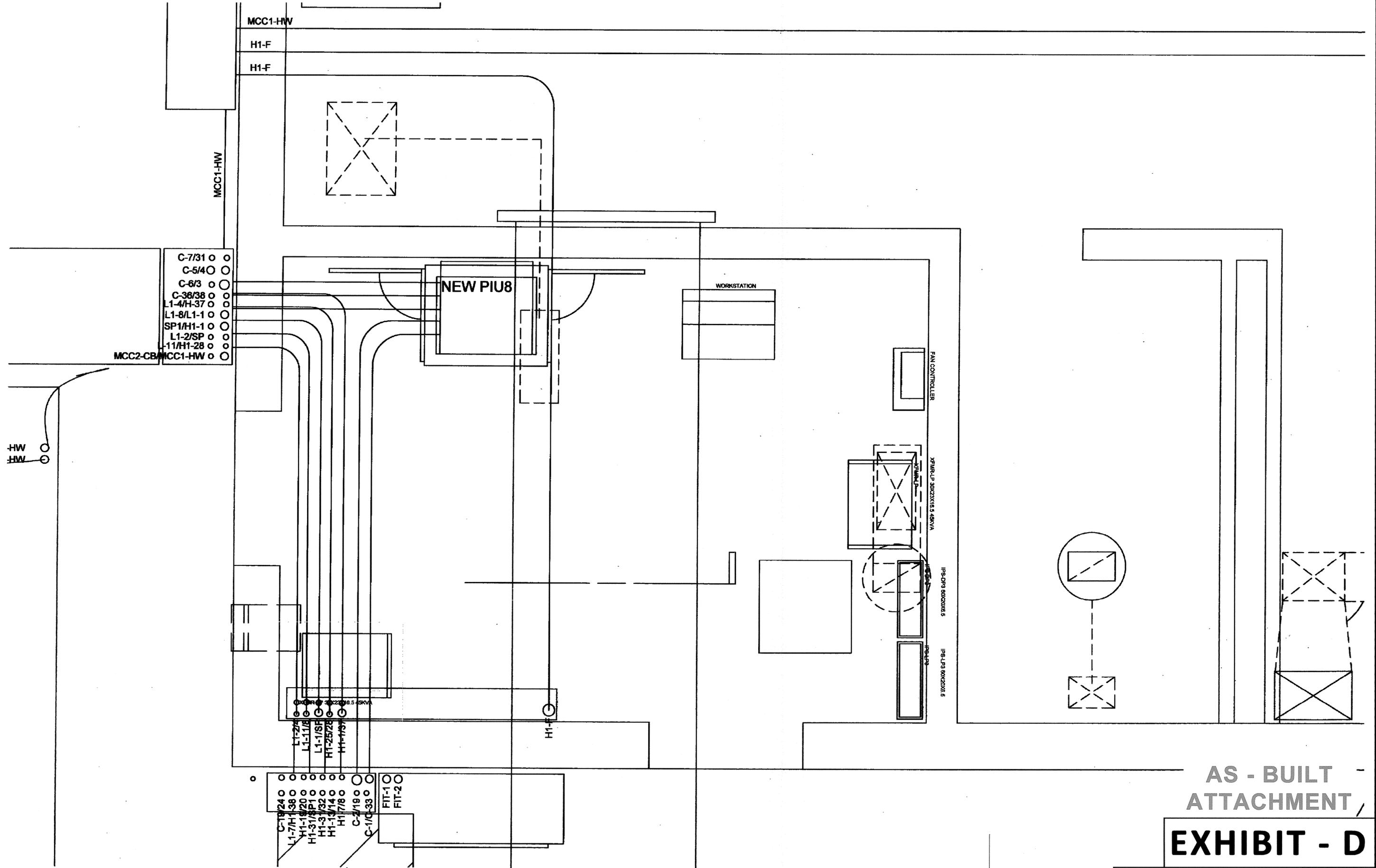








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**AS - BUILT  
ATTACHMENT  
EXHIBIT - D**

LITTLE PATUXENT WRF  
SEPTAGE FACILITY - AS-BUILT  
CONDUIT AND EQUIPMENT - ELECTRICAL ROOM

HERRING ELECTRIC COMPANY  
45681 OAKBROOK COURT, SUITE 106  
DULLES, VA 20166  
703-406-3204  
703-406-3200 FAX  
703-898-0666 SITE

