ABBREVIATIONS

A	
A	AMPERE
AF	AMPERE FRAME (CIRCUIT BREAKER RATING)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	ASYMMETRICAL INTERRUPTING CAPACITY
AL	ALUMINUM
AM	AMMETER
AUTO	AUTOMATIC
ANN	ANNUNCIATOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECTURAL
AT	AMPERE TRIP SENSOR
AT	AMPERE TRIP
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
B	
BAS	BUILDING AUTOMATION SYSTEM
BD	BOARD
BKBD	BACKBOARD
BKR	BREAKER, BREAKER
BLDG	BUILDING
BWC	BAYSEE WHITE ENAMEL
C	
C	CONDUIT
CAB	CABINET
CAT	CATALOG
C.B.	CIRCUIT BREAKER
CBH	CIRCUIT HEATER
CIR	CIRCUIT
CKT	CIRCUIT
CLG	CEILING
COL	COLUMN
CNTL	CONTROLLER
COMB	COMBINATION
COMB	COMBINATION
CON	CONNECTION
CRT	CRITICAL
CS	CONTROL SWITCH
CT	CABLE TRAY/CURRENT TRANSFORMER
CU	COPPER
D	
D	DEMAND
DIA	DIAMETER
DWG	DWG
E	
E	WIRED ON EMERGENCY CIRCUIT
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EO	ELECTRICALLY OPERATED
EOLMP	EXIT LAMP
EX	EXAM LIGHT
EXH	EXHAUST
EXP	EXPLOSION PROOF
F	
F	FLUSH
FA	FIRE ALARM
FACP	FIRE ALARM UNIT
FDR	FEEDER
FI	FILM ILLUMINATOR
FLUOR	FLUORESCENT
FPU	FIELD PROCESSING UNIT
FS	FUSED SWITCH
FT	FEET
G	
G	GROUND
GA	GAUGE
GEN	GENERATOR
GF	GROUND FAULT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTING
GND	GROUND
H	
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND OFF AUTO
HP	HORSEPOWER
HTR	HEATER
I	
IC	INTERRUPTING CAPACITY
INC	INCANDESCENT
J	
JB	JUNCTION BOX
K	
KCMIL	ONE THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
L	
LA	LIGHTING ARRESTER
LS	LIFE SAFETY
LTG	LIGHTING
M	
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MGS	MAIN GROUND SWITCH
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUG ONLY
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
N	
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRIC MANUFACTURES ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHTLIGHT
NM	NURSE MASTER
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O	
OCP	OVERCURRENT PROTECTION DEVICE
OPER	OPERATOR
P	
P	POLE
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
R	
R	RISERS
RGS	RIGID GALVANIZED STEEL
S	
S	SURFACE
SCR	SHORT CIRCUIT INTERRUPTING RATING
SP	SPARE
SW	SWITCH
T	
TEL	TELEPHONE
U	
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	
V	VOLT
W	
W	WATT
WP	WEATHERPROOF
X	
XFMR	TRANSFORMER
Y	
Y	WYE

DRAWING NOTES AND DESIGNATIONS

- KEY NOTES
- EQUIPMENT DESIGNATIONS
- ROOM NUMBERS
- FEEDER AND/OR BRANCH CIRCUIT NUMBER
- REVISION NOTATION (= INDICATES NUMBER)

DEMOLITION LEGEND

- "X" EXISTING ELECTRICAL DEVICE TO BE REMOVED
- "XM" EXISTING ELECTRICAL DEVICE TO BE MAINTAINED
- "XR" EXISTING ELECTRICAL DEVICE TO BE REMOVED AND RELOCATED
- "XL" EXISTING ELECTRICAL DEVICE RELOCATED

DRAWING LIST

ELECTRICAL

E001 ELECTRICAL LEGEND, GENERAL NOTES AND ABBREVIATIONS
E010 ELECTRICAL SITE DEMOLITION PLAN
E040 ELECTRICAL SITE DISTRIBUTION PLAN
E501 ELECTRICAL PARTIAL POWER PLANS
E700 ELECTRICAL SCHEDULES
E800 ELECTRICAL DETAILS

