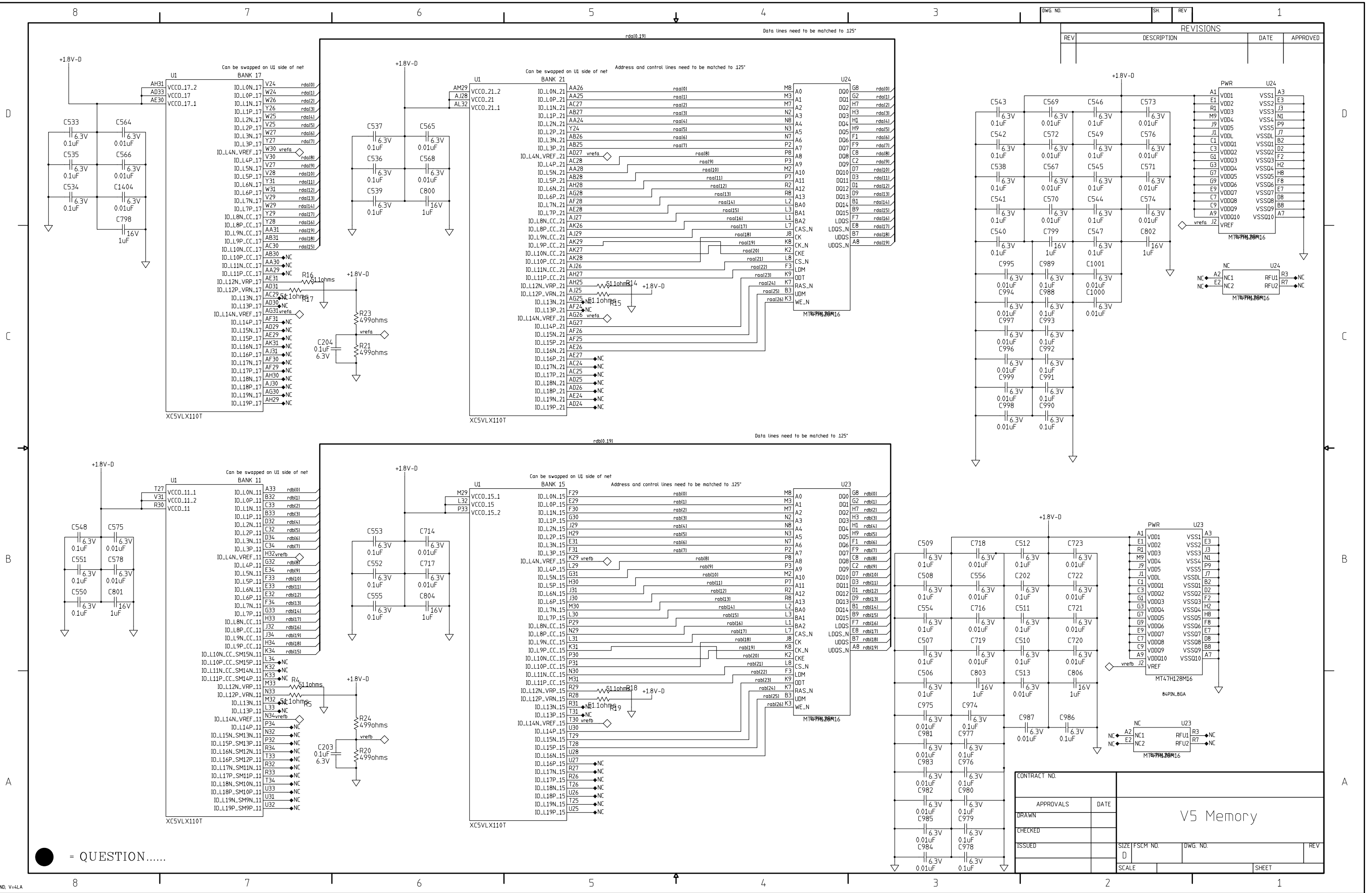


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

