




LOAD SERVED				KVA / Phase				LOAD SERVED				
	A	B	C	CKT BRKR	CKT NO	NEUTRAL A B C	CKT NO	CKT BRKR	A	B	C	
NEW RTU-1	7.39	---	---		1	3	2	1P-20	1.44	---	---	
	---	7.39	---	3P-80	4	3	4	1P-20	---	0.80	---	
	---	---	7.39		5	3	6	1P-20	---	---	0.90	
NEW ROOFTOP RECEPT	0.18	---	---	1P-20	7	7	8	1P-20	0.00	---	---	
NEW EF-1	---	1.68	---	1P-20	9	9	10	1P-20	---	0.00	---	
SPARE	---	---	0.00	1P-20	11	11	12	1P-20	---	---	1.22	
SPARE	0.00	---	---	1P-20	13	13	14	1P-20	1.26	---	---	
SPARE	---	0.00	---	1P-20	15	15	16	1P-20	---	0.00	---	
SPARE	---	---	0.00	1P-20	17	17	18		---	2.20	---	
SPARE	0.00	---	---	1P-20	19	19	20	3P-30	2.20	---	---	
SPARE	---	0.00	---	1P-20	21	21	22		2.20	---	---	
	---	---	0.00		23	23	24		---	0.00	---	
EXISTING PANEL 2NPW1 NEW SPACE (MCB IS SWITCHED OFF)	0.00	---	---	3P-100	25	25	26	3P-100	1.24	---	---	
	---	0.00	---		27	27	28		0.00	---	---	
EDH-1	1.25	---	1.25	2P-20	29	29	30		---	0.00	---	
	---	---	---		31	31	32	---	0.00	---	---	
SPACE	---	0.00	---		33	33	34	---	0.00	---	---	
SPACE	---	---	0.00	---	35	35	36	---	---	0.00	---	
SPACE	0.00	---	---		37	37	38	---	0.00	---	---	
SPACE	---	0.00	---		39	39	40	---	0.00	---	---	
SPACE	---	---	0.00		41	41	42	---	---	0.00	---	
	---	---	---		---	---	---	---	1.24	---	---	
	---	---	---		---	---	---	---	0.00	---	---	
	---	---	---		---	---	---	---	---	0.00	---	
SUB TOTAL	8.82	9.04	8.64						7.38	3.00	4.32	
									16.20	12.04	12.98	
C/B TEMP. 75 C.	RATING	120	208 V 3 PH 4 WIRE						CONNECTED KVA			
MOUNTING SURFACE									A	B	C	
ISOLATED GROUND BUS	YES		X	NO					GENERAL LIGHTING	2.12	0.80	0.32
MAIN CIRCUIT BREAKER	X	NO							GENERAL USE	3.06	0.00	0.90
SERVICE ENTR. RATED	YES		X	NO					RECEPT			
MINIMUM AIC (K AMPS) 10									MOTORS AND EQUIPMENT	7.39	7.39	7.39
MCB RATING M.L.O.									ALL OTHERS	2.20	3.86	2.20
BUS RATING 255A									DEDICATED RECEPTACLES	0.18	0.18	0.80
NEUTRAL RATING 100%									ELECTRIC HEAT	1.25	0.00	1.25
										1.25	1.56	0.00
										1.56	0.00	1.56
NOTE: ALL MOTOR CIRCUIT BREAKERS MUST BE HACR RATED.									TOTAL KVA PER PHASE	16.20	12.04	12.96
									TOTAL DEMAND AMPERES PER PHASE		18.89	14.09
											157	117
									PANEL / FEEDER (TOTAL KVA)			
												48.17
									(TOTAL KVA) X 1000 = TOTAL AMPS			
									VOLTS X 1.732			
EXISTING PANEL 'EP2A'												134

EXISTING SINGLE-LINE NOTES:

- (1) NOT USED
- (2) EXISTING PANEL 'EP-2A' AND EXISTING PANEL 'EP-2B' WITH DOUBLE MAIN LUGS FEED THRU TO THIRD FLOOR PANELS.
- (3) NOT USED
- (4) NOT USED
- (5) NOT USED
- (6) NOT USED
- (7) 4-4/0 AWG & 1-4 AWG GRD IN 2 1/2" C.
- (8) 3 SETS OF 4-400 KCMIL MCM & 1-2/0 AWG GRD IN 3-1/2"C.
- (9) 4-350 KCMIL MCM & 1-2 AWG GRD IN 3-1/2"C.
- (10) 3 SETS OF 400 KCMIL MCM & 1-2/0 GRD
- (11) 4-2/0 AWG & 1-8 AWG GRD IN 2"C.
- (12) 4-4/0 AWG & 1-2 AWG IN 2-1/2"C.
- (13) 4-2 AWG & 1-6 AWG GRD IN 1-1/2"C.
- (14) NOT USED
- (15) NOT USED
- (16) NOT USED
- (17) NOT USED
- (18) 4-6 AWG & 1-8 AWG GRD IN 1"C.
- (19) EXISTING 250KW EMERGENCY GENERATOR. 120/208V, 3Ø, 4W.
- (20) 4-1/0 AWG & 1-6 WAG GRD IN 2"C. TO 150A/3P CB IN EXISTING PANEL 'MEP'.
- (21) EXISTING TELE EQUIP FEEDER. COORDINATE ALL OUTAGES WITH THE VAMC.
- (22) PULL BOX ABOVE CEILING FOR SPLICE TO EXISTING FEEDER.

ARCHITECT/ENGINEERS:  APOGEE Consulting Group, PA www.ag-pa.com Apogee Project # 2010 185		Drawing Title SINGLE LINE DIAGRAM AND PANEL SCHEDULES		Project Title Department of Veterans Affairs Replace HVAC System Building One - TB Unit		Project Number 542-11-106		Building Number Building 1		Office of Construction and Facilities Management	
Raleigh, NC Indianapolis, IN Columbia, MD		Professional Stamp/Seal 		Location Coatesville, PA		Drawing Number E-601		Date June 14th, 2011		Checked JWM	
Revisions:		Date		Date June 14th, 2011		Checked JWM		Dwg. 12 of 12		 Coatesville VA Medical Center	