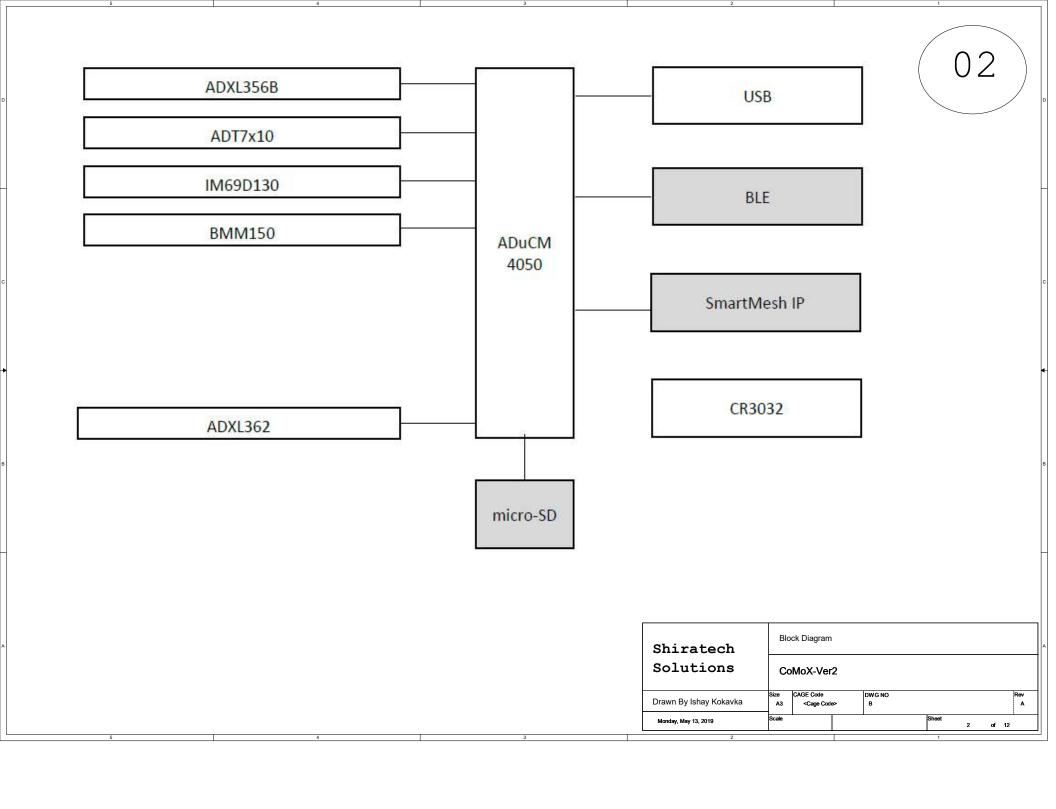
Schematics	Revision	Date	Release Information	
	A	DEC 04 2018	first version release	
	В	APR 25 2019	After First Prototype	
CoMoX-Ver2				

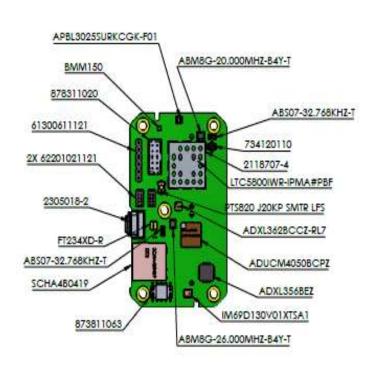
01	Revision History
02	Block Diagram
03	DXF
04	Stack Up
05	Power + Battery
06	ADuCM4050 - MCU
07	ADuCM4050 - MCU - MISC
80	Sensors - 1
09	Sensors - 2
10	Smart Mesh
11	BLE
12	SD-CARD

