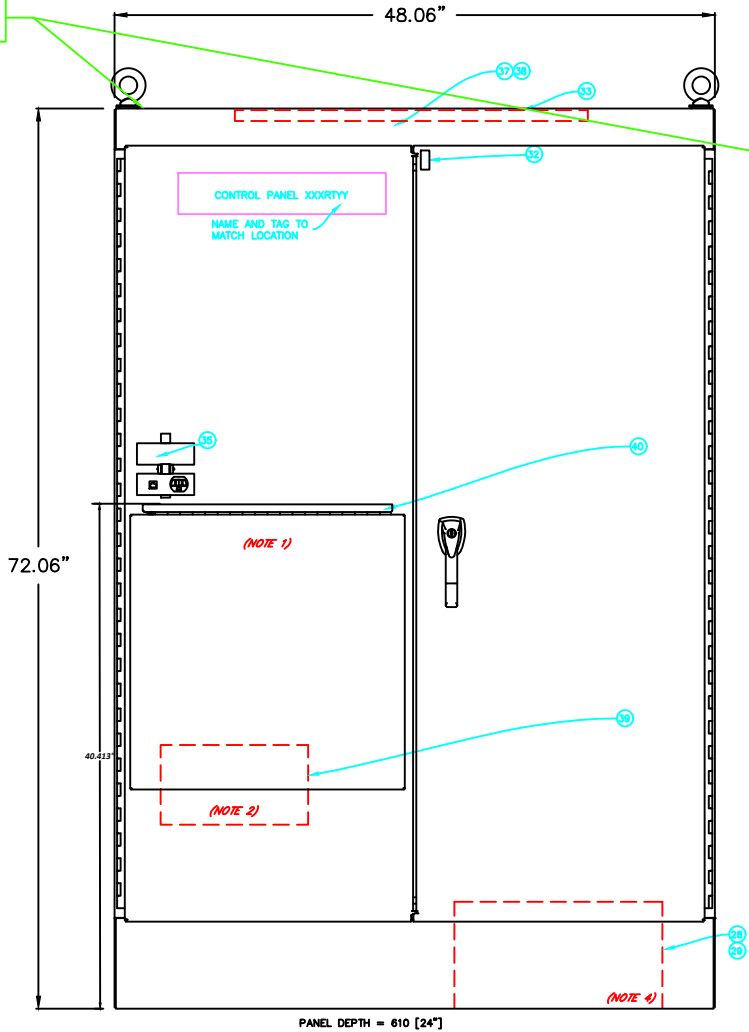
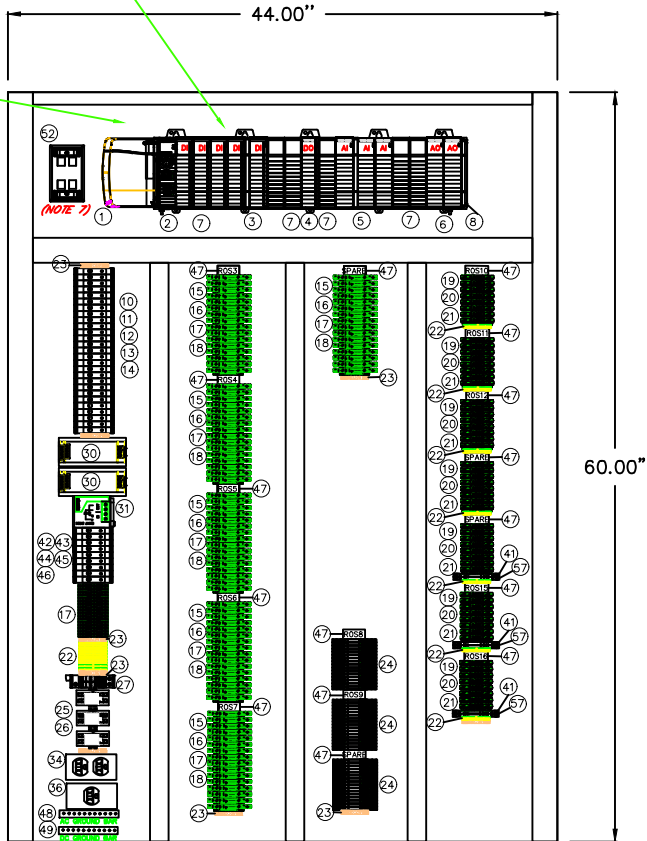


CONSULTANT TO UPDATE
PLC AND CONTROL PANEL
NAME



PLC PANEL FRONT VIEW

CONSULTANT TO UPDATE
PANEL SIZE, UPS SIZE, AND
HARDWARE QUANTITY



BACK PANEL VIEW

(NOTE 5)

