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ON  
DMG

HYDRONIC MAKE-UP AIR UNITS																			
UNIT	LOCATION	AREA SERVED	SUPPLY FAN			SUPPLY FAN MOTOR		HEATING COIL					FILTERS	ELECTRICAL				MANUFACTURER MODEL #	NOTES
								AIR SIDE		WATER SIDE									
			CFM	TYPE	BHP	HP	TYPE	EAT (F)	PD (IN WC)	EWT (F)	GPM	TYPE		VOLTS	PHASE	HZ			
			RPM	DISCH.	ESP	RPM	DRIVE	LAT (F)		LWT (F)	PD (FT)								
MAU-2	HVAC MEZZANINE	BOILER ROOM	2300 672	FC VERT.	0.584 —	0.75 —	ODP BELT	13 83.29	0.12	180 160	18.82 1.59	175.32	ANGLE	460	3	90	TRANE LPCAB06F	1,3,4,6	
MAU-5	SLUDGE HANDLING	SLUDGE HANDLING	10000 642	FC HORIZ.	5.567 —	7.5 —	XP BELT	13 79.70	0.22	180 160	77.6 6.92	723.41	ANGLE	460	3	60	TRANE LPCAA17F	1,2,3,4,5,7	
MAU-6	HEADWORKS	HEADWORKS	7500 725	FC HORIZ.	3.684 —	7.5 —	XP BELT	13 84.07	0.18	180 160	62.05 5.37	578.06	ANGLE	460	3	60	TRANE LPCAA14F	1,2,3,4,5,7	

- NOTES:
- SEE SPECIFICATION SECTION 15855.
  - PROVIDE COATINGS AS SCHEDULED IN SECTION 15500.
  - PROVIDE DIFFERENTIAL PRESSURE SENSORS ACROSS FILTERS.
  - PROVIDE UNIT MOUNTED DISCONNECT SWITCH.
  - PROVIDE A VARIABLE FREQUENCY DRIVE AS SPECIFIED IN SECTION 01174 AND LOCATE IN ELECTRICAL ROOM NO. 3.

- PROVIDE UNIT MOUNTED CONTROLLER W/ LCD SCREEN.
- CONTROLLER MOUNTED IN LOCAL ATC PANEL.

FANS															
FAN	LOCATION	AREA SERVED	CONFIGURATION	FAN					MOTOR					MANUFACTURER MODEL #	NOTES
				TYPE	DIAMETER	CFM	RPM	BHP	HP	TYPE	ELECTRICAL				
				ROTATION	ARRANGMENT	(HI)	(HI)	ESP (IN WC)	RPM	DRIVE	VOLTS	PHASE	HZ		
				DISCHARGE	CLASS	(LOW)	(LOW)								
EF-1	FILTER ROOM	FILTER ROOM	WALL	PROP —	24.0 —	3250 —	603 —	0.15 0.1	1/4 1725	TEFC BELT	120	1	60	GREENHECK SBCE-3L24-4	1,2,3
EF-2	FILTER ROOM	FILTER ROOM	WALL	PROP —	24.0 —	3250 —	603 —	0.15 0.1	1/4 1725	TEFC BELT	120	1	60	GREENHECK SBCE-3L24-4	1,2,3
EF-3	FILTER ROOM	FILTER ROOM	WALL	PROP —	36.0 —	8500 —	591 —	0.38 0.1	1/2 1725	TEFC BELT	460	3	60	GREENHECK SBCE-3H36-5	1,2,3
EF-4	CHEMICAL STORAGE	CHEMICAL STORAGE	INLINE	CENTRIFUGAL —	13.5 —	1600 —	1363 —	0.36 0.50	1/2 1725	TEFC BELT	460	3	60	LOREN COOK 135SQIB	1,2
EF-5	STORAGE MEZZANINE	STORAGE MEZZANINE	WALL	PROP —	20.0 —	2000 —	782 —	0.216 0.20	1/3 1050	TEFC DIRECT	120	1	60	LOREN COOK 20S10D	1,2,3
EF-6	STORAGE MEZZANINE	STORAGE MEZZANINE	WALL	PROP —	20.0 —	2000 —	782 —	0.216 0.2	1/3 1050	TEFC DIRECT	120	1	60	LOREN COOK 20S10D	1,2,3
EF-7	STORAGE MEZZANINE	STORAGE MEZZANINE	WALL	PROP —	20.0 —	2000 —	782 —	0.216 0.2	1/3 1050	TEFC DIRECT	120	1	60	LOREN COOK 20S10D	1,2,3
EF-8	BLOWER ROOM	BLOWER ROOM	WALL	PROP —	20.0 —	2500 —	846 —	0.27 0.2	1/3 1050	TEFC DIRECT	120	1	60	LOREN COOK 20S10D	1,2,3
EF-9	BLOWER ROOM	BLOWER ROOM	WALL	PROP —	20.0 —	2500 —	846 —	0.27 0.2	1/3 1050	TEFC DIRECT	120	1	60	LOREN COOK 201S10D	1,2,3
EF-10	BLOWER ROOM	BLOWER ROOM	WALL	PROP —	20.0 —	2500 —	846 —	0.27 0.2	1/3 1050	TEFC DIRECT	120	3	60	LOREN COOK 20S10D	1,2,3
EF-11	LABORATORY	LABORATORY	INLINE	CENTRIFUGAL —	15.0 —	1650 —	1585 —	0.60 1.0	3/4 1725	TEFC BELT	460	3	60	M.K. PLASTICS AXCL 1500	1,2
EF-12	STORAGE MEZZANINE	TOILETS	INLINE	CENTRIFUGAL —	12.0 —	790 —	1179 —	0.129 0.50	1/6 1140	TEFC BELT	115	1	60	LOREN COOK 120SQN-B	1,2