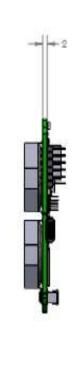
Changes From REV 1

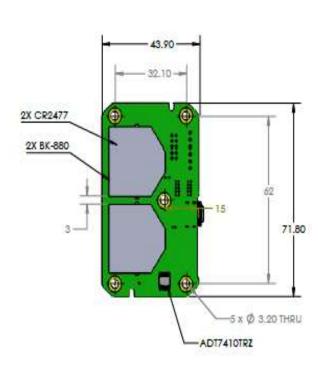
- 1. PAGE 03 Change DXF (Larger in 2mm)
- 2. PAGE 05 Added LDO for USB Input Power Option
- 3. PAGE 05 Add On/Off Power Switch
- 4. PAGE 06 Remove J10 Expention Connector
- 5. PAGE 06 Change CPU Pinout (Flash, J10 Removal
- 6. PAGE 06 Power EN Signals Removal, IM69D130V01XTSA1
- 7. PAGE 06 Power EN Signals Removal, BMM150
- 8. PAGE 06 Power EN Signals Removal, SD CARD POWER EN)
- 9. PAGE 06 Change D3 LED to Stright
- 10.PAGE 06 J3 Mirrored, Add Vibrator Option
- 11. PAGE 07 X1 Changed to USBC Connector
- 12.PAGE 07 Added 128M SPI FLASH To SPI2
- 13.PAGE 09 Remove Power EN from IM69D130V01XTSA1,BMM150
- 14.PAGE 09 Remove J4, Add ADAU7002ACBZ-R7 For MIC
- 15.PAGE 10 Smart Mash Fix Antenna Network
- 16.PAGE 10 Add Power EN to Smart Mash Chip
- 17.PAGE 12 Remove Power EN from SD CARD

Shiratech Solutions	Re	vision Histo	ry						
	Co	oMoX-Ver	2						
Drawn By Ishay Kokavka	Size A3	CAGE Code <cage cod<="" th=""><th></th><th>DWG NO</th><th></th><th></th><th></th><th></th><th>Rev B</th></cage>		DWG NO					Rev B
2.a 2, ionay Rohavia		~cage cou	•	^					
Monday, May 13, 2019	Scale	•			Sheet	1	of	12	





