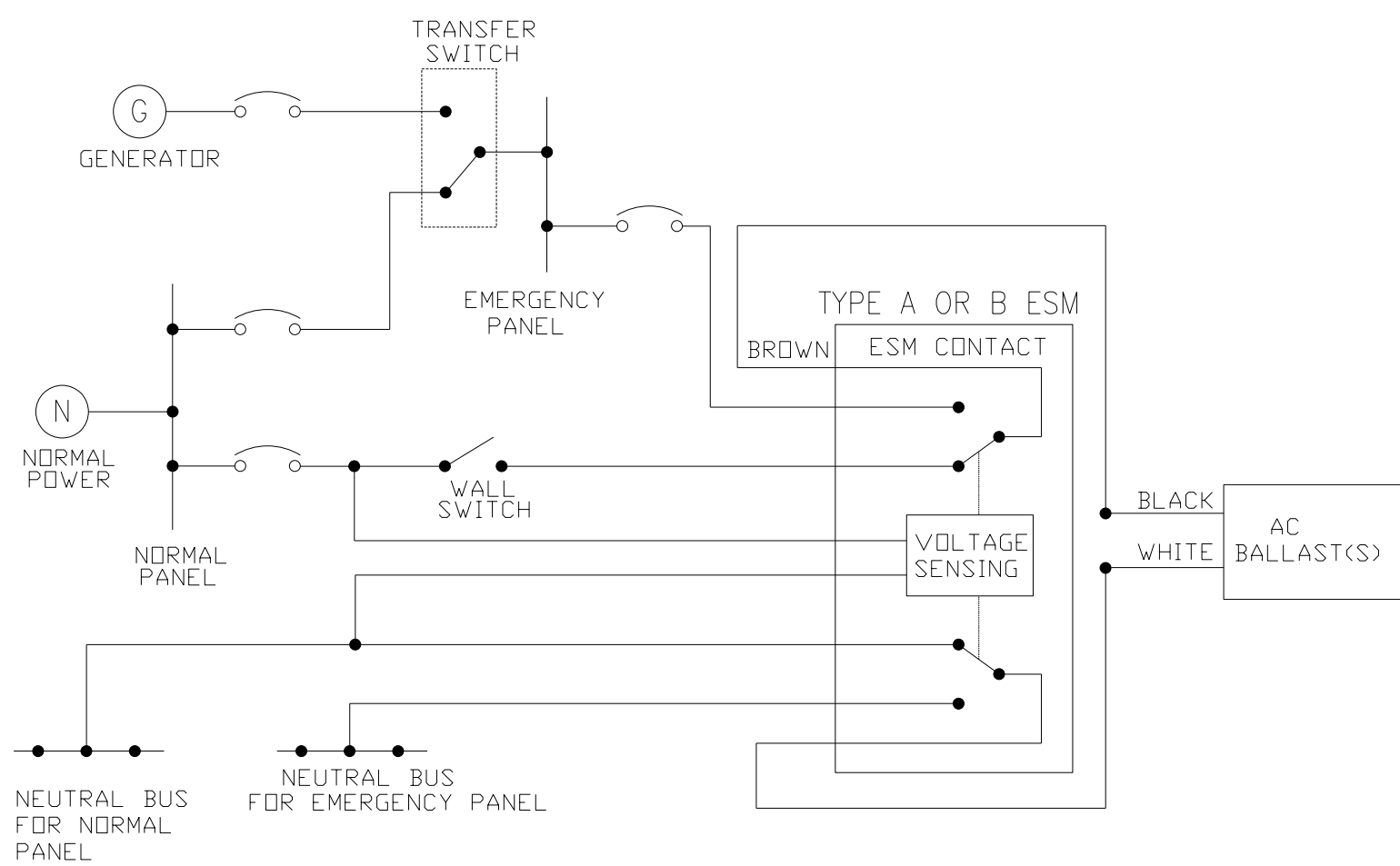


three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
one quarter inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
one eighth inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot

