

SYMBOLS SCHEDULE											
LIGHT FIXTURES		S _K WP	SINGLE-POLE TOGGLE SWITCH – KEY OPERATED AND WEATHERPROOF TYPE	NURSE CALL		cd	CANDELA	MATV	MASTER ANTENNA TELEVISION SYSTEM	TPS	TWISTED SHIELDED
SYMBOL	DESCRIPTION		MULTI-LEVEL SWITCHING: Sa – SWITCHES 2 OUTER LAMPS Sb – SWITCHES INNER LAMP(S)	SYMBOL	DESCRIPTION	CLF	CURRENT LIMITING FUSE	MC	METAL–CLAD	TTB	TELEPHONE TERMINAL BOARD
	FLUORESCENT LIGHT FIXTURE – CEILING MOUNTED	S _{CS}			NURSE CALL PULL STATION	CMU	CONCRETE MASONRY UNIT	MCA	MINIMUM CIRCUIT AMPS	TV	TELEVISION
	FLUORESCENT LIGHT FIXTURE CONNECTED TO EMERGENCY POWER SOURCE	S _I	DIGITAL TIMER SWITCH – HUBBELL #TD200 OR APPROVED EQUAL		NURSE CALL LIGHT – CEILING MOUNTED	COAX	COAX CABLE	MCB	MAIN CIRCUIT BREAKER	TYP	TYPICAL
	FLUORESCENT STRIP LIGHT – CEILING MOUNTED OR CHAIN HUNG	S _{LV}	LOW VOLTAGE SWITCH (AS NOTED ON PLANS)		NURSE CALL LIGHT – WALL MOUNTED	CPT	CONTROL POWER TRANSFORMER	MCC	MOTOR CONTROL CENTER	UG	UNDERGROUND
	FLUORESCENT STRIP LIGHT CONNECTED TO EMERGENCY POWER SOURCE		DUPLEX RECEPTACLE		NURSE CALL DUTY STATION	CRI	COLOR RENDERING INDEX	MDP	MAIN DISTRIBUTION PANEL	UGE	UNDERGROUND ELECTRIC
	FLUORESCENT STRIP LIGHT – WALL MOUNTED		QUADRAPLEX RECEPTACLE		EMERGENCY NURSE CALL	CT	CURRENT TRANSFORMER	MH	MANHOLE	UL	UNDERWRITERS LABORATORY
	FLUORESCENT LIGHT FIXTURE – WALL MOUNTED		DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP – VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS		NURSE CALL STAFF STATION	CU	COPPER	MD	MOTION INTRUSION DETECTION	UON	UNLESS OTHERWISE NOTED
	POLE MOUNTED AREA LIGHTING		DUPLEX RECEPTACLE – GROUND FAULT INTERRUPTING, SURGE PROTECTION, & WEATHERPROOF TYPES INDICATED			DISC	DISCONNECT	MIN	MINIMUM	UPS	UNINTERRUPTABLE POWER SUPPLY
	INCANDESCENT, FLUORESCENT, OR HID DOWNLIGHT FIXTURE – CEILING MOUNTED		RED DUPLEX RECEPTACLE CONNECTED TO EMERGENCY POWER SOURCE	SECURITY		DC	DIRECT CURRENT	MOCP	MAXIMUM OVERCURRENT PROTECTION	V	VOLT
	INCANDESCENT, FLUORESCENT, LED, OR HID DOWNLIGHT FIXTURE – CEILING MOUNTED – CONNECTED TO EMERGENCY POWER SOURCE		RED QUADRAPLEX RECEPTACLE CONNECTED TO EMERGENCY POWER SOURCE	SYMBOL	DESCRIPTION	DPDT	DOUBLE POLE, DOUBLE THROW	MLO	MAIN LUGS ONLY	VA	VOLT AMPERE
	INCANDESCENT, FLUORESCENT, OR HID LIGHT FIXTURE – WALL MOUNTED		ISOLATED GROUND TYPE DUPLEX RECEPTACLE		CARD READER	DPST	DOUBLE POLE, SINGLE THROW	MTD	MOUNTED	VAR	VOLT AMPERE REACTIVE
	EMERGENCY LIGHT FIXTURE		DUPLEX RECEPTACLE IN FLUSH MTD CAST FLOOR OR CEILING BOX		MAGNETIC DOOR LOCK	EG	EQUIPMENT GROUND	MTG	MOUNTING	VFD	VARIABLE FREQUENCY DRIVE
