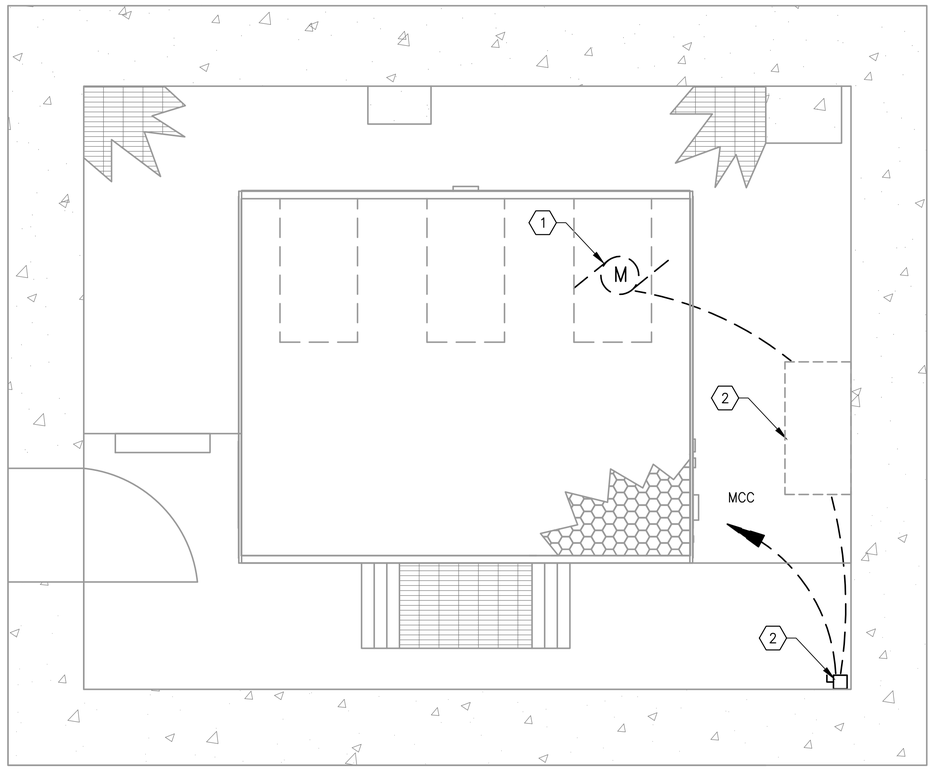
KEYNOTES:

1. EXISTING COOLING TOWER FAN TO BE DEMOLISHED BY MECHANICAL.
2. EXISTING FAN MOTOR CONTROL PANEL AND DISCONNECT SWITCH TO BE DEMOLISHED.

SHEET NOTES:

1. ALL SHOWN EQUIPMENT IS EXISTING TO REMAIN UNLESS SHOWN OTHERWISE.
2. REMOVE AND DISPOSE OF ALL ELECTRICAL CONDUIT, WIRING AND EQUIPMENT ASSOCIATED WITH EXISTING WATER TREATMENT EQUIPMENT.
3. REMOVE AND DISPOSE OF DEMOLISHED EQUIPMENT ALONG WITH ASSOCIATED WIRING.
4. FOR EQUIPMENT TO BE DEMOLISHED: ALL EXISTING CONDUIT AND WIRING SHALL BE REMOVED. PERMISSION TO USE EXISTING CONDUIT (WIRES REMOVED) SHALL BE REQUESTED FROM AR.



1 ELECTRICAL PLAN - DEMOLITION (COOLING TOWER)
CWPA5-E-101

SCALE: 1/2" = 1'-0"

GFP A Gannett Fleming/Parsons JOINT VENTURE

STATE OF MARYLAND UDAYAN KHAN 03/29/2018 No. 24687 PROFESSIONAL ENGINEER

State of Maryland Professional Certification. I hereby certify that these documents were prepared or **approved** by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 024687, Expiration Date: 03/15/2020

DESIGNED	B. IDILBI	09/30/17 DATE
DRAWN	J. ZHU	09/30/17 DATE
CHECKED	D. KHAN	03/23/18 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION
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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