- NOTES:
- SEE SPECIFICATION SECTION 15860.
  - PROVIDE UNIT MOUNTED DISCONNECT SWITCH.
  - PROVIDE WALL COLLAR, MOTORIZED DISCHARGE SHUTTER, AND INLET GUARD.

GAS FIRED MAKE-UP AIR UNITS																
UNIT	LOCATION	AREA SERVED	SUPPLY FAN		SUPPLY FAN MOTOR		HEATER				FILTERS	ELECTRICAL			MANUFACTURER MODEL #	NOTES
			CFM	BHP	HP	TYPE	FUEL	INPUT MBH	CONTROL	EAT (F)		VOLTS	PHASE	HZ		
			RPM	ESP	RPM	DRIVE	INLET PRESS.	OUTPUT MBH	TURNDOWN	LAT (F)						
MAU-1	FILTER ROOM	FILTER ROOM	15000 940	15.0 3/4	15 1725	TEFC BELT	NATURAL GAS 5" W.C.	500 400	STAGED 16:1	40 65	2" ANGLE	460	3	60	GREENHECK IGX-120-H32	1,2,3,4,5,7
MAU-3	FILTER ROOM	CHEMICAL ROOM	1500 1075	0.5 1/2	1/2 1725	TEFC BELT	NATURAL GAS 5" W.C.	100 80	STAGED 8:1	13 62	2" ANGLE	460	3	60	GREENHECK IG-109-H10	1,2,3,4,6,7
MAU-4	HVAC MEZZANINE	TRUCK BAYS	6000 1050	4.6 3/4	5 1725	TEFC BELT	NATURAL GAS 5" W.C.	400 320	STAGED 8:1	13 62	2" ANGLE	460	3	60	GREENHECK IG-115-H30	1,2,3,4,6,7

- NOTES:
- SEE SPECIFICATION SECTION 15855.
  - PROVIDE TYPE 409 STAINLESS STEEL HEAT EXCHANGER.
  - PROVIDE REMOTE CONTROL PANEL SUPPLIED BY UNIT MANUFACTURER.
  - PROVIDE VERTICAL SEPARATED COMBUSTION CONCENTRIC VENTING KIT.
  - PROVIDE FILTER/MIXING BOX W/ OUTSIDE AND RETURN AIR DAMPERS, MODULATING DAMPER MOTER AND REMOTE POTENTIOMETER.
  - PROVIDE V-BANK FILTER SECTION AND INLET DAMPER.
  - PROVIDE INUDSTRIAL MAKEUP AIR TEMPERATURE CONTROL WITH MANUAL HEATING SWITCH AND ROOM OVERRIDE.