DATE: SEPTEMBER 2013

EXHIBIT E - CONDUIT SCHEDULE

FUNCTION	CONDUIT SOURCE	DESTINATION	CONDUIT ID	SIZE	CONTENTS	CONDUIT LOCATION	AREA
<b>HEADWORKS</b>	<b>HEADWORKS</b>						
MCC-01	Panel H1	Panel H1	HI-F	2-1/2"	3 #3/8, #8G	Headworks	Mechanical Room
MCC-01	Water Heater	MCC1-HW	HI-F	1-1/2"	3 #1/8, #8G	Ductbank	Pump Control Area
1-8070-ME	MCC-02	Conveyor	MCC2-CA	3/4"	3 #12, #12G	Headworks	Screenings Room
1-8070-LCP	MCC-02	Conveyor Controls	MCC2-CB	3/4"	12 #14, #14G	Headworks	Screenings Room
1-8141-VFD	MCC-02	Blower 1	MCC2-B1	1-1/2"	3 #2/0, #8G	Headworks	Blower Room
1-8142-VFD	MCC-02	Blower 2	MCC2-B2	1-1/2"	3 #2/0, #8G	Headworks	Blower Room
<b>Panel H1</b>	<b>PNL H1</b>	<b>PNL H2</b>	<b>HI-1</b>	<b>1-1/2"</b>	<b>3 #4, #10</b>	<b>Headworks</b>	<b>Electric Room</b>
	PNL H1	XFMR L1 (45KVA)	HI-2	1-1/2"	3 #4, #8G	Ductbank	SAP Building
	PNL H1		HI-2	1-1/2"	3 #4, #8G	Headworks	Mechanical Room
1-8083-P	PNL H1	Chopper Pump North Start	HI-7	3/4"	3 #12, #12G	Ductbank	Digester Tank
1-8083-P	PNL H1	Chopper Pump South Start	HI-8	3/4"	3 #12, #12G	Ductbank	Digester Tank
1-8084-MX	PNL H1	Mixer-Digester North Start	HI-13	3/4"	3 #12, #12G	Ductbank	Digester Tank
1-8085-MX	PNL H1	Mixer-Digester South Start	HI-14	3/4"	3 #12, #12G	Ductbank	Digester Tank
1-8092-MX	PNL H1	Mixer-Septage Tank West	HI-19	3/4"	3 #12, #12G	Ductbank	Septage Tank
1-8093-MX	PNL H1	Mixer-Septage Tank East	HI-20	3/4"	3 #12, #12G	Ductbank	Septage Tank
1-8108/8109-VFD	PNL H1	MgOH System	HI-28	3/4"	3 #12, #12G	Ductbank	Pump Control Area
	PNL H1	MgOH Tank-Mixer	HI-38	3/4"	3 #12, #12G	Ductbank	Pump Control Area
1-8081-PV	PNL H1	Outlet Valve-Digester	HI-31	3/4"	3 #12, #12G	Ductbank	Digester Tank
1-8095/8096-SG	PNL H1	Sluice Gates	HI-32	3/4"	3 #12, #12G	Ductbank	Septage Tank
<b>PANEL L1</b>	<b>From Panel H1 via 45KVA XFMR</b>	<b>Panel L1</b>	<b>L1-F</b>	<b>2"</b>	<b>4 #1/0, #8G</b>	<b>Headworks</b>	<b>Electric Room</b>
		Panel L1 (45KVA)	L1-F	2"	4 #1/0, #8G	Headworks	Mechanical Room
	PNL L1	PNL L2	L1-1	1-1/2"	4 #4, #10G	Ductbank	SAP Building
	PNL L1	PNL L3	L1-7	1"	3 #8, #10	Ductbank	Digester Tank
	PNL L1	PNL L4	L1-11	1"	3 #8, #10	Ductbank	Pump Control Area
	PNL L1	Heat Trace-Grease Pumps	L1-2	3/4"	2 #12, #12G	Ductbank	Pump Control Area
1-8097/8098-L	PNL L1	Level-Septage Tank	L1-19	3/4"	2 #12, #12G	Ductbank	Septage Tank
	PNL L4	Heat Trace-MgOH	L4	3/4"	2 #12, #12G	Ductbank	Pump Control Area
	PNL L3	Heat Trace-Bacteria Enclo	L3	3/4"	2 #12, #12G	Ductbank	Digester Tank
<b>Panel H2</b>	<b>From Panel H1</b>	<b>UH-1</b>	<b>H2-1</b>	<b>3/4"</b>	<b>3 #12, #12G</b>	<b>Ductbank</b>	<b>SAP Building</b>
	PNL H2	UH-1	H2-1	3/4"	3 #12, #12G	SAP Building	Interior
	PNL H2	UH-2	H2-2	3/4"	3 #12, #12G	SAP Building	Interior