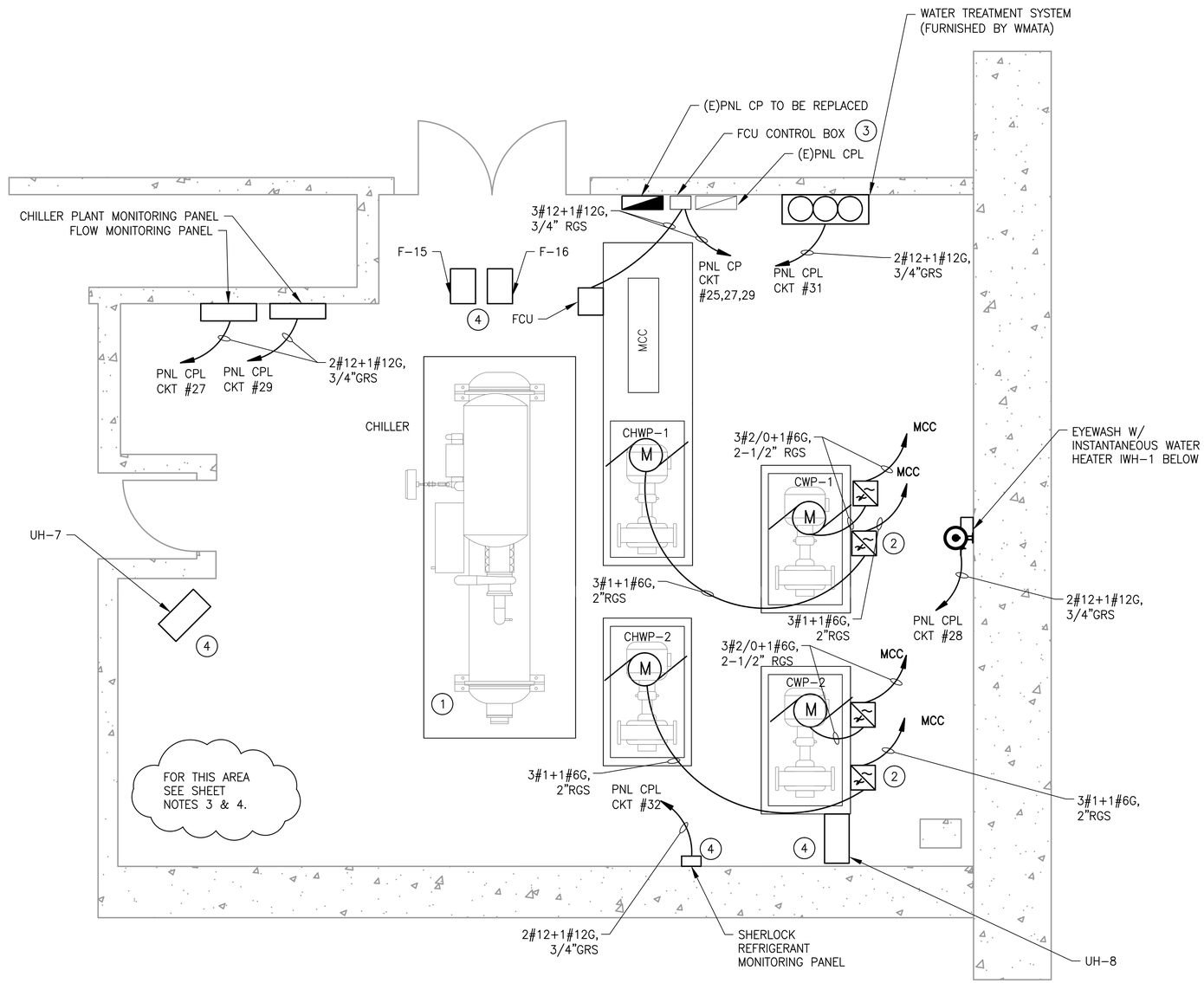
DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM GROUP

APPROVED Mark H. Magnussen 03/2018
MARK MAGNUSSEN DATE
MANAGER, ENV. PLANNING AND COMP

APPROVED 03/2018
GRAHAM SPILLER DATE
GFP DEPUTY PROGRAM MANAGER

REPLACEMENT OF CHILLERS
AND COOLING TOWER ACCESSORIES AT EIGHT METRO-RAIL STATIONS
CWPA5 - BETHESDA (A09)
ELECTRICAL PLAN - DEMOLITION

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1304	FQ-18102	1/2"=1'-0"	CWPA5-E-101	49 of 173



1 ELECTRICAL PLAN - NEW WORK (CHILLER ROOM)
CWPA5-E-102

SCALE: 3/8" = 1'-0"

KEYNOTES:

1. CHILLER VFD/DISCONNECT SUPPLIED WITH CHILLER INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
2. PROVIDE AND INSTALL VFD/DISCONNECT FOR CHILLED WATER AND CONDENSER WATER PUMPS. PROVIDE AND INSTALL WIRING FROM MOTOR TO VFD AND FROM VFD TO MCC.
3. FCU CONTROL BOX SUPPLIED WITH FCU, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
4. REUSE EXISTING CKTS & CONDUITS, USE NEW WIRES.

SHEET NOTES:

1. PROVIDE FILTERS FOR VFD'S AS REQUIRED.
2. ALL WIRING FOR VFD'S SHALL BE VFD RATED CABLES.
3. THE CONTRACTOR SHALL RELOCATE LIGHTING FIXTURE AND/OR CONDUITS AS NECESSARY TO ACCOMMODATE THE NEWLY DESIGNED VENTILATION UNIT MAINTENANCE PLATFORM.
4. INSTALL NEW LIGHTING FIXTURE AT CEILING ABOVE THE NEWLY INSTALLED VENTILATION UNIT MAINTENANCE PLATFORM.

GFP A Gannett Fleming/Parsons JOINT VENTURE

STATE OF MARYLAND — UDAYAN KHAN — 03/29/2018 — No. 24687 — PROFESSIONAL ENGINEER

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MARK MAGNUSSEN — DATE
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GFP DEPUTY PROGRAM MANAGER

REPLACEMENT OF CHILLERS
AND COOLING TOWER ACCESSORIES AT EIGHT METRO-RAIL STATIONS
CWPA5 - BETHESDA (A09)
ELECTRICAL PLAN - NEW WORK