	EXIT LIGHTS – WALL MT. & CEILING MT. SHOWN – SHADING INDICATES FACE(S). DIRECTIONAL ARROWS SHALL BE AS SHOWN ON PLANS		SPECIAL PURPOSE OUTLET – NEMA CONFIGURATION (VOLTAGE, AMPACITY) AS NOTED ON DRAWINGS		EGRESS BUTTON (TO RELEASE MAGNETIC DOOR LOCK)	EMI	ELECTROMAGNETIC INTERFERENCE	MTS	MANUAL TRANSFER SWITCH	W	WATT
			CLOCK OUTLET		EMERGENCY EGRESS BUTTON (DISCONNECTS POWER TO MAGNETIC DOOR LOCK)	EMT	ELECTRICAL METALLIC TUBING	MV	MEDIUM VOLTAGE	WH	WATER HEATER
LIGHTING CONTROLS			CLOCK AND CLOCK OUTLET		PANIC/DURESS BUTTON	EP	EXPLOSION PROOF	MVA	MEGAVOLT–AMPERE	WP	WEATHERPROOF
SYMBOL	DESCRIPTION		EMPTY OUTLET BOX WITH BLANK COVERPLATE – NUMBER INDICATES NUMBER OF GANGS		INTRUSION DETECTION SYSTEM MOTION SENSOR (CEILING OR WALL MOUNTED AS INDICATED)	EPO	EMERGENCY POWER OFF	MW	MEGAWATTS	YMR	TRANSFORMER
S _{OC}	OCCUPANCY SENSOR SWITCH – HUBBELL #LHMTHL OR APPROVED EQUAL				CCTV CAMERA (FIXED)	EW	ELECTRIC WATER COOLER	NA	NOT APPLICABLE	NOTE: 1. NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT. 2. SYMBOLS SHOWN DASHED ON PLANS INDICATES EXISTING DEVICES, FIXTURES, EQUIPMENT, ETC., UNLESS SPECIFICALLY NOTED OTHERWISE.	
	OCCUPANCY SENSOR – SUBSCRIPT DENOTES TYPE				CCTV CAMERA (PAN–TILT–ZOOM)	EW	ELECTRIC WATER HEATER	NC	NORMALLY CLOSED		
	POWER PACK FOR OCCUPANCY SENSOR(S)	DATA / TELECOMM		INTERCOM / SOUND SYSTEM		FAAP	FIRE ALARM ANNUNCIATOR PANEL	NEC	NATIONAL ELECTRICAL CODE	GENERAL NOTES 1. ALL WORK SHALL COMPLY WITH THE 2011 EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.). 2. THE SPECIFICATIONS ARE AS BINDING ON THE CONTRACTOR AS THE DRAWINGS. THE CONTRACTOR SHALL READ THE SPECIFICATIONS AND SHALL INCLUDE ALL ITEMS REQUIRED BY THE SPECIFICATIONS BEFORE SUBMITTING A BID. 3. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER, EXCEPT WHERE FLEXIBILITY IS REQUIRED, AND ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER USING BOLTED LUGS AT TERMINALS UNLESS OTHERWISE NOTED. 4. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED. ALL CONDUIT IN OR BELOW FLOOR SLABS AND BELOW GRADE SHALL BE 1" MINIMUM UNLESS OTHERWISE NOTED. 5. EACH CIRCUIT SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR, AND MULTI–WIRE CIRCUITS OF DIFFERENT PHASES MAY SHARE THE EQUIPMENT GROUND. EQUIPMENT GROUND CONDUCTOR SIZE SHALL NOT BE LESS THAN #12 AWG OR AS INDICATED ON THE DRAWINGS. 6. ALL ELECTRICAL EQUIPMENT (CONDUIT, BOXES, SUPPORTS, ETC.) INSTALLED IN EXPOSED CEILING AREAS SHALL BE PAINTED AS DIRECTED BY THE ARCHITECT. 7. VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT, INCLUDING THERMOSTATS, WITH MECHANICAL CONTRACTOR. 8. VERIFY EXACT LOCATION OF ALL FLOOR BOXES WITH ARCHITECT PRIOR TO ROUGH–IN AND FLOOR SLAB POUR. 9. THE ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE WITH MECHANICAL & PLUMBING CONTRACTORS FOR EXACT LOCATION OF HVAC & PLUMBING EQUIPMENT. 10. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF ALL MOTOR OVERLOAD DEVICES (HEATERS) IN STARTERS BASED ON ACTUAL NAMEPLATE RATINGS ON THE MOTORS BEING INSTALLED PER N.E.C. 430.6(A)(2). 11. ALL LOW VOLTAGE INTERLOCKING OF HVAC EQUIPMENT SHALL BE BY THE CONTROLS CONTRACTOR. ALL "LINE VOLTAGE" CONTROLS SHALL BE BY THE ELECTRICAL CONTRACTOR AND SHALL BE IN CONDUIT. 12. PROVIDE ENGRAVED NAMEPLATES ON ALL OF THE FOLLOWING EQUIPMENT: 12.1. PANELBOARDS, DISCONNECT SWITCHES, MANUAL & AUTOMATIC STARTERS, COMBINATION STARTER/DISCONNECTS, TRANSFORMERS 12.2. REFER TO SECTION 16195 OF THE ELECTRICAL SPECIFICATIONS. 13. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED SWITCHGEAR, PANELBOARDS, AND TRANSFORMERS. CONCRETE HOUSEKEEPING PADS SHALL EXTEND A MINIMUM OF 6" BEYOND THE FOOTPRINT OF THE EQUIPMENT ON ALL FOUR (4) SIDES. EXACT DIMENSIONAL REQUIREMENTS OF ALL PADS MUST BE CHECKED AGAINST APPROVED SHOP DRAWINGS OF THE EQUIPMENT.	
	DAYLIGHT HARVESTING PHOTOSENSOR	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	FACP	FIRE ALARM CONTROL PANEL	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION		
			TELEPHONE OUTLET – NUMBER INDICATES QUANTITY OF JACKS – NO NUMBER EQUALS ONE JACK		SPEAKER	FC	FOOTCANDLE	NEUT or N	NEUTRAL		
			TELEPHONE OUTLET – WALL MOUNTED @ 48" A.F.F. U.O.N.		VOLUME CONTROL	FLA	FULL LOAD AMPS	NFDS	NON–FUSED DISCONNECT SWITCH		
			TELEPHONE OUTLET– MOUNTED ABOVE COUNTER TOP – VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS		INTERCOM OUTLET	FLEX	FLEXIBLE METALLIC CONDUIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
			PUBLIC TELEPHONE OUTLET MOUNTED 48" A.F.F.			FNR	FULL VOLTAGE NON–REVERSING	NIC	NOT IN CONTRACT		
GEAR			COMPUTER DATA OUTLET – NUMBER INDICATES QUANTITY OF JACKS – NO NUMBER EQUALS ONE JACK	MISCELLANEOUS		FVR	FULLVOLTAGE REVERSING	NL	NIGHT LIGHT		
SYMBOL	DESCRIPTION		COMBINATION DATA/COMMUNICATIONS OUTLET (1) VOICE JACK (2) DATA JACKS	SYMBOL	DESCRIPTION	G or GRD	GROUND	NO	NORMALLY OPEN		
	MOTOR STARTER		COMBINATION DATA/COMMUNICATIONS OUTLET – ALPHANUMERIC NOTATION INDICATES JACK TYPE & COUNT, i.e., (3) DATA JACKS – (1) VOICE JACK		JUNCTION BOX – PURPOSE & LOCATION AS NOTED	GEN	GENERATOR	NTS	NOT TO SCALE		
