

CONDUIT AND CABLE SCHEDULE									
CONDUIT		CABLE		PURPOSE	FROM	VIA	TO		REMARKS
NO.	SIZE	QTY.	SIZE						
A1.1	(x2) 4"	4/EA	600MCM	POWER	UTILITY		MDS		
A1.2	(x2) 4"	4/EA	600MCM	POWER	MDS		CT CABINET		
A1.3	(x2) 4"	4/EA	600MCM	POWER	CT CABINET		ATS		
A1.4	(x2) 3"	4/EA	350MCM	POWER	EXISTING GENERATOR CONNECTION FEED		ATS		EX CABLES
A1.5	(x2) 4"	4/EA	600MCM	POWER	ATS		NEW POWER PANEL #1		
A2.1	1"	4	#4	POWER	NEW POWER PANEL #1		EXISTING 45KVA XFMR		
A2.2	1-1/4"	4	#3	POWER	NEW POWER PANEL #1		NEW 37.5KVA XFMR-1		
A2.3	1-1/4"	4	#3	POWER	NEW 37.5KVA XFMR-1	DISCONNECT	NEW LIGHTING PANEL		
A2.4	1-1/4"	4	#3	POWER	NEW 37.5KVA XFMR-1		NEW RECEPTACLE PANEL		
B1.1	3/4"	4	#12	POWER	NEW POWER PANEL #1		EXISTING TRIDENT BLOWER #1 MS		
B1.2	3/4"	4	#12	POWER	NEW POWER PANEL #1		EXISTING TRIDENT BLOWER #2 MS		
B1.3	3/4"	4	#8	POWER	NEW POWER PANEL #1		EXISTING TRIDENT BLOWER #3 MS		
B1.4	3/4"	4	#8	POWER	NEW POWER PANEL #1		EXISTING TRIDENT BLOWER #4 MS		
B2.1	3/4"	1	CAT6	CONTROL	FILTER #1 RIO		MAIN CONTROL PANEL		
B2.2	3/4"	1	CAT6	CONTROL	FILTER #2 RIO		MAIN CONTROL PANEL		
C1.1	1-1/2"	4	#2	POWER	NEW POWER PANEL #1		NEW CLARIFIER BUILDING POWER PANEL		
C1.2	3/4"	4	#8	POWER	NEW CLARIFIER BUILDING POWER PANEL		NEW CLARIFIER BUILDING XFMR		
C1.3	1"	4	#2	POWER	NEW CLARIFIER BUILDING XFMR		NEW CLARIFIER BUILDING LIGHTING PANEL		
C1.4	3/4"	4	#10	POWER	NEW CLARIFIER BUILDING POWER PANEL		NEW TRIDENT HSR CONTROL PANEL		
C1.5	3/4"	1	CAT6	CONTROL	MAIN CONTROL PANEL		NEW TRIDENT HSR CONTROL PANEL		
C1.6	3/4"	3	#12	POWER	NEW CLARIFIER BUILDING LIGHTING PANEL		UNIT A CONTROL PANEL		
C1.7	3/4"	1	CAT6	CONTROL	NEW TRIDENT HSR CONTROL PANEL		UNIT A CONTROL PANEL		
C1.8	3/4"	3	#12	POWER	NEW CLARIFIER BUILDING LIGHTING PANEL		UNIT B CONTROL PANEL		
C1.9	3/4"	1	CAT6	CONTROL	NEW TRIDENT HSR CONTROL PANEL		UNIT B CONTROL PANEL		
C2.1	3/4"	4	#12	POWER	NEW CLARIFIER BUILDING POWER PANEL		CLARIFIER TRANSFER PUMP #1 VFD		
