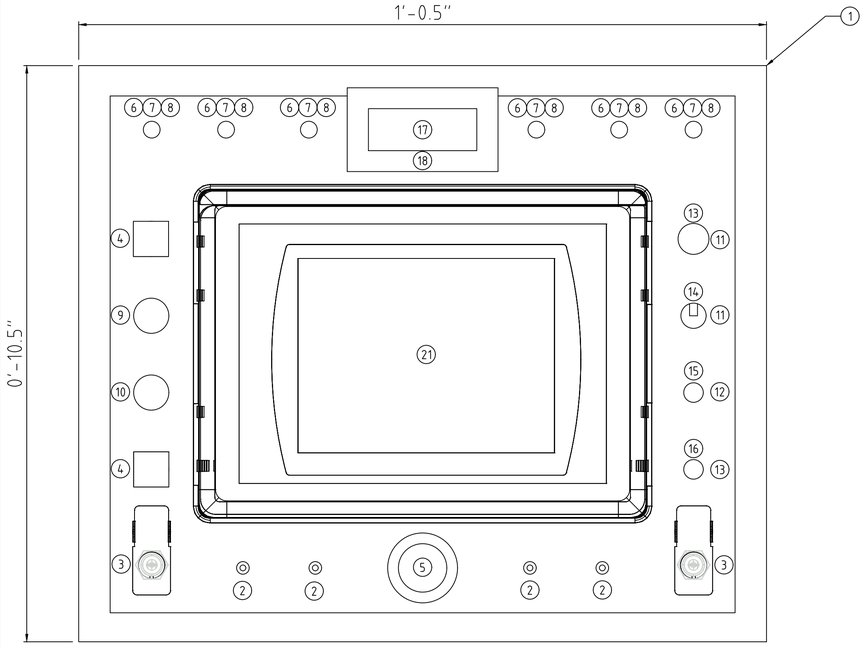
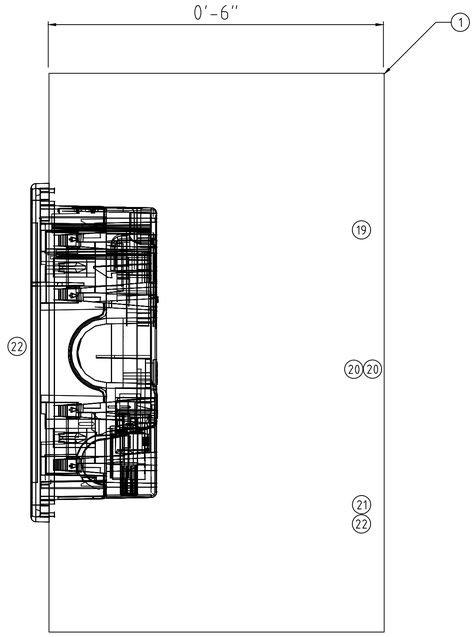
Verify all dimensions prior to construction - Do not scale