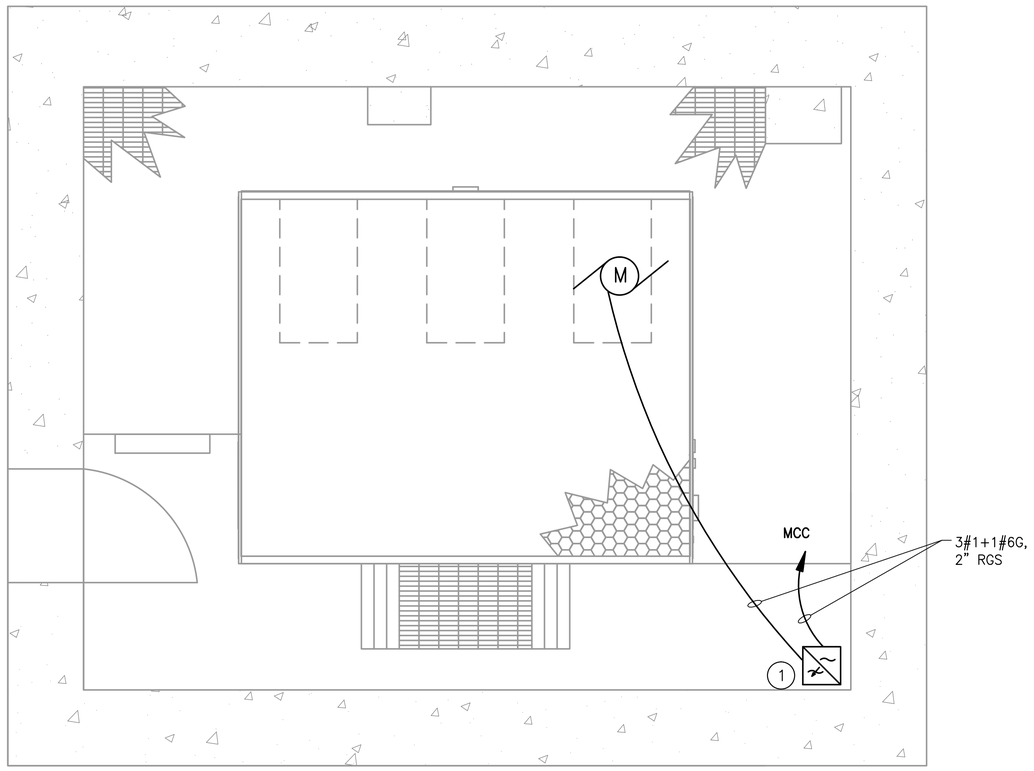
M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1304	FQ-18102	3/8"=1'-0"	CWPA5-E-102	50 of 173

KEY NOTES:

1. PROVIDE AND INSTALL VFD/DISCONNECT FOR CTF MOTOR. PROVIDE AND INSTALL WIRING FROM MOTOR TO VFD FROM VFD TO MCC IN THE CHILLER PLANT.

SHEET NOTES:

1. PROVIDE FILTERS FOR VFD'S AS REQUIRED.
2. ALL WIRING FOR VFD'S SHALL BE VFD RATED CABLES.
3. THE CHILLER PLANT IS APPROX. 20' UNDERGROUND. THE CHILLER PLANT TO THE REGENCY HOTEL IS ROUGHLY 100'. THE COOLING TOWER IS LOCATED ON THE ROOF OF THE REGENCY HOTEL WHICH IS 12 STORIES TALL APPROXIMATE DISTANCE 500'. CONTRACTOR TO UTILIZE CONDUITS IN EXISTING DUCTBANK.



1 ELECTRICAL PLAN - NEW WORK (COOLING TOWER)
CWPA5-E-103

SCALE: 1/2" = 1'-0"

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GFP DEPUTY PROGRAM MANAGER

REPLACEMENT OF CHILLERS
AND COOLING TOWER ACCESSORIES AT EIGHT METRO-RAIL STATIONS
CWPA5 - BETHESDA (A09)
ELECTRICAL PLAN - NEW WORK

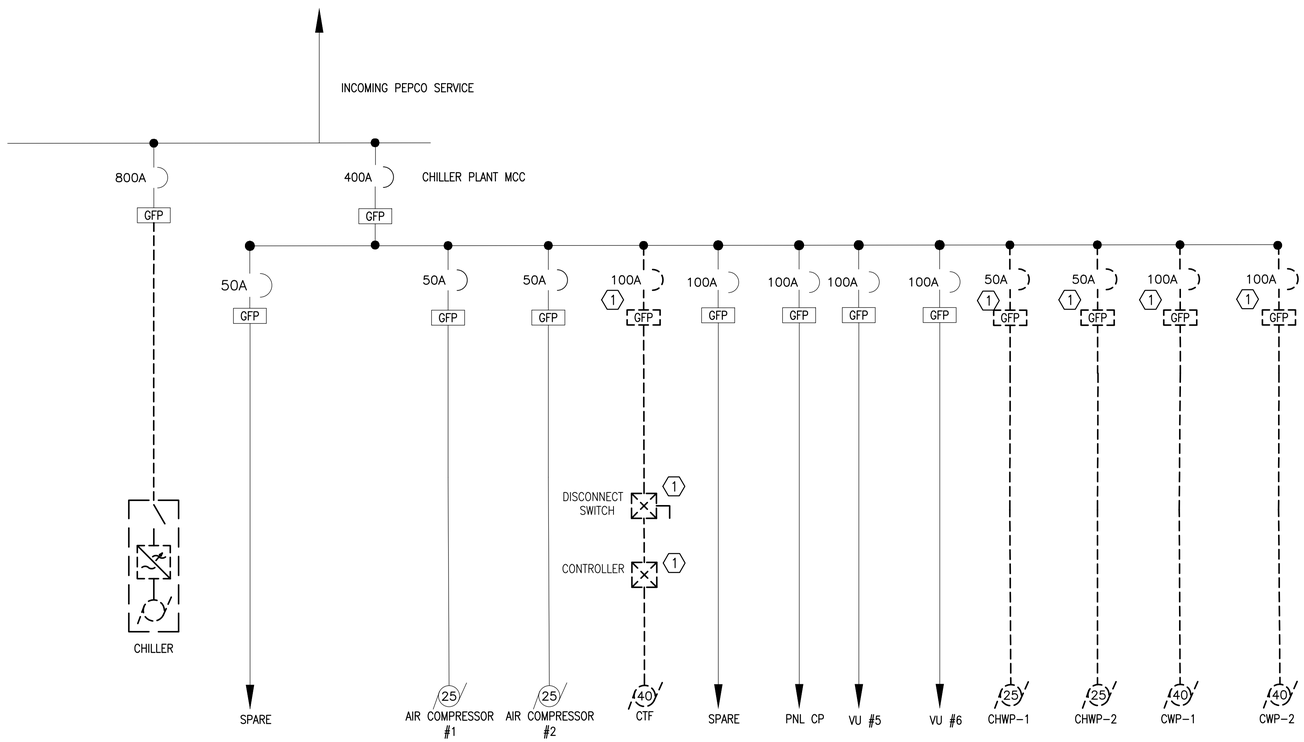
M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1304	FQ-18102	1/2"=1'-0"	CWPA5-E-103	51 of 173