C2.2	3/4"	4	#12	POWER	CLARIFIER TRANSFER PUMP #1 VFD	DISCONNECT	CLARIFIER TRANSFER PUMP #1		
C2.3	3/4"	1	CAT6	CONTROL	UNIT A CONTROL PANEL		CLARIFIER TRANSFER PUMP #1 VFD		
C2.4	3/4"	4	#12	POWER	NEW CLARIFIER BUILDING POWER PANEL		RECIRC PUMP #1 VFD		
C2.5	3/4"	4	#12	POWER	RECIRC PUMP #1 VFD	DISCONNECT	RECIRC PUMP #1		
C2.6	3/4"	1	CAT6	CONTROL	UNIT A CONTROL PANEL		RECIRC PUMP #1 VFD		
C2.7	3/4"	4	#12	POWER	UNIT A CONTROL PANEL	DISCONNECT	CLARIFIER #1 DRIVE UNIT		
C3.1	3/4"	4	#12	POWER	NEW CLARIFIER BUILDING POWER PANEL		CLARIFIER TRANSFER PUMP #2 VFD		
C3.2	3/4"	4	#12	POWER	CLARIFIER TRANSFER PUMP #2 VFD	DISCONNECT	CLARIFIER TRANSFER PUMP #2		
C3.3	3/4"	1	CAT6	CONTROL	UNIT B CONTROL PANEL		CLARIFIER TRANSFER PUMP #2 VFD		
C3.4	3/4"	4	#12	POWER	NEW CLARIFIER BUILDING POWER PANEL		RECIRC PUMP #2 VFD		
C3.5	3/4"	4	#12	POWER	RECIRC PUMP #2 VFD	DISCONNECT	RECIRC PUMP #2		
C3.6	3/4"	1	CAT6	CONTROL	UNIT B CONTROL PANEL		RECIRC PUMP #2 VFD		
C3.7	3/4"	4	#12	POWER	UNIT B CONTROL PANEL	DISCONNECT	CLARIFIER #2 DRIVE UNIT		
C4.1	3/4"	3	#12	POWER	NEW CLARIFIER BUILDING LIGHTING PANEL		INFLUENT ACTUATED VALVE #1		
C4.2	3/4"	8	#14	CONTROL	UNIT A CONTROL PANEL		INFLUENT ACTUATED VALVE #1		
C4.3	3/4"	3	#12	POWER	NEW CLARIFIER BUILDING LIGHTING PANEL		SLUDGE RECYCLE VALVE #1		
C4.4	3/4"	8	#14	CONTROL	UNIT A CONTROL PANEL		SLUDGE RECYCLE VALVE #1		
C4.5	3/4"	3	#12	POWER	NEW CLARIFIER BUILDING LIGHTING PANEL		SLUDGE BLOWDOWN VALVE #1		
C4.6	3/4"	8	#14	CONTROL	UNIT A CONTROL PANEL		SLUDGE BLOWDOWN VALVE #1		
C4.7	3/4"	3	#12	POWER	NEW CLARIFIER BUILDING LIGHTING PANEL		CLARIFIER TRANSFER VALVE #1		
C4.8	3/4"	8	#14	CONTROL	UNIT A CONTROL PANEL		CLARIFIER TRANSFER VALVE #1		
C5.1	3/4"	3	#12	POWER	NEW CLARIFIER BUILDING LIGHTING PANEL		INFLUENT ACTUATED VALVE #2		
C5.2	3/4"	8	#14	CONTROL	UNIT B CONTROL PANEL		INFLUENT ACTUATED VALVE #2		