	PNL H2	EF-1 Controller	H2-7	3/4"	3 #12, #12G	SAP Building	Interior
1-8117-ME	PNL H2	SAP MCP-SCP	H2-8	3/4"	3 #12, #12G	SAP Building	Exterior
1-8099/8100-P	PNL H2	Grease Pump Control Panel	H2-13	3/4"	3 #12, #12G	Ductbank	Pump Control Area
	PNL H2	Grease Outlet Valve	H2-19	3/4"	3 #12, #12G	SAP Building	Interior
1-8169-PV	PNL H2	SAP Grease Valve	H2-14	3/4"	3 #12, #12G	SAP Building	Interior
1-8170-PV	PNL H2	SAP Septage Valve	H2-20	3/4"	3 #12, #12G	SAP Building	Interior
<b>Panel L2</b>	<b>From Panel L1</b>	<b>Air Compressor</b>	<b>L2-5</b>	<b>3/4"</b>	<b>2 #12, #12G</b>	<b>Ductbank</b>	<b>SAP Building</b>
	PNL L2	Gas Detection	L2-9	3/4"	2 #12, #12G	SAP Building	Interior
	PNL L2	Water Heater	L2-11	3/4"	2 #12, #12G	SAP Building	Interior
	PNL L2	UH-3	L2-10	3/4"	2 #12, #12G	SAP Building	Interior
	PNL L2	Lighting-Interior	L2-1	3/4"	2 #12, #12G	SAP Building	Interior
	PNL L2	Lighting-Exterior	L2-3	3/4"	2 #12, #12G	SAP Building	Exterior
	PNL L2	Receptacles	L2-8	3/4"	3 #12, #12G	SAP Building	Exterior
1-8167-FA	PNL L2	Fire Alarm	L2-7	3/4"	3 #12, #12G	SAP Building	Exterior
<b>PIU-8</b>	<b>PIU-8</b>	<b>Septage Tank Pull Box</b>	<b>C-1</b>	<b>1-1/2"</b>	<b>8 #14, #14G</b>	<b>Ductbank</b>	<b>Digester Tank</b>
	PIU-8	Chopper Pump North Start	C-10	3/4"	8 #14, #14G	Ductbank	Digester Tank
	PIU-8	Chopper Pump South Start	C-11	3/4"	8 #14, #14G	Ductbank	Digester Tank
	PIU-8	Mixer-Digester North Start	C-12	3/4"	8 #14, #14G	Ductbank	Digester Tank
	PIU-8	Mixer-Digester South Start	C-13	3/4"	8 #14, #14G	Ductbank	Digester Tank
	PIU-8	Outlet Valve-Digester	C-14	3/4"	10 #14, #14G	Ductbank	Digester Tank
	PIU-8	Mixer-Septage Tank West	C-16	3/4"	8 #14, #14G	Ductbank	Septage Tank
	PIU-8	Mixer-Septage Tank East	C-17	3/4"	8 #14, #14G	Ductbank	Septage Tank
	PIU-8	Sluice Gates-Septage	C-18	1"	24 #14, #14G	Ductbank	Septage Tank
1-8104-LS	PIU-8	MgOH Tank Leak Alarm	C-19	3/4"	4 #14, #14G	Ductbank	Digester Tank
	PIU-8	Septage Tank Pull Box	C-2	2"	10 2/C TSP, #14G	Ductbank	Digester Tank
	PIU-8	LTS-Septages	C20	3/4"	2 2/C TSP, #14G	Ductbank	Septage Tank
	PIU-8	Sluice Gates-Septage	C21	1"	4 2/C TSP, #14G	Ductbank	Digester Tank
	PIU-8	DO/pH-Digester	C22	3/4"	2 2/C TSP, #14G	Ductbank	Digester Tank
	PIU-8	LTI-Digester	C23	3/4"	1 2/C TSP, #14G	Ductbank	Digester Tank
Valves, Level, Gas Detection	PIU-8	SAP Building TC	C-3	2"	76 #14, #14G	Ductbank	SAP Building
Valves, Level, Gas Detection	PIU-8	SAP Building TC	C-4	1-1/2"	9 2/C TSP, #14G	Ductbank	SAP Building
Pump control, tank leak	PIU-8	MgOH System	C-5	3/4"	36 #14, #14G	Ductbank	Pump Control Area
	PIU-8	Eyewash-MgOH	C-35	3/4"	2 #14, #14G	Ductbank	Pump Control Area
Pump speed, tank level	PIU-8	MgOH System	C-6	1-1/2"	8 2/C TSP, #14G	Ductbank	Pump Control Area