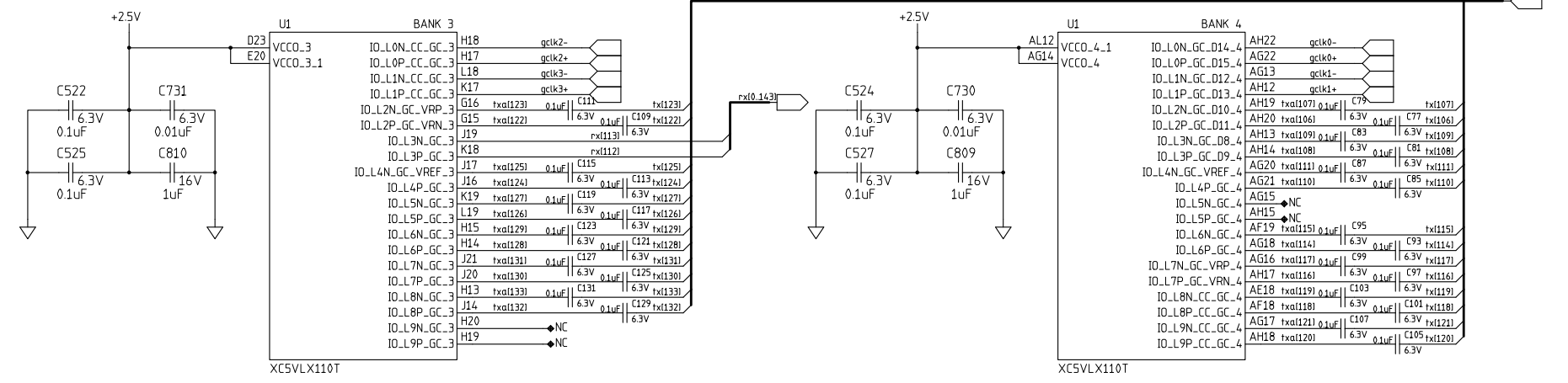