General Notes:

GENERAL NOTES:

1. THIS IS A STANDARD SYMBOL LIST. ALL DEVICE SYMBOLS AND ABBREVIATIONS MAY NOT NECESSARILY APPEAR ON THE FLOOR PLANS OR DETAIL SHEET. ONLY THOSE SYMBOLS INDICATED ON THE FLOOR PLANS ARE USED AND OTHERS SHOULD BE DISREGARDED.
2. MOUNTING HEIGHTS SHALL BE AS INDICATED ON MOUNTING HEIGHT DETAIL (BELOW)
3. CONTRACTOR SHALL VERIFY ALL DOOR SWINGS BEFORE INSTALLING SWITCH BOXES.
4. FOR EXACT LOCATION OF LIGHTING FIXTURES SEE REFLECTED CEILING PLAN DRAWINGS.
5. FOR MOUNTING HEIGHT OF UNDER-COUNTER LIGHTING FIXTURES AND OTHER TASK LIGHTING, REFER TO ARCHITECTURAL DRAWINGS.
6. ELECTRICAL CONTRACTOR IS TO COORDINATE THE EXACT LOCATION OF LIGHTING FIXTURES IN MECHANICAL AND STORAGE AREAS WITH OTHER TRADES.
7. FOR EXACT LOCATION AND RATING OF MECHANICAL EQUIPMENT (AC UNITS, FANS, PUMPS, ETC.) REFER TO RESPECTIVE TRADES DRAWINGS.
8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EXPANSION FITTINGS IN ALL RACEWAYS CROSSING CONSTRUCTION OR EXPANSION JOINTS.
9. ALL WIRE SHALL BE 600V RATED COPPER. WIRE SIZE #14 THRU #3/0 SHALL BE DUAL RATED TYPE THHN/THWN, #4/0 AND LARGER SHALL BE TYPE THHN/THWN OR XHHW. WIRE SIZE #14 THRU #10 SHALL BE SOLID, #8 AND LARGER SHALL BE STRANDED. ALL POWER WIRING FOR MECHANICAL EQUIPMENT SHALL BE A MINIMUM OF THREE (3) #10's. ALL CONTROL WIRING SHALL BE A MINIMUM OF TWO (2) #14's. ALL HOMERUNS IN EXCESS OF 100 FEET FROM SOURCE SHALL BE A MINIMUM OF THREE (3) #10's. ALL OTHER WIRING SHALL BE A MINIMUM OF THREE (3) #12's.
10. ALL CURRENT CARRYING MATERIAL USED SHALL BE COPPER, INCLUDING PANELBOARD BUS MATERIALS AND TRANSFORMER WINDINGS.
11. FURNISH GROUNDING/BONDING BUSHINGS ONTO ALL CONDUIT ENTERING/LEAVING BOXES.
12. ALL GROUND CONDUCTORS SHALL BE GREEN, ISOLATED GROUND CONDUCTORS SHALL BE GREEN/YELLOW STRIPPED, AND NEUTRAL CONDUCTORS SHALL BE WHITE.
13. CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRE, AND LABOR AS REQUIRED BY THE FIRE ALARM MANUFACTURER TO PROPERLY CONNECT THE DEVICES INDICATED ON THE DRAWINGS. FIRE ALARM SHOP DRAWING SUBMITTAL SHALL INCLUDE A RISER DIAGRAM AND COMPLETED BATTERY CALCULATIONS.