SHEET NOTE:

1. FOR EQUIPMENT TO BE DEMOLISHED: ALL EXISTING CONDUIT AND WIRING SHALL BE REMOVED. PERMISSION TO USE EXISTING CONDUIT (WIRES REMOVED) SHALL BE REQUIRED FROM WMATA ENGINEER.

PLAN NOTE:

(1) EXISTING CIRCUIT BREAKER, DISCONNECT SWITCH, AND COOLING TOWER MOTOR CONTROLLER TO BE DEMOLISHED.



B ELECTRICAL SIGNLE LINE DIAGRAM - DEMOLITION
CWPA5-E-601

SCALE: NONE

A Gannett Fleming/Parsons JOINT VENTURE

STATE OF MARYLAND
UDAYAN KHAN
No. 24687
03/29/2018
PROFESSIONAL ENGINEER

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GFP DEPUTY PROGRAM MANAGER

REPLACEMENT OF CHILLERS
AND COOLING TOWER ACCESSORIES AT EIGHT METRO-RAIL STATIONS
CWPA5 - BETHESDA (A09)
ELECTRICAL SIGNLE LINE DIAGRAM - DEMOLITION

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1304	FQ-18102	NONE	CWPA5-E-601	52 of 173

SHEET NOTES:

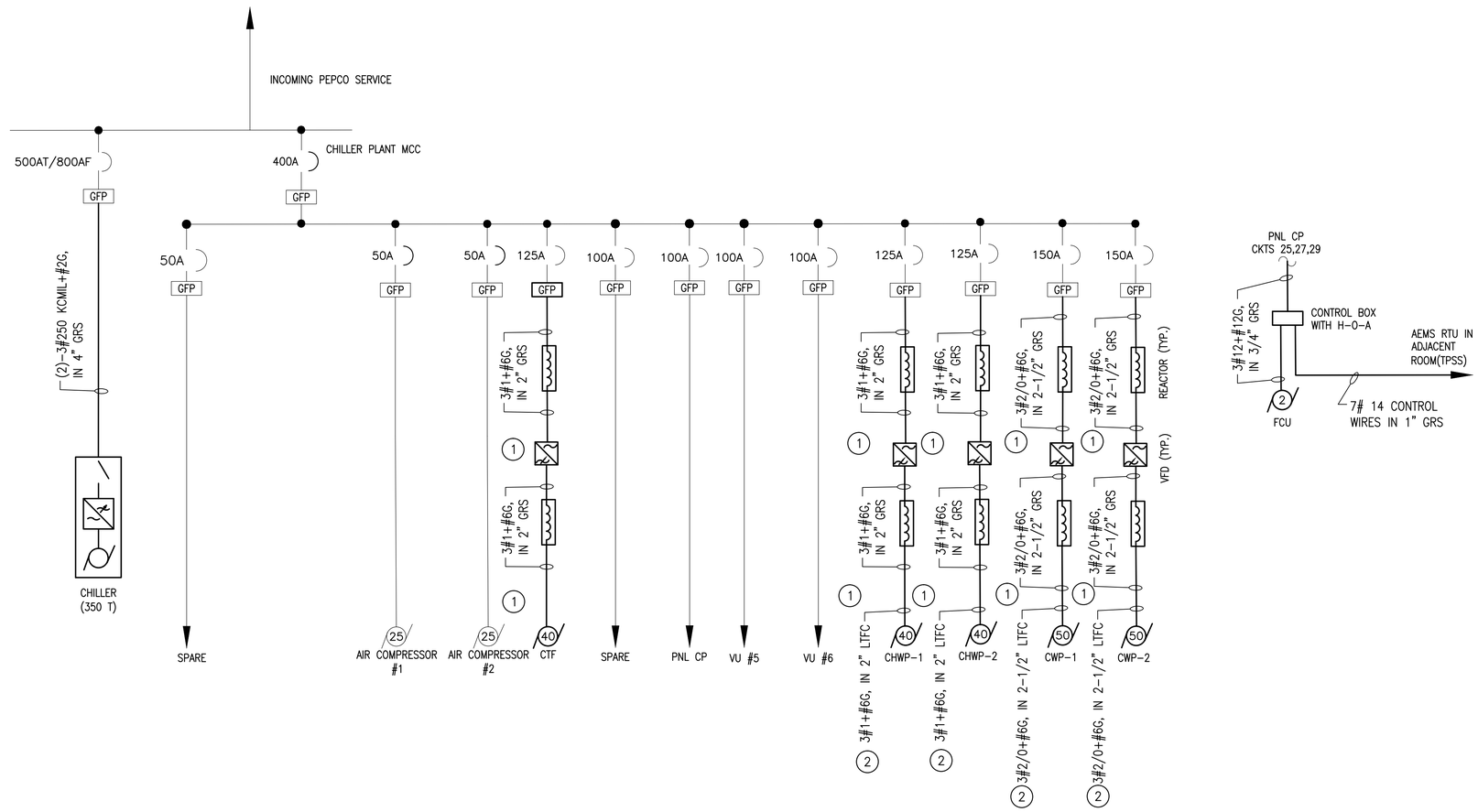
1. PROVIDE NEW CIRCUIT WITH GROUND FAULT PROTECTION IN EXISTING MCC.