BILL OF MATERIALS					
ITEM	PART NUMBER	SUPPLIER	LABEL	DESCRIPTION	QUANTITY
1	1756-PA75	ALLEN BRADLEY		CONTROLLOGIX POWER SUPPLY	1
2	1756-L83E	ALLEN BRADLEY		CONTROLLOGIX CPU	1
3	1756-IA16I	ALLEN BRADLEY		CONTROLLOGIX 16-POINT AC DIGITAL INPUT CARD	5
4	1756-OA16I	ALLEN BRADLEY		CONTROLLOGIX 16-POINT AC DIGITAL OUTPUT CARD	1
5	1756-IF8IH	ALLEN BRADLEY		CONTROLLOGIX HART 8-POINT ANALOG INPUT CARD	3
6	1756-OF8IH	ALLEN BRADLEY		CONTROLLOGIX HART 8-POINT ANALOG OUTPUT CARD	2
7	1756-N2	ALLEN BRADLEY		CONTROLLOGIX SLOT FILLER	5
8	1756-A17	ALLEN BRADLEY		CONTROLLOGIX 17-SLOT CHASSIS	1
9	9926251020	WEIDMULLER		SURGE PROTECTOR CIRCUIT BREAKER 1P 20A	1
10	9102003500	WEIDMULLER		CIRCUIT BREAKER 1P 15A	3
11	9101803500	WEIDMULLER		CIRCUIT BREAKER 1P 5A	4
12	9101703500	WEIDMULLER		CIRCUIT BREAKER 1P 3A	3
13	9101503500	WEIDMULLER		CIRCUIT BREAKER 1P 2A	11
14	9101203500	WEIDMULLER		CIRCUIT BREAKER 1P 1A	7
15	1152960000	WEIDMULLER		TERMINAL BLOCK, FUSED, 120V ac W/ TRIP INDICATION	124
16	1142990000	WEIDMULLER		END PLATE FOR ABOVE	124
17	1020100000	WEIDMULLER		TERMINAL BLOCK, FEED THROUGH, FOR DIO, NEUTRAL AND DVDC TERMINALS	152
18	1179600000	WEIDMULLER		END PLATE FOR ABOVE	AS REQ.
19	0687460000	WEIDMULLER		TERMINAL BLOCK, 2-TIER, KNIFE DISCONNECT	64
20	0687560000	WEIDMULLER		END PLATE FOR ABOVE	64
21	1020090000	WEIDMULLER		TERMINAL BLOCK, FEED THROUGH, GREEN	64
22	1010100000	WEIDMULLER		TERMINAL BLOCK, GROUND	11
23	1061200000	WEIDMULLER		END BRACKET FOR W SERIES TERMINALS	10
24	1123040000	WEIDMULLER		INTERPOSSING RELAY, 120VAC COIL, 1 C/O CONTACT	48
25	700-HF32A14	ALLEN BRADLEY		CONTROL RELAY, 120VAC COIL, 2 C/O CONTACTS	4
26	700-HN116	ALLEN BRADLEY		RELAY BASE FOR ABOVE	3
27	2859563	PHOENIX		LINE SURGE SUPPRESSOR	1
28	95X1500	EATON		95X UPS 1500VA	1
29	RELAY-MS	EATON		RELAY CARD FOR ABOVE	1
30	2938581	PHOENIX		24VDC POWER SUPPLY	2
31	2938963	PHOENIX		24VDC POWER SUPPLY REDUNDANCY MODULE FOR ABOVE	1
32	FLKDS	HAMMOND		PANEL DOOR LIGHT SWITCH	1
33	FLKDLSD	HAMMOND		PANEL LIGHT - LED 26"	1
34	918688	HUBBELL		DUPLEX RECEPTACLE	1
35	P-R62-F3R0	GRACE		PROGRAMMER PORT	1
36	337930	HUBBELL		SINGLE RECEPTACLE, UPS FEED, IVORY	1
37	14182W18	HAMMOND		72"x48"x24" NEMA 12 FREE STANDING ENCLOSURE	1
38	722WFVW	HAMMOND		60"x44"x4" W BACK PANEL FOR ABOVE	1
39	PKT1212	HAMMOND		DRAWING HOLDER	1
40	SP1801894	HAMMOND		LAPTOP SHELF, 22"	1
41	2864419	PHOENIX		SIGNAL ISOLATOR	4
42	9101903500	WEIDMULLER		CIRCUIT BREAKER 1P 10A	1
43	9101803500	WEIDMULLER		CIRCUIT BREAKER 1P 5A DC	1
44	9101703500	WEIDMULLER		CIRCUIT BREAKER 1P 3A DC	5
45	9101203500	WEIDMULLER		CIRCUIT BREAKER 1P 1A DC	2
46	9104183500	WEIDMULLER		CIRCUIT BREAKER 1P 0.2A DC - UPS RELAYS	1
47	2924600000	WEIDMULLER		GROUP MARKER	18
48	PK15GTA	SQUARE-D		AC GROUND BAR	1
49	NSCH-1M	WEIDMULLER		ISOLATED DC GROUND BAR	1
50		PANDUIT		SLOTTED WIRE WAY, VARIOUS WIDTHS, 4" (100MM) DEEP	AS REQ.
51				MISC. COMPONENTS - DIN RAIL, DIN RAIL STANDOFFS, GROUNDING, WIRE LABELS	AS REQ.
52	760072207	COMMSCOPE		4-PORT KEYSTONE WALL MOUNT FACEPLATE STAINLESS STEEL	1
53	HD 1	RED DOT		SINGLE GANG CAST ALUMINUM DEVICE BOX	1
54	700206691	COMMSCOPE		CAT6 JACK MODULE (YELLOW)	4
55	107286642	COMMSCOPE		RJ45 JACK MODULE SNAP-IN ICON (WHITE)	4
56	C016652-09F004	COMMSCOPE		PATCH CABLES	AS REQ.
57	2864150	PHOENIX		NON-LOOP POWERED SIGNAL ISOLATOR	3

