

P:\LEB1201\1.c\m\Lebanon - Entrance\ACTIVE-DWG\SS1.E-001.dwg, 3/21/2014 10:45:21 AM, DWG, To: RDE, pc3

three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

four quarters inch = one foot

four quarters inch = one foot

four quarters inch = one foot

four quarters inch = one foot

LEGEND

FIRE ALARM

- [F] FIRE ALARM PULL STATION. MOUNTED 48" AFF TO CENTERLINE OF STATION.
- 15 [F] AUDIO/VISUAL ALARM. COMBINATION SPEAKER WITH ADJUSTABLE CANDELA STROBE LIGHT. WALL MOUNTED 90" AFF TO TOP. CEILING MOUNT WHERE INDICATED. NUMBER INDICATES CANDELA RATING OF STROBE. 'WP' INDICATES WEATHERPROOF UNIT.
- 15 [F] VISUAL ALARM. ADJUSTABLE CANDELA STROBE LIGHT. WALL MOUNTED 90" AFF TO TOP. CEILING MOUNT WHERE INDICATED. NUMBER INDICATES CANDELA RATING OF STROBE. REFER TO SPECIAL REQUIREMENTS IN SLEEPING AREAS. NS INDICATES NON-SUPERVISED 120 VOLT REMOTE VISUAL SIGNAL, 177 CANDELA, CONNECTED TO NON-SUPERVISED SMOKE DETECTOR.
- [S] PHOTOELECTRIC SMOKE DETECTOR WITH ADDRESSABLE BASE. CEILING MOUNTED.
- [D] DUCT MOUNTED SMOKE DETECTOR WITH REMOTE TEST AND RESET STATION. FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR.  
'S' INDICATES LOCATED IN SUPPLY AIR DUCT  
'R' INDICATES LOCATED IN RETURN AIR DUCT
- [TS] REMOTE TEST STATION WITH RESET FOR DUCT SMOKE DETECTOR
- [DH] DOOR HOLDER
- [FACP] FIRE ALARM CONTROL PANEL
- NUE— UNDERGROUND WIRING  
'NUE' INDICATES NEW UNDERGROUND FIRE ALARM WIRING

COMMUNICATIONS

- ▼ TEL/DATA OUTLET MOUNTED 18" AFF OR AS OTHERWISE NOTED. INDICATED TWO (2) DATA AND TWO (2) VOICE.
- ▽ VOICE ONLY OUTLET MOUNTED 48" AFF OR AS OTHERWISE NOTED. INDICATES TWO (2) VOICE PORTS.
- ▼ DATA ONLY OUTLET MOUNTED 18" AFF OR AS OTHERWISE NOTED. INDICATES THREE (3) DATA PORTS.
- [TV] CATV OUTLET MOUNTED AS NOTED. HOMERUN COAX CABLE TO VA SELECTED SOURCE.
- [WAP] WIRELESS ACCESS POINT. PROVIDE (1) DATA OUTLET FOR ANTENNA AT ACCESSIBLE LOCATION ABOVE CEILING. PROVIDE (1) LEVEL 6 CABLE BACK TO RACK MOUNTED PATCH PANEL. PROVIDE DUPLEX RECEPTACLE AND CONNECT TO BRANCH CIRCUIT AS INDICATED ON FLOOR PLANS.
- [S] CEILING MOUNTED PUBLIC ADDRESS SYSTEM SPEAKER.