#### RECORD DRAWING

THESE RECORD DRAWINGS HAVE BEEN PREPARED BASED ON A COMBINATION OF INFORMATION PROVIDED BY OTHERS AND BY CDM. THEREFORE, THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF ALL THE INFORMATION. TO THE BEST OF THE ENGINEER'S BELIEF AND KNOWLEDGE, THE INCLUDED RECORD INFORMATION IS REASONABLY ACCURATE.

BY: CAMP DRESSER & McKEE Date: OCTOBER 2008  
CDM

#### WARNING

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3	04/10	JJS			REVISED FOR THE RECORD
2	10/08	EJL	TAL	TAL	REVISED FOR THE RECORD
1	1/08	MM	DF	JJ	CLOUDS INDICATE VALUE ENGINEERING CHANGES
REV. NO.	ISSUE DATE	DRAWN BY	CHECKED BY	APPROVED BY	DESCRIPTION
		DRAFTING		ENGINEERING	
		DRAWINGS WITH ALPHA REVISIONS ARE PRELIMINARY AND SHALL NOT BE USED FOR FINAL DESIGN WORK OR FABRICATION.			



PROJECT NUMBER 0600994



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DESIGNER D. FLAHERTY	DATE 12/06	SCALE AS NOTED	
CHECKER D. WERME	DATE 1/07	TITLE  SCHEDULES I	
ENGINEER D. FLAHERTY	DATE 12/06		
MANAGER J. JACOBS	DATE 4/07	PROJECT WESTERN RAMAPO ADVANCED WASTEWATER TREATMENT PLANT PROJECT	
FILENAME: HPRSH000		CLIENT ROCKLAND COUNTY SEWER DISTRICT No. 1	
CONTRACT NO.	01-H	DWG. NO. H-16	REV A

ON  
OMD

ENERGY RECOVERY UNIT

UNIT	LOCATION	AREA SERVED	OA FAN			OA FAN MOTOR		RA FAN			RA FAN MOTOR		ENERGY RECOVERY					FILTERS	ELECTRICAL					MANUFACTURER MODEL #	NOTES
			CFM	BHP	ESP	HP	TYPE	CFM	BHP	ESP	HP	TYPE	OA		RA		EFFECTIVENESS		TYPE	VOLTS	PHASE	HZ	MCA		
			RPM	CLASS	(IN WC)	RPM	DRIVE	RPM	CLASS	(IN WC)	RPM	DRIVE	EAT (F)	LAT (F)	EAT (F)	LAT (F)	PERCENT								
ERU-1	BLOWER ROOM	BLOWER ROOM	2000 939	0.61 —	0.5	3/4 1725	TEFC BELT	2500 1088	1.18 —	0.25	1.5 1725	TEFC BELT	13	58	70	35	80	2" THICK 30%	460	3	60	6.65	LOREN COOK ERV-2500	SEE BELOW	

NOTES:  
1. PROVIDE RETURN AIR INTAKE HOOD.  
2. UNIT SHALL BE DOUBLE WALL CONSTRUCTION.  
3. PROVIDE FLEXIBLE CONNECTIONS ON ALL DUCT CONNECTIONS.  
4. PROVIDE HEAT RECOVERY WHEEL ROTATION SENSOR AND DIRTY FILTER SENSORS.  
5. PROVIDE UNIT MOUNTED CONTROLLER W/ LCD SCREEN.

