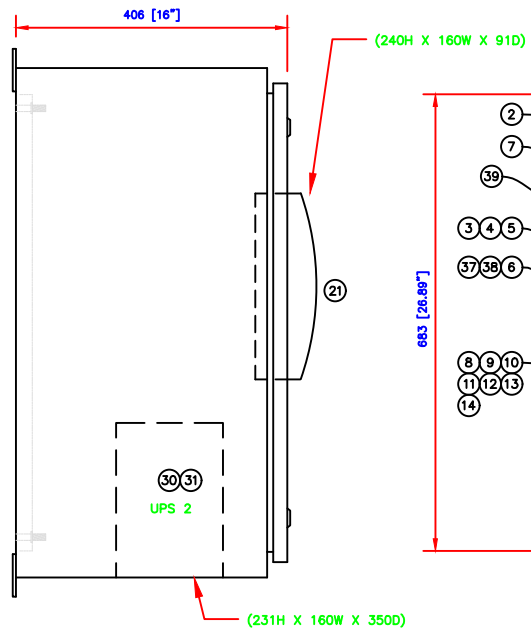
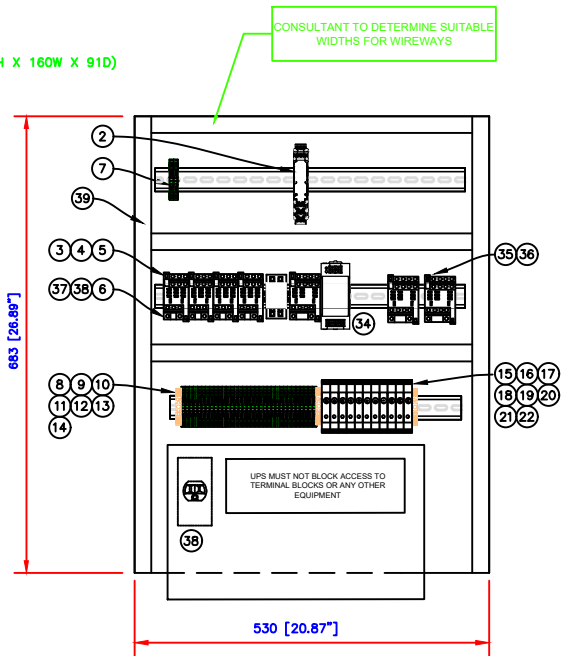