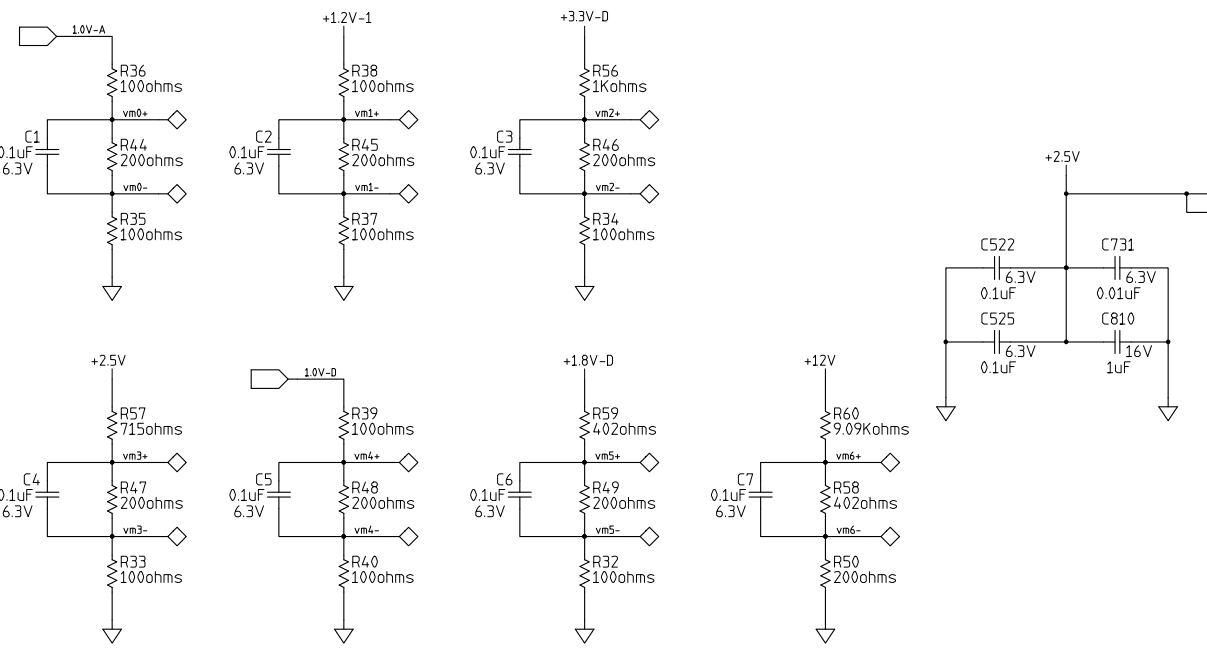
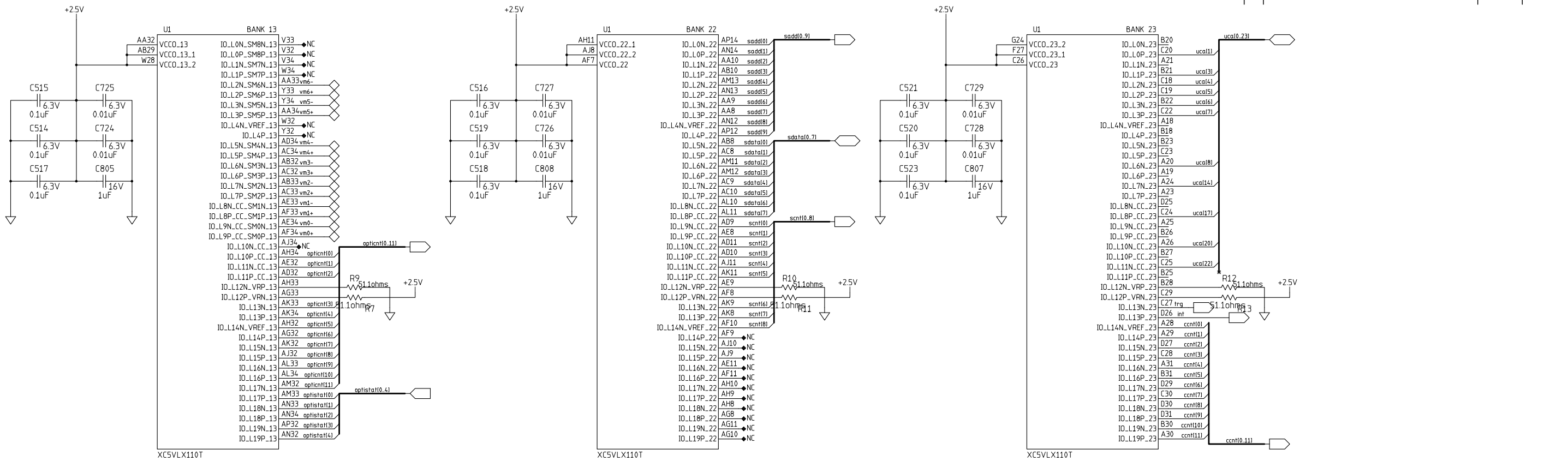