SPLIT SYSTEM AIR CONDITIONING UNITS

UNIT	AREA SERVED	EVAPORATOR UNIT — ACU										AIR COOLED CONDENSER — ACC										MFR.	MODEL #	NOTES		
		EVAPORATOR FAN			EVAP. FAN MOTOR		EVAPORATOR COIL			ELECTRICAL		MIN. OUTSIDE AIR (CFM)	WEIGHT (LBS)	NOMINAL CAPACITY (TONS)	AMBIENT TEMP. (°F)		NO. FANS	COMPRESSORS		ELECTRICAL					EER	WEIGHT (LBS)
		CFM	TYPE	BHP	HP	TYPE	EAT DB/WB	SUCTION TEMP.	SENSIBLE (MBH)	V/P/H	MIN. OPERATING TEMP. (°F)				TYPE	TYPE		HP	MCA	V/P/H						
		RPM	DISCH.	ESP (IN WC)	RPM	DRIVE	LAT DB/WB	CIRCUITS	TOTAL (MBH)	REFRIGERANT	MIN. OPERATING TEMP. (°F)				TYPE	TYPE		—	—	—						
ACU-1 ACC-1	ELECTRICAL RM. NO. 1	5200 727	CENT. TOP	1.7 0.5	3 1750	— BELT	80/67 59.8/56.6	45 2	116 170	480/3/60	0	660	15 R-22	105 50	2 PROP	2 SCROLL	7.5	EA.	32.9	480/3/60	9.7	700	TRANE	2TWE180B4 2TTA180B4	1,2,5	
ACU-2 ACC-2	ELECTRICAL RM. NO. 2	2500 622	CENT. FRONT	0.7 0.5	1.5 1725	— BELT	80/67 58.9/55.9	45 1	58.4 86.6	480/3/60	0	316	7.5 R-22	105 50	1 PROP	1 SCROLL	7.5	—	18.1	480/3/60	10.3	350	TRANE	2TWE090A1 2TTA090A4	1,2,3,4	
ACU-3 ACC-3	ELECTRICAL RM. NO. 3	1400 727	CENT. TOP	— 0.4	0.5 1050	— DIRECT	80/67 60/57.4	45 1	29.8 41.0	230/1/60	0	150	3.5 R-22	105 0	1 PROP	1 SCROLL	—	—	13	230/3/60	13	225	TRANE	2TEC3F42B 2TTA3042A3	1,2,3,4	

NOTES:  
1. SEE SPECIFICATION SECTION 15855.  
2. PROVIDE DIFFERENTIAL PRESSURE SENSORS ACROSS FILTERS, PRESSURE INDICATOR SHALL BE UNIT MOUNTED.  
3. PROVIDE ANTI-SHORT CYCLE TIMER, EVAPORATOR DEFROST CONTROL, RUBBER ISOLATORS AND HARD START KIT.  
4. PROVIDE MANUFACTURER SUPPLIED SPACE THERMOSTAT.  
5. PROVIDE RELIATEL MICROPROCESSOR CONTROLS WITH SPACE THERMOSTAT.