1-8103-L	PIU-8	Level-MgOH Tank	C-24	3/4"	1 2/C TSP, #14G	Ductbank	Pump Control Area
	PIU-8	SAP MCP-SCP	C-7	1"	Communication	Ductbank	SAP Building
	PIU-8	Water Heater-MgOH	C30	3/4"	2 #14, #14G	Ductbank	Pump Control Area
	PIU-8	Grease Pump Control Panel	C31	3/4"	6 #14, #14G	Ductbank	Pump Control Area
	PIU-8	Gas Detection	C-36	1"	3 2/C TSP, #14G	SAP Building	Exterior
1-8167-FA	PIU-8	Fire Alarm	C-38	3/4"	3 #12, #12G	SAP Building	Exterior
	PIU-8	Conveyor-(MCC02)	Existing	2"	10 #14, #14G	Headworks	Screenings Room
	PIU-8	Blower 1	Existing	2"	10 #14, #14G	Headworks	Blower Room
	PIU-8	Blower 1	Existing	2"	2 2/C TSP, #14G	Headworks	Blower Room
	PIU-8	Blower 2	Existing	2"	10 #14, #14G	Headworks	Blower Room
	PIU-8	Blower 2	Existing	2"	2 2/C TSP, #14G	Headworks	Blower Room
1-8169-PV	PIU-8	SAP Grease Valve	C-39	3/4"	4 #14, #14G	SAP Building	Interior
1-8170-PV	PIU-8	SAP Septage Valve	C-40	3/4"	4 #14, #14G	SAP Building	Interior
<b>SAP Main Control Panel</b>	<b>SAP MCP-SCP</b>	<b>RACS-CP1</b>	<b>SAP1</b>	<b>3/4"</b>	<b>8 #14, #14G</b>	<b>SAP Building</b>	<b>Interior</b>
	SAP MCP-SCP	RACS-CP1	SAP2	3/4"	1 CAT5	SAP Building	Interior
	SAP MCP-SCP	RACS-CP2	SAP3	3/4"	8 #14, #14G	SAP Building	Interior
	SAP MCP-SCP	RACS-CP2	SAP4	3/4"	1 CAT5	SAP Building	Interior
	SAP MCP-SCP	Screen Drive	SAP5	3/4"	3 #12, #12G	SAP Building	Interior
	SAP MCP-SCP	LCP	SAP6	1"	10 #14, #14G	SAP Building	Interior
	SAP MCP-SCP	LTI-1	SAP7	3/4"	2 #12, #12G	SAP Building	Interior
	SAP MCP-SCP	LTI-1	SAP8	3/4"	1 2/C TSP, #14G	SAP Building	Interior
	SAP MCP-SCP	Tank Lid Limit Switch	SAP9	3/4"	4 #14, #14G	SAP Building	Interior
	SAP MCP-SCP	Screen SV	SAP10	3/4"	1 2/C TSP, #14G	SAP Building	Interior
	SAP MCP-SCP	Screen Drive ZS	SAP11	3/4"	1 2/C TSP, #14G	SAP Building	Interior
	PIU-8	LE1/LI2	SAP12	1"	2 #16C	SAP Building	Interior
1-8169-PV	SAP MCP-SCP	SAP Grease Valve	C-30	3/4"	4 #14, #14G	SAP Building	Interior
1-8170-PV	SAP MCP-SCP	SAP Septage Valve	C-30	3/4"	4 #14, #14G	SAP Building	Interior
	RACS-CP1	Flow Meter	CP1-1	3/4"	2 #12, #12G	SAP Building	Interior
	RACS-CP1	Flow Meter	CP1-2	3/4"	1 2/C TSP, #14G	SAP Building	Interior
	RACS-CP1	Inlet Line SV	CP1-3	3/4"	4 #14, #14G	SAP Building	Interior
	RACS-CP1	Inlet Line PS/H	CP1-4	3/4"	4 #14, #14G	SAP Building	Interior
	RACS-CP2	Flow Meter	CP2-1	3/4"	2 #12, #12G	SAP Building	Interior
	RACS-CP2	Flow Meter	CP2-2	3/4"	1 2/C TSP, #14G	SAP Building	Interior
	RACS-CP2	Inlet Line SV	CP2-3	3/4"	4 #14, #14G	SAP Building	Interior
	RACS-CP2	Inlet Line PS/H	CP2-4	3/4"	4 #14, #14G	SAP Building	Interior
<b>Misc.</b>	<b>PNL L3</b>	<b>DO/pH-Digester</b>	<b>L3-9</b>	<b>3/4"</b>	<b>2 #12, #12G</b>	<b>-</b>	<b>Digester Tank</b>
1-8088/8089-M	PNL L3	LTI-Digester	L3-12	3/4"	2 #12, #12G	-	Digester Tank

