 225A MCB
LP3 225A MCB
LP4 225A MCB
11B
T-3
RP1 225A MCB SECT. 1
RP1 225A MLO SECT. 2
RP1 SECT. 3
RP2 225A MCB SECT. 1
RP2 225A MLO SECT. 2
RP2 SECT. 3
RP3 225A MCB SECT. 1
RP3 225A MLO SECT. 2
RP3 FUTURE SECT. 3
RP4 225A MCB SECT. 1
RP4 225A MLO SECT. 2
RP4 FUTURE SECT. 3
21B
600/3
450AF
WP
RTU-1
RTU-2
TO FACP
ST
125/3
BUSSMAN POWER MODULE
FREIGHT ELEVATOR CONTROLLER
50
70AF
PASSENGER ELEVATOR CONTROLLER
30
4/C #1/0, #2G
FLUSH CIRCUIT BREAKER ENCLOSURE
100A ROOM 2121
100A ROOM 2131

TRANSFORMER SCHEDULE

No.	KVA	PRIMARY VOLT	SECONDARY V,ø,W	MOUNTING
1	15	480V△, 3ø, 3W	208/120V, Y, 3ø 4W	WALL
2	45	480V△, 3ø, 3W	208/120V, Y, 3ø 4W	FLOOR
3	75	480V△, 3ø, 3W	208/120V, Y, 3ø 4W	FLOOR

NOTES:

1. LIGHT LINEWEIGHT INDICATES EXISTING. HEAVY LINEWEIGHT INDICATES WORK TO BE INCLUDED IN THIS CONTRACT.

WIRE & CONDUIT SIZING SCHEDULE

AMPS	TAGS	WIRE SIZE (AWG/KCMIL)		No. OF WIRES AND CONDUIT SIZE (IN INCHES)		
		CONDUCTOR PHASE AND NEUTRAL	GROUND	A 1PH, 2W+G	B 3PH, 3W+G	C 3PH, 4W+G
15	1	14	14	3/4	3/4	3/4
20	2	12	12	3/4	3/4	3/4
30	3	10	10	3/4	3/4	3/4
40	4	8	10	3/4	3/4	3/4
50	5	6	10	3/4	1	1
60	6	4	10	1	1¼	1¼
70	7	4	8	1	1¼	1¼
80	8	3	8	1	1¼	1¼
90	9	2	8	1¼	1¼	1½
100	10	1	8	1¼	1½	2
125	11	1	6	1¼	1½	2
150	12	1/0	6	1½	2	2
175	13	2/0	6	1½	2	2½
200	14	3/0	6	2	2	2½
225	15	4/0	4	2	2½	2½
250	16	250	4	2	2½	3
275	17	300	4	2½	3	3
300	18	350	4	2½	3	3
350	19	500	3	3	4	4
400	20	500	3	3	4	4
450	21	(2)4/0	(2)2		(2)2½	(2)2½
500	22	(2)250	(2)2		(2)2½	(2)3
600	23	(2)350	(2)1		(2)3	(2)4
700	24	(2)500	(2)1/0		(2)4	(2)4
800	25	(2)500	(2)1/0		(2)4	(2)4
1000	26	(3)400	(3)2/0		(3)3	(3)4
1100	27	(3)500	(3)3/0		(3)3	(3)4
1200	28	(4)350	(4)3/0		(4)3	(4)4
1500	29	(4)500	(4)4/0		(4)4	(4)4
1600	30	(5)400	(5)4/0		(5)4	(5)4
1900	31	(5)500	(5)250		(5)4	(5)4
2000	32	(6)400	(6)250		(6)4	(6)4
2500	33	(7)500	(7)350		(7)4	(7)4
3000	34	(8)500	(8)400		(8)4	(8)4

NOTE:

1. THE ABOVE SCHEDULE IS BASED ON 600 VOLT WIRE TYPE THWN/XHHW AND EMT/RGS CONDUIT

(2B) NUMBER INDICATES FEEDER SIZE IN AMPS AND WIRE
LETTER INDICATES CONDUIT SIZE AND NUMBER OF WIRES

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PRINCETON · STAMFORD · MEXICO CITY

Revisions

07-18-07 DESIGN DEVELOPMENT
08-23-07 CONSTRUCTION DOCUMENTS

Sheet

ELECTRICAL
DETAILS

Project

Landmark Healthcare
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Fore River Medical
Pavilion
Portland, Maine

Frank Lorenz
PROFESSIONAL ENGINEER
NO. MA 7907

Date

August 23, 2007

Project No.

07-5198

Sheet No.

E-5.0

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