UNIT HEATERS — HOT WATER/GLYCOL

UNIT	AREA SERVED	CAPACITY (MBH)	AIR		WATER			FAN					ELECTRICAL			MANUFACTURER MODEL #	NOTES
			FLOW (CFM)	ENT/LVG (F)	ENT/LVG (F)	FLOW (GPM)	PD (FT H2O)	TYPE	DISCHARGE	HP	RPM	MOTOR ENCLOSURE	VOLTS	PHASE	HZ		
UH-12	MECHANICAL ROOM	10	340	60/87.0	180/160	1.09	0.5	PROP	HORIZ.	1/60	1550	TEFC	120	1	60	MODINE HC-18	1,2,4
UH-14	BOILER ROOM	10	340	60/87.0	180/160	1.09	0.5	PROP	HORIZ.	1/60	1550	TEFC	120	1	60	MODINE HC-18	1,2,4
UH-15	STORAGE ROOM	10	340	60/87.0	180/160	1.09	0.5	PROP	HORIZ.	1/60	1550	TEFC	120	1	60	MODINE HC-18	1,2,4
UH-17	LARGE PARTS STORAGE	10	340	60/87.0	180/160	1.09	0.5	PROP	HORIZ.	1/60	1550	TEFC	120	1	60	MODINE HC-18	1,2,4
UH-21	BLOWER ROOM	20	730	60/85.1	180/160	2.17	0.4	PROP	HORIZ.	1/12	1550	TEFC	120	1	60	MODINE HC-47	1,2,4
UH-22	BLOWER ROOM	20	730	60/85.1	180/160	2.17	0.4	PROP	HORIZ.	1/12	1550	TEFC	120	1	60	MODINE HC-47	1,2,4
UH-23	SLUDGE TRUCK BAY	29	1100	60/84.2	180/160	3.30	0.21	PROP	HORIZ.	1/8	1550	XP	120	1	60	TRANE 70-S	1,2,3,4,5
UH-24	HEADWORKS	29	1100	60/84.2	180/160	3.30	0.21	PROP	HORIZ.	1/8	1550	XP	120	1	60	TRANE 70-S	1,2,3,4,5
UH-25	HEADWORKS	29	1100	60/84.2	180/160	3.30	0.21	PROP	HORIZ.	1/8	1550	XP	120	1	60	TRANE 70-S	1,2,3,4,5
UH-26	SLUDGE TRUCK BAY	42	1200	60/92.3	180/160	4.67	0.4	PROP	VERT.	1/6	1150	XP	120	1	60	TRANE 102-P	1,2,3,4,5
UH-27	SLUDGE TRUCK BAY	29	1100	60/84.2	180/160	3.30	0.21	PROP	HORIZ.	1/8	1550	XP	120	1	60	TRANE 70-S	1,2,3,4,5
UH-28	SLUDGE TRUCK BAY	29	1100	60/84.2	180/160	3.30	0.21	PROP	HORIZ.	1/8	1550	XP	120	1	60	TRANE 70-S	1,2,3,4,5
UH-29	HEADWORKS	29	1100	60/84.2	180/160	3.30	0.21	PROP	HORIZ.	1/8	1550	XP	120	1	60	TRANE 70-S	1,2,3,4,5
UH-30	SLUDGE HANDLING	29	1100	60/84.2	180/160	3.30	0.21	PROP	HORIZ.	1/8	1550	XP	120	1	60	TRANE 70-S	1,2,3,4,5
UH-31	SLUDGE HANDLING	29	1100	60/84.2	180/160	3.30	0.21	PROP	HORIZ.	1/8	1550	XP	120	1	60	TRANE 70-S	1,2,3,4,5
UH-32	MAINTENANCE OFFICE	10	340	60/87.0	180/160	1.09	0.5	PROP	HORIZ.	1/60	1550	TEFC	120	1	60	MODINE HC-18	1,2,4

NOTES:  
1. SEE SPECIFICATION SECTION 15550.  
2. PROVIDE UNIT WITH MANUFACTURER'S STANDARD CORROSION RESISTANT COATING.  
3. HEATING COILS SHALL BE CONSTRUCTED OF 0.049" THICK CUPRO-NICKEL TUBES AND ALUMINUM FINS.  
4. PROVIDE AND MOUNT WALL THERMOSTAT TO BE WIRED BY ELECTRICAL CONTRACTOR.  
5. PROVIDE OSHA FAN GUARD.

UNIT HEATERS — ELECTRIC

UNIT	AREA SERVED	CAPACITY (KW)	AIR		FAN			ELECTRICAL			MANUFACTURER MODEL #	NOTES		
			FLOW (CFM)	ENT/LVG (F)	TYPE	DISCHARGE	HP	RPM	MOTOR ENCLOSURE	VOLTS			PHASE	HZ
EUH-1	ELECTRIC RM. 1	7.5	850	60/88	PROP	HORIZ.	1/15	1725	TEFC	480	3	60	CHROMALOX LUH-07-43-32	1,2,3
EUH-2	ELECTRIC RM. 2	4.0	380	60/93	PROP	HORIZ.	1/35	1550	TEFC	480	3	60	CHROMALOX KUH-04-43-32	1,2,3
EUH-3	ELECTRIC RM. 3	4.0	380	60/93	PROP	HORIZ.	1/35	1550	TEFC	480	3	60	CHROMALOX KUH-04-43-32	1,2,3
EUH-4	CHEMICAL ROOM	7.5	590	60/97	PROP	HORIZ.	1/15	1050	TEFC	480	3	60	CHROMALOX HD3D-750	1,2,3
EUH-5	CHEMICAL ROOM	7.5	590	60/97	PROP	HORIZ.	1/15	1050	TEFC	480	3	60	CHROMALOX HD3D-750	1,2,3

NOTES:  
1. PROVIDE MFR'S UNIT MOUNTED THERMOSTAT AND CONTROLS.  
2. SEE SPECIFICATION SECTION 15550.  
3. PROVIDE UNIT MOUNTED DISCONNECT SWITCH.