EXHIBIT F - SEPTAGE FIELD

LOCATION	TB/C/D	TERM	WIRE #	TB	TERM	SHIELD#	LOCATION	FUNCTION	
Septage Acceptance Plant Control Panel	237A		237A				SAP Local Control Station	120V LCP Common	
Accessance Plant Control Panel	I:002		I:002					Screen Mode Hand	
SAP CP	I:003		I:003					Screen Mode Auto	
Located North Side SAP Building	I:004		I:004					Jog Forward	
	I:005		I:005					Jog Reverse	
	I:006		I:006					Wash Mode Hand	
	I:007		I:007					Wash Mode Auto	
	I:001		I:001					Reset/Cycle Start	
	239A		239A					E-Stop	
	239		239						
	237A	237A		Relay R5	1		Grease Pump Station (Flygt)	HighWater Alarm	
	I:103		I:103						
	237A	237A			P1		Screwpacker Motor	Temp Switch at Motor	
	I:109		I:109		P2				
	243A	243A			C		Screwpacker Motor	Auxiliary Contact in Disconnect Switch	
	243B	243B			NO				
	O:004	O:004			X1		SAP Solenoid	TankWash	
	233	233			X2		Wash Manifold	Lower Wash	
	O:001	O:001			X1			Screenings Wash	
	233	233			X2			Dewatering Wash	
	O:002	O:002			X1				
	233	233			X2				
	O:003	O:003			X1				
	233	233			X2				
	237A	237A			L1		SAP Tank Level Transmitter	120V Power	
	233	233			L2				
	I:04	wht			25			Tank Level Signal	
	301	blk			24				
	GRD	sh							
	328A	328A			C		SAP Tank Lid Safety Switch	Home Switch	
	328B	328B			NO				
	329A	329A			C			Lid Switch	
	329B	329B			NO				
<b>SAP CP / OPS CP INTERCONNECTION</b>	<b>LOCATION</b>	<b>TB/C/D</b>	<b>TERM</b>	<b>WIRE #</b>	<b>TB</b>	<b>TERM</b>	<b>SHIELD#</b>	<b>LOCATION</b>	<b>FUNCTION</b>
SAP CP	345A		345A			1008A		Operator Interface Control Panel 1	Emergency Stop
	345B		345B			1008B		CP-1	SAP-CP
	241A		241A			1146A			Emergency Stop
	241B		241B			1146B			CP-SAP
	235		235			CB101			120V Power
	233		233			233/1002			
SAP CP	346A		346A			1406A		Operator Interface Control Panel 1	Emergency Stop
	346B		346B			1406B		CP-2	SAP OK
	241B		241B			1546A			
	243A		243A			1546B			120V Power

