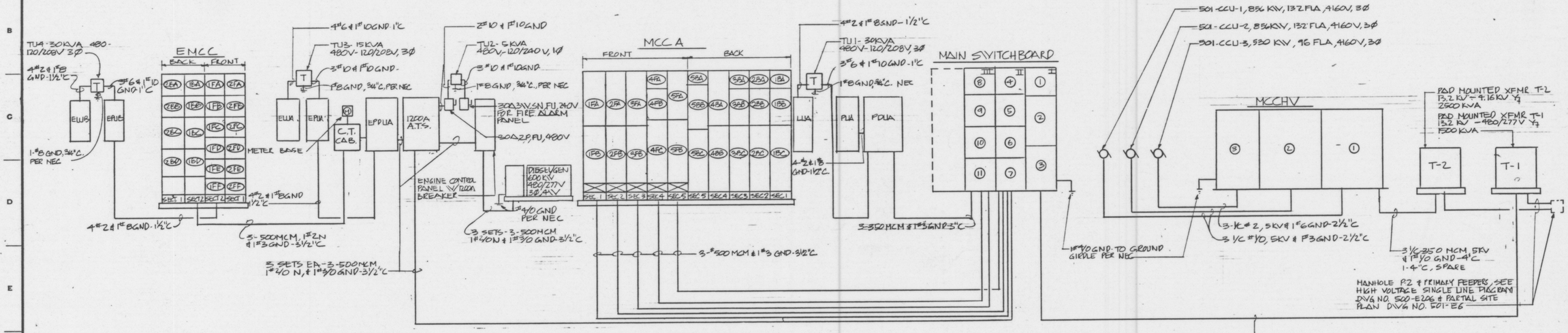

POWER RISER DIAGRAM

NO SCALE

MCCHV SCHEDULE -4160 VOLTS

COMPT.	SERVING	FUSE	H.P.	RATING	STARTER	WIRE	NOTES
1	501-CCU-1	260	1275	400A	RVPR	#1/0, 5KV	(5)
2	501-CCU-2	260	1275	400A	RVPR	#1/0, 5KV	
3	501-CCU-3	200	925	400A	RVPR	#2, 5KV	(7)

MCCA SCHEDULE (BASE BID) (3)

COMPT.	SERVING	HP	RATING	STARTER	WIRE	NOTES
(1FA)	501-CDP-1	100	250A-3P	4 FVNR	2/0	
(1FB)	501-CHP-1	25	70A-3P	FVNR	8	
(2FA)	501-CDP-2	100	250A-3P	4 FVNR	2/0	
(2FB)	501-CHP-2	25	70A-3P	FVNR	8	
(3FA)	501-CDP-3	100	250A-3P	4 FVNR	2/0	
(3FB)	501-CHP-3	25	70A-3P	FVNR	8	
(4FA)	501-SP-19	3	15A-3P	FVNR	12	
(4FB)	501-CHP-4	10	30A-3P	2 FVNR	12	
(4FC)	501-CTF-3A	50	125A-3P	3-2SP	4	(6)
(5FA)	501-CDP-4	50	125A-3P	3-FVNR	4	
(5FB)	SPACE	—	—	—	—	
(1BA)	SPACE ONLY	—	—	—	—	
(1BB)	SPACE ONLY	—	—	—	—	
(1BC)	501-CTF-1A	50	125A-3P	3-2SP	4	(6)
(2BA)	SPACE ONLY	—	—	—	—	
(2BB)	SPACE ONLY	—	—	—	—	
(2BC)	501-CTF-1B	50	125A-3P	3-2SP	4	(6)
(3BA)	SPACE ONLY	—	—	—	—	
(3BB)	SPACE ONLY	—	—	—	—	
(3BC)	501-CTF-2A	50	125A-3P	3-2SP	4	(6)
(4BA)	501-CWP-2	100	250A-3P	4-FVNR	2/0	
(4BB)	501-CTF-2B	50	125A-3P	3-2SP	4	(6)
(5BA)	SPACE ONLY	—	—	—	—	
(5BB)	501-CWP-3	25	70A-3P	2 FVNR	8	
(5BC)	501-CWP-1	150	350-3P	5 FVNR	4/0	

EMCC SCHEDULE (4)

COMPT	SERVING	HP	RATING	STARTER	WIRE	NOTES
(1BA)	501-CTP-1	5	150-3P	1 FVNR	12	
(1BB)	501-HWP-1	20	60A-3P	2 FVNR	10	
(1BC)	501-BFP-1	30	90A-3P	4 FVNR	6	
(1BD)	501-SP-17	3	15A-3P	1 FVNR	12	(9)
(2BA)	501-CTP-2	5	15A-3P	1 FVNR	12	
(2BB)	501-HWP-2	20	60A-3P	2 FVNR	10	
(2BC)	501-BFP-2	30	90A-3P	4 FVNR	6	
(2BD)	501-SP-18	1½	15A-3P	1 FVNR	12	(9)
(1FA)	PANEL EPUB	—	100A-3P	—	2	
(1FB)	SPACE ONLY	—	—	—	—	
(1FC)	501-UVH-1	15	40A-3P	2-2SP	10	
(1FD)	501-FPH-1	5	15A-3P	1-FVNR	12	
(1FE)	501-FPH-2	5	15A-3P	1-FVNR	12	
(1FF)	501-ACC-1	15	40A-3P	2 FVNR	10	
(2FA)	501-FDF-1	25	70A-3P	2 FVNR	8	
(2FB)	501-FDF-2	25	70A-3P	2-FVNR	8	
(2FC)	501-FDF-3	25	70A-3P	2 FVNR	8	
(2FD)	501-FPL-1	3	15A-3P	1 FVNR	12	
(2FE)	501-FPL-2	3	15A-3P	1 FVNR	12	
(2FF)	501-ACA-1	15	40A-3P	2 FVNR	10	