C5.3	3/4"	3	#12	POWER	NEW CLARIFIER BUILDING LIGHTING PANEL		SLUDGE RECYCLE VALVE #2		
C5.4	3/4"	8	#14	CONTROL	UNIT B CONTROL PANEL		SLUDGE RECYCLE VALVE #2		
C5.5	3/4"	3	#12	POWER	NEW CLARIFIER BUILDING LIGHTING PANEL		SLUDGE BLOWDOWN VALVE #2		
C5.6	3/4"	8	#14	CONTROL	UNIT B CONTROL PANEL		SLUDGE BLOWDOWN VALVE #2		
C5.7	3/4"	3	#12	POWER	NEW CLARIFIER BUILDING LIGHTING PANEL		CLARIFIER TRANSFER VALVE #2		
C5.8	3/4"	8	#14	CONTROL	UNIT B CONTROL PANEL		CLARIFIER TRANSFER VALVE #2		
C6.1	3/4"	3	#12	POWER	NEW CLARIFIER BUILDING LIGHTING PANEL		INLET METER #1		
C6.2	3/4"	1	16TS	CONTROL	UNIT A CONTROL PANEL		INLET METER #1		
C6.3	3/4"	3	#12	POWER	NEW CLARIFIER BUILDING LIGHTING PANEL		INLET METER #2		
C6.4	3/4"	1	16TS	CONTROL	UNIT B CONTROL PANEL		INLET METER #2		
C6.5	3/4"	3	#12	POWER	NEW CLARIFIER BUILDING LIGHTING PANEL		SLUDGE RECIRC METER #1		
C6.6	3/4"	1	16TS	CONTROL	UNIT A CONTROL PANEL		SLUDGE RECIRC METER #1		
C6.7	3/4"	3	#12	POWER	NEW CLARIFIER BUILDING LIGHTING PANEL		SLUDGE RECIRC METER #2		
C6.8	3/4"	1	16TS	CONTROL	UNIT B CONTROL PANEL		SLUDGE RECIRC METER #2		
C7.1	3/4"	1	16TS	CONTROL	UNIT A CONTROL PANEL		LEVEL TRANSMITTER #1		
C7.2	3/4"	1	16TS	CONTROL	UNIT B CONTROL PANEL		LEVEL TRANSMITTER #2		
C7.3	3/4"	3	#12	POWER	NEW CLARIFIER BUILDING LIGHTING PANEL		TURBIDIMETER ASSEMBLY #1		
C7.4	3/4"	1	16TS	CONTROL	UNIT A CONTROL PANEL		TURBIDIMETER ASSEMBLY #1		
C7.5	3/4"	1	VSC	PWR/CTRL	TURBIDIMETER CONTROLLER #1		TURBIDIMETER SENSOR #1		
C7.6	3/4"	3	#12	POWER	NEW CLARIFIER BUILDING LIGHTING PANEL		TURBIDIMETER ASSEMBLY #2		
C7.7	3/4"	1	16TS	CONTROL	UNIT B CONTROL PANEL		TURBIDIMETER ASSEMBLY #2		
C7.8	3/4"	1	VSC	PWR/CTRL	TURBIDIMETER CONTROLLER #2		TURBIDIMETER SENSOR #2		
C8.1	3/4"	4	#12	POWER	NEW CLARIFIER BUILDING LIGHTING PANEL		DOOR OPENER MOTOR		
C8.2	3/4"	6	#14	CONTROL	DOOR OPENER CONTROLLER		DOOR OPENER MOTOR		