	COMBINATION MOTOR STARTER / DISCONNECT SWITCH		COMPUTER OUTLET – FLUSH MOUNTED IN FLOOR SLAB		EMERGENCY POWER OFF STATION (REMOTE SHUNT TRIP) – REFER TO "POWER RISER DIAGRAM"	GFI	GROUND FAULT INTERRUPTER	OC	ON CENTER		
	DISCONNECT SWITCH				THERMOSTAT – E.C. TO FURNISH & INSTALL BACKBOX & 1/2" CONDUIT TO ABOVE ACCESSIBLE CEILING & TERMINATE	GFI	GROUND FAULT CIRCUIT INTERRUPTER	OD	OUTSIDE DIAMETER		
	TRANSFORMER				PUSHBUTTON STATION (DETAILS AS NOTED ON PLANS)	HID	HIGH INTENSITY DISCHARGE	OHE	OVERHEAD ELECTRIC		
	CONTACTOR				MUSHROOM HEAD PUSHBUTTON	HOA	HAND–OFF–AUTOMATIC	PA	PUBLIC ADDRESS		
	SURFACE MOUNTED PANELBOARD				PROGRAM BELL	HP	HORSEPOWER	PBPU	PREFABRICATED BEDSIDE PATIENT UNIT		
	FLUSH MOUNTED PANELBOARD				POKE–THRU FLOOR BOX – TYPE AS NOTED ON DRAWINGS OR AS SPECIFIED IN DIVISION 16	HT	HEIGHT	PEC	PHOTOELECTRIC CELL		
CIRCUITRY		FIRE ALARM			VIDEO OUTLET	HT	HERTZ	PF	POWER FACTOR		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		TELEVISION OUTLET	HZ	HERTZ	PH	PHASE		
	BRANCH CIRCUIT IN CONDUIT – SWITCH LEG, PHASE LEG, NEUTRAL, ISOLATED GROUND, AND EQUIPMENT GROUND INDICATED		FIRE ALARM AUDIO/VISUAL DEVICE – NUMBER INDICATES INDICATES MINIMUM CANDELA RATING OF STROBE		TIME CLOCK	IG	ISOLATED GROUNDING <td>PNL</td> <th>PANELBOARD</th>	PNL	PANELBOARD		
	CIT		FIRE ALARM STROBE ONLY – NUMBER INDICATES MINIMUM CANDELA RATING OF STROBE		TERMINAL BOARD – PLYWOOD BACKBOARD AS NOTED ON PLANS	IMC	INTERMEDIATE METAL CONDUIT <td>PT</td> <th>POTENTIAL TRANSFORMER</th>	PT	POTENTIAL TRANSFORMER		
	CONDUIT CONCEALED IN OR BELOW FLOOR SLAB OR BELOW GRADE		FIRE ALARM PULL STATION		TEMPERATURE CONTROL PANEL (BY OTHERS)	IR	INFRARED	PVC	POLYVINYL CHLORIDE		
	EXISTING CONDUIT		HEAT DETECTOR		REMOTE MOUNTED BALLAST	IWH	INSTANTANEOUS WATER HEATER <td>ROP</td> <th>REFLECTED CEILING PLAN</th>	ROP	REFLECTED CEILING PLAN		
	FLEXIBLE CONDUIT		SMOKE DETECTOR			JB or J-BOX	JUNCTION BOX <td>RGSC</td> <th>RIGID GALVANIZED STEEL CONDUIT</th>	RGSC	RIGID GALVANIZED STEEL CONDUIT		
	EMERGENCY CIRCUIT(S) (SHOWN WITH NON–ARCHED LINES)		DUCT MOUNTED SMOKE DETECTOR	ABBREVIATIONS		KV	KILOVOLT <td>RMS</td> <th>ROOT MEAN SQUARE</th>	RMS	ROOT MEAN SQUARE		
			DUCT MTD SMOKE DETECTOR REMOTE TEST STATION	AC	ABOVE COUNTER	KVA	KILOVOLT AMPERE <td>SCC</td> <th>SHORT CIRCUIT CAPACITY</th>	SCC	SHORT CIRCUIT CAPACITY		
WIRING DEVICES			FLOW SWITCH (FURNISHED BY DIVISION 15)	AFF	ABOVE FINISH FLOOR	KVAH	KILOVOLT AMPERE PER HOUR <td>SDBC</td> <th>SOFT–DRAWN BARE COPPER</th>	SDBC	SOFT–DRAWN BARE COPPER		