CONTRACT NO.		DATE	
APPROVALS		DATE	
DRAWN		DATE	
CHECKED		DATE	
ISSUED		DATE	
SIZE	FSCM NO.	DWG. NO.	REV
D			
SCALE			SHEET

V5 Memory

● = QUESTION.....

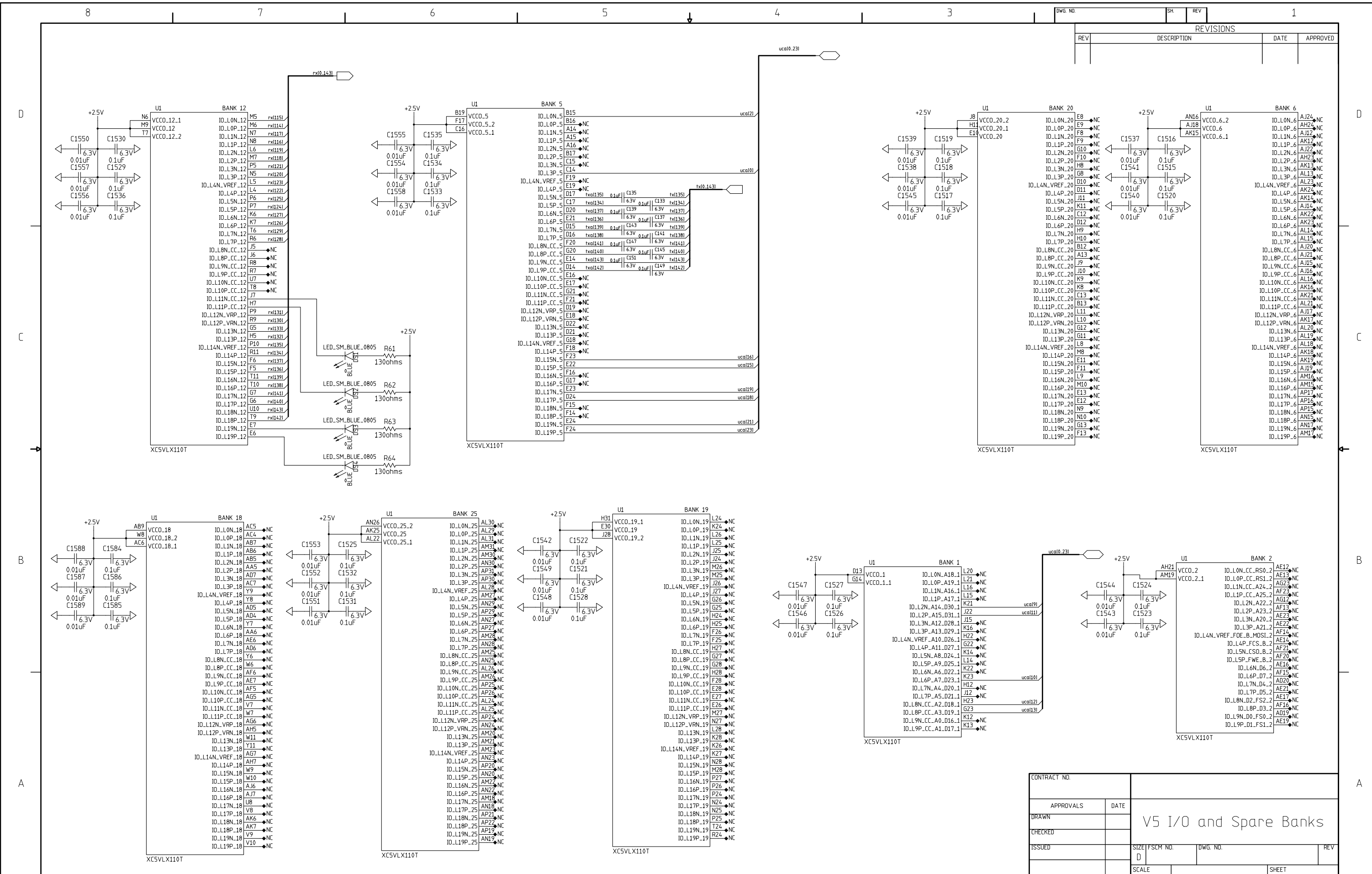
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