LIGHTING

- N/L [B] FLUORESCENT LUMINAIRE (LIGHTING FIXTURE) SURFACE OR RECESSED MOUNTED  
DIAGONAL HATCH INDICATES EMERGENCY CIRCUIT  
'N/L' INDICATES 24 HOUR NIGHT LIGHT CIRCUIT  
UPPERCASE LETTER INDICATES TYPE (TYPICAL)
- C [N/L] [G] WALL MOUNTED LUMINAIRE  
DIAGONAL HATCH INDICATES EMERGENCY CIRCUIT  
'N/L' INDICATES 24 HOUR NIGHT LIGHT CIRCUIT  
UPPERCASE LETTER INDICATES TYPE (TYPICAL)
- N/L [H] SURFACE ROUND LUMINAIRE OR RECESSED DOWNLIGHT  
DIAGONAL HATCH INDICATES EMERGENCY CIRCUIT  
'N/L' INDICATES 24 HOUR NIGHT LIGHT CIRCUIT  
UPPERCASE LETTER INDICATES TYPE (TYPICAL)
- X1 [E] EXIT SIGN — DIRECTIONAL ARROWS AS INDICATED.  
CEILING OR WALL MOUNT AT 7'-6" AFF TO CENTER OR ABOVE DOOR. HATCH INDICATES DIRECTION AND NUMBER OF FACES.
- [H] PHOTOELECTRIC CONTROL
- [S] SWITCH MOUNTED 48" AFF UNLESS NOTED OTHERWISE
- [a] 'a' INDICATES SWITCH CONTROL
- [3] '3' INDICATES THREE-WAY
- [4] '4' INDICATES FOUR-WAY
- [T] 'T' INDICATES TIMER SWITCH — BASIS OF DESIGN: HUBBELL TD200 OR APPROVED EQUIVALENT
- [WP] 'WP' INDICATES WEATHERPROOF COVER
- [O] 'O' INDICATES OCCUPANCY SENSOR SWITCH — BASIS OF DESIGN: HUBBELL #LHMTS1 OR APPROVED EQUIVALENT
- [DO] 'DO' INDICATES DUAL OCCUPANCY SENSOR SWITCH — BASIS OF DESIGN: HUBBELL #LHMTD2 OR APPROVED EQUIVALENT
- [M] 'M' INDICATES MANUAL MOTOR STARTER (WITH OVERLOAD PROTECTION)
- [C] CEILING MOUNTED OCCUPANCY SENSOR WITH POWER PACK — BASIS OF DESIGN: HUBBELL #OMNIDT2000RP WITH #UVVP OR APPROVED EQUIVALENT

OTHER

- [1] INDICATES KEYED NOTE

SECURITY

- [M] [T] CARD ACCESS READER; LETTER INDICATES AS FOLLOWS:  
M=MOUNT  
C=CEILING D=DESK F=FLUSH H=HIDDEN  
M=MULLION P=PEDESTAL R=RACK  
S=SURFACE W=WALL  
T=TECHNOLOGY/TYPE  
B=BARCODE F=ELEVATOR FLOOR CALL  
H=ELEVATOR HALL CALL M=MAG STRIP  
P=PROXIMITY S=SMART CARD T=TOKEN
- [M] [T] ELECTRONIC LOCK; LETTER INDICATES AS FOLLOWS:  
M=MOUNT  
C=CEILING D=DESK F=FLUSH H=HIDDEN  
M=MULLION P=PEDESTAL R=RACK S=SURFACE  
W=WALL  
T=TECHNOLOGY/TYPE  
D=DEADBOLT H=HYBRID L=LATCH SET  
M=MAGNETIC S=STRIKE
- [M] [PZ] SECURITY ACCESS, VIDEO CAMERA WITH LENS  
M = MOTION DETECTOR  
PZ = MOTION DETECTOR WITH PAN AND ZOOM  
PTZ= MOTION DETECTOR WITH PAN, TILT, AND ZOOM
- [M] KEYPAD; LETTER INDICATES AS FOLLOWS:  
M=MOUNT  
C=CEILING D=DESK F=FLUSH H=HIDDEN  
M=MULLION P=PEDESTAL R=RACK  
S=SURFACE W=WALL
- [M] [T] PUSH BUTTON; LETTER INDICATES AS FOLLOWS:  
M=MOUNT  
C=CEILING D=DESK F=FLUSH H=HIDDEN  
M=MULLION P=PEDESTAL R=RACK  
S=SURFACE W=WALL  
T=TECHNOLOGY  
B=BELL PUSH D=DURESS P=PANIC  
R=DOOR RELEASE X=REQUEST FOR EXIT