BILL OF MATERIALS

CONSULTANT TO UPDATE
PROJECT TITLE AND
DRAWING NAME

NOTES:

1. LAPTOP SHELF TO BE MOUNTED ON OUTER SIDE OF DOOR.
2. LITERATURE POCKET TO BE MOUNTED ON INNER SIDE OF DOOR.
3. AVOID RUNNING CONDUIT THROUGH TOP OF ENCLOSURE.
4. NO CONDUIT ENTRIES DIRECTLY BELOW OR BESIDE THE UPS.
5. BILL OF MATERIALS AND QUANTITIES THEREIN ARE TO BE MODIFIED AS REQUIRED TO SUIT THE DESIGN.
6. PANEL SUPPLIER TO INSTALL NETWORK JACK. DIV 17 TO SUPPLY AND INSTALL CABLING.
7. SEE NETWORK DWG YXXX FOR LABELING OF THE WORK AREA OUTLETS.

THESE DRAWINGS ARE TEMPLATE DRAWINGS

1. REMOVE THIS NOTE AS PART OF THE DESIGN PROCESS.
2. MODIFY THIS DRAWING AS DIRECTED IN THE SCADA STANDARDS.
3. ADD ADDITIONAL DETAILS AS REQUIRED TO MEET THE PROJECT SPECIAL REQUIREMENTS.
4. WHEN THE CONSULTANT DEVIATES FROM THIS TEMPLATE THEY ARE REQUIRED TO NOTIFY HALTON REGION THROUGH THE USE OF THE STANDARDS DEVIATION MEMO.
5. FUSED TERMINAL BLOCKS AND CIRCUIT BREAKERS TO BE SIZED APPROPRIATELY.
6. SHOW ADDITIONAL RACKS (UP TO A MAXIMUM OF 2) ONLY IF NECESSARY BASED ON DESIGN REQUIREMENTS.
7. THE CONSULTANT IS TO SPECIFY SIGNAL ISOLATORS WHERE REQUIRED. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING OF SHIELDS.
8. PANEL SIZING TO COMPLY WITH SECTION 3 OF THE SCADA STANDARDS.
9. CONSULTANT TO SIZE UPS TO ALLOW FOR 30 MINUTES OF UPTIME.
10. IF CONTRACTORS ARE REQUESTING TO SUBSTITUTE PARTS MAKE SURE THE PARTS CONFORM TO THE STANDARDS LAYED OUT IN HALTON SCADA STANDARDS SECTION 3 CONTROL PANEL DESIGN.

REVISIONS				MAN/CAD	
NO	Date	By			
Design	---	Ch'kd	---	Date	
Drawn	---	Ch'kd	---		
Scale	N.T.S.			References	

Field Notes

Stamp

Regional

ACCEPTED FOR CONSTRUCTION
OF REGIONAL INFRASTRUCTURE

REVIEWED FOR COMPLIANCE WITH
REGIONAL STANDARDS ONLY.

Director, Water & Wastewater Treatment

Manager, Plant Capital & Engineering



TITLE REGIONAL MUNICIPALITY OF HALTON
CONSULTANT PROJECT TITLE

PLANT FREE STANDING
CONTROL PANEL LAYOUT

Consultant File NO

Regional Drawing NO

CONTRACT NO

Drawing NO 1301

SHEET XX OF XX