

Bill of Materials - P13716

Concept 1

Item #	Part Description	Supplier	Part #	Lead Time (Days)	# Needed	Price Per	Unit	Total Price	Part	Notes
1	Momentary, Non-Illuminated, extended push button (g)	Horizon Solutions LLC	A-B800FP3	2	4	\$3.52	ea	\$14.08	green push button	Quote No. 3992161-00
2	Momentary, Non-Illuminated, extended push button (y)	Horizon Solutions LLC	A-B800FP5	2	4	\$3.52	ea	\$14.08	yellow push button	Quote No. 3992161-00
3	Plastic Button Latch	Horizon Solutions LLC	A-B800FALP	2	8	\$4.44	ea	\$35.52	button latch	Quote No. 3992161-00
4	Button Contact Block	Horizon Solutions LLC	A-B800FK10	2	8	\$5.74	ea	\$45.92	button contact block	Quote No. 3992161-00
5	Plastic Button Enclosure (2 holes)	Horizon Solutions LLC	A-B800FZPP	2	4	\$21.58	ea	\$86.32	button enclosure	Quote No. 3992161-00
								Subtotal	\$195.92	
6	Non-flush, non-illuminated, plastic push button (green)	Autonics	S3PR-G(A/B)(D/L)	0	4	\$0.00	ea	\$0.00	green push button	
7	Non-flush, non-illuminated, plastic push button (yellow)	Autonics	S3PR-Y(A/B)(D/L)	0	4	\$0.00	ea	\$0.00	yellow push button	
8	Push Button Head Nut	Autonics		0	8	\$0.00	ea	\$0.00	button head nut	
9	Button Contact Block (Normal Open)	Autonics	SA-CA	0	8	\$0.00	ea	\$0.00	button contact block	
10	Push Button Enclosure sq. type (2 holes)	Autonics	SA-SB2	0	4	\$0.00	ea	\$0.00	button enclosure	
11	Push Button Enclosure triangle type (2 holes)	Autonics	SA-TB2	0	4	\$0.00	ea	\$0.00	button enclosure	
								Subtotal	\$0.00	
12	PATLITE ST-T Signal Tower 24VAC or DC	RIT TPS Lab	LCS-A (40 mm)	0	0	\$0.00	ea	\$0.00	Andon Lights	
13	SIMATIC S7-1200	Siemens/RIT	6ES7214-1BE30-0XB0	0	1	\$0.00	ea	\$0.00	PLC CPU	
14	SIMATIC Net Industrial Ethernet TP XP Cord	Siemens/RIT	6XV1870-3RH60	0	3	\$0.00	ea	\$0.00	PLC Ethernet Cord	
15	SIMATIC S7-1200 Simulator Module	Siemens/RIT	6ES7274-1XF30-0XA0	0	1	\$0.00	ea	\$0.00	PLC Simulator Module	
16	SIMATIC S7-1200 Analog Output	Siemens/RIT	6ES7232-4HA30-0XB0	0	1	\$0.00	ea	\$0.00	PLC Analog Output	
17	SIMATIC S7 Step 7 Basic V11 Software	Siemens/RIT	6ES7822-0AA01-0YA0	0	1	\$0.00	ea	\$0.00	PLC Software	
18	SIMATIC S7-1200 Compact Switch Module	Siemens/RIT	6GK7277-1AA10-0AA0	0	1	\$0.00	ea	\$0.00	PLC CSM	
19	SIMATIC KTP600 Basic Color PN	Siemens/RIT	6AV6647-0AD11-3AAX0	0	1	\$0.00	ea	\$0.00	PLC Monitor	
20	ST-1200 Power Supply Module	Siemens/RIT	6ES713321SHT1	0	1	\$81.50	ea	\$81.50	PLC Power Module	
21	SM 1223 DC/RLY (16 D I/O)	Siemens	6ES7 223-1PL30-0XB0	7	1	\$135.00	ea	\$135.00	PLC - D I/O Add on	(DI 16x24 V DC, DO 16xRLY 30 V DC/250 V AC 2 A)
22	NI OPC Server 2012	Siemens		0	1	\$0.00	ea	\$0.00	communication between LabVIEW & PLC	
								Subtotal	\$196.50	
23	Dell Inspiron Notebook Model I5RM-1765DBK	newegg	N82E16834200507	7	1	\$299.00	ea	\$299.00	Laptop - refurb	http://www.newegg.com/Product/Product.aspx?Item=N82E16834200507
24	Vizio 50" Class LCD 1080p	Wal Mart	650749984	7	1	\$549.00	ea	\$549.00	Television	http://www.walmart.com/ip/Vizio-50-Class-LCD-1080p-60Hz-HDTV-E5004R2/1311923
25	Logitech S120 2.0 Multimedia Speakers	Amazon		7	1	\$11.85	ea	\$11.85	computer speakers	http://www.amazon.com/Logitech-S120-2-C-Multimedia-Speakers/dp/B000R9AAJA/ref=sr_1_2?ie=UTF8&qid=1359992289&sr=1-2
26	Link Depot HDMI to HDMI Cable 25 feet	Amazon		7	1	\$6.44	ea	\$6.44	hdmi cable (comp to tv)	http://www.amazon.com/Link-Depot-HDMI-Cable-25ft/dp/B000LY8D5I/ref=sr_1_11?ie=UTF8&qid=1359992289&sr=1-11&keywords=hdmi