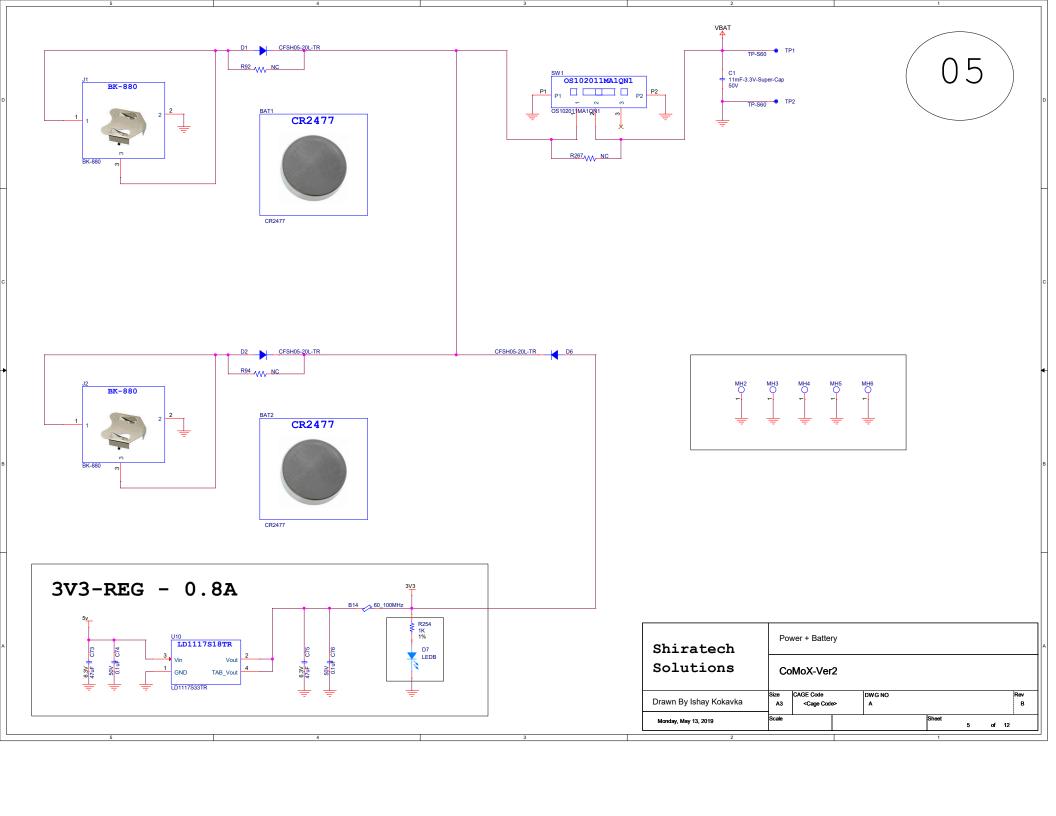


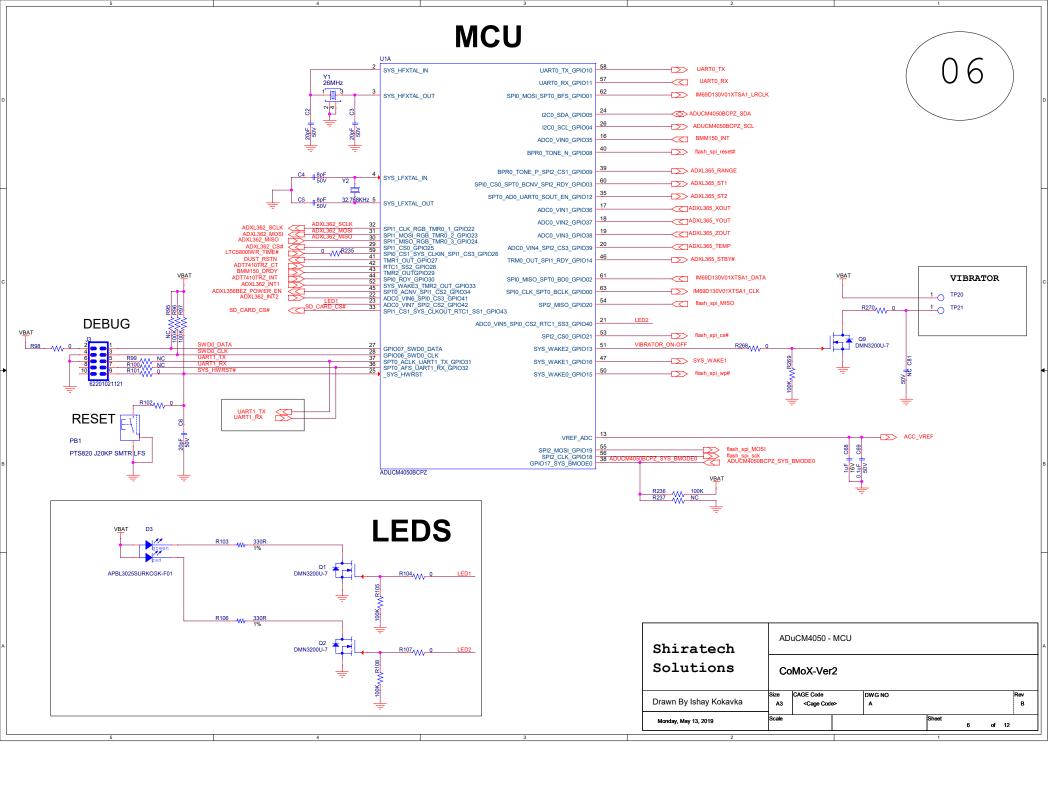


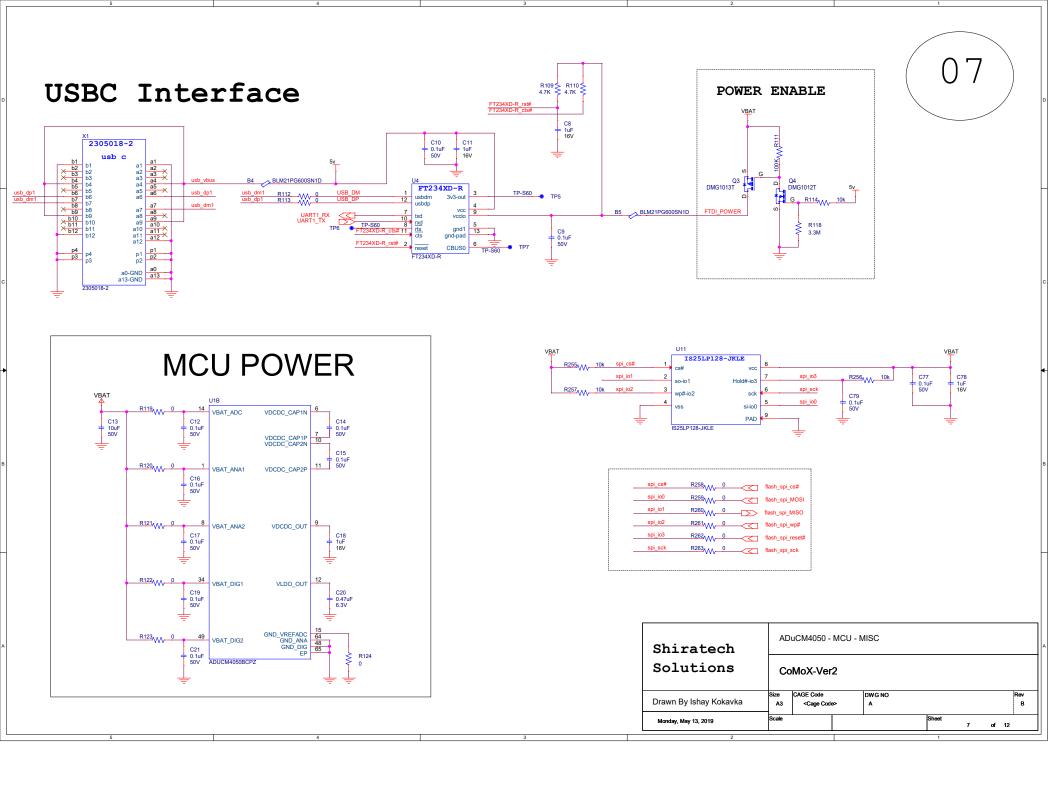
Shiratech	DX	DXF										
Solutions		CoMoX-Ver2										
Drawn By Ishay Kokavka	Size A3	CAGE Code <cage code=""></cage>		DWG NO A					Rev B			
Monday, May 13, 2019	Scale	Scale			Sheet	3	of	12				

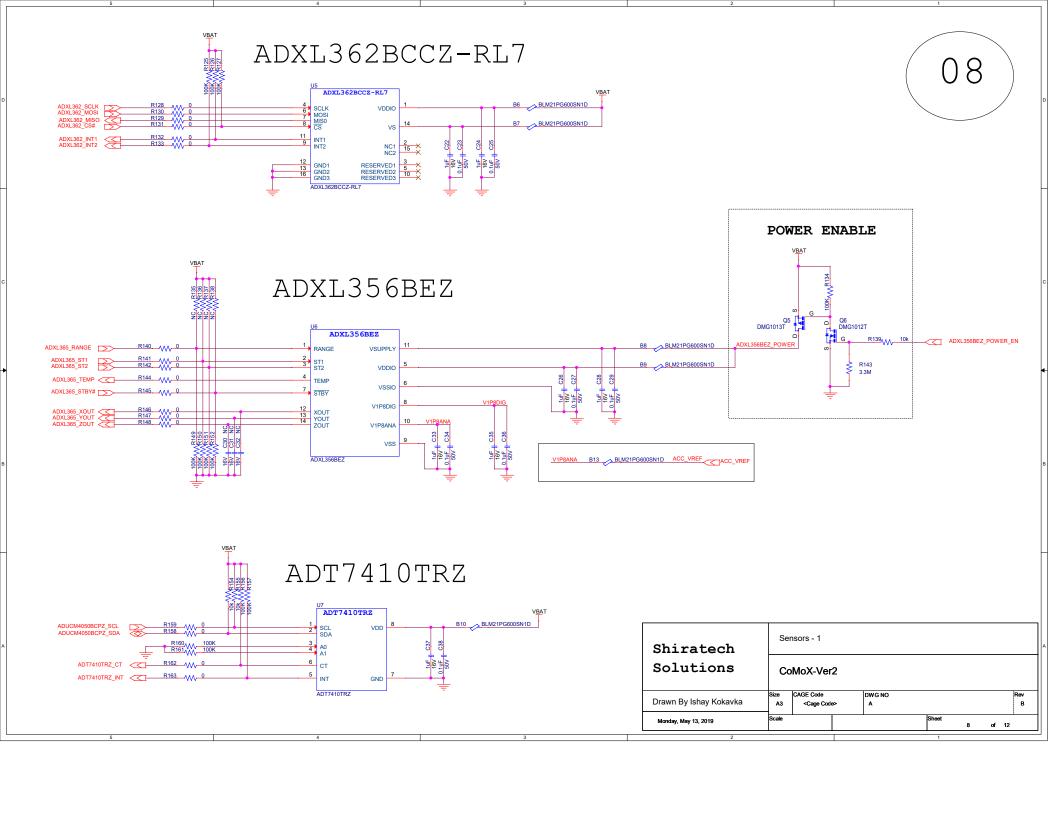
layer	name	cu thickness (mil)	dielectric thickness (mil)	line width base (mil)	gnd separation(mil)	differential space (mil)	er	Zo (ohms)	Zdiff (ohms)
cores- Date: 31/12/2018 Customer: maagalim Boardname:comox v1			-		Y		1		
1 (ref. plane)	rf	2	1	17	17		3.8	50.20339773	
core glass epoxy (tg 180)			1	0	8	6	3.8		89.97674622
2 (ref. plane)	gnd	(1)	4						
pp glass epoxy (tg 180)				6					
3 (offset stripline)	sig	0.	7	5	5		3.8	49.89475386	
core glass epoxy (tg 180)			<u>"</u>	5					
4 (ref. plane)	gnd	1	4						
pp glass epoxy (tg 180)			2	5					
5 (ref. plane)	pwr	1	4	·					
core glass epoxy (tg 180)		- 12 		5					
6 (offset stripline)	sig	0.	7				3.8	49.89475386	(
pp glass epoxy (tg 180)				6					
7 (ref. plane)	gnd	1	4						
core glass epoxy (tg 180)	173		1	0					
8 (coated microstrip)	rf	. 2	1	9	9	Θ	3.8	142.5316069	89.97674622
				17	17		3.8	50.20339773	
		0.3044							
total thickness (including plating and solder mask) +/- 10%			2.0062	8					
impedance on the manufactured boards will be within +/- 10% of the values	calculated a	above							