CONTRACT NO.			
APPROVALS	DATE		
DRAWN			
CHECKED			
ISSUED		SIZE FSCM NO.	DWG. NO.
		D	
		SCALE	SHEET
			1

V5 I/O and Clocking

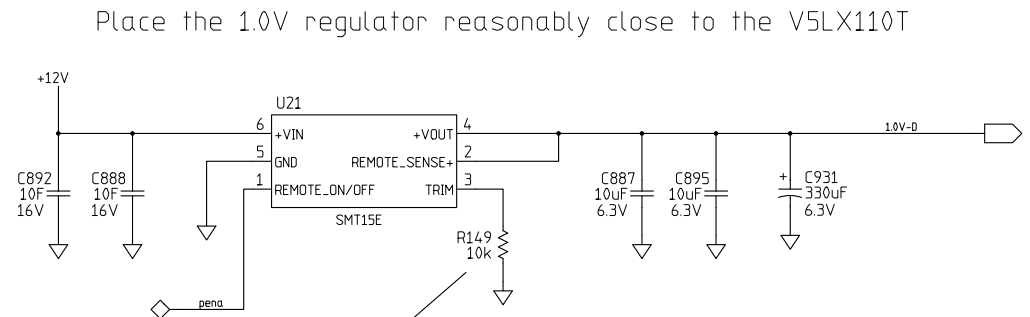
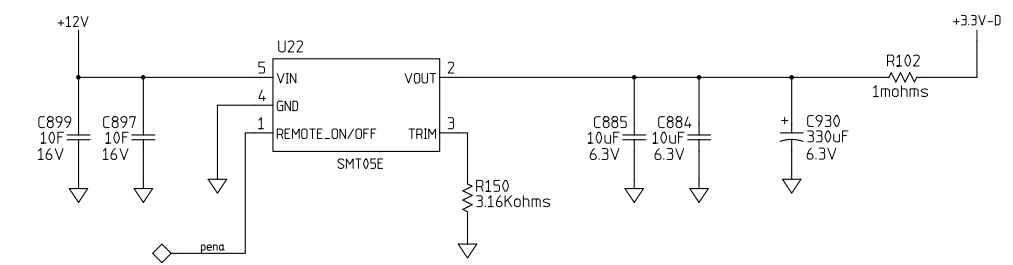
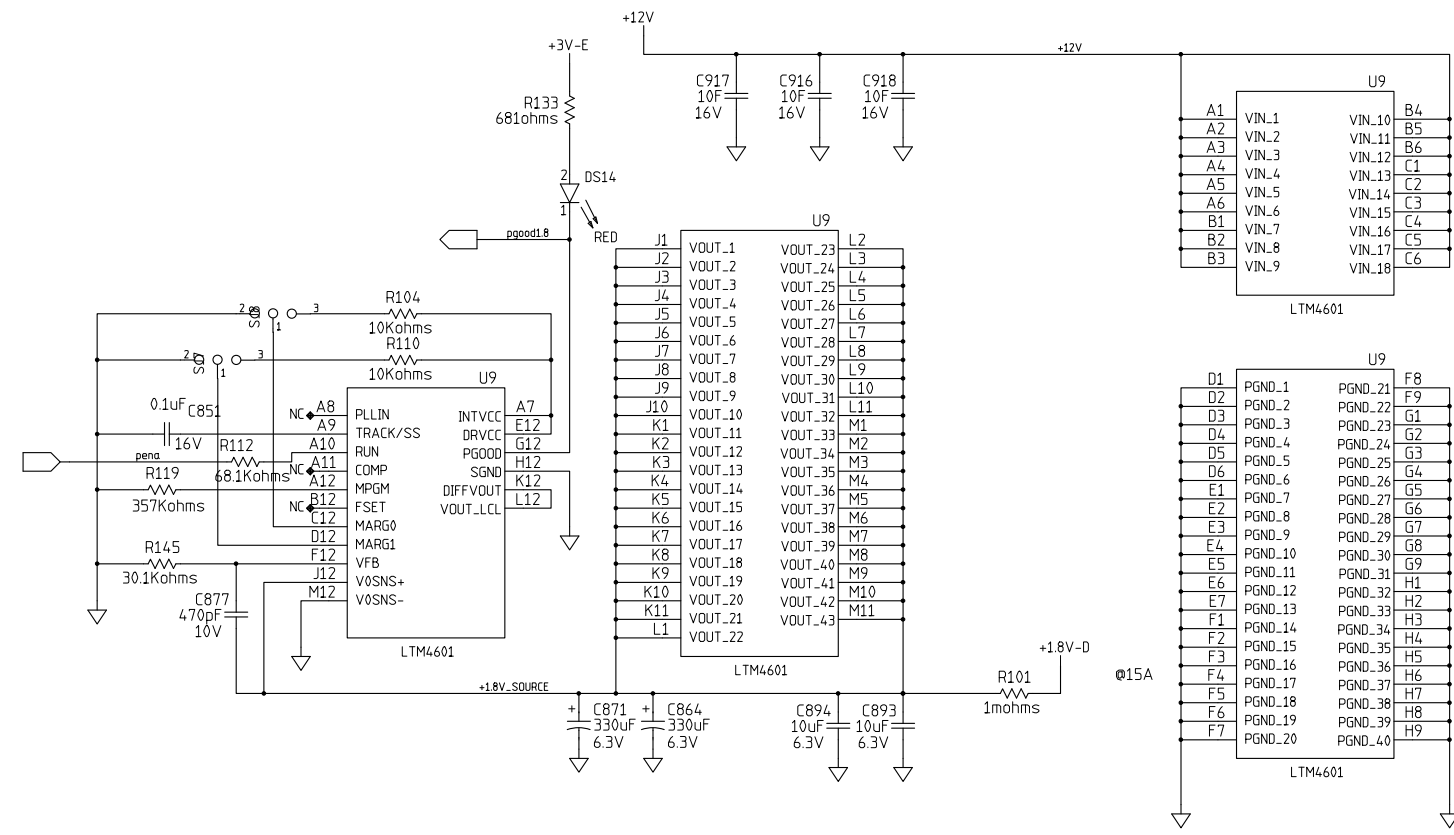
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