PLAN NOTES:

(1) LINE AND LOAD REACTORS FOR EACH VFD SHALL BE MOUNTED IN A SINGLE NEMA 4X ENCLOSURE

(2) RUN NEW RGS FROM CABLE TROUGH AND STOP AT CONVENIENT PLACE NEAR MOTOR. CONTINUE WITH LTFC TO MOTOR.

(3) ALL VFD'S WIRING SHALL BE VFD RATED.



B ELECTRICAL SIGNLE LINE DIAGRAM - NEW WORK
CWPA5-E-602

SCALE: NONE

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STATE OF MARYLAND DARYAN KHAN 03/29/2018 PROFESSIONAL ENGINEER

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MARK MAGNUSSEN DATE
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APPROVED 03/2018
GRAHAM SPILLER DATE
GFP DEPUTY PROGRAM MANAGER

REPLACEMENT OF CHILLERS
AND COOLING TOWER ACCESSORIES AT EIGHT METRO-RAIL STATIONS
CWPA5 - BETHESDA (A09)
ELECTRICAL SIGNLE LINE DIAGRAM - NEW WORK

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1304	FQ-18102	NONE	CWPA5-E-602	53 of 173

PANEL: CPL

MAIN BUS: 100A
208/120 VOLT
ENCLOSURE: NEMA 1

MAIN DEVICE: 50A
3 PHASE, 4 WIRE + GROUND
MOUNTING: SURFACE

NEUTRAL BUS: 100%
RMS AIC: 10,000A
LOCATION: CHILLER ROOM

LOAD DESCRIPTION	LOAD VA	WIRE CKT	WIRE GND	RCWY SIZE	C/B TRIP	C/B PL	CKT NMBR	PHASE KVA A	PHASE KVA B	PHASE KVA C	CKT NMBR	C/B PL	C/B TRIP	RCWY SIZE	WIRE GND	WIRE CKT	LOAD VA	LOAD DESCRIPTION
REC	300	12	12	3/4"	30	1	1	1300			2	1	20	3/4"	10	10	1000	LIGHTS INSIDE VU 05, 06
CHILLER OIL WATER	–	12	12	3/4"	30	1	3		600		4	1	20	3/4"	12	12	600	AEMS RTUS
SPARE	–	12	12	3/4"	20	1	5			1200	6	1	20	3/4"	12	12	–	SPARE
SPARE	–	12	12	3/4"	20	1	7	1000			8	1	20	3/4"	12	12	1000	COLD WATER PIPE HEAT TRACING
SPARE	–	12	12	3/4"	20	1	9		700		10	1	20	3/4"	12	12	–	COLD WATER NORTH CHILLER
RECEPTACLES	700	12	12	3/4"	20	1	11			700	12	1	20	–	–	–	–	SPARE
SPARE	–	–	–	–	20	1	13	1200			14	1	20	–	–	–	500	RECEPTACLES
SPARE	–	–	–	–	20	–	15		1000		16	1	20	–	–	–	–	RECEPTACLES
SPARE	–	–	–	–	20	–	17			–	18	–	–	–	–	–	–	RECEPTACLES
RECEPTACLES	–	12	12	3/4"	20	–	19				20	–	–	–	–	–	–	RECEPTACLES
A.C SWITCH GEAR HEATER	–	12	12	3/4"	20	–	21				22	–	–	–	–	–	–	AIR DRYER
A.C SWITCH GEAR HEATER	–	12	12	3/4"	20	–	23				24	–	–	–	–	–	–	AC–13 40A
PEPCO MET CAB	–	12	12	3/4"	20	–	25				26	–	20	–	–	–	–	SPARE
(1) FLOW MONITORING PANEL	20	12	12	3/4"	20	–	27				28	–	20	3/4"	12	12	–	INSTANTANEOUS WATER HEATER (1)
(1) CHILLER PLANT MONITORING PANEL	20	12	12	3/4"	20	–	29				30	–	20	–	–	–	–	SPARE
(1) NALCO CONDENSER WATER TREATMENT PACKAGE	20	12	12	3/4"	20	–	31				32	–	20	3/4"	12	12	–	REFRIGERANT LEAK DETECTION SYSTEM,INCLUDING IR SENSORS (1)
SPARE	–	–	–	–	20	–	33				34	–	20	–	–	–	–	SPARE
SPARE	–	–	–	–	20	–	35				36	–	20	–	–	–	–	SPARE