ELECTRICAL LEGEND

CONVENIENCE OUTLET (HOSPITAL GRADE) – REFER TO ARCHITECTURAL ELEVATIONS

- 12 — STANDARD RECEPTACLE DESIGNATION: "12" INDICATES BRANCH CIRCUIT NUMBER
- NEMA 5-20R DUPLEX RECEPTACLE (NORMAL CIRCUIT)
- NEMA 5-20R DUPLEX RECEPTACLE (EMERGENCY CRITICAL CIRCUIT)
- 9" — NEMA 5-20R DUPLEX RECEPTACLE – 9" BELOW FINISHED CEILING – U.N.O.
- TP — NEMA 5-20R DUPLEX RECEPTACLE – TAMPER PROOF
- NEMA 5-20R DUPLEX RECEPTACLE – GROUND FAULT INTERRUPTING
- GFI — NEMA 5-20R DUPLEX RECEPTACLE – GROUND FAULT INTERRUPTING (EMERGENCY CRITICAL CIRCUIT)
- 6" — NEMA 5-20R DUPLEX RECEPTACLE – MOUNTED 6" ABOVE COUNTER BACKSPLASH – U.N.O.
- WP — NEMA 5-20R DUPLEX RECEPTACLE – WEATHERPROOF
- IGO — NEMA 5-20R DUPLEX RECEPTACLE – ISOLATED GROUND
- DR — NEMA 5-20R DOUBLE DUPLEX RECEPTACLE (NORMAL CIRCUIT)
- DR — NEMA 5-20R DOUBLE DUPLEX RECEPTACLE (EMERGENCY CRITICAL CIRCUIT)
- NEMA 5-20R SINGLE RECEPTACLE (EMERGENCY CRITICAL CIRCUIT)
- NEMA 5-20R SINGLE RECEPTACLE
- NEMA L5-20R TWIST LOCK SINGLE RECEPTACLE (NORMAL CIRCUIT)
- NEMA L5-20R TWIST LOCK SINGLE RECEPTACLE (EMERGENCY CRITICAL CIRCUIT)
- SPECIAL PURPOSE WIRING DEVICE, NEMA CONFIGURATION AS INDICATED
- FLUSH FLOOR BOX ASSEMBLY WITH INDICATED DEVICE
- FLUSH FLOOR BOX ASSEMBLY WITH INDICATED DEVICE (EMERGENCY CRITICAL CIRCUIT)
- POWER POLE
- SURFACE METAL RACEWAY WITH DEVICES INDICATED ON PLAN
- MULTI-OUTLET ASSEMBLY

MISCELLANEOUS

- LIGHTING AND/OR POWER PANELBOARD
- EXISTING LIGHTING AND/OR POWER PANELBOARD
- JUNCTION BOX
- LCA — LOCAL GAS ALARM PANEL CONNECTION
- MGA — MASTER GAS ALARM PANEL CONNECTION
- FI — FILM ILLUMINATOR CONNECTION
- EWC — ELECTRIC WATER COOLER CONNECTION
- FLOOR JUNCTION BOX
- 3 — GROUND JACK – NUMBER INDICATES QUANITY
- MOTOR CONNECTION
- DSF — DISCONNECT SWITCH – FUSED
- DS — DISCONNECT SWITCH – UNFUSED
- PB — PULL BOX
- T — DRY-TYPE TRANSFORMER
- MOTOR STARTER AND/OR CONTROL SWITCH
- MSP — COMBINATION DISCONNECT SWITCH AND MOTOR STARTER WITH PILOT WITH HAND-OFF-AUTO SELECTOR SWITCH
- CB — ENCLOSED SEPARATELY MOUNTED CIRCUIT BREAKER
- GGA — REMOTE GENERATOR ANNUNCIATOR PANEL
- TC — TIME CLOCK
- S — EMERGENCY SUPERVISORY RELAY
- C — LIGHTING CONTACTOR (i.e. ASCO 917)
- PLP — PLUGIN PLATE