CONTRACT NO.			
APPROVALS	DATE		
DRAWN			
CHECKED			
ISSUED		SIZE (FSCM NO.)	DWG. NO.
		D	
		SCALE	SHEET

V5 I/O and Spare Banks

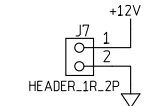
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



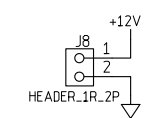
Place the 1.0V regulator reasonably close to the V5LX110T

***MAT DOUBLE CHECK CALC...

47.5k Matt on 07-08-2008

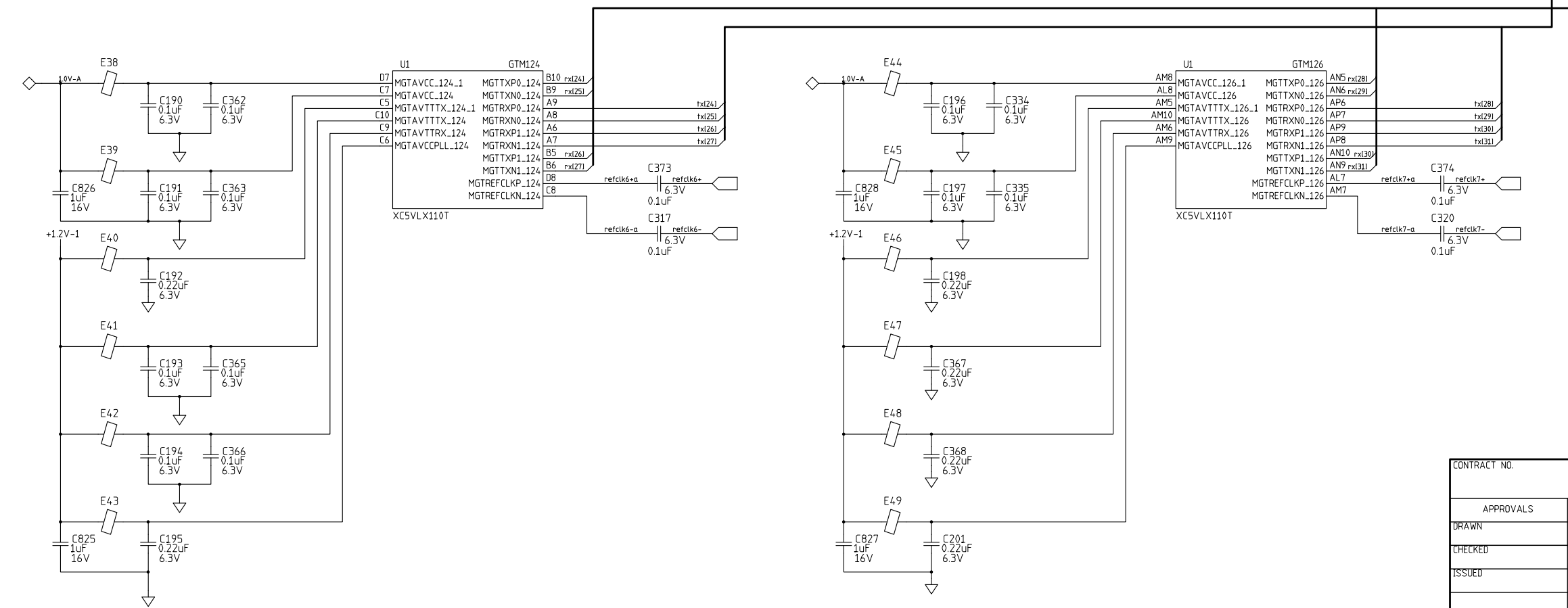
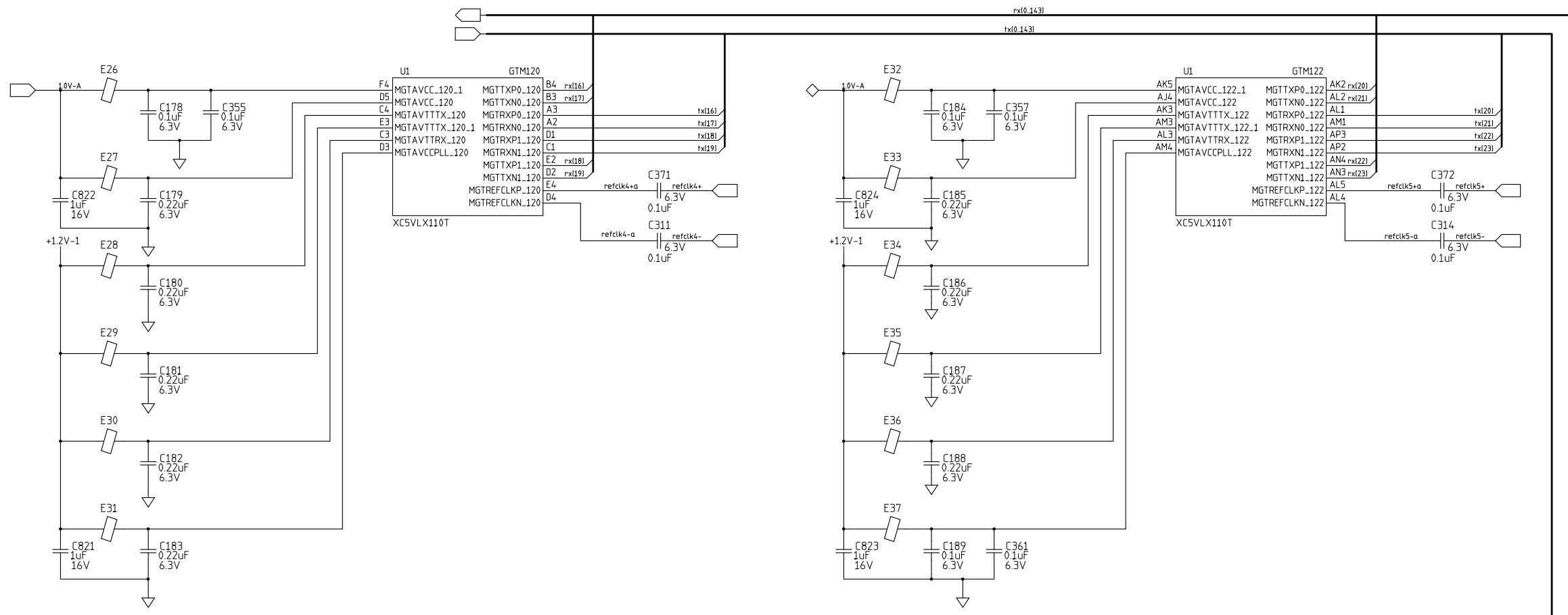