FRONT-VIEW



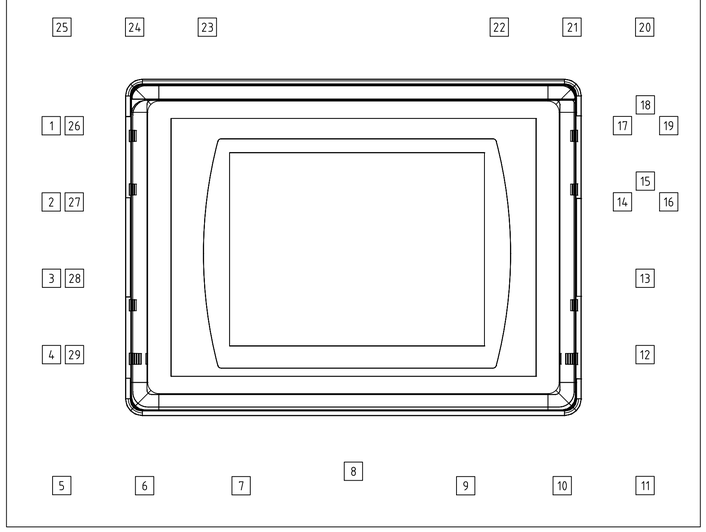
SIDE-VIEW

BILL OF MATERIALS			
REF (#)	QTY	DESCRIPTION	MODEL #
1	1	PANEL, 10.5"L X 12.5"W X 6"D	-
2	4	TAYDA ELECTRONICS, MINI TOGGLE SWITCH SPDT ON-ON	A-4567
3	2	E SUPPORT, TOGGLE SWITCHES /w GUARD	CXCP212C
4	2	UXCELL, 16mm SQUARE PUSH BUTTON, BLUE	7149981241 80
5	1	UXCELL, RED ILLUMINATED E-STOP PUSHBUTTON	a17031000ux0114
6	6	VCC, SNAP-IN PANEL MOUNT 5mm LED LENS, CLEAR	CMC__321__CTP
7	6	VCC, 5mm LED RETAINER	RNG__268
8	6	TAYDA ELECTRONICS, 5mm LED, VARIOUS COLORS	-
9	1	ADAFRUIT, METAL PUSHBUTTON RED LED RING	559
10	1	ADAFRUIT, 16MM LED PUSH BUTTON RED LATCHING	1442
11	2	TAYDA ELECTRONICS, ROTARY SWITCH 4 POLE 3 POSITION	A-1640
12	2	TAYDA ELECTRONICS, 1K OHM LINEAR TAPER POTENTIOMETER	A-1962
13	1	TAYDA ELECTRONICS, KNURLED ALUMINUM BLACK KNOB	A-2849
14	1	TAYDA ELECTRONICS, DAVIES 1510 CLONE RED KNOB	A-389
15	1	TAYDA ELECTRONICS, DAVIES 1900H CLONE RED KNOB	A-4557
16	1	TAYDA ELECTRONICS, BLACK PLASTIC KNOB WITH WHITE POINTER	A-322
17	1	ADAFRUIT, 7-SEGMENT DISPLAY w/I2C BACKPACK	B016RG90GQ
18	1	TINDIE, 0.56" 4-DIGIT 7-SEGMENT DISPLAY BEZEL	-
(1)	19	1	ARDUINO NANO	UNO R3
(1)	20	2	MANUFACTURED PCBs	SX1509
(1)	21	4	THRU-TERMINAL	-
(1)	22	1	DIN RAIL	-
	23	1	ALLEN-BRADLEY, C600 PANELVIEW	C600

NOTES (#)

1. NOT DRAWN IN LAYOUT

I/O LAYOUT



I/O SCHEDULE

REF # (#)	ADDRESS	I/O TYPE	COMPONENT DESC,	REF # (#)	ADDRESS	I/O TYPE	COMPONENT DESC,
1	I__1__0	DI	PUSHBUTTON	18	I__2__6	DI	SELECTOR SWITCH POSITION 2
2	I__1__1	DI	PUSHBUTTON	19	I__2__7	DI	SELECTOR SWITCH POSITION 1
3	I__1__2	DI	LATCHING PUSHBUTTON	20	I__3__9	DO	RED LED
4	I__1__3	DI	PUSHBUTTON	21	I__3__8	DO	BLU LED
5	I__1__4	DI	TOGGLE SWITCH /W GUARD	22	I__3__7	DO	GRN LED
6	I__1__5	DI	TOGGLE SWITCH	23	I__3__6	DO	GRN LED
7	I__1__6	DI	TOGGLE SWITCH	24	I__3__5	DO	BLU LED
8	I__1__7	DI	ILLUMINATED E-STOP BUTTON	25	I__3__4	DO	RED LED
9	I__1__8	DI	TOGGLE SWITCH	26	I__3__0	DO	PUSHBUTTON LED INDICATOR
10	I__1__9	DI	TOGGLE SWITCH	27	I__3__1	DO	PUSHBUTTON LED INDICATOR
11	I__1__10	DI	TOGGLE SWITCH /W GUARD	28	I__3__2	DO	PUSHBUTTON LED INDICATOR
12	A__N__0	AI	POTENTIOMETER	29	I__3__3	DO	PUSHBUTTON LED INDICATOR
13	A__N__1	AI	POTENTIOMETER	-	-	-	-
14	I__2__2	DI	SELECTOR SWITCH POSITION 3	-	-	-	-
15	I__2__3	DI	SELECTOR SWITCH POSITION 2	-	-	-	-
16	I__2__4	DI	SELECTOR SWITCH POSITION 1	-	-	-	-
17	I__2__5	DI	SELECTOR SWITCH POSITION 3	-	-	-	-

Rev	Reason	By	Chk	Appr.	Date
B	AS-BUILT	AJK	AJK	AJK	03/27/18
A	ISSUED FOR PROPSAL	AJK	AJK	AJK	9/19/18

Scales NTS — Drawn AJK

Date 03/27/18 (NOT PLOTTED) — CAD Ref EOAT Panel Active_B

SENIOR DESIGN
ROBOTIC FLIGHT SIMULATOR
HUBER, KUCINSKI, PALMER
EOAT PANEL LAYOUT

Drawing: EOAT Panel Active_B

Revision: B