### MCC-02 BLOWER ROOM

LOCATION	TB/CD	TERM	WIRE #	TB	TERM	SHIELD#	LOCATION	FUNCTION
D1-3	D31	D11	11 HB				Main Sewage Pump #1 1RSP1	Running
D1-1	D11	D11	5 HB				Main Sewage Pump #2 1RSP2	Running
D1-1	D11	D11	1 HB				Main Sewage Pump #4 1RSP4	Running
D1-1	D11	D11	3 HB				Main Sewage Pump #5 1RSP5	Running
D1-2	D22	D22	26 HB				Main Sewage Pump #3 1RSP3	Running
D1-2	D22	D22	27 HB				Main Sewage Pump #6 1RSP6	Running
D3-3	D32	D32	18 HB				MSP Control 1RSPWSEL	Wellwell Selcd
D3-3	D32	D32	19 HB				MSP Control 1RSPWSEL	Lead Variable
DO-1	C	1 NDA	1				MSP Step 1 1RSP1RSC	On/Off
DO-1	C	2 NDA	2				MSP Step 2 1RSP2RSC	On/Off
DO-1	C	3 NDA	3				MSP Step 3 1RSP3RSC	On/Off
DO-1	C	4 NDA	4				MSP 4 1RSP4RSC	On/Off
DO-1	C	5 NDA	5				MSP 5 Variable 1RSP5RSC	On/Off
DO-1	C	6 NDA	6				MSP 6 Variable 1RSP6RSC	On/Off
D1-1	D11	D11	6 HB				MCC2 Main Breaker 1 1OC2MB1	Closed
D1-1	D11	D11	9 HB				MCC2 Feeder 1 Vols 12CF21	Status?
D1-1	D11	D11	7 HB				MCC2 Tie Breaker 1OC2TB	Closed
D1-1	D11	D11	8 HB				MCC2 Main Breaker 2 1OC2MB2	Closed
D1-1	D11	D11	2 HB				MCC2 Feeder 2 Vols 12CF22	Status?
D1-2	D22	D22	3 HB				PCI Collector 1PCD1	Running
D1-3	D31	D31	9 HB				Cooling Fan #1 BLWR 1RSP3CF1	Running
D1-3	D31	D31	10 HB				Cooling Fan #3 BLWR 1RSP3CF3	Running
D1-1	D11	D11	2 HB				Cooling Fan #2 BLWR 1RSP3CF2	Running
D1-1	D11	D11	4 HB				Exhaust Fan #2 BLWR 1RSP3EF2	Running
D1-2	D22	D22	22 HB				Exhaust Fan #1 BLWR 1RSP3EF1	Running
D1-2	D22	D22	31 HB				Exhaust Fan #1 MSPS 1AFEF1	Running
D1-2	D22	D22	32 HB				Exhaust Fan #2 MSPS 1AFEF2	Running
D1-2	D22	D22	28 HB				MSP Drywell Sump 1MSPDRYWELL	High Level Alarm
D1-2	D22	D22	30 HB				FEB Return Vault Sump 1ALLRMC3	High Level Alarm
D1-3	D31	D31	2 HB				MSP WWV Hydrocarbons 1VHCWW	Alarm Condition
D1-3	D31	D31	1 HB				Air Handler 1AFAMU	Fail
DO-1	C	7 NDA	7				ECANS Alarm	Alarm State

### MCC-03 BLOWER ROOM

LOCATION	TB/CD	TERM	WIRE #	TB	TERM	SHIELD#	LOCATION	FUNCTION
D1-1	D11	D11	11 HB				HW Blower #2 2BPS1BL2	Running
D1-1	D11	D11	12 HB				HW Blower #3 2BPS1BL3	Running
D1-1	D11	D11	14 HB				EWPR Blower #4 1ABPS1BL4	Running
D1-1	D11	D11	14 HB				EWPR Blower #5 1ABPS1BL5	Running
D1-1	D11	D11	15 HB				HW Blower #6 1ABPS1BL6	Running
D1-2	D22	D22	29 HB				HW Blower #1 2BPS1AB1	Running
D1-3	D31	D31	12 HB				EWPR Blower #4 1BPS1AB4	Unknown
D1-3	D31	D31	13 HB				EWPR Blower #5 1BPS1AB5	Unknown
D1-3	D31	D31	14 HB				HW Blower #2 2BPS1AB2	Running
D1-3	D31	D31	15 HB				EWPR Blower #6 1BPS1AB6	Running
D1-3	D31	D31	16 HB				HW Blower #3 1BPS1AB3	Running
D1-1	D11	D11	16 HB				MCC3 SW1 Fuse 1OC3MS1	Blown Fuse
D1-1	D12	D12	18 HB				MCC3 SW-Tie Fuse 1OC3T1	Blown Fuse
D1-1	D12	D12	17 HB				MCC3 SW2 Fuse 1OC3MS2	Blown Fuse