SYMBOL	DESCRIPTION		TAMPER SWITCH (FURNISHED BY DIVISION 15)	AFG	ABOVE FINISH GRADE	KVAR	KILOVOLT AMPERE REACTIVE <td>SES</td> <th>SERVICE ENTRANCE SECTION</th>	SES	SERVICE ENTRANCE SECTION		
S	SINGLE–POLE TOGGLE SWITCH		ZONE ADDRESSABLE MODULE – CONTROL TYPE	AIC	AMPERE INTERRUPTING CAPACITY	KW	KILOWATT <td>SF</td> <th>SQUARE FOOT (FEET)</th>	SF	SQUARE FOOT (FEET)		
S ₂	TWO–POLE TOGGLE SWITCH		ZONE ADDRESSABLE MODULE – MONITOR TYPE	ATS	AUTOMATIC TRANSFER SWITCH	KWH	KILOWATT HOUR <td>SP</td> <th>SURGE PROTECTION</th>	SP	SURGE PROTECTION		
S ₃	THREE–WAY TOGGLE SWITCH		ZONE ADDRESSABLE MODULE – SIGNAL TYPE	AV	AUDIO VISUAL	KWHM	KILOWATT HOUR METER <td>SPST</td> <th>SINGLE POLE, SINGLE THROW</th>	SPST	SINGLE POLE, SINGLE THROW		
S ₄	FOUR–WAY TOGGLE SWITCH		INDIVIDUAL ADDRESSABLE MODULE	BFC	BELOW FINISH CEILING	LED	LIGHT EMITTING DIODE	SWBD	SWITCHBOARD		
S _D	DIMMER CONTROL SWITCH OR STATION (AS SPECIFIED ON PLANS AND/OR RISER)		FIRE ALARM SPEAKER ONLY	BFF	BELOW FINISH FLOOR	LF	LINEAR FEET (FOOT)	SWGR	SWITCHGEAR		
S _W	MANUAL MOTOR STARTER WITH OVERLOADS, TOGGLE OPERATED		"AREA OF RESCUE" EMERGENCY LIGHT	BIL	BASIC INSULATION LEVEL	LPS	LOW PRESSURE SODIUM	TC	TIME CLOCK		
S _K	SINGLE–POLE TOGGLE SWITCH – KEY OPERATED		"AREA OF RESCUE" 2–WAY COMMUNICATION STATION	C	CONDUIT	LRA	LOCKED ROTOR AMPS <td>TGB</td> <th>TELECOMMUNICATIONS GROUND BAR</th>	TGB	TELECOMMUNICATIONS GROUND BAR		
S _{IC}	SINGLE–POLE TOGGLE SWITCH – INTERCHANGEABLE LINE		DOOR HOLDER (FURNISHED BY DIVISION 8)	CATV	COMMUNITY ANTENNA TELEVISION	LTHG	LIGHTNING	TGCB	TELECOMMUNICATIONS MAIN GROUND BAR		
S _S ^{IC}	THREE–WAY TOGGLE SWITCH – INTERCHANGEABLE LINE			CCTV	CLOSED CIRCUIT TELEVISION	LV	LOW VOLTAGE <td>TP</td> <th>TWISTED PAIR</th>	TP	TWISTED PAIR		

REVISIONS	DESCRIPTION	DATE



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APPROVED: Safety Manager	APPROVED: Medical Center Director
APPROVED: Infection Control Nurse	APPROVED: Associate Director
APPROVED: Industrial Hygienist	APPROVED: Chief of Staff
APPROVED: President A.F.G.E. 2250	APPROVED: Chief of Engineering Service

DRAWING TITLE	PROJECT TITLE	DATE
ELECTRICAL SCHEDULES	REPLACE LABORATORY AIR HANDLING UNITS	8/19/2013
PROJECT NO. 623–11–107	CONTRACT NO. VA256–12–C–0295	SCALE AS SHOWN
BUILDING NO. CLINICAL	AUTOCAD FILE NAME:	DRAWING NO. G13.0
	LOCATION Jack C. Montgomery VA Medical Center	DWG. 3 OF 40

DESIGNED BY: TGB	DRAWN BY: TGB	CHECKED BY: SRC

The seal appearing on this document was
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DEPARTMENT OF
VETERANS AFFAIRS