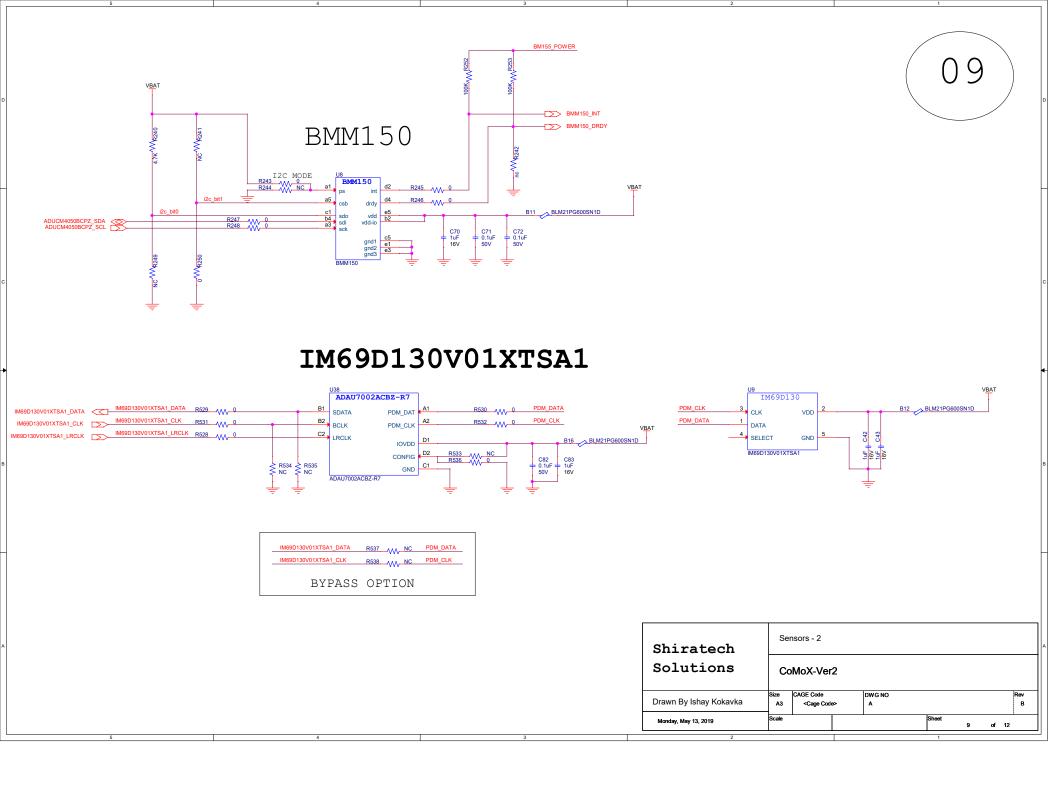
Shiratech	Sta	Stack Up									
Solutions	Co	MoX-Ver	2								
Drawn By Ishay Kokavka	Size A3	CAGE Code <cage code=""></cage>		DWG NO A				R	ev B		
Monday, May 13, 2019	Scale				Sheet	4	of	12			

