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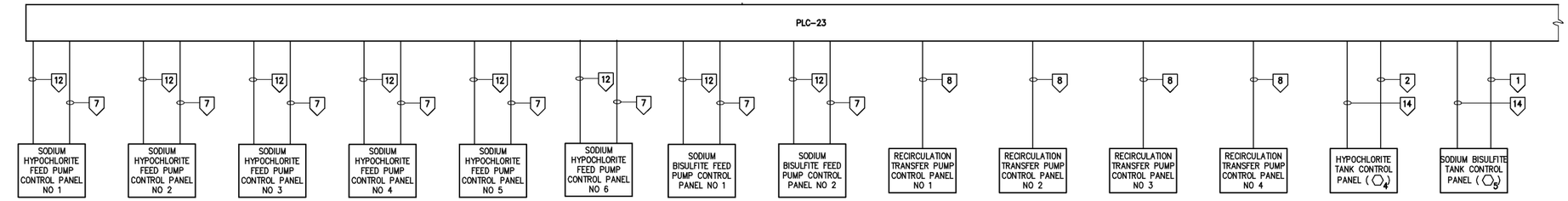
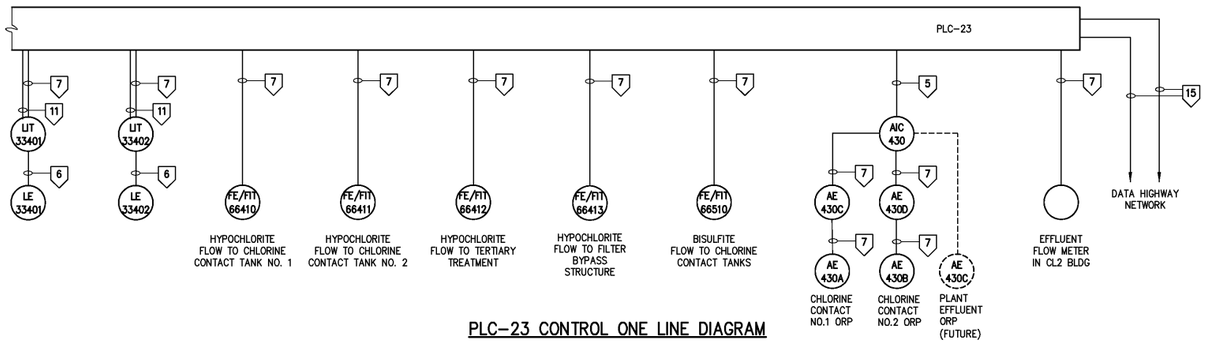
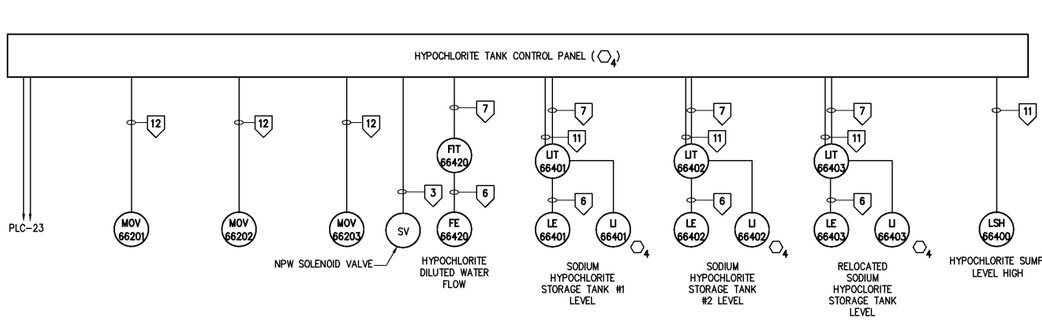
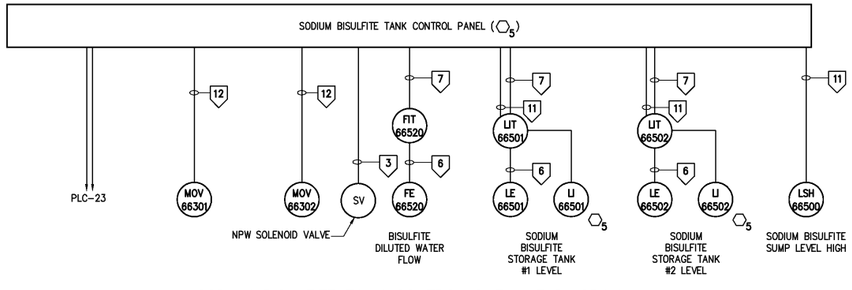