### MAIN SWITCHGEAR/SUBSTATION

LOCATION	TB/CD	TERM	WIRE #	TB	TERM	SHIELD#	LOCATION	FUNCTION
D1-1	D12	D12	19 HB				13.2KV Main Breaker 1 1OSG1MB1	Closed
D1-1	D12	D12	26 HB				15.2KV Feeder 1 Vols 1NSG1F1	Status?
D1-1	D12	D12	20 HB				15.2KV Tie Breaker 1CSG1TB	Closed
D1-1	D12	D12	21 HB				13.2KV Main Breaker 2 1OSG1MB2	Closed
D1-1	D12	D12	27 HB				13.2KV Feeder 2 Vols 1NSG1F2	Status?
D1-1	D12	D12	22 HB				13.2KV Fdr Bar 1 1OSG1FB1	Blown Fuse
D1-1	D12	D12	23 HB				13.2KV Fdr Bar 2 1OSG1FB2	Blown Fuse
D1-1	D12	D12	24 HB				13.2KV Fdr Bar 3 1OSG1FB3	Blown Fuse
D1-1	D12	D12	25 HB				13.2KV Fdr Bar 4 1OSG1FB4	Blown Fuse
D1-1	D11	D11	28 HB				SS1 Main Breaker 1 1OS1MB1	Closed
D1-2	D21	D21	6 HB				SS1 Main 1 Vols 1NS1F1	Status?
D1-1	D11	D11	30 HB				SS1 Main Breaker 2 1OS1MB2	Closed
D1-2	D21	D21	5 HB				SS1 Main 2 Vols 1NS1F2	Status?
D1-1	D11	D11	31 HB				SS1 Transformer 1 1THS11	High Temperature
D1-1	D11	D11	32 HB				SS1 Transformer 1 1LLS11	Low Oil Level
D1-2	D21	D21	1 HB				SS1 Transformer 1 1RPS1S11	High Oil Pressure
D1-2	D21	D21	2 HB				SS1 Transformer 2 1THS12	High Temperature
D1-2	D21	D21	4 HB				SS1 Transformer 2 1RPS1S12	High Oil Pressure
D1-2	D21	D21	1 HB				PS1 Fuse Man 1 1OP1MS1	Blown Fuse
D1-2	D21	D21	3 HB				PS1 Fuse Man 2 1OP1MS2	Blown Fuse
D1-2	D21	D21	4 HB				PS1 Transformer 1 1THP11	High Temperature
D1-2	D21	D21	6 HB				PS1 Transformer 1 1LLP11	Low Oil Level
D1-2	D21	D21	13 HB				PS1 Transformer 1 1RREP11	High Oil Pressure
D1-2	D21	D21	14 HB				PS1 Transformer 2 1THP12	High Temperature
D1-2	D21	D21	15 HB				PS1 Transformer 2 1LLS12	Low Oil Level
D1-2	D21	D21	16 HB				PS1 Transformer 2 1RPS1S12	High Oil Pressure
D1-2	D22	D22	17 HB				PS1 Main Breaker 1 1OP1MB1	Closed
D1-2	D22	D22	18 HB				PS1 Main Breaker 2 1OP1MB2	Closed
D1-2	D22	D22	21 HB				PS1 Main 1 Vols 1NP1F1	Status?
D1-2	D22	D22	22 HB				PS1 Main 2 Vols 1NP1F2	Status?

### PURIFAX

LOCATION	TB/CD	TERM	WIRE #	TB	TERM	SHIELD#	LOCATION	FUNCTION
D1-3	D31	D31	3 HB				PFX Sludge Pump #1 3SP1F	Running
D1-3	D31	D31	4 HB				PFX Sludge Pump #2 3SP2F	Running
D1-3	D31	D31	5 HB				PFX Sludge Pump #3 3SP3F	Running
D1-3	D31	D31	7 HB				PFX Grinder #1 3SG1F	Running
D1-3	D31	D31	8 HB				PFX Grinder #2 3SG2F	Running
D1-3	D31	D31	8 HB				PFX Grinder #3 3SG3F	Running
D1-3	D32	D32	17 HB				PFX Compressed Air 3CAP	Unknown
D1-2	D21	D21	9 HB				Purifax Chamber 4 3C4LL	High level Alarm
D1-2	D21	D21	10 HB				Purifax Chamber 4 3C4LL	Low level Alarm
D1-2	D21	D21	23 HB				Purifax Chamber 3 3C3LL	High level Alarm
D1-2	D21	D21	24 HB				Purifax Chamber 3 3C3LL	Low level Alarm

### CONVEYOR

LOCATION	TB/CD	TERM	WIRE #	TB	TERM	SHIELD#	LOCATION	FUNCTION
PIU-0	D52	D52	17 HB				Conveyor 01-7630-M	Running
PIU-0	D52	D52	18 HB				Control Panel located in Electrical Room	In Remote/Failed
PIU-0	D52	D52	19 HB				Control Panel located in Electrical Room	Auto Start
PIU-0	D52	D52	20 HB				Control Panel located in Electrical Room	E-Stop
PIU-0	D52	D52	21 HB				Control Panel located in Electrical Room	Loss of Motion
PIU-0	D52	D52	22 HB				Control Panel located in Electrical Room	In Remote