CONDUIT RUNS

- LGE-1,3 / #12 — HOMERUN TO PANELBOARD "LGE" CIRCUIT NO.'S 1 AND 3 SLASH LINES INDICATE NO. OF CONDUCTORS; NO SLASH LINES INDICATE (2) CONDUCTORS. REQUIRED GROUND CONDUCTORS ARE NOT INDICATED. MINIMUM SIZE NO. 12AWG AND 3/4" CONDUIT UNLESS OTHERWISE INDICATED
- TURNING UP
- TURNING DOWN
- XM — EXISTING BRANCH CIRCUIT WIRING TO BE MAINTAINED
- XM — EXISTING BRANCH CIRCUIT HOMERUN TO BE MAINTAINED

LIGHTING FIXTURE AND OUTLET BOX – LETTER REFERS TO FIXTURE SCHEDULE

- 2B — STANDARD LIGHTING FIXTURE DESIGNATION: "1W" INDICATES LIGHTING FIXTURE TYPE (REFER TO LIGHTING FIXTURE SCHEDULE). "9" INDICATES BRANCH CIRCUIT NUMBER; "a" INDICATES SWITCH CONTROL
- FLUORESCENT LIGHTING FIXTURE (NORMAL CIRCUIT)
- FLUORESCENT LIGHTING FIXTURE (EMERGENCY LIFE SAFETY CIRCUIT)
- FLUORESCENT LIGHTING FIXTURE (EMERGENCY CRITICAL CIRCUIT)
- RECESSED LIGHTING FIXTURE (NORMAL CIRCUIT)
- RECESSED LIGHTING FIXTURE (EMERGENCY LIFE SAFETY CIRCUIT)
- RECESSED LIGHTING FIXTURE (EMERGENCY CRITICAL CIRCUIT)
- WALL MOUNTED (BRACKET OR FLUSH) LIGHTING FIXTURE (NORMAL CIRCUIT)
- WALL MOUNTED (BRACKET OR FLUSH) LIGHTING FIXTURE (EMERGENCY LIFE SAFETY CIRCUIT)
- WALL MOUNTED (BRACKET OR FLUSH) LIGHTING FIXTURE (EMERGENCY CRITICAL CIRCUIT)
- EXIT SIGN – CEILING MOUNTED – REFER TO PLANS FOR DIRECTIONAL ARROWS
- EXIT SIGN – WALL MOUNTED – REFER TO PLANS FOR DIRECTIONAL ARROWS
- EMERGENCY LIGHTING BATTERY UNIT
- EMERGENCY REMOTE LIGHTING HEAD

TUMBLER SWITCHES

- S — 20 AMPERE 120/277 VOLT, SINGLE POLE SWITCH – LETTER INDICATES SWITCHING ARRANGEMENT
- S2a — 20 AMPERE 120/277 VOLT, TWO POLE SWITCH – LETTER INDICATES SWITCHING ARRANGEMENT
- S3a — 20 AMPERE 120/277 VOLT, THREE POLE SWITCH – LETTER INDICATES SWITCHING ARRANGEMENT
- S4a — 20 AMPERE 120/277 VOLT, FOUR POLE SWITCH – LETTER INDICATES SWITCHING ARRANGEMENT
- SK — 20 AMPERE 120/277 VOLT, SINGLE POLE KEY SWITCH
- S2K — 20 AMPERE 120/277 VOLT, TWO POLE KEY SWITCH
- S3K — 20 AMPERE 120/277 VOLT, THREE POLE KEY SWITCH
- S4K — 20 AMPERE 120/277 VOLT, FOUR POLE KEY SWITCH
- ST — SINGLE POLE SWITCH WITH THERMAL ELEMENT
- SP — SINGLE POLE SWITCH WITH PILOT LIGHT
- SD — DIMMER SWITCH
- OS — MOTION DETECTOR OR SENSOR