PLC-23 CONTROL ONE LINE DIAGRAM



HYPOCHLORITE TANK CONTROL PANEL CONTROL ONE LINE DIAGRAM



SODIUM BISULFITE TANK CONTROL ONE LINE DIAGRAM

CONDUIT AND WIRE LEGEND
(NUMBERS REFERENCE THIS SHEET ONLY)

NO.	DESCRIPTION
1	24#14, #14G, 2"C
2	36#14, #14G, 2"C
3	2#12, #12G, 3/4"C
4	3#8, #10G, 1"C
5	4-TPS, 2"C
6	CABLE BY SUPPLIER, 1"C
7	2-TPS, 1"C
8	6#14, #14G, 2"C
9	3#10, #12G, 3/4"C
10	3#12, #12G, 3/4"C
11	4#14, #14G, 3/4"C
12	12#14, #14G, 1"C
13	NOT USED
14	6-TPS, 1"C
15	CABLE BY INSTRUMENTATION SUBCONTRACTOR, 2"C

480 VOLTS
3ø,3 WIRE

PP-17B

MAIN BKR
225 A 3 P

TYPE:
MOUNT: SURFACE

DESCRIPTION	WIRE	CKT BKR TRIP	CKT BKR POLE	CKT BKR NO	VOLT AMPERE øA	VOLT AMPERE øB	VOLT AMPERE øC	VOLT AMPERE øA	VOLT AMPERE øB	VOLT AMPERE øC	CKT BKR NO	CKT BKR POLE	CKT BKR TRIP	WIRE	DESCRIPTION
RECIRCULATION	9	30	3	1	3500			3500			2	3	30	9	RECIRCULATION
TRANSFER PUMP				3		3500			3500		4				TRANSFER PUMP
CONTROL PANEL NO. 1				5			3500			3500	6				CONTROL PANEL NO. 2
RECIRCULATION	9	30	3	7	3500			3500			8	3	30	9	RECIRCULATION
TRANSFER PUMP				9		3500			3500		10				TRANSFER PUMP
CONTROL PANEL NO. 3				11			3500			3500	12				CONTROL PANEL NO. 4
TX-LP-17B1	4	40	3	13	10000			10000			14	3	40	4	TX-LP-17B2
				15		10000			10000		16				
				17			10000			10000	18				
9	10	30	3	19	5000			5000			20	3	30	9	
UH-660				21		5000			5000		22				UH-661
				23			5000			5000	24				
UH-662	9	30	3	25	4200			4200			26	3	30	9	
				27		4200			4200		28				UH-663
				29			4200			4200	30				
AC-660	9	30	3	31	7039			600			32	2	20	10	CU-660
				33		7039			600		34				
				35			7039				36				SPACE
SPARE		30	3	37							38	3	20		
				39							40				MOG 49212
				41							42				
NEMA 12 TVSS			TOTAL		33239	33239	33239	26800	26800	26200	TOTAL				
					PHASE TOTAL			TOTAL LOAD							
					60039	60039	59439	179517							

NO.		DATE	BY
	RECORD DRAWINGS	MAR 2008	RLT
	CONSTRUCTION	MAR 2004	RLT
	REGULATORY APPROVAL	NOV 2003	RLT
	PRELIMINARY DESIGN	NOV 2002	RLT

DESIGNED BRL
DRAWN BRL
CHECKED
PROJ. ENGR. H & S
APPROVED

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIFIORE, SEAL NO. 22769

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RECORD DRAWING

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HAZEN AND SAWYER
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CITY OF ROANOKE
VIRGINIA

REGIONAL WATER POLLUTION CONTROL PLANT
WET WEATHER IMPROVEMENTS

DISINFECTION CHEMICAL FEED FACILITIES
ELECTRICAL
PANEL SCHEDULES AND
CONTROL ONE LINE DIAGRAMS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

DATE JULY 2003
H & S JOB NUMBER 30788A
CONTRACT NUMBER A
DRAWING NUMBER E661

PLOT DATE 07/09/03 12:21pm FILE= H:\30788\30788A\ELEC\e661 by BLISK XREFs=30788s\sites\30788tb,