### BAR SCREENS

LOCATION	TB/CD	TERM	WIRE #	TB	TERM	SHIELD#	LOCATION	FUNCTION
PIU-0	D41	D41	2 HB				Bar Screen #1 01-7630-M	Running
PIU-0	D41	D41	3 HB				Control Panel located in Electrical Room	In Auto
PIU-0	D41	D41	4 HB				Control Panel located in Electrical Room	VFD Fail
PIU-0	D41	D41	5 HB				Control Panel located in Electrical Room	Jam/Overload
PIU-0	D41	D41	6 HB				Control Panel located in Electrical Room	E-Stop
PIU-0	D41	D41	7 HB				Control Panel located in Electrical Room	Timer Mode
PIU-0	D41	D41	8 HB				Control Panel located in Electrical Room	Level Mode
PIU-0	D41	D41	9 HB				Control Panel located in Electrical Room	Start
PIU-0	D41	D41	10 NDA				Control Panel located in Electrical Room	Run Forward
PIU-0	D41	D41	10 NDA				Control Panel located in Electrical Room	Run Reverse
AI-2	9 IA	9 IA	15				Bar Screen #1 Upstream LIT	Level Transmitter via Bar Screen Panel LIT
AI-2	10 IA	10 IA	18				Bar Screen #1 Downstream LIT	Level Transmitter via Bar Screen Panel LIT
AI-2	11 IA	11 IA	21				Bar Screen #2 Upstream LIT	Level Transmitter via Bar Screen Panel LIT
AI-2	12 IA	12 IA	24				Bar Screen #2 Downstream LIT	Level Transmitter via Bar Screen Panel LIT
AI-2	13 IA	13 IA	27				Bar Screen #3 Upstream LIT	Level Transmitter via Bar Screen Panel LIT
AI-2	14 IA	14 IA	30				Bar Screen #3 Downstream LIT	Level Transmitter via Bar Screen Panel LIT
AI-2	15 IA	15 IA	33				Bar Screen #4 Upstream LIT	Level Transmitter via Bar Screen Panel LIT
AI-2	16 IA	16 IA	36				Bar Screen #4 Downstream LIT	Level Transmitter via Bar Screen Panel LIT

### EXISTING SIGNALS

LOCATION	TB/CD	TERM	WIRE #	TB	TERM	SHIELD#	LOCATION	FUNCTION
AI-1	1 IA	1 IA	1				PS1 Feeder 1 KWPS11	KW
AI-1	2 IA	2 IA	2				PS1 Feeder 2 KWPS12	KW
AI-1	3 IA	3 IA	3				SS1 Feeder 1 KWSS11	KW
AI-1	4 IA	4 IA	4				SS1 Feeder 2 KWSS12	KW
AI-1	5 IA	5 IA	5				13.2KV Feeder 1 RWCC21	KW
AI-1	6 IA	6 IA	6				13.2KV Feeder 2 RWCC22	KW
AI-1	7 IA	7 IA	7				MCC3 Feeder 1 3SG3F	KW
AI-1	8 IA	8 IA	8				MCC3 Feeder 2 RWCC22	KW
AI-1	12 IA	12 IA	12				FEB #1 Air Flow DARBE1	Flow Indication
AI-1	14 IA	14 IA	14				FEB #3 Level LLEDT3	Level Transmitter
AI-1	16 IA	16 IA	16				Well #1 LIT ELWW1	Level Transmitter
AI-2	1 IA	1 IA	1				Well #2 LIT IWW2	Level Transmitter
AI-2	2 IA	2 IA	2				Influent Channel #1 LIT 1LUC1_NEW	Level Transmitter
AI-2	3 IA	3 IA	3				Influent Channel #2 LIT 1LUC2_NEW	Level Transmitter

### SEPTAGE FACILITY

LOCATION	TB/CD	TERM	WIRE #	TB	TERM	SHIELD#	LOCATION	FUNCTION
PIU-0	D51	D51	6 HB				Septage Mixer #1 1-8086-MX	Running
PIU-0	D51	D51	7 HB				Control Panel located in Electrical Room	High Temperature Leak Detection
PIU-0	D51	D51	8 HB				Control Panel located in Electrical Room	In Auto
PIU-0	D51	D51	9 HB				Control Panel located in Electrical Room	Auto Start
PIU-0	D51	D51	10 NDA				Control Panel located in Electrical Room	Speed Command
DO-1	C	1 NDA	1				Septage Mixer #2 1-8086-MX	Running
DO-1	C	2 NDA	2				Control Panel located in Electrical Room	High Temperature Leak Detection
DO-1	C	3 NDA	3				Control Panel located in Electrical Room	In Auto
DO-1	C	4 NDA	4				Control Panel located in Electrical Room	Auto Start
DO-1								