024 Xero H	ID Map	pping	Revision 1	Feb 4, 2024	l.		
ID name		Purpose	Device Call Out	Logic	Comment		
Dilalile		ruipuse	Device Call Out	Logic	Continent	Device Type	
utton	1	Shoot/amp/trap	switch 3c - right side	high = shoot mode	if 1+2 are both low = amp mode	Three position toggle switch	
nion.		Shoot/amp/trap	switch 3c - left side	high = trap mode	in 1.2 dre bour ow dinp mode	Timee position toggie switch	
		climb up prepare	button 3a - yellow	high = climb up prepare		Lighted yellow pushbutton	
		execute climb	button 3b - blue	high = execute climb		Lighted blue pushbutton	
		(spare)				-3	
		unclimb execute	button 3e - blue	high =climb down		Lighted blue pushbutton	
	7	shoot	big yellow button	high = shoot now		Large yellow arcade button	
	8	turtle	big green button	high = execute turtle		Large green arcade button	
	9	abort	big red button	high = abort current action		Large red arcade button	
	10	eject (sing)	big white button	high = eject the note		Large white (clear) arcade button	
	11	(spare)	(to be added as needed)				
	12	spare	switch/4a - right side				
	13	spare	spare/4a - left side				
	14						
	15						
	16						
	17						
	18						
	19						
	20						
	21						This picture is not correct, but can be made correct by reading the updates listed below the picture.
	22						The OI as of 2/4/2024 is built to agree with the updates, and has been reviewed by Lily.
	23						
	24						
	1						LEDs 1a – Shoot: Drive base ready
oystick	2						1b – Shoot: Shooter velocity ready
	3						1c – Shoot: Shooter tilt ready
	4						1d – Shoot: Speaker april tag detected
	5						1e – Amp/Trap: Note transferred to manipulator 2a – Climb up prepare can be pressed
	6						ta 1b 1c 1d 1e 2a Climb up repare can be pressed
	7						
	8						Abort 2c - Climb down prepare can be pressed 2d - Climb down execute can be pressed 2d - Climb down execute can be pressed
	-						
utputs	1	shoot -drive base ready	led 1a	high=on, low=off		Amber LED	Toggles 3c — Three position toggle switch — Speaker/Amp/Trap
				high=on, low=off		Amber LED	4a – Three position toggle switch – Amplification, Cooperition, None
		shoot -shooter tilt ready	led 1c	high=on, low=off		Amber LED	
		shoot -shooter april tag ready	led 1d	high=on, low=off		Amber LED	Shoot Hand Off Buttons
	5	okay to prepare to climb	led inside 3a-yellow	high=on, low=off		Yellow LED inside switch 3a	3a – Climb up prepare, move elevator and pivot to position to start climb 3b – Climb up execute, move to elevator to climb the robot
	6	ready to execute climb	led inside 3b-blue	high=on, low=off		Blue LED inside switch 3b	3d — Climb down prepare, move elevator and pivot to position to lower
	7	spare					3e – Climb down execute, move elevator to lower the robot
		ready to execute unclimb	led inside 3e -blue	high=on, low=off		Blue LED inside switch 3e	Shoot – Launch the note at the speaker
	9						Handoff – Move the note from the shooter platform to the manipulator
		Input 0 to LED panel			10 and 11 are two-bit interface to LED panel		
		Input 1 to LED panel			What the 2 bits mean is to be determined		Updates to Oi diagram:
	12						opuaces to or diagram.
	13						Add turtle button and remove handoff button
	14						Add table outloof and relinive handon button Combine 3d and 3e
	15						3. Keep 4a as a SPARE
	16						4. 3e becomes amp prepare (raises tramp arm but doesn't score)
							5. Move shoot and Turtle (labled as Hand Off) inwards
							6. add spare button