ABBREVIATIONS LIST

A	AMPERE	INCA	INCANDESCENT	UG	UNDERGROUND
AC	ALTERNATING CURRENT	I	ISOLATED GROUND	UH	UNIT HEATER
AFF	ABOVE FINISHED FLOOR	IC	INTERCOM	V	VOLT
AG	ABOVE FINISHED GRADE	IMC	INTERMEDIATE METAL CONDUIT	VR	VOLT-AMPERE
AFCI	ARC FAULT CIRCUIT INTERRUPTER	JB	JUNCTION BOX	VP	VAPORPROOF
AIC	AMPERES INTERRUPTING CAPACITY			W	WATT
AL	ALUMINUM	KAIC	THOUSAND AMPERE INTERRUPTING CAPACITY	WG	WIRE GUARD
ASYM	ASYMMETRICAL	KV	KILOVOLT	WP	WEATHERPROOF
ATS	AUTOMATIC TRANSFER SWITCH	KVA	KILOVOLT-AMPERE		
AWG	AMERICAN WIRE GAUGE	KW	KILOWATT	XFMR	TRANSFORMER
		K	KILO (THOUSAND)	XLP	CROSS LINKED POLYETHYLENE
BR	BRANCH	KCM	THOUSAND CIRCULAR MILS	XP	EXPLOSION PROOF
		KCMIL	THOUSAND CIRCULAR MILS	Y	WYE CONNECTED
C	CONDUIT	L	PILOT LIGHT		
CAB	CABINET	LTG	LIGHTING		
CB	CIRCUIT BREAKER	LV	LOW VOLTAGE		
CKT	CIRCUIT	M	MEGA (MILLION)		
CT	CURRENT TRANSFORMER	MATV	MASTER ANTENNA TELEVISION		
CU	COPPER	MFS	MAIN FUSED SWITCH		
CATV	CABLE TELEVISION	MCB	MAIN CIRCUIT BREAKER		
CCTV	CLOSED CIRCUIT TELEVISION	MCC	MOTOR CONTROL CENTER		
CLG	CEILING	MH	METAL HALIDE		
CONT	CONTROL PANEL	MLO	MAIN LUGS ONLY		
CP	CONTROL PANEL	MV	MEDIUM VOLTAGE		
DC	DIRECT CURRENT	MVA	MEGAVOLT-AMPERE		
Δ	DELTA CONNECTED	NEC	NATIONAL ELECTRICAL CODE		
DISC	DISCONNECT	NC	NORMALLY CLOSED		
DF	DRINKING FOUNTAIN	NO	NORMALLY OPEN		
DPST	DOUBLE POLE, SINGLE THROW	NL	NIGHT LIGHT		
DPDT	DOUBLE POLE, DOUBLE THROW	N	NEUTRAL		
		NF	NONUSED		
EC	ELECTRICAL CONTRACTOR	NIC	NOT IN CONTRACT		
EG	EQUIPMENT GROUND	NTS	NOT TO SCALE		
EM	EMERGENCY	OL	OVERLOAD		
EPR	ETHYLENE PROPYLENE RUBBER	OH	OVERHEAD		
EQUIP	EQUIPMENT	PB	PULL BOX		
ETR	EXISTING TO REMAIN	PF	POWER FACTOR		
ERL	EXISTING TO BE RELOCATED	PHL	PANEL		
EXIST	EXISTING	PT	POTENTIAL TRANSFORMER		
(E)	EXISTING	PVC	POLYVINYL CHLORIDE		
EXP	EXPLOSION PROOF	Ø	PHASE		
ELECT	ELECTRIC	PH	PILOT LIGHT		
EMT	ELECTRIC METALLIC TUBING	PP	POWER PANEL		
		PWR	POWER		
FC	FOOTCANDLE	RVNR	REDUCED VOLTAGE, NON-REVERSING		
FCAN	FULL CAPACITY ABOVE NORMAL	RM	ROOM		
FCBN	FULL CAPACITY BELOW NORMAL	RMS	ROOT MEAN SQUARED		
FLUOR	FLUORESCENT	SW	SWITCH		
FVNR	FULL VOLTAGE, NON-REVERSING	SWBD	SWITCHBOARD		
FVR	FULL VOLTAGE, REVERSING	SYM	SYMMETRICAL		
FA	FIRE ALARM	STR	STARTER		
FACP	FIRE ALARM CONTROL PANEL	TDR	TIME DELAY RELAY		
FARAP	FIRE ALARM REMOTE ANNUNCIATOR PANEL	TYP	TYPICAL		
FLA	FULL LOAD AMPERES	TCP	TEMPERATURE CONTROL PANEL		
		TSTAT	THERMOSTAT		
GEN	GENERATOR	TV	TELEVISION		
GF	GROUND FAULT				
GFI	GROUND FAULT CIRCUIT INTERRUPTER				
GND	GROUND				
GRS	GALVANIZED RIGID STEEL				
HOA	HAND-OFF-AUTOMATIC				
HP	HORSEPOWER				
HPS	HIGH PRESSURE SODIUM				
HV	HIGH VOLTAGE				
HZ	HERTZ				