NOTES:

CONNECTED LOAD: 9,812VA
DEMAND LOAD: 9,812VA

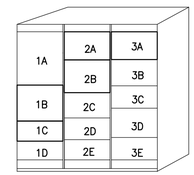
MOTOR CONTROL CENTER: CHILLER

800 AMPS, 480/277V, 3ø, 4W, GND BUS

LOCATION: CHILLER PLANT
AVAILABLE SHORT CIRCUIT: 28,000 AMPS RMS SYM
ENCLOSURE TYPE: NEMA 12

SEC. NO.	ITEM NO.	CIRCUIT BREAKER POLES	CIRCUIT BREAKER FRAMES AMP.	CIRCUIT BREAKER TRIP AMP.	MCP CONTIN. RATING AMP.	CONNECTED LOAD KVA	HP OR KW	DESCRIPTION	CONTROL DIAGRAM DWG NO.
1	1A	3	–	–	–	–	–	MAIN BREAKER	
	1B	3	200	125	–	–	40HP	CHILLER WATER PUMP	
	1C	3	200	125	–	–	40HP	CHILLER WATER PUMP	
	1D	–	–	–	–	–	–	SPACE	
2	2A	3	200	150	–	–	50HP	CONDENSER WATER PUMP	
	2B	3	200	150	–	–	50HP	CONDENSER WATER PUMP	
	2C	3	100	50	–	–	–	SPARE	
	2D	3	100	100	–	–	–	PANEL CP	
	2E	3	100	100	–	–	–	SPARE	
3	3A	3	200	125	–	–	40HP	COOLING TOWER FAN	
	3B	3	100	50	–	–	25HP	AIR COMPRESSOR	
	3C	3	100	50	–	–	–	VU #5	
	3D	3	100	50	–	–	–	VU #6	
	3E	3	–	–	–	–	–	SPACE	

ELEVATION



SECTION 1 | SECTION 2 | SECTION 3

MANUFACTURER: CULTER–HAMMER
FREEDOM SERIES 2100

SHEET NOTES:

(1) PROVIDE 20A, 1 POLE CIRCUIT BREAKER TO MATCH EXISTING AND WIRE TO IT THE NEW LOAD.

(2) INSTALL 20A, 3P CIRCUIT BREAKER IN PANEL CP IN BUSSED SPACES 25, 27 AND 29. AND WIRE NEWLY INSTALLED FCU TO IT.

ELECTRICAL EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION
1	6	REACTOR/FILTER 480V, 3PH, 37A, 25HP, 60HZ, NEMA 4X ENCLOSURE
2	4	REACTOR/FILTER 480V, 3PH, 52A, 40HP, 60HZ, NEMA 4X ENCLOSURE
3	2	VFD,480V, 3PH, 25HP, 60HZ, NEMA 4X ENCLOSURE WITH BYPASS AND REACTOR/FILTERS
4	3	VFD,480V, 3PH, 40HP, 60HZ, NEMA 4X ENCLOSURE WITH BYPASS AND REACTOR/FILTERS
5	3	MCC BUCKET TO MATCH EXISTING WITH 125AT/200AF BREAKER
6	2	MCC BUCKET TO MATCH EXISTING WITH 150AT/200AF BREAKER
7	LOT	#1 AWG RHW–2 WIRE (VFD RATED)
8	LOT	#1 AWG RHW–2 WIRE
9	LOT	#6 AWG RHW–2 WIRE (GND)
10	LOT	#12 AWG RHW–2 WIRE
11	LOT	#2/0 AWG RHW–2 WIRE (VFD RATED)
12	LOT	#2/0 AWG RHW–2 WIRE
13	LOT	250 KCMIL RHW–2 WIRE
14	LOT	3/4" GRS CONDUIT
15	LOT	1" GRS CONDUIT
16	LOT	2" GRS CONDUIT
17	LOT	2" LTFC
18	LOT	2–1/2" GRS CONDUIT
19	LOT	2–1/2" LTFC
20	LOT	4" GRS CONDUIT
21	1	SWBD POWER CIRCUIT BREAKER TO MATCH EXISTING 500AT/800AF

PANEL: CP

MAIN BUS: 100A
480/277 VOLT
ENCLOSURE: NEMA 1

MAIN DEVICE: 50A
3 PHASE, 4 WIRE + GROUND
MOUNTING: SURFACE

NEUTRAL BUS: 100%
RMS AIC: 10,000A
LOCATION: CHILLER ROOM

LOAD DESCRIPTION	LOAD VA	WIRE CKT	WIRE GND	RCWY SIZE	C/B TRIP	C/B PL	CKT NMBR	PHASE KVA A	PHASE KVA B	PHASE KVA C	CKT NMBR	C/B PL	C/B TRIP	RCWY SIZE	WIRE GND	WIRE CKT	LOAD VA	LOAD DESCRIPTION
PANEL CPL TRANSFORMER	–	12	12	3/4"	20	3	1	–			2	3	20	3/4"	12	12	–	IT–2
							3		–		4							
							5			–	6							
AC–1	–	12	12	3/4"	20	3	7	–			8	1	20	3/4"	12	12	–	COLD WATER HEATER
							9		–		10	3	20	3/4"	12	12	–	CP#6 H.T. #7
							11			–	12							
EHU–5	–	12	12	3/4"	20	3	13	–			14	3	20	3/4"	12	12	–	CP#8 H.T. #16
							15		–		16							
							17			–	18							
CP#7 FAN–15	–	12	12	3/4"	20	3	19	–			20	3	20	3/4"	12	12	–	LOAD CENTER(AC–18)
							21		–		22							
							23			–	24							
SPACE	–	–	–	–	–	1	25	–			26							
SPACE	–	–	–	–	–	1	27		–		28	1	–	–	–	–	–	SPACE
SPACE	–	–	–	–	–	1	29			–	30	1	–	–	–	–	–	SPACE