POWER

- NUE— UNDERGROUND WIRING  
'NUE' INDICATES NEW UNDERGROUND ELECTRIC WIRING  
'EUE' INDICATES EXISTING UNDERGROUND ELECTRIC WIRING  
'NUC' INDICATES NEW UNDERGROUND COMMUNICATIONS WIRING  
'EUC' INDICATES EXIST. UNDERGROUND COMMUNICATIONS WIRING
- NEW INTERIOR WIRING — ABOVE GRADE — CONCEALED OR EXPOSED
- G— GROUNDING CONDUCTOR
- ← HOMERUN — ARROWS INDICATE NUMBER OF CIRCUITS (GND NOT SHOWN) CONDUCTORS ARE #12 UNLESS NOTED OTHERWISE.
- 4LSB-23 CIRCUIT NUMBER DESIGNATION  
PANELBOARD DESIGNATION (HYPHENS ELIMINATED)
- [J] JUNCTION BOX — SIZE AS INDICATED OR REQUIRED.
- [T] THERMOSTAT
- [SBC] [BBA] PANELBOARD, RECESSED OR SURFACE MOUNT AS SPECIFIED. DESIGNATION PER CLIENT STANDARD
- T1 [30] DRY-TYPE TRANSFORMER — KVA AS INDICATED, 'T1' INDICATES DESIGNATION
- [A/P/V/N] SAFETY DISCONNECT SWITCH  
A INDICATES AMPS  
P INDICATES POLES  
V INDICATES LINE TO LINE VOLTS  
N INDICATES NEMA ENCLOSURE  
DESIGNATION  
\ (SLASH) INDICATES FUSIBLE
- [A/P/V/N] [X] 2 MAGNETIC MOTOR STARTER — 'PR' INDICATES PROVIDE PHASE PROTECTION RELAY. NUMBER INDICATES NEMA SIZE
- [X] 2 COMBINATION TYPE MAGNETIC MOTOR STARTER/DISCONNECT  
NUMBER INDICATES NEMA SIZE
- [10] MOTOR — NUMBER INDICATES HORSEPOWER. WIRE COMPLETE WITH DISCONNECT SWITCH AS INDICATED OR REQUIRED, 'M' INDICATES FRACTIONAL HORSEPOWER
- [P] DUPLEX RECEPTACLE — 125V, 20A, GROUND TYPE MOUNT 18" AFF UNLESS NOTED OTHERWISE  
'S' INDICATES TOP HALF SWITCHED  
'IG' INDICATES ISOLATED GROUND  
'WP' INDICATES WEATHER-PROOF. PROVIDE WEATHER-RESISTANT PER NEC 406.8.  
'SS' INDICATES SURGE SUPPRESSION TYPE  
'TR' INDICATES TAMPER RESISTANT TYPE  
'HG' INDICATES HOSPITAL GRADE  
'GF' INDICATES GROUND FAULT CIRCUIT INTERRUPTER  
'CR' INDICATES CRITICAL POWER
- [P] SINGLE RECEPTACLE — 125V, 20A, GROUND TYPE — MOUNT 18" AFF UNLESS NOTED OTHERWISE
- [P] DOUBLE DUPLEX RECEPTACLE — 125V, 20A, GROUND TYPE — MOUNT 18" AFF UNLESS NOTED OTHERWISE
- 14-30 [P] SINGLE POWER RECEPTACLE — SPECIAL PURPOSE — NEMA CONFIGURATION AS INDICATED
- [P] FLOOR BOX RECEPTACLE — GANG AS INDICATED ON DRAWINGS