GENERAL NOTES:

- A. ESM TRANSFER DEVICE BASED ON BODINE. ALTERNATE MANUFACTURERS WILL BE CONSIDERED IF EQUAL.

EMERGENCY (TYPE A OR B) SWITCHING MODULE WIRING DIAGRAM

NO SCALE

REVISIONS:	DATE:
#01 - ISSUED FOR BIDDING	07.MAR.2012
#02 - ADDENDUM #1	06.APR.2012

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STAMP

LUMINAIRE SCHEDULE						
TYPE	DESCRIPTION	BALLAST	LAMPS	VOLTAGE	DESIGN MAKE	ACCEPTABLE MANUFACTURERS
A	DECORATIVE ARCHITECTURAL MONOPOINT PENDANT, NOMINAL 5 INCH HIGH BY 3 INCH DIAMETER WITH STAINLESS STEEL CYLINDER HOUSING AND BRUSHED STAINLESS STEEL CANOPY AND PENDANT STEM	NA	(1) 50 WATT HALOGEN	120	LBL LIGHTING MINI-VOLO SERIES CUSTOM PAINTED	CONTECH LIGHTING APPROVED EQUAL
FA	2X4, 2-LAMP, RECESSED DIRECT/INDIRECT LUMINAIRE	ELECTRONIC: <10%THD (2) 1-LAMP 5 YEAR WARRANTY	(2) F32T8 3500K 5 YEAR WARRANTY	UNIVERSAL 120/277	LIGHTOLIER LIGHTING HP90 T8 SERIES	DAYBRITE LIGHTING COOPER METALUX LITHONIA LIGHTING HE WILLIAMS
FA I	SAME AS TYPE FA EXCEPT 2X2	ELECTRONIC: <10%THD (2) 1-LAMP 5 YEAR WARRANTY	(2) F17T8 3500K 5 YEAR WARRANTY	UNIVERSAL 120/277	LIGHTOLIER LIGHTING HP90 T8 SERIES	DAYBRITE LIGHTING COOPER METALUX LITHONIA LIGHTING HE WILLIAMS
FB	2X4, 2-LAMP, RECESSED DIRECT/INDIRECT LUMINAIRE WITH PERFORATED CENTER LAMP SHIELD WITH CENTER REVEAL	ELECTRONIC: <10%THD (1) 2-LAMP 5 YEAR WARRANTY	(2) F32T8 3500K 5 YEAR WARRANTY	UNIVERSAL 120/277	LIGHTOLIER LIGHTING ALTER CLASSIC QVS SERIES	COOPER LIGHTING DAY-BRITE LIGHTING LITHONIA LIGHTING
FC	2X2, 2-LAMP, RECESSED DIRECT/INDIRECT LUMINAIRE WITH WHITE TRANSLUCENT ACRYLIC LENS AND 10 INCH SQUARE PERFORATED MESH STEEL CENTER PANEL	ELECTRONIC: <10%THD (1) 2-LAMP 5 YEAR WARRANTY	(2) F17T8 3500K 5 YEAR WARRANTY	UNIVERSAL 120/277	LIGHTOLIER LIGHTING ALTER CLASSIC QVS SERIES	COOPER LIGHTING DAY-BRITE LIGHTING LITHONIA LIGHTING LIGHTOLIER LIGHTING