CONDUIT AND CABLE SCHEDULE									
CONDUIT		CABLE		PURPOSE	FROM	VIA	TO		REMARKS
NO.	SIZE	QTY.	SIZE						
D1.1	3/4"	3	#12	POWER	NEW POWER PANEL #1		FLOCCULATOR MIXER #1 CONTROLLER		
D1.2	3/4"	3	#12	POWER	NEW POWER PANEL #1		FLOCCULATOR MIXER #2 CONTROLLER		
P1.1	2"	4	2/0	POWER	NEW POWER PANEL #1		NEW HIGH SERVICE PUMP #1 VFD		
P1.2	2"	4	2/0	POWER	NEW HIGH SERVICE PUMP #1 VFD	DISCONNECT	NEW HIGH SERVICE PUMP #1		
P1.3	3/4"	1	CAT6	CONTROL	MAIN CONTROL PANEL		NEW HIGH SERVICE PUMP #1 VFD		
P1.4	3/4"	4	#14	CONTROL	MAIN CONTROL PANEL		HIGH SERVICE PUMP #1 CHECK VALVE		LIMIT SWITCH
P2.1	2"	4	2/0	POWER	NEW POWER PANEL #1		NEW HIGH SERVICE PUMP #2 VFD		
P2.2	2"	4	2/0	POWER	NEW HIGH SERVICE PUMP #2 VFD	DISCONNECT	NEW HIGH SERVICE PUMP #2		
P2.3	3/4"	1	CAT6	CONTROL	MAIN CONTROL PANEL		NEW HIGH SERVICE PUMP #2 VFD		
P2.4	3/4"	4	#14	CONTROL	MAIN CONTROL PANEL		HIGH SERVICE PUMP #2 CHECK VALVE		LIMIT SWITCH
P3.1	1-1/4"	4	#3	POWER	NEW POWER PANEL #1		NEW HIGH SERVICE PUMP #3 VFD		
P3.2	1-1/4"	4	#3	POWER	NEW HIGH SERVICE PUMP #3 VFD	DISCONNECT	NEW HIGH SERVICE PUMP #3		
P3.3	3/4"	1	CAT6	CONTROL	MAIN CONTROL PANEL		NEW HIGH SERVICE PUMP #3 VFD		
P3.4	3/4"	4	#14	CONTROL	MAIN CONTROL PANEL		HIGH SERVICE PUMP #3 CHECK VALVE		LIMIT SWITCH
P4.1	1-1/4"	4	#1	POWER	NEW POWER PANEL #1		NEW BACKWASH PUMP #1 VFD		
P4.2	1-1/4"	4	#1	POWER	NEW BACKWASH PUMP #1 VFD	DISCONNECT	NEW BACKWASH PUMP #1		
P4.3	3/4"	1	CAT6	CONTROL	MAIN CONTROL PANEL		NEW BACKWASH PUMP #1 VFD		
P5.1	1-1/4"	4	#1	POWER	NEW POWER PANEL #1		NEW BACKWASH PUMP #2 VFD		
P5.2	1-1/4"	4	#1	POWER	NEW BACKWASH PUMP #2 VFD	DISCONNECT	NEW BACKWASH PUMP #2		
P5.3	3/4"	1	CAT6	CONTROL	MAIN CONTROL PANEL		NEW BACKWASH PUMP #2 VFD		
L1.1	1-1/2"	4	#2	POWER	NEW POWER PANEL #1		EXISTING RAW WATER PS MDP		
L1.2	2"	1	FIBER	CONTROL	MAIN CONTROL PANEL		NEW RAW WATER CONTROL PANEL		
L1.3	3/4"	3	#12	POWER	EXISTING PS LP-1		NEW RAW WATER CONTROL PANEL		
L2.1	3/4"	4	#8	POWER	EXISTING RAW WATER PS MDP		NEW RAW WATER PUMP #1 VFD		
L2.2	3/4"	4	#8	POWER	NEW RAW WATER PUMP #1 VFD		NEW RAW WATER PUMP #1		
L2.3	3/4"	1	CAT6	CONTROL	NEW RAW WATER PUMP #1 VFD		NEW RAW WATER CONTROL PANEL		
L2.4	3/4"	8	#14	CONTROL	NEW RAW WATER PUMP #1 VFD		NEW RAW WATER PUMP #1 THERM/SEAL		
L3.1	3/4"	4	#8	POWER	EXISTING RAW WATER PS MDP		NEW RAW WATER PUMP #2 VFD		
L3.2	3/4"	4	#8	POWER	NEW RAW WATER PUMP #2 VFD		NEW RAW WATER PUMP #2		
L3.3	3/4"	1	CAT6	CONTROL	NEW RAW WATER PUMP #2 VFD		NEW RAW WATER CONTROL PANEL		
L3.4	3/4"	8	#14	CONTROL	NEW RAW WATER PUMP #2 VFD		NEW RAW WATER PUMP #2 THERM/SEAL		
L4.1	3/4"	4	#8	POWER	EXISTING RAW WATER PS MDP		NEW LOW LIFT PUMP #3 VFD		
L4.2	3/4"	4	#8	POWER	NEW RAW WATER PUMP #3 VFD		NEW RAW WATER PUMP #3		
L4.3	3/4"	1	CAT6	CONTROL	NEW RAW WATER PUMP #3 VFD		NEW RAW WATER CONTROL PANEL		