NURSE CALL SYSTEM

- N-TB — SINGLE BED STATION WITH WALL SPEAKER AND PATIENT CONTROL UNIT
- N-TBC — SINGLE BED STATION WITH WALL SPEAKER AND SINGLE ACTION PUSH BUTTON CORD SET
- N-PB — PUSH BUTTON TYPE PATIENT STATION
- N-DB — DUAL BEDSIDE STATION WITH WALL SPEAKER AND TWO PATIENT CONTROL UNITS
- N-T — TOILET/DRESSING ROOM STATION
- N-S — SHOWER STATION, CEILING MOUNTED WITH PULL CORD
- N-CB — CODE BLUE STATION
- DOME LIGHT WITH SINGLE LAMP, CEILING MOUNTED
- DOME LIGHT WITH SINGLE LAMP, WALL MOUNTED
- N-DS — DUTY STATION
- N-SS — STAFF STATION
- N-SE — STAFF EMERGENCY STATION
- N-Z — ZONE DOME LIGHT, CEILING OR WALL MOUNTED
- N-ZCB — CODE BLUE ZONE DOME LIGHT WITH 2 LAMPS, CEILING OR WALL MOUNTED
- N-P — PSYCHIATRIC PATIENT STATION
- N-PA — PSYCHIATRIC SPEAKER/MICROPHONE, CEILING MOUNTED
- N-PT — PSYCHIATRIC TOILET/DRESSING STATION
- N-PS — PSYCHIATRIC BATH/SHOWER STATION
- N-NS — NURSE CALL MASTER STATION, WALL OR DESK MOUNTED
- N-CBA — NURSE CALL CODE BLUE ANNUNCIATOR, WALL OR DESK MOUNTED
- N-EC — NURSE CALL EQUIPMENT CABINET "EC" INDICATES INDIVIDUAL CABINET DESIGN
- N-A — NURSE CALL ANNUNCIATOR STATION
- N-AA — NURSE CALL AUXILIARY ANNUNCIATOR STATION
- N-RC — NURSE CALL RELAY CABINET

COMMUNICATIONS

- W — TELEPHONE OUTLET DEVICE (WALL MOUNTED) – PROVIDE 3/4" C. TO ABOVE HUNG CEILING
- P — TELEPHONE OUTLET DEVICE (PUBLIC) – PROVIDE 3/4" C. TO ABOVE HUNG CEILING
- TELEPHONE OUTLET DEVICE – PROVIDE 3/4" C. TO ABOVE HUNG CEILING
- COMPUTER/TELEPHONE OUTLET DEVICE – PROVIDE 3/4" C. TO ABOVE HUNG CEILING
- TELEPHONE FLOOR BOX
- TELEPHONE/DATA FLOOR BOX
- CABLE TELEVISION OUTLET DEVICE – PROVIDE 3/4" C. TO ABOVE HUNG CEILING
- INTERCOM OUTLET DEVICE
- MONITOR OUTLET DEVICE – PROVIDE 3/4" C. TO ABOVE HUNG CEILING

FIRE ALARM SYSTEM

- F — MANUAL PULL STATION
- FA — FIRE ALARM SIGNALS (AUDIBLE AND VISUAL)
- FA — FIRE ALARM SIGNAL (VISUAL ONLY)
- FA — FIRE ALARM SIGNALS (AUDIBLE AND VISUAL) – 30 CANDELA
- FA — FIRE ALARM SIGNALS (AUDIBLE AND VISUAL) – 60 CANDELA
- FA — FIRE ALARM SIGNALS (AUDIBLE AND VISUAL) – 95 CANDELA
- FA — FIRE ALARM SIGNALS (AUDIBLE AND VISUAL) – CHIME
- FA — FIRE ALARM SIGNALS (AUDIBLE AND VISUAL) – GONG
- FA — FIRE ALARM SIGNALS (AUDIBLE AND VISUAL) (CEILING MTD)
- H — HEAT DETECTOR – RATE OF RISE
- H — HEAT DETECTOR – FIXED TEMPERATURE
- S — SMOKE DETECTOR
- SD — DUCT SMOKE DETECTOR IN SUPPLY AND/OR RETURN AIR DUCTS
- SDD — HVAC DUCT DAMPER
- F — FLAME DETECTOR
- BT — BEAM DETECTOR TRANSMITTER
- BR — BEAM DETECTOR RECEIVER
- FA — FIRE ALARM MINI HORN/STROBE UNIT
- MTS — SMOKE DETECTOR REMOTE TEST STATION
- DH — ELECTRO-MAGNETIC DOOR HOLDER CONNECTION
- FS — FLOW SWITCH – FURNISHED BY DIVISION 15, WIRED BY DIVISION 16
- TS — TAMPER SWITCH – FURNISHED BY DIVISION 15, WIRED BY DIVISION 16
- PS — PRESSURE SWITCH – FURNISHED BY DIVISION 15, WIRED BY DIVISION 16
- FACP — FIRE ALARM CONTROL PANEL
- FAA — FIRE ALARM ANNUNCIATOR
- FAB — FIRE ALARM MASTER BOX
- FIRE FIGHTERS TELEPHONE
- REMOTE INDICATING LIGHT

PUBLIC ADDRESS

- FLUSH CEILING SPEAKER
- WALL MOUNTED SPEAKER BI-DIRECTIONAL
- VOLUME CONTROL
- MICROPHONE OUTLET DEVICE
- AMPLIFIER

PHYSIOLOGICAL MONITORING

- PM PS — PHYSIOLOGICAL MONITORING SYSTEM PATIENT STATION
- PM MS — PHYSIOLOGICAL MONITORING SYSTEM MASTER STATION
- PM CPU — PHYSIOLOGICAL MONITORING SYSTEM CENTRAL PROCESSING UNIT

MASTER CLOCK

- CLOCK OUTLET (WALL MOUNTED)
- CLOCK OUTLET (CEILING MOUNTED)
- ET — ELAPSED TIMER
- ETC — ELAPSED TIMER CONTROLLER

SECURITY SYSTEM

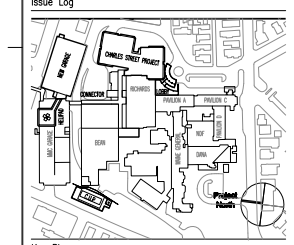
- PB — EMERGENCY PUSHBUTTON; 4" SQUARE BOX WITH SINGLE-GANG PLASTER RING
- DR — DOOR RELEASE PUSHBUTTON
- CCTV — CLOSE CIRCUIT TELEVISION CAMERA JUNCTION BOX MOUNTED ABOVE SUSPENDED CEILING
- CR — CARD READER
- EL — ELECTRO-MAGNETIC DOOR LOCK
- DS — DOOR SWITCH
- CCTV — CLOSED CIRCUIT TELEVISION MONITOR

ONE LINE DIAGRAM SYMBOLS

- MEDIUM VOLTAGE INTERRUPTOR SWITCH
- FUSE
- MEDIUM VOLTAGE CABLE TERMINATION
- 1000kVA 13.8/0.208 — TRANSFORMER
- MEDIUM VOLTAGE SURGE ARRESTER
- MEDIUM VOLTAGE DRAW OUT VACUUM CIRCUIT BREAKER
- LOW VOLTAGE DRAW OUT POWER CIRCUIT BREAKER
- LOW VOLTAGE CIRCUIT BREAKER
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSER
- POTENTIAL TRANSFORMER
- CURRENT TRANSFORMER
- DMM — DIGITAL MULTIFUNCTIONAL METER
- GFI — GROUND FAULT INTERRUPTER

MARK	ISSUE DATE	DESCRIPTION
PERMIT	09/16/04	PERMIT SET
BID	08/31/04	BID SET

Issue Log



Key Plan

TRO
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INTERIOR DESIGN
The Ritchie Organization
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Maine Medical Center
Pkg C - Site Utitlities
Portland, Maine MMC Project No. 21846

Drawing Title
ELECTRICAL LEGEND, GENERAL NOTES AND ABBREVIATIONS

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Commission No.	4677	Date Issued	08/31/04
Scale	NONE	Sheet Number	PKG-C
Drawn By	G.S.		
Approved By	T.S.		E001
Filename	4677E001		

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