FD	6 INCH DIAMETER OPEN DOWNLIGHT, SPECULAR CLEAR REFLECTOR WITH MATCHING TRIM RING, FIXTURE SUITABLE FOR INSTALLATION IN GRID AND/OR DRYWALL CEILING, REFERENCE ARCH RCP FOR TYPES	NA	(1) 23W MED. BASE CFL TWISTER DIMMABLE	120	LIGHTOLIER LIGHTING CALCULITE B600 SERIES WITH B7054 TRIM	OMEGA LIGHTING COOPER HALO LITHONIA LIGHTING HE WILLIAMS
FE	2X4, 2-LAMP, RECESSED LUMINAIRE MINIMUM 4" DEEP, WHITE REGRESSED ALUMINUM DOOR FRAME WITH 0.156" THICK PATTERN 19 ACRYLIC LENS AND SPRING LOADED LATCH, BAKED WHITE ENAMEL HOUSING FINISH, PAINT AFTER FABRICATION.	ELECTRONIC: <10%THD 2-LAMP 5 YEAR WARRANTY	(2) F32T8 3500K 5 YEAR WARRANTY	UNIVERSAL 120/277	LIGHTOLIER LIGHTING SPECPLUS SERIES	DAYBRITE LIGHTING COOPER METALUX LITHONIA LIGHTING HE WILLIAMS
FEI	SAME AS TYPE FE EXCEPT 2X2	ELECTRONIC: <10%THD 2-LAMP 5 YEAR WARRANTY	(2) F17T8 3500K 5 YEAR WARRANTY	UNIVERSAL 120/277	LIGHTOLIER LIGHTING SPECPLUS SERIES	DAYBRITE LIGHTING COOPER METALUX LITHONIA LIGHTING HE WILLIAMS
FF	4-FT, 2-LAMP INDUSTRIAL PENDANT WITH HEAVY GAUGE STEEL HOUSING, MULTI-STAGE PHOSPHATE BONDING FINISH BAKED WHITE ENAMEL PAINT AFTER FABRICATION, TURKET STYLE LAMP HOLDERS, RIGID STEM & CANOPY, WELDED WIRE GUARD.	ELECTRONIC: 2-LAMP 5 YEAR WARRANTY	(2) F32T8 3500K 5 YEAR WARRANTY	UNIVERSAL 120/277	LIGHTOLIER LIGHTING TU TURRET INDUSTRIAL	DAYBRITE LIGHTING COOPER METALUX LITHONIA LIGHTING HE WILLIAMS
FG	2X4, 3-LAMP, RECESSED DIRECT/INDIRECT LUMINAIRE WITH CENTER LINEAR ACRYLIC LENS LAMP SHIELD	ELECTRONIC: <10%THD (1) 2-LAMP (1) 1-LAMP 5 YEAR WARRANTY	(3) F32T8 3500K 5 YEAR WARRANTY	UNIVERSAL 120/277	LIGHTOLIER LIGHTING ALETTA PANEL SHIELD	DAYBRITE LIGHTING COOPER METALUX LITHONIA LIGHTING HE WILLIAMS
XA	LED EXIT SIGN, UV-STABLE THERMOPLASTIC HOUSING, FINISHED WHITE, UNIVERSAL SINGLE/ DOUBLE FACE, END/CLG/WALL MOUNTING, RED LETTERING W/SNAP-IN CHEVRON ARROWS		25-YEAR LED	UNIVERSAL 120/277	LIGHTOLIER LIGHTING LT SERIES	CORNERSTONE FAIL-SAFE LITHONIA LIGHTING MCPHILBEN

NOTES:

- APPROVED EQUALS MUST BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW & APPROVAL PRIOR TO BID. POST BID EQUIVALENTS WILL NOT BE ACCEPTED.
- STEEL HOUSING CONSTRUCTION FOR EACH INTERIOR LUMINAIRE SPECIFIED SHALL BE OF ONE-PIECE CODE GAUGE COLD-ROLLED STEEL.
- ALUMINUM HOUSING CONSTRUCTION FOR EACH INTERIOR LUMINAIRE SPECIFIED SHALL BE OF ONE-PIECE EXTRUDED ALUMINUM.
- OPTIONAL "PAINT AFTER FABRICATION" FOR HOUSING/REFLECTOR FINISHES SHALL BE PROVIDED FOR EACH LUMINAIRE SPECIFIED.
- CONTRACTOR SHALL VERIFY CEILING CONSTRUCTION TYPES & REQUIRED LUMINAIRE INSTALLATION KITS. REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS.

ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

EQUIPMENT							SUPPLY				CONTROLS					
ITEM NO.	NAME	ROOM LOCATION	HP	KW	Φ	VOLTS	PANEL OR CONTROL CENTER	CIRCUIT BREAKER	WIRING FROM PANEL TO CONTROL UNIT	WIRING FROM CONTROL UNIT TO EQUIPMENT	DISCONNECT SWITCH		MOTOR STARTER / CONTROLLER NOTES	CONTROLLER LOCATION	NEMA RATING	NOTES
											SWITCH AMPS	FUSE SIZE				
1	AHU-1	MECH RM 326D		22	3	208	3-197-1	70A/3P	{3} #2:#8EG; IN1-1/2" C.	{3} #2:#8EG; IN1-1/2" C.	100A/3P	NF	10, 14	AU	1	
2	H-1	MECH RM 326D		28	3	208		100A/3P	REUSE EXISTING PANELBOARD FEEDER FOR 3-181	{3} #2:#8EG; IN1-1/2" C.	100A/3P	NF	10	AU	1	

MOTOR STARTER/CONTROLLER NOTES:

- MOTOR RATED SWITCH
- MANUAL MOTOR STARTER
- MANUAL MOTOR STARTER WITH RELAY
- MAGNETIC STARTER
- COMBINATION MAGNETIC STARTER
- VARIABLE FREQUENCY DRIVE
- COMBINATION TWO SPEED MAGNETIC STARTER
- COMBINATION REDUCED VOLTAGE MAGNETIC STARTER
- DUPLEX CONTROLLER WITH ALTERNATION CIRCUIT
- PACKAGED CONTROL UNIT
- H-O-A SELECTOR SWITCH IN COVER
- PILOT LIGHT IN COVER
- REMOTE START-STOP PUSHBUTTONS
- FIRE ALARM FAN SHUTDOWN
- LINE-VOLTAGE THERMOSTAT

NOTES:

GENERAL NOTES:

- A. ALL DEVICES PROVIDED BY THE DIVISION 16 CONTRACTOR.  
B. ITEM NUMBER INDICATES EQUIPMENT NUMBER.  
C. ALL CONTROL DEVICES ARE TO BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.  
D. PROVIDE OVERLOADS, SIZE AS REQUIRED BY DIVISION 15 CONTRACTOR.  
E. "AU" INDICATES CONTROL DEVICE LOCATED AT UNIT.  
F. "NF" INDICATES NON-FUSED.

CARDIOLOGY MANAGER	DATE	ENGINEERING MANAGER	DATE
INFECTION CONTROL	DATE	CARELINE MANAGER	DATE
SAFETY OFFICER	DATE	CHIEF OF STAFF	DATE

Drawing Title: <b>SCHEDULES AND SYMBOLS LIST</b>	
MEDICAL CENTER DIRECTOR	DATE
ASSOCIATE MEDICAL CENTER DIRECTOR	DATE

Project Title: <b>VAMC PHYSICAL THERAPY RENOVATIONS</b>		
Building Number: 1	Checked: DMG	Drawn: DMG
Location: V.A.M.C. BUFFALO, NEW YORK		

Date: 14.JAN.2011
Station Number: 628
Sheet: <b>10-107-E600</b>