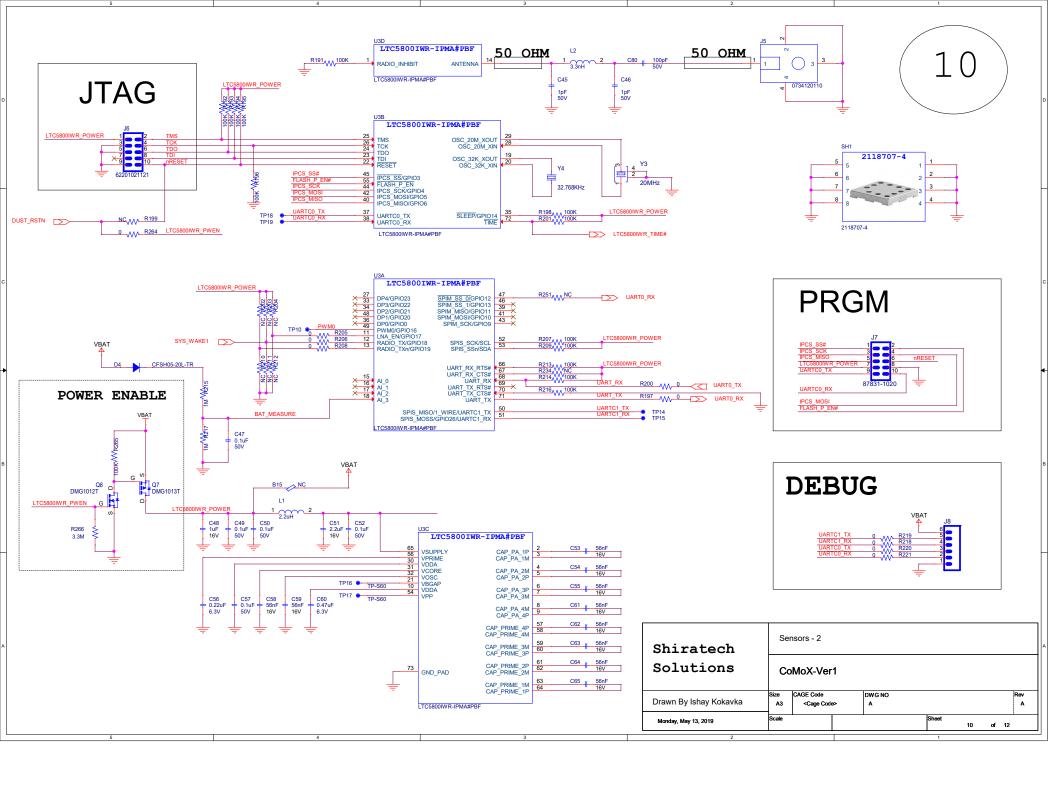






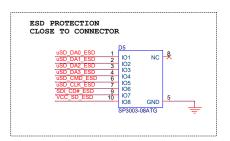


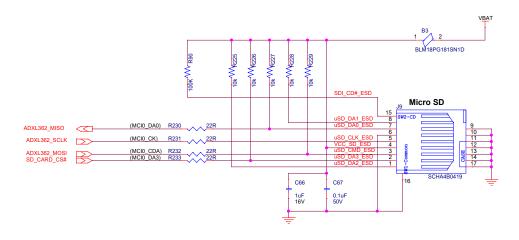




TBD BLE NORDIC MODULE - NO MASH VERSION

Shiratech	BL	BLE									
Solutions		CoMoX-Ver2									
Drawn By Ishay Kokavka	Size A3	CAGE Code <cage cod<="" th=""><th colspan="2">CAGE Code <cage code=""></cage></th><th></th><th></th><th></th><th></th><th>Rev B</th></cage>	CAGE Code <cage code=""></cage>						Rev B		
Monday, May 13, 2019	Scale	Scale		1	Sheet	11	of	12			





Shiratech	SE	-CARD							
Solutions	Co	oMoX-Vei	2						
Drawn By Ishay Kokavka	Size A3			DWG NO A					Rev B
	<u> </u>	-Cage Cod		^	la				Ľ
Monday, May 13, 2019	Scale				Sheet	12	of	12	