NOTES:

CONNECTED LOAD: – VA
DEMAND LOAD: – VA

GFP A Gannett Fleming/Parsons JOINT VENTURE

STATE OF MARYLAND — UDAYAN KHAN — No. 24687 — 03/29/2018 — PROFESSIONAL ENGINEER

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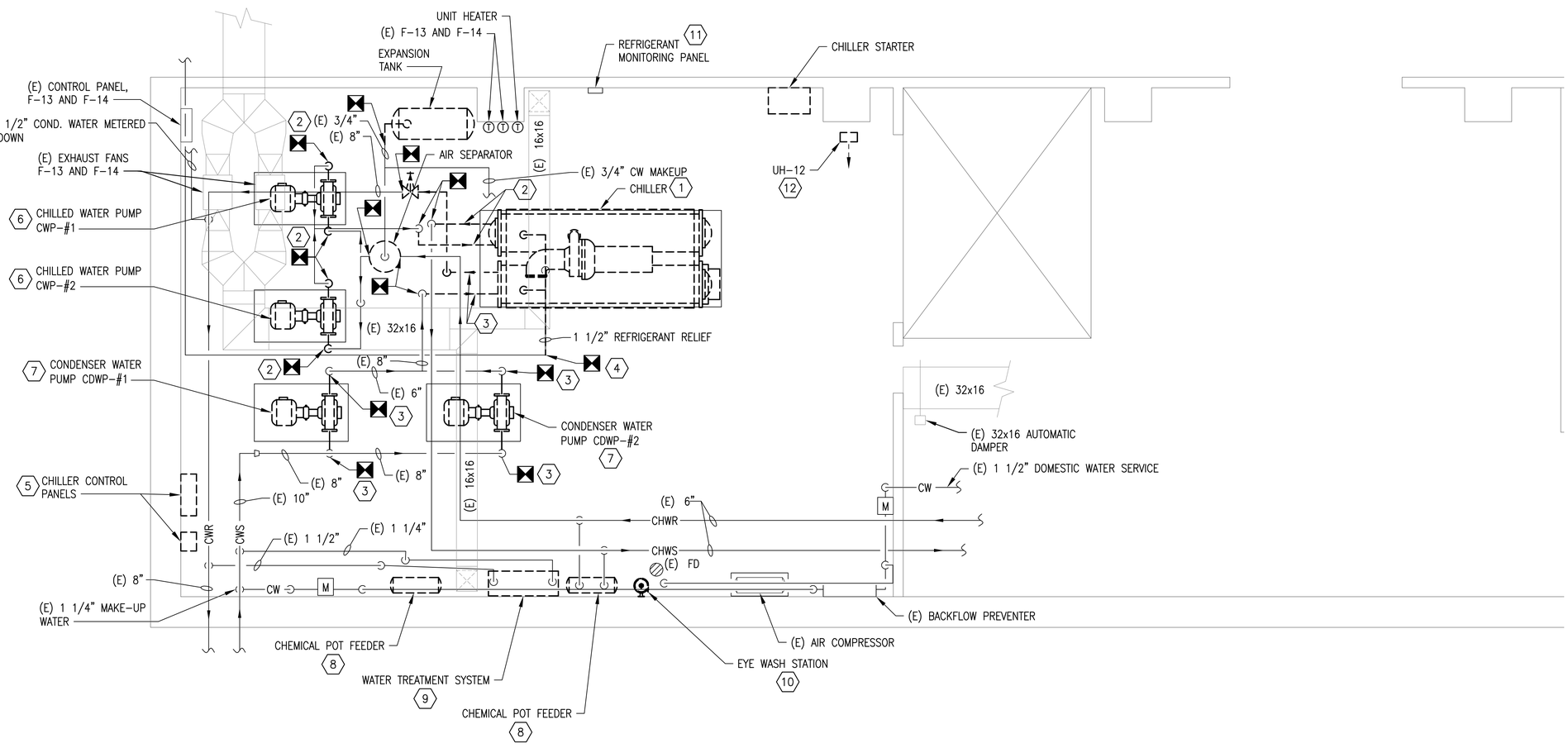
GFP DEPUTY PROGRAM MANAGER

REPLACEMENT OF CHILLERS
AND COOLING TOWER ACCESSORIES AT EIGHT METRO-RAIL STATIONS
CWPA5 - BETHESDA (A09)
ELECTRICAL EQUIPMENT AND PANEL SCHEDULE

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1304	FQ-18102	NONE	CWPA5-E-603	54 of 173



1 MECHANICAL FLOOR PLAN - DEMOLITION
CWPA6-M-100

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

A. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND QUANTITIES OF EQUIPMENT, PIPING, VALVES, DUCTWORK, ELECTRICAL AND CONTROL WIRING PRIOR TO DEMOLITION. ITEMS SHOWN ON THIS PLAN ARE APPROXIMATE.