27	18 gauge wire DC (brown) (500 ft)	Grainger	SLWZ9	1	1	\$45.75	ea	\$45.75	(+)	http://www.grainger.com/Grainger/SOUTHWIRE-COMPANY-Building-Wire-SLWZ9
28	18 gauge wire DC (blue) (100 ft)	Grainger	SZDH1	1	1	\$24.87	ea	\$24.87	(+)	http://www.grainger.com/Grainger/CAROL-Wire-SZDH1
29	18 gauge wire AC (red) (500 ft)	Grainger	SLWY4	1	1	\$48.15	ea	\$48.15	(hot)	http://www.grainger.com/Grainger/SOUTHWIRE-COMPANY-Building-Wire-SLWY4?Pid=search
30	18 gauge wire AC (white) (100 ft)	Grainger	SZDG6	1	1	\$24.87	ea	\$24.87	(neutral)	http://www.grainger.com/Grainger/CAROL-Wire-SZDG6
31	Material for Mobile Cart (80/20)	Grainger		0	1	\$0.00	ea	\$0.00	structural 80/20 matl	
29	LabVIEW license	RIT/NI		0	1	\$0.00	ea	\$0.00	Comp Software	
30	Microsoft Office	RIT/Microsoft		0	1	\$0.00	ea	\$0.00	Comp Software	
								Subtotal	\$1,008.93	
Option 1	Materials for Mechanical Design - colored flags (on dowels) with bell									
31	Wood or metal panel (1 ft. x 2 ft.)	Grainger		1	\$0.00	ea	\$0.00			
32	Vase (6 in x 1 in (dia))	Grainger		1	\$0.00	ea	\$0.00			
33	Wood or metal dowel (3 in x 1 in (dia))	Grainger		1	\$0.00	ea	\$0.00			
34	Bell	Grainger		1	\$0.00	ea	\$0.00			
35	Cord (3 in)	Grainger		1	\$0.00	ea	\$0.00			
36	Basket (6 in x 6 in)	Grainger		1	\$0.00	ea	\$0.00			
37	Green Flag on dowel	Grainger		1	\$0.00	ea	\$0.00			
38	yellow flag on dowel	Grainger		1	\$0.00	ea	\$0.00			
39	red flag on dowel	Grainger		1	\$0.00	ea	\$0.00			
40	Structural bracing (ie: clamps)	Grainger		2	\$0.00	ea	\$0.00			
								Subtotal	\$0.00	
Option 2	Materials for Mechanical Design - colored flags (magnetic) with bell									
41	Wood or metal panel (1 ft. x 2 ft.)	Grainger		1	\$0.00	ea	\$0.00			
42	Magnetic Board (6 in x 6 in)	Grainger		1	\$0.00	ea	\$0.00			
43	Wood or metal dowel (3 in x 1 in (dia))	Grainger		1	\$0.00	ea	\$0.00			
44	Bell	Grainger		1	\$0.00	ea	\$0.00			
45	Cord (3 in)	Grainger		1	\$0.00	ea	\$0.00			
46	Basket (6 in x 6 in)	Grainger		1	\$0.00	ea	\$0.00			
47	Green Flag on dowel	Grainger		1	\$0.00	ea	\$0.00			
48	yellow flag on dowel	Grainger		1	\$0.00	ea	\$0.00			
49	red flag on dowel	Grainger		1	\$0.00	ea	\$0.00			
50	Structural bracing (ie: clamps)	Grainger		2	\$0.00	ea	\$0.00			
								Subtotal	\$0.00	
Option 3	Materials for Mechanical Design - colored cones with bell									
51	Wood or metal panel (1 ft. x 1 ft.)	Grainger		1	\$0.00	ea	\$0.00			
52	Wood or metal panel (1 ft. x 2 ft.)	Grainger		1	\$0.00	ea	\$0.00			
53	Bell	Grainger		1	\$0.00	ea	\$0.00			
54	Cord (3 in)	Grainger		1	\$0.00	ea	\$0.00			
55	green cone	Grainger		1	\$0.00	ea	\$0.00			
56	yellow cone	Grainger		1	\$0.00	ea	\$0.00			
57	red cone	Grainger		1	\$0.00	ea	\$0.00			
58	Structural bracing (ie: clamps)	Grainger		2	\$0.00	ea	\$0.00			
								Subtotal	\$0.00	
Option 4	Materials for Mechanical Design - "tie up" design									
59	Mounts	Grainger		3	\$0.00	ea	\$0.00			
60	Hinges	Grainger		2	\$0.00	ea	\$0.00			
61	Cord (1.5 ft)	Grainger		1	\$0.00	ea	\$0.00			
62	Dowel (1 ft.)	Grainger		1	\$0.00	ea	\$0.00			
63	Dowel (0.5 ft)	Grainger		2	\$0.00	ea	\$0.00			
64	Green flag	Grainger		1	\$0.00	ea	\$0.00			
65	Yellow flag	Grainger		1	\$0.00	ea	\$0.00			
66	Red flag	Grainger		1	\$0.00	ea	\$0.00			
67	Strikes	Grainger		1	\$0.00	ea	\$0.00			
68	Bell	Grainger		1	\$0.00	ea	\$0.00			
								Subtotal	\$0.00	

TOTAL PRICE (Horizon) \$1,401.35
 TOTAL PRICE (Autonics) \$1,205.43