UNIT HEATERS — GAS

UNIT	AREA SERVED	INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)	AIR		FAN			ELECTRICAL			MANUFACTURER MODEL #	NOTES		
				FLOW (CFM)	TEMP RISE (F)	TYPE	DISCHARGE	HP	RPM	MOTOR ENCLOSURE	VOLTS			PHASE	HZ
GUH-1	FILTER ROOM	60.0	49.8	769	60	PROP	HORIZ.	0.06	1550	TEFC	120	1	60	REZNOR UDAS-60	1,2,3
GUH-2	FILTER ROOM	125.0	99.6	1537	60	PROP	HORIZ.	0.25	1050	TEFC	120	1	60	REZNOR UDAS-125	1,2,3
GUH-3	FILTER ROOM	125.0	99.6	1537	60	PROP	HORIZ.	0.25	1050	TEFC	120	1	60	REZNOR UDAS-125	1,2,3
GUH-4	FILTER ROOM	125.0	99.6	1537	60	PROP	HORIZ.	0.25	1050	TEFC	120	1	60	REZNOR UDAS-125	1,2,3
GUH-5	FILTER ROOM	125.0	99.6	1537	60	PROP	HORIZ.	0.25	1050	TEFC	120	1	60	REZNOR UDAS-125	1,2,3
GUH-6	FILTER ROOM	60.0	49.8	769	60	PROP	HORIZ.	0.06	1550	TEFC	120	1	60	REZNOR UDAS-60	1,2,3
GUH-7	STORAGE MEZZANINE	45.0	37.4	629	55	PROP	HORIZ.	0.06	1550	TEFC	120	1	60	REZNOR UDAS-45	1,2,3
GUH-8	STORAGE MEZZANINE	45.0	37.4	629	55	PROP	HORIZ.	0.06	1550	TEFC	120	1	60	REZNOR UDAS-45	1,2,3
GUH-9	VEHICLE GARAGE	45.0	37.4	629	55	PROP	HORIZ.	0.06	1550	TEFC	120	1	60	REZNOR UDAS-45	1,2,3
GUH-10	VEHICLE GARAGE	45.0	37.4	629	55	PROP	HORIZ.	0.06	1550	TEFC	120	1	60	REZNOR UDAS-45	1,2,3
GUH-11	VEHICLE GARAGE	45.0	37.4	629	55	PROP	HORIZ.	0.06	1550	TEFC	120	1	60	REZNOR UDAS-45	1,2,3

NOTES:  
1. SEE SPECIFICATION SECTION 15550.  
2. PROVIDE UNIT WITH MANUFACTURER'S STANDARD CORROSION RESISTANT COATING.  
3. PROVIDE AND MOUNT WALL THERMOSTAT TO BE WIRED BY ELECTRICAL CONTRACTOR.

RECORD DRAWING

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BY: CAMP DRESSER & McKEE Date: OCTOBER 2008

CDM

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1	1/08	MM	DF	JJ	CLOUDS INDICATE VALUE ENGINEERING CHANGES

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NA Water Systems  
PROJECT NUMBER 0000994

CDM  
Camp Dresser & McKee  
consulting  
engineering  
construction  
operations

DESIGNER  
D. FLAHERTY

CHECKER  
D. WERME

ENGINEER  
D. FLAHERTY

MANAGER  
J. JACOBS

DATE  
12/06

DATE  
1/07

DATE  
12/06

DATE  
4/07

SCALE  
AS NOTED

TITLE  
SCHEDULES II

PROJECT  
WESTERN RAMAPO ADVANCED  
WASTEWATER TREATMENT PLANT PROJECT

CLIENT  
ROCKLAND COUNTY SEWER DISTRICT No. 1

FILENAME:  
HPRSH100

CONTRACT NO.  
01-H

DWG. NO.  
H-17

REV  
A

3:30447\48248\REC-DWG\HMAC\ HPRSH100 10/21/08 08:27 larsonej XREFS: BDR2234