BACKUP CONTROL PANEL FRONT VIEW



PANEL SIDE VIEW



PANEL INNER VIEW

SPS BACK-UP LEVEL TRANSMITTER PANEL LAYOUT BILL OF MATERIALS					
ITEM	PART NUMBER	SUPPLIER	LABEL	DESCRIPTION	QUANTITY
1	1418K16	HAMMOND		NEMA 12 WALLMOUNT ENCLOSURE WITH INNER PANEL - 30 x 24 x 16 - STEEL/GRAY	1
2	KCD2-STC-EX1	PEPPERL AND FUCHS		HART ENABLED SINGLE CHANNEL INTRINSICALLY SAFE	1
3	700-HN116	ALLEN BRADLEY		DPDT RELAY BASE	2
4	700-HF30A1	ALLEN BRADLEY		DPDT RELAY	2
5	700-HN139	ALLEN BRADLEY		4PDT RELAY BASE	5
6	700-HF34A1	ALLEN BRADLEY		4PDT RELAY	5
7	1020100000 1050100000	WEIDMULLER	TB-ISR	TERMINAL BLOCK FEED THROUGH WDU4 W-SERIES, END PLATE, SEPERATION PLATE	2 A/R
8	1020100000 1050100000	WEIDMULLER	TB-PWR	TERMINAL BLOCK FEED THROUGH WDU4 W-SERIES, END PLATE, SEPERATION PLATE	2 A/R
9	9101503500	WEIDMULLER	TB-PWR (CB)	CIRCUIT BREAKER 1P 2A	6
10	1020100000 1050100000	WEIDMULLER	TB-DW	TERMINAL BLOCK FEED THROUGH WDU4 W-SERIES, END PLATE, SEPERATION PLATE	2 A/R
11	1020100000 1050100000	WEIDMULLER	TB-DO	TERMINAL BLOCK FEED THROUGH WDU4 W-SERIES, END PLATE, SEPERATION PLATE	2 A/R
12	1050100000	WEIDMULLER	TB-DO	TERMINAL BLOCK FEED THROUGH WDU4 W-SERIES, END PLATE, SEPERATION PLATE	3
13	1061200000	WEIDMULLER	END STOP	W-SERIES, END BRACKET	3
14	0252460000	WEIDMULLER		SCHT, TERMINAL MARKER, 44.5 X 19.5MM, PITCH IN MM (P) 5.00 BEIGE	4
15	9101803500	WEIDMULLER	CBR302, CBR400	CIRCUIT BREAKER 1P 5A	2
16	9101803500	WEIDMULLER	CBR303, CBR304	CIRCUIT BREAKER 1P 5A (SPARE)	2
17	9101203500	WEIDMULLER	CBR301	CIRCUIT BREAKER 1P 1A (BACK-UP LEVEL XMTR)	1
18	9102003500	WEIDMULLER	CBR300	CIRCUIT BREAKER 1P 15A (UPS POWER)	1
19	9104183500	WEIDMULLER	CBR402	CIRCUIT BREAKER 1P 0.2A (UPS2 RELAYS)	1
20	9101203500	WEIDMULLER	CBR401	CIRCUIT BREAKER 1P 3A (PROBE ISB)	1
21	9101203500	WEIDMULLER	CBR403	CIRCUIT BREAKER 1P 3A (SPARE)	1
22	9011050000	WEIDMULLER	CBR404, CBR405	CIRCUIT BREAKER 1P 0.5A (SPARE)	2
23	800FP-FW	ALLEN BRADLEY		RESET PUSHBUTTON	1
24	800T-QTH2A	ALLEN BRADLEY		PUSH TO TEST AMBER PILOT LIGHT	2
25	800F-X01	ALLEN BRADLEY		N.C. CONTACT BLOCK	2
26	800F-X10	ALLEN BRADLEY		N.O. CONTACT BLOCK	1
27	800F-358E100	ALLEN BRADLEY		"PUMPS ON BACK-UP" LEGEND PLATE	1
28	800F-358E100	ALLEN BRADLEY		"BACK-UP SYSTEM RESET" LEGEND PLATE	1
29	7ML5033-2CA00-2A	SIEMENS		BACK-UP LEVEL TRANSMITTER	1
30	95X1000	POWERWARE		UPS2 (95X1000)	1
31	1030003055	POWERWARE		UPS 2 INDUSTRIAL RELAY CARD	1
32	VSC15/10	SPECTER		DISCONNECT SWITCH COVER	1
33	8896K107	EATON		SINGLE POLE TOGGLE DISCONNECT SWITCH	1
34	QUINT-PS-100-240AC/24DC	PHOENIX CONTACT		24VDC POWER SUPPLY	1
35	700-HX32A24	ALLEN BRADLEY		24VDC COIL, 120 VAC CONTACT INTERPOSING RELAY (UPS ALARMS)	2
36	700-HN222	ALLEN BRADLEY		24VDC DPDT RELAY BASE	2
37	N/A	PAN/UIT		SLOTTED WIRE WAY, 3 (75MM) DEEP	A/R
38	IG5261	HUBBELL		SINGLE RECEPTABLE, UPS FEED, IVORY	1

- NOTE:
1. FOR PANEL AND EQUIPMENT LAYOUT, THE INDICATED MANUFACTURER WAS USED FOR SPACE CONSIDERATIONS. OTHER MANUFACTURERS ARE ALSO ACCEPTABLE AS PER THE SPECIFICATIONS.
2. BILL OF MATERIALS AND QUANTITIES THEREIN ARE TO BE MODIFIED AS REQUIRED TO SUIT THE DESIGN.

BILL OF MATERIALS

- NOTES:
1. WET WELL FLOATS TO ENTER THROUGH TOP OF PANEL. ALL OTHER ENTRIES THROUGH SIDE OR BOTTOM.
 2. INTERNAL INTRINSICALLY SAFE WIRES TO CONFORM TO HALTON REGION WIRING STANDARDS.
 3. UPS IS NOT TO BLOCK ANY EQUIPMENT IN THE PANEL.
 4. DRAWING NOT TO BE USED FOR OUTDOOR PANEL - SEE DRAWING 1800.
 5. BACKUP SYSTEM CONTROL PANEL TO BE LABELLED AS "XXXBKYY". NAME AND TAG TO MATCH LOCATION, SIMILAR TO ASSOCIATED PLC PANEL.

- 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 RIB 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 MANUFACTURERS' SPECIFICATIONS FOR GROUNDING OF SHIELDS.

REVISIONS				MANU/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

SPS LEVEL TRANSMITTER
BACKUP PANEL LAYOUT

Consultant File NO

Regional Drawing NO

CONTRACT NO

Drawing NO E808

SHEET XX OF XX