B. REFER TO LEGEND SHEET FOR GENERAL ABBREVIATIONS AND SYMBOLS.

KEYNOTES:

1. REMOVE AND DISPOSE OF CHILLER, CHILLER SUPPORT, STARTER, WIRING, CONDUIT, JUNCTION AND PULL BOXES DISCONNECT, AEMS SENSORS, AND CONTROLS. REMOVAL SHALL INCLUDE R-134a EVACUATION BY A CERTIFIED COMPANY. RECOVERED REFRIGERANT SHALL BE CLEANED AND THEN BE RETURNED TO WMATA PLANT MAINTENANCE IN 125 POUND CONTAINERS.
2. REMOVE AND DISPOSE OF CHILLED WATER PIPING (CHWS, CHWR), INSULATION, SUPPORT, TEMPERATURE AND PRESSURE GAUGES. REMOVE PIPING TO AND FROM CHILLER INCLUDING ISOLATION VALVES. EXACT DEMOLITION POINT SHALL BE FIELD COORDINATED BY CONTRACTOR TO ACCOMMODATE NEW PIPING CONNECTIONS.
3. REMOVE AND DISPOSE OF CONDENSER WATER PIPING (CWR, CWS), TEMPERATURE AND PRESSURE GAUGES. REMOVE CONDENSER WATER SUPPLY PIPING FROM THE CHILLER UP TO AND INCLUDING THE ISOLATION VALVE. REMOVE CONDENSER WATER RETURN PIPING FROM VERTICAL ELBOW TO CHILLER. EXACT DEMOLITION POINT SHALL BE FIELD COORDINATED BY CONTRACTOR TO ACCOMMODATE NEW PIPING CONNECTIONS.
4. REMOVE EXISTING 1½" REFRIGERANT RELIEF (VENT) PIPING TO EXTENT SHOWN.
5. REMOVE AND DISPOSE OF CHILLER CONTROL PANEL.
6. REMOVE AND DISPOSE OF CHILLED WATER PUMPS CWP-1 AND CWP-2. REMOVE PIPING AND VALVES INCLUDING THE ISOLATION VALVES, STRAINERS, CHECK VALVES AND BALANCING VALVES UP TO THE PIPE CONNECTION FLANGES. REMOVAL SHALL INCLUDE PUMP, MOTOR, AND CONTROL WIRING. EXISTING VIBRATION SUPPORT, INERTIA PAD, AND EQUIPMENT PAD TO REMAIN.
7. REMOVE AND DISPOSE OF CONDENSER WATER PUMPS CDWP-1 AND CDWP-2. REMOVE PIPING AND VALVES INCLUDING THE ISOLATION VALVES, STRAINERS, CHECK VALVES AND BALANCING VALVES UP TO THE PIPE CONNECTION FLANGES. REMOVAL SHALL INCLUDE PUMP, MOTOR, AND CONTROL WIRING. EXISTING VIBRATION SUPPORT, INERTIA PAD, AND EQUIPMENT PAD TO REMAIN.
8. REMOVE AND DISPOSE OF CHEMICAL POT FEEDER & ACCESSORIES FOR CHILLED WATER AND CONDENSER WATER SYSTEM.
9. REMOVE AND DISPOSE OF EXISTING CONDENSER WATER TREATMENT SYSTEM INCLUDING VALVES, PIPING, SUPPORTS, CHEMICAL DRUMS, METERING PUMPS, AND RELATED ELECTRICAL/CONTROL ACCESSORIES.
10. REMOVE AND DISPOSE OF EYEWASH STATION. CAP DOMESTIC WATER PIPING. COORDINATE WITH NEW WORK PLAN.
11. EXISTING REFRIGERANT MONITORING PANEL SHOWN HERE FOR REFERENCE. COORDINATE WITH WMATA CONTRACT FQ14114.
12. REMOVE EXISTING UNIT HEATER AND ASSOCIATED CONTROLS. HANGERS CAN REMAIN AND BE RE-USED. SEE NEW WORK PLAN.

GFP A Gannett Fleming/Parsons JOINT VENTURE

STATE OF MARYLAND MICHAEL J. MCDONNELL 30749 PROFESSIONAL ENGINEER
03/29/2018

State of Maryland Professional Certification. I hereby certify that these documents were prepared or **approved** by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 030749, Expiration Date: 06/27/2018

DESIGNED	M. MCDONNELL	01/26/18 DATE
DRAWN	M. MCDONNELL	01/26/18 DATE
CHECKED	D. GHOSAL	03/23/18 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION
03/30/2018	0	FINAL CONTRACT DRAWINGS

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM GROUP

APPROVED Mark H. Magnussen 03/2018
MARK MAGNUSSEN
MANAGER, ENV. PLANNING AND COMP
DATE

APPROVED 03/2018
GRAHAM SPILLER
GFP DEPUTY PROGRAM MANAGER
DATE

REPLACEMENT OF CHILLERS
AND COOLING TOWER ACCESSORIES AT EIGHT METRO-RAIL STATIONS
CWPA6 - MEDICAL CENTER (A10)
MECHANICAL PLAN - DEMOLITION

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1304	FQ-18102	1/4" = 1'-0"	CWPA6-M-100	55 of 173