FOR BGA COOLING FANS



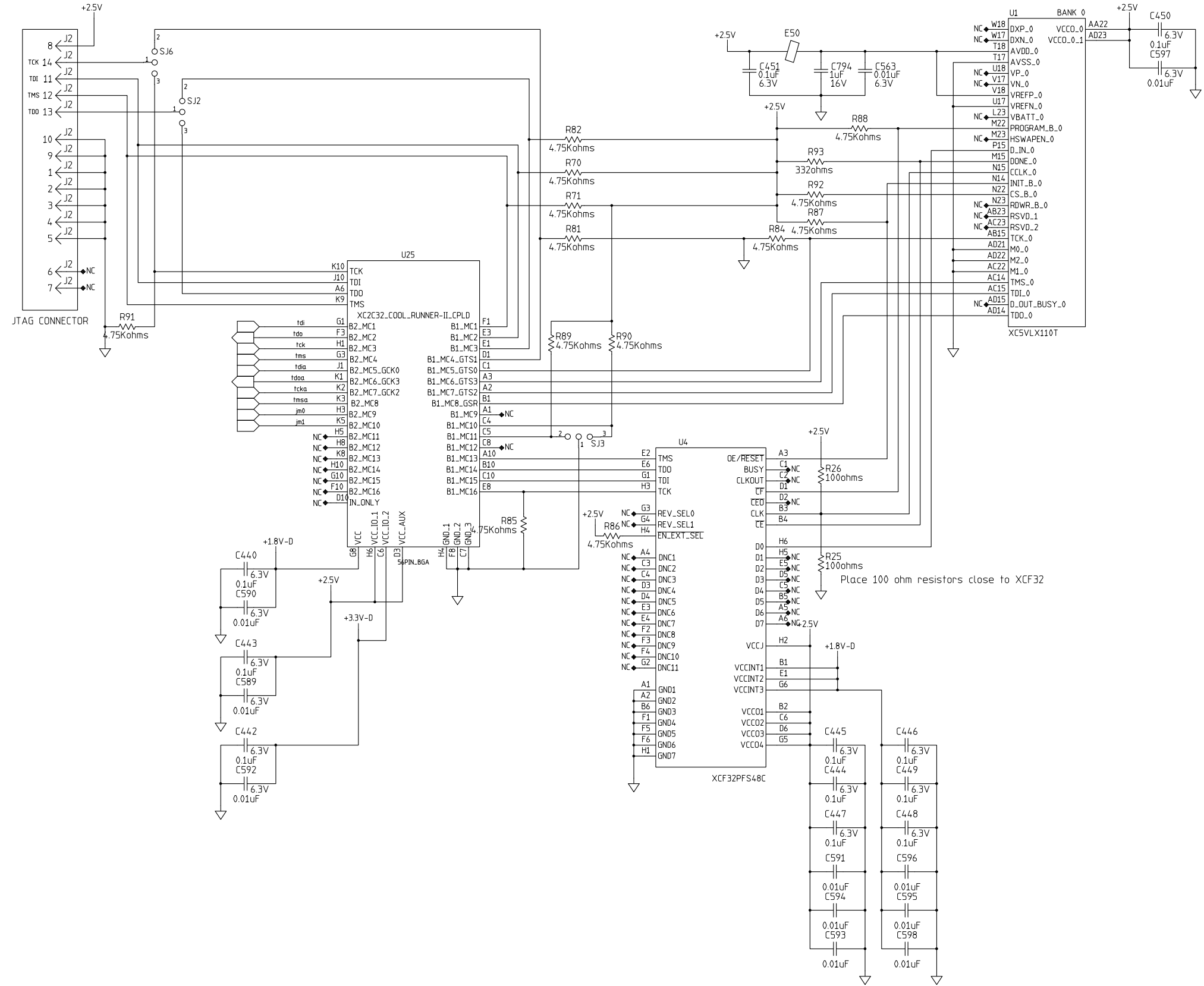
CONTRACT NO.			
APPROVALS	DATE		
DRAWN		Alternate Primary Power	
CHECKED		SIZE	FSCM NO.
ISSUED		D	DWG. NO.
		SCALE	REV
			SHEET

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



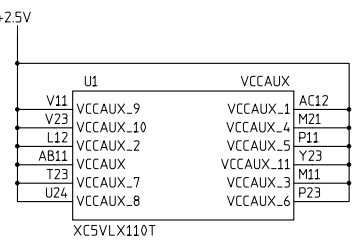
CONTRACT NO.			
APPROVALS	DATE	V5 GTM	
DRAWN			
CHECKED			
ISSUED			
		SIZE / FSCM NO.	DWG. NