

ELECTRICAL LEGEND

	DRAWING NOTE (APPLIES TO THIS DRAWING ONLY)
	DETAIL SECTION OR ELEVATION NUMBER
	REVISION NUMBER - CLOUDED AREA ON DRAWING CONTAINS REVISION
	RACEWAY - 2 #12, 1 #12 GW IN 3/4" CONDUIT, U.O.N.
	HOWEVER TO PANEL BOARD, ARROWS INDICATE NUMBER OF CIRCUITS SLASHES INDICATE CIRCUIT CONDUCTORS NO SLASH INDICATES TWO CIRCUIT CONDUCTORS PROVIDE GROUNDING CONDUCTOR, NOT SHOWN
	INDICATES TWO SWITCHED LEVELS OF ILLUMINATION PROVIDED BY THIS FIXTURE
	CONNECT TWO OUTBOARD LAMPS TO ONE SWITCH (DARKENED AREA INDICATES CONNECTION TO EMERGENCY LIGHTING CIRCUIT)
	UPPER CASE - FIXTURE TYPE (TYPICAL FOR ALL LIGHTING FIXTURES) - SEE LIGHTING FIXTURE SCHEDULE
	LOWER CASE - INDICATES CONTROLLING SWITCH(ES) (TYPICAL FOR ALL LIGHTING FIXTURES)
	FLUORESCENT LIGHTING FIXTURE
	FLUORESCENT LIGHTING FIXTURE, INDUSTRIAL TYPE
	LIGHTING FIXTURE ON EMERGENCY CIRCUIT
	LIGHTING FIXTURE, WALL MOUNTED - SEE LIGHTING FIXTURE SCHEDULE
	EXIT LIGHT - DARKENED SECTION INDICATES FACE WITH DIRECTIONAL ARROWS AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE
	SELF-CONTAINED, BATTERY POWERED EMERGENCY LIGHT WITH TWIN LAMPHEAD. SEE LIGHTING FIXTURE SCHEDULE
	TOGGLE SWITCH TO BE DEMOLISHED
	SINGLE POLE TOGGLE SWITCH - SUBSCRIPT INDICATES FIXTURES CONTROLLED BY THE SWITCH (TYPICAL FOR ALL LIGHTING SWITCHES), 4# A.F.F., U.O.N.: 3 - THREE WAY TOGGLE SWITCH, 4 - FOUR WAY TOGGLE SWITCH, 0 - WALL MTD, DUAL, TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER MODEL # DW-100 OR APPROVED EQUAL WP - WEATHERPROOF
	JUNCTION BOX: CEILING, WALL OR FLSH-LOOK MOUNTED
	DUPLEX RECEPTACLE, 2P, 3W, 20A, 125V, NEMA 5-20R IN RECESSED OUTLET BOX, 18" A.F.F., U.O.N.: * NUMERIC DENOTES MOUNTING HEIGHT. WP - WEATHERPROOF, MW - MICROWAVE, GFCI - GROUND FAULT CIRCUIT INTERRUPTER, RE - REFRIGERATOR, CM - COFFEE MAKER, TC - TELECOM, DW - DISHWASHER, IG - ISOLATED GROUND
	PANELBOARD, RECESSED OR SURFACE MOUNTED
	ELECTRICAL MOTOR
	MOTOR SWITCH WITH THERMAL OVERLOAD
	COMBINATION MAGNETIC MOTOR STARTER WITH DISCONNECT SWITCH, SIZE MOTOR STARTER AS REQUIRED.
	MAGNETIC MOTOR CONTROLLER/STARTER, SIZE MOTOR STARTER AS REQUIRED.
	FUSED DISCONNECT SWITCH, UPPER NUMERAL INDICATES SWITCH SIZE, LOWER NUMERAL INDICATES FUSE SIZE
	NONFUSED DISCONNECT SWITCH, NUMERAL INDICATES SIZE
	CEILING MOUNT DUAL, TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER MODEL # DT-300 OR APPROVED EQUAL
	POWER PACK FOR OCCUPANCY SENSOR WATTSTOPPER MODEL # B947D# OR APPROVED EQUAL

ELECTRICAL LEGEND

	GENERATOR TRANSFER DEVICE EQUAL TO BOONE GTD
	SPEAKER, CEILING OR WALL MOUNTED
	CEILING MOUNTED WIF CONNECTION
	FIRE ALARM VISUAL DEVICE, SUBSCRIPT DENOTES CANDELA RATING, 80" A.F.F. OR 6" BELOW CEILING, WHICHEVER IS LOWER.
	FIRE ALARM SPEAKER HORN WITH VISUAL DEVICE, SUBSCRIPT DENOTES CANDELA RATING, 80" A.F.F. OR 6" BELOW CEILING, WHICHEVER IS LOWER.
	FIRE ALARM MANUAL STATION, 48" A.F.F., U.O.N.
	FIRE ALARM SYSTEM MAGNETIC DOOR HOLDER
	DOOR PUSH BUTTON
	FIRE ALARM HEAT DETECTOR
	SMOKE DETECTOR: E-ELEVATOR
	SMOKE DETECTOR, DUCT TYPE
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL

ELECTRICAL ABBREVIATIONS

A	AMPERE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
ANSI	AMERICAN NAT'L STANDARDS INST'T.
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CU	COPPER
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
ETR	EXISTING TO REMAIN
EX	EXISTING
F	FUSED OR FUSIBLE
FSS	FUSED SAFETY SWITCH
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
HZ	HERTZ
J	JUNCTION BOX
KCAL	THOUSAND CALORIC MILLS
KVA	KILOVOLT-AMPERE
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MT HT	NATIONAL ELECTRICAL CODE MOUNTING HEIGHT
NEG	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUF. ASSOC.
NEVA	NON-FUSED SAFETY SWITCH
NF	NON-FUSED SAFETY SWITCH
NFSS	NON-FUSED SAFETY SWITCH
NIC	NOT IN CONTRACT
NIS	NOT TO SCALE
PH or	PHASE
P	POLE
PML	PANEL
TYP	TYPICAL
V	VOLT
W	WIRE
WP	WEATHERPROOF

GENERAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF POLYCHLORINATED BI-PHENYL (PCB) TRANSFORMERS LIGHT BALLASTS, AND CAPACITORS. THE PCB-CONTAINING ITEMS SHALL BE TAKEN OUT OF SERVICE AND HANDLED IN ACCORDANCE WITH PROCEDURES OF THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AND THE DEPARTMENT OF TRANSPORTATION (DOT). SPECIAL HANDLING PROCEDURES FOR DISPOSAL OF THE ORIGINAL MANUFACTURER'S CONTINUATION SHEET (EPA FORM 8700-22A) SHALL BE RETURNED TO THE CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (CONTR. WHO WILL ANNOTATE THE PROJECT FILE AND TRANSMIT THE MANIFEST TO THE MEDICAL CENTERS GEIS COORDINATOR.

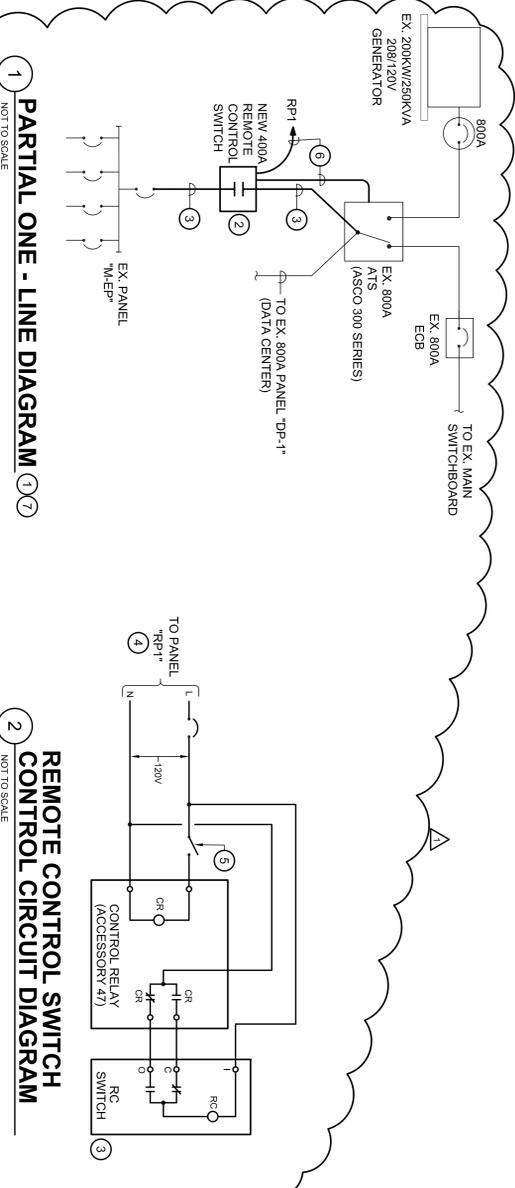
LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LENS/Louver	MOUNTING CODE	VOLTS	LAMP DATA	MANUFACTURER & CATALOG NO.	NOTES
A	2 X 4 PRISMATIC LINEAR FLUORESCENT FIXTURE WITH 18 CELLS.	PARABOLIC	CR	120	3 28	28W T8 # 2PM2N-G-B-3-32-18-LD-MVOLT-1-13-GE8105-L835E28	
AX	SAME AS TYPE 'A', EXCEPT WITH INTEGRAL EMERGENCY BATTERY PACK.	PARABOLIC	CR	120	3 28	28W T8 # 2PM2N-G-B-3-32-18-LD-MVOLT-1-13-GE8105-L835E28-EL14	
A1	2 X 4 PRISMATIC LINEAR FLUORESCENT FIXTURE WITH 18 CELLS AND DUAL BALLASTS.	PARABOLIC	CR	120	3 28	28W T8 # 2PM2N-G-B-3-32-18-LD-MVOLT-1-13-GE8105-L835E28	
A1X	SAME AS TYPE 'A1', EXCEPT WITH INTEGRAL EMERGENCY BATTERY PACK.	PARABOLIC	CR	120	3 28	28W T8 # 2PM2N-G-B-3-32-18-LD-MVOLT-1-13-GE8105-L835E28-EL14	
B	2 X 2 PRISMATIC LINEAR FLUORESCENT FIXTURE WITH 9 CELLS.	PARABOLIC	CR	120	2 31	31W T8 # 2PM2N-G-B-2-0316-9-MVOLT-LD-GE8105	
BX	SAME AS TYPE 'B', EXCEPT WITH INTEGRAL EMERGENCY BATTERY PACK.	PARABOLIC	CR	120	2 31	31W T8 # 2PM2N-G-B-2-0316-9-MVOLT-LD-GE8105-EL14	
C	4 LINEAR FLUORESCENT INDUSTRIAL FIXTURE.	-	CS & WS	28	28	28W T8 # L-2-32-MVOLT-1-GE8105-L835E28	
CX	SAME AS TYPE 'C', EXCEPT WITH INTEGRAL EMERGENCY BATTERY PACK.	-	CS & WS	28	28	28W T8 # L-2-32-MVOLT-1-GE8105-L835E28-EL	
DX	LINEAR FLUORESCENT FIXTURE WITH INTEGRAL EMERGENCY BATTERY PACK.	PRISMATIC	WS	28	28	28W T8 # WTR-2-32-MVOLT-1-GE8105-EL14	
X	EXIT SIGN.	UNV	UNV	-	-	LED # LDM-S-M-3-G-120/277-ELN	

MOUNTING:
 CS - CEILING, SUSPENDED, # FEET A.F.F.
 CR - CEILING, RECESSED, GYPSUM BD.
 WS - WALL MTD, SURFACE, # FEET A.F.F.
 WR - WALL, RECESSED, # FEET A.F.F.
 UNV - UNDER CABINET

LIGHTING FIXTURE NOTES:

- PROVIDE MOUNTING TYPES, DIRECTIONAL ARROWS AND FACE QUANTITIES (SINGLE / DOUBLE) AS INDICATED ON DRAWING.
- COORDINATE LETTERING COLOR OF THE EXIT SIGN WITH AUTHORITY HAVING JURISDICTION.
- SEE FLOOR PLAN FOR MOUNTING HEIGHTS OF FIXTURES MOUNTED TO WALL.



PARTIAL ONE - LINE DIAGRAM

DRAWING NOTES:

- INTENT OF WORK IS TO DISCONNECT EX. PANEL "M-EP" FROM THE GENERATOR WHEN THE ATS TRANSFERS FROM NORMAL TO EMERGENCY. UPON RETURN TO NORMAL EX. PANEL "M-EP" WILL BE RECONNECTED TO THE ATS. THIS ACTIVITY SHALL BE DONE AUTOMATICALLY THROUGH THE USE OF A REMOTE CONTROL SWITCH AND CONTROL CIRCUITRY. COORDINATE REQUIRED POWER OUTGERS WITH THE VA PRIOR TO START OF WORK.
- PROVIDE ASCO SERIES 911 REMOTE CONTROL SWITCH, OR APPROVED EQUAL. PROVIDE CATALOG NO. E917A3800C-KM-47. SWITCH SHALL BE 200/120V, 3PH, 4WIRE, 3POLE, 3POSITION (NORMAL, REMOTE, EMERGENCY). THE REMOTE CONTROL SWITCH SHALL BE 18" A.F.F. IN A NEMA 3R ENCLOSURE PROVIDED BY THE CONTRACTOR. LABEL PANEL WITH REMOTE CONTROL SWITCH - MOUNT TO FRONT OF SWITCH ENCLOSURE.
- INTERCEPT EX. PANEL "M-EP" FEEDER AND ROUTE THROUGH NEW REMOTE CONTROL SWITCH. MATCH EXISTING FEEDER SIZE AND QUANTITY (2 SETS OF #30 AWG).
- PROVIDE 1P-15A CIRCUIT BREAKER IN AVAILABLE SPACE. MATCH AIC OF EXISTING BREAKERS. PANEL "RPS1" IS LOCATED IN THE DATA CENTER ON THE SECOND FLOOR. ROUTE CONDUCTORS AS REQUIRED BASED ON FIELD CONDITIONS. REMOVE AND REPLACE CEILING TILES AS NEEDED. PROVIDE CORE DRILLS AND TRENCH / BACKFILL BETWEEN BUILDING AND GENERATOR ENCLOSURE.
- AUXILIARY CONTACTS WITHIN ATS. CONFIGURE CONTROL SUCH THAT REMOTE CONTROL SWITCH WILL OPEN WHEN ATS TRANSFERS FROM NORMAL TO EMERGENCY. REMOTE CONTROL SWITCH SHALL CLOSE WHEN ATS TRANSFERS BACK TO NORMAL FROM EMERGENCY.
- CONTROL CIRCUIT. SEE DIAGRAM ON THIS DRAWING. PROVIDE CONDUIT AND WIRE AS REQUIRED.
- UPON COMPLETION OF WORK, COORDINATE WITH THE VA TO TEST SYSTEM AND DEMONSTRATE PROPER OPERATION.

REMOTE CONTROL SWITCH CONTROL CIRCUIT DIAGRAM

Revisions

ADDENDUM NO.	DATE
1	08/22/13

Consultants
BUDDETTE KOEHLER MURPHY & ASSOCIATES, INC.
 1000 W. WASHINGTON AVENUE
 BALTIMORE, MARYLAND 21209
 410.523.0800 - FAX 410.577.2943

BUILDING COST CONSULTANTS
 1207 E. 30TH AVENUE
 PATTENSON, MARYLAND 21093
 403.286.8800 - FAX 403.286.8800

Scale:

POLT DESIGN GROUP
 ARCHITECTURE
 PLANNING
 ENGINEERING
 2215 Conowingo Road, Suite 101
 Bel Air, Maryland 21035-1436
 410.803.2141 fax 410.835.6811
 www.polt-design.com

Drawing Scale:	Drawing Title:
Drawing Start Date:	ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND LIGHTING FIXTURE SCHEDULE
Drawing Finish Date:	Approved: Associate Director for Operations:
Approved: Chief Facilities Engineer:	
Approved: Director, Medical Center:	

Project Title:	Date:
BUILDING 15 RENOVATION	07-12-2013
Building No.:	Project No.:
15	460-10-116
Checked: RAM	Drawn: BMG
Location: VAHQS MEDICAL CENTER WILMINGTON, DELAWARE	DRAWING NO.:
	15-E1
	DWS 39 OF 47



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