L4.4	3/4"	8	#14	CONTROL	NEW RAW WATER PUMP #3 VFD		NEW RAW WATER PUMP #3 THERM/SEAL		
L5.1	3/4"	4	#14	CONTROL	NEW RAW WATER CONTROL PANEL		EXISTING AIR COMPRESSOR CP 1		
L5.2	3/4"	4	#14	CONTROL	NEW RAW WATER CONTROL PANEL		EXISTING AIR COMPRESSOR CP 2		
M1.1	3/4"	3	#12	POWER	PUMP STATION PANEL		MIXER MS/DC		
M1.2	3/4"	10	#14	CONTROL	PUMP STATION PANEL		MIXER CONTROL PANEL		
M1.3	3/4"	4	#12	POWER	MIXER CONTROL PANEL		MIXER		
M1.4	3/4"	10	#14	CONTROL	MIXER CONTROL PANEL		MIXER		
U1.1	3/4"	3	#8	POWER	EXISTING INSTRUMENT POWER PANEL		UV CP #1		
U1.2	3/4"	1	CAT6	CONTROL	MAIN CONTROL PANEL		UV CP #1		
U1.3	3/4"	-	VSC	PWR/CTRL	UV CP #1		UV UNIT #1		
U2.1	3/4"	3	#8	POWER	EXISTING INSTRUMENT POWER PANEL		UV CP #2		
U2.2	3/4"	1	CAT6	CONTROL	MAIN CONTROL PANEL		UV CP #2		
U2.3	3/4"	-	VSC	PWR/CTRL	UV CP #2		UV UNIT #2		
F1.1	3/4"	3	#12	POWER	EXISTING INSTRUMENT POWER PANEL		NEW EFFLUENT FM TRANSMITTER		
F1.2	3/4"	1	16TS	CONTROL	MAIN CONTROL PANEL		NEW EFFLUENT FM TRANSMITTER		
F1.3	3/4"	1	VSC	PWR/CTRL	NEW EFFLUENT FM TRANSMITTER		NEW EFFLUENT FLOW METER		
F2.1	3/4"	3	#12	POWER	EXISTING INSTRUMENT POWER PANEL		NEW CLARIFIER FLOW CONTROL VALVE		
F2.2	3/4"	8	#14	CONTROL	MAIN CONTROL PANEL		NEW CLARIFIER FLOW CONTROL VALVE		
H1.1	3/4"	4	#12	POWER	NEW CLARIFIER BUILDING POWER PANEL	MS/DC	EF1		
H1.2	3/4"	3	#12	POWER	LV1		EF1 MS/DC		
H1.3	3/4"	3	#12	POWER	LV2		EF1 MS/DC		
H1.4	3/4"	2	#12	CONTROL	TSTAT		EF1 MS/DC		
H1.5	3/4"	2	#12	CONTROL	HSTAT		EF1 MS/DC		
H2.1	3/4"	4	#12	POWER	NEW CLARIFIER BUILDING POWER PANEL	DISCONNECT	UH1		
H2.2	3/4"	4	#12	POWER	NEW CLARIFIER BUILDING POWER PANEL	DISCONNECT	UH2		
H2.3	3/4"	2	#12	CONTROL	TSTAT		UH1		
H2.4	3/4"	2	#12	CONTROL	TSTAT		UH2		
H2.5	3/4"	4	#12	POWER	NEW CLARIFIER BUILDING POWER PANEL	DISCONNECT	UH3		
H2.6	3/4"	4	#12	POWER	NEW CLARIFIER BUILDING POWER PANEL	DISCONNECT	UH4		
H2.7	3/4"	2	#12	CONTROL	TSTAT		UH3		
H2.8	3/4"	2	#12	CONTROL	TSTAT		UH4		
H3.1	3/4"	3	#12	POWER	NEW CLARIFIER BUILDING POWER PANEL		DEHUMIDIFER 277V RECEPTACLE		
H3.2	3/4"	2	#12	CONTROL	DEHUMIDIFIER		DEHUMIDIFIER HSTAT		

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9/30/2024

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DELAWARE
ENGINEERING, D.P.C.

CIVIL AND ENVIRONMENTAL ENGINEERING

28 MADISON AVENUE EXTENSION, ALBANY, NY 12203 - 518.452.1290
55 SOUTH MAIN ST ONEONTA, NY 13200 - 607.432.8073
31 NORTH MAIN STREET, LIBERTY, NY 12544 - 845.747.9862
100 WEST MAIN STREET, CANTON, NY 12015 - 518.452.1290
16 EAST MARKET STREET HOOK, NY 12571 - 518.452.1290
548 BROADWAY, MONTICELLO, NY 12001 - 845.791.7777

STATE OF NEW YORK

Professional Engineer

License No. 090380

City of Albany

REVISIONS

NO.

DATE

DESCRIPTION

RHINEBECK WTP

PLANT IMPROVEMENTS

VILLAGE OF RHINEBECK

DUTCHESS COUNTY, NEW YORK

CONDUIT & CABLE
SCHEDULES

SHEET:

E-004