ABBREVIATIONS

A	AMP	P	POLE
AC	ALTERNATING CURRENT	PA	PUBLIC ADDRESS
ADA	AMERICANS WITH DISABILITIES ACT	PB	PUSH BUTTON
AF	AMP FRAME	PF	POWER FACTOR
AFCI	ARC FAULT CIRCUIT INTERRUPTER	PH	PHASE
AFF	ABOVE FINISHED FLOOR	PNL	PANEL
AFG	ABOVE FINISHED GRADE	PT	POTENTIAL TRANSFORMER
AHU	AIR HANDLER UNIT	PVC	POLYVINYL CHLORIDE
AIC	AMPERES INTERRUPTING CAPACITY	REF	REFRIGERATOR
AL	ALUMINUM	RSC	RIGID STEEL CONDUIT
AT	AMP TRIP	RTU	ROOF TOP UNIT
ATC	AUTOMATIC TEMPERATURE CONTROL	SCCR	SHORT CIRCUIT CURRENT RATING
AWG	AMERICAN WIRE GAUGE	SF	SUPPLY FAN
BLDG	BUILDING	SLD	SINGLE LINE DIAGRAM
C	CONDUIT	SS	SOLID STATE
CB	CIRCUIT BREAKER	SWBD1	SWITCHBOARD, NUMBER AS INDICATED
CKT	CIRCUIT	TC	TIME CLOCK
CL	CENTERLINE	TS	TRANSFER SWITCH
CMU	CONCRETE MASONRY UNIT	T&B	TOP AND BOTTOM
CONC	CONCRETE	TYP	TYPICAL
COW	COMPUTER ON WHEELS	TV	TELEVISION
CU	CONDENSING UNIT	UG	UNDERGROUND
CONT'D	CONTINUED	UH	UNIT HEATER
CR	CRITICAL	UV	UNIT VENTILATOR
CU	COPPER	V	VOLT
CUH	CABINET UNIT HEATER	VA	DEPARTMENT OF VETERAN AFFAIRS
DC	DIRECT CURRENT	VA	VOLT-AMPERE
DW	DISH WASHER	VAMC	VA MEDICAL CENTER
EC	ELECTRICAL CONTRACTOR	VFD	VARIABLE FREQUENCY DRIVE
EF	EXHAUST FAN	W	WATT
EGC	EQUIPMENT GROUNDING CONDUCTOR	W/	WITH
EM	EMERGENCY	WP	WEATHERPROOF
EUH	ELECTRIC UNIT HEATER	WH	WATER HEATER
EWC	ELECTRIC WATER COOLER	WRG	WIRING
FACP	FIRE ALARM CONTROL PANEL	XFMR	TRANSFORMER
GD	GARBAGE DISPOSAL	XP	EXPLOSION-PROOF
GEC	GROUNDING ELECTRODE CONDUCTOR	3PH	THREE PHASE (Ø)
GFI	GROUND FAULT INTERRUPTER	3W	THREE WIRE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	4W	FOUR WIRE
GND	GROUND	(R)	LOCATION OF RELOCATED DEVICE OR EQUIPMENT
HID	HIGH INTENSITY DISCHARGE	(RR)	REMOVE AND RELOCATE EXISTING DEVICE OR EQUIPMENT
HOA	HAND-OFF-AUTOMATIC	(RX)	REMOVE EXISTING DEVICE OR EQUIPMENT
HP	HORSEPOWER	(X)	EXISTING DEVICE OR EQUIPMENT TO REMAIN
HPS	HIGH PRESSURE SODIUM	(XR)	EXISTING DEVICE OR EQUIPMENT TO BE REMOVED AND REPLACED AT SAME LOCATION
HZ	HERTZ		
JB	JUNCTION BOX		
KAIC	THOUSAND AMP INTERRUPTING CAPACITY		
KCMIL	THOUSAND CIRCULAR MIL		
KV	THOUSAND VOLTS (KILOVOLT)		
KVA	THOUSAND VOLT-AMPS		
KW	THOUSAND WATTS (KILOWATT)		
LC	LIGHTING CONTACTORS		
LCP	LATERAL CONTROL PIT		
LED	LIGHT EMITTING DIODE		
LP	LIGHTING PANELBOARD		
LTG	LIGHTING		
MCC	MOTOR CONTROL CENTER		
MCCB	MOLDED CASE CIRCUIT BREAKER		
MCB	MAIN CIRCUIT BREAKER		
MH	MANHOLE OR METAL HALIDE		
MIC	MICROWAVE OR MICROPHONE		
MLO	MAIN LUGS ONLY		
MTS	MANUAL TRANSFER SWITCH		
NC	NORMALLY CLOSED OR NURSE CALL		
NEC	NATIONAL ELECTRICAL CODE		
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
NO	NORMALLY OPEN		
NO.	NUMBER		
NTS	NOT TO SCALE		
OL	OVERLOAD		

GENERAL NOTES

- COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.
- ALL RECEPTACLES SHALL BE INSTALLED 18" AFF UNLESS NOTED OTHERWISE.
- ALL WIRING SHALL BE COPPER. ALUMINUM WIRING IS NOT ALLOWED. UNLESS OTHERWISE NOTED, ALL WIRING SHALL BE 2#12 AWG SOLID AND 1#12 AWG SOLID EQUIPMENT GROUNDING CONDUCTOR IN EMT. HOMERUNS FED FROM A 20A-1P, 120V CIRCUIT IN EXCESS OF 70' SHALL BE #10 AWG SOLID.
- SEE MECHANICAL PLANS FOR HVAC UNITS, PUMPS AND FANS CONTROLLED BY THERMOSTATS AND OVERRIDE SWITCHES (PROVIDED BY ATC CONTRACTOR).
- FUSES AND OVERLOAD UNITS FOR MOTORS SHALL BE SIZED BASED ON ACTUAL MOTOR NAMEPLATE DATA AND IN ACCORDANCE WITH NEC.
- ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA99, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.
- ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE SEPARATION.
- ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.
- AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH ALL FEEDER AND BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70 ARTICLE 250.
- FLEXIBLE CONNECTIONS TO MOTORS SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT IN A 360° LOOP EXCEPT AS NOTED OTHERWISE.
- COORDINATE INSTALLATION OF COMMUNICATION OUTLETS WITH THE VA.
- LOCATE DISCONNECTS AT EQUIPMENT AS REQUIRED BY MANUFACTURER AND SPECIFICATIONS. LOCATIONS ON DRAWINGS ARE APPROXIMATE.
- ALL UNDERGROUND CONDUITS MOUNTED TO FIXED STRUCTURES ABOVE GRADE SHALL HAVE EXPANSION FITTINGS.
- PROVIDE WIRE MARKERS TO IDENTIFY CABLES FOR ALL SYSTEMS AT THE ORIGIN, PULL BOXES, AND TERMINATION POINTS. LABELS SHALL BE SELF ADHESIVE OR HEAT SHRINK TYPE.
- NO LIVE WORK WILL BE ALLOWED. EVERY CIRCUIT SHALL BE LOCKED-OUT AND TAGGED-OUT BEFORE COMMENCING WORK.

FULLY SPRINKLERED  
BID DOCUMENTS 08-23-2013

Revision	01-10-14	CONSULTANTS:	ARCHITECT/ENGINEERS:			Drawing Title: ELECTRICAL LEGEND, ABBREVIATIONS, AND GENERAL NOTES	Project Title: NEW FRONT ENTRANCE BUILDING 1	Project Number: 595-11-125	Office of Construction and Facilities Management	
REVISION 2 - ENTIRE SHEET	03/21/14			200 Envoy Circle #201, Louisville KY 40299 - PH: 502.339.8511 - www.paradigmusa.com	ENGINEER No. PE079836 PENNSYLVANIA	Approved Project Director	Location: LEBANON VAMC 1700 SOUTH LINCOLN AVE, LEBANON PA 17042-7899	Building Number: 1		Drawing Number: 1.E-001
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