MAIN SWITCHBOARD SCHEDULE

MARK	FRAME	INTERRUPTING RATING INST.	INTERRUPTING RATING SHORT TIME	LONG TIME PICK UP	LONG TIME DELAY	SHORT TIME PICK UP	SHORT TIME DELAY	INST. PICK UP	GROUND PICK UP	GROUND DELAY	WIRE	SERVING
	SECTION I											
(1)	—	—	—	—	—	—	—	—	—	—	—	INSTRUMENT COMPARTMENT (1)
(2)	3000-3P	50,000	50,000	3,000	(2)	(2)	(2)	(2)	(2)	(2)	500 MCM 2 SETS	MAIN
(3)	—	—	—	—	—	—	—	—	—	—	—	3000A INCOMING SECTION
	SECTION II											
(4)	1600A-3P	50,000	50,000	400	(2)	(2)	(2)	(2)	(2)	(2)	500 MCM	MCCA SECTION 1
(5)	1600A-3P	50,000	50,000	400							500 MCM	MCCA SECTION 2
(6)	1600A-3P	50,000	50,000	1200A							500 MCM 2 SETS	ATS 1200A
(7)	1600A-3P	50,000	50,000	400							500 MCM	MCCA SECTION 5
	SECTION III											
(8)	1600-3P	50,000	50,000	400	(2)	(2)	(2)	(2)	(2)	(2)	500 MCM	MCCA SECTION 3
(9)	1600-3P	50,000	50,000	400							500 MCM	MCCA SECTION 4
(10)	1600-3P	50,000	50,000	300							350 MCM	PDUA
(11)	1600-3P	50,000	50,000	400							500 MCM	MCCA SECTION 5, (6)

NOTES:

1. INSTRUMENT COMPARTMENT SHALL INCLUDE WATTHOUR DEMAND METER WITH CT'S & PT'S. AMMETER WITH SELECTOR & VOLTMETER W SELECTOR.
2. PICK-UP, SETTING & DELAYS SHALL BE INDICATED ON THE AS BUILT DRAWING AS DETERMINED BY THE CIRCUIT BREAKER COORDINATION BY THE MANUFACTURER AS SPECIFIED.
3. EACH VERTICAL AND/OR VERTICAL BUS IN EACH SECTION 1, 2, 3, & 5 OF 'MCCA' SHALL BE 600A, 3Ø, 3W, GND, 480 V BRACED FOR 42,000 A.I.C. RMS SYM. MIN, ALL BREAKERS SHALL BE RATED 42,000 A.I.C. RMS SYM. MIN.
4. EACH VERTICAL & HORIZONTAL BUS IN EACH SECTION 1 & 2 & HORIZONTAL BUS OF EMCC SHALL BE 600A, 3Ø, 25%, N, GND 480 V BRACED FOR 42,000 A.I.C. RMS. SYM. MIN; ALL BREAKERS SHALL BE RATED 42,000 A.I.C. RMS. SYM. MIN. SECTION 1 & 2 SHALL BE BUSSED TOGETHER.
5. PROVIDE SPACE FOR INCOMING SERVICE FEEDERS.
6. PROVIDE 600A TRIP & 2 SETS EA.-3-#350 MCM & 1-#1 GND.-3"C. SERVICE FEEDERS FOR MCCA SECTION 5 FOR ALT. NO 7-SOLAR ENERGY SYSTEM. SEE DWG. NO. 501-E8.
7. OMIT COMPARTMENT 3 IN MCCHV FOR 501-CCU-3 COMPLETELY FOR SOLAR ALTERNATE BID NO 7 (SOLAR ENERGY SYSTEM).
8. 2 SPEED MOTOR STARTERS SHALL BE 2 SPEED, FULL VOLTAGE, NON-REVERSING, FOR SINGLE WINDING, CONSTANT OR VARIABLE TORQUE MOTORS.
9. 15A. 3P, CIRCUIT BREAKER AND 1 FVNR STARTER FOR ALTERNATE No 7 SOLAR ENERGY SYSTEM.

COMMONWEALTH OF VIRGINIA — William E. Tazewell, Jr. — Certificate No. 302 — PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION

REVISIONS

SHEET TITLE: POWER SYSTEM RISER DIAGRAM & SCHEDULES

BLDG. NO. 501 — PROJECT TITLE: 820 Bed Replacement Hospital Utility Plant

DRAWN: MARABLE ABRAMS — CHECKED: MOTLEY — DATE: OCT. 12, 1979

Williams and Tazewell
Perkins & Will
A Joint Venture

DRAWING NUMBER: 501-E4 — DWG. 1385 OF 1409

APPROVED: PROJECT DIRECTOR — PROJECT NUMBER: 651-001

VETERANS ADMINISTRATION

LOCATION: VAH Richmond, Virginia

VA FORM 08-8231 FEB 1973

ABBE 19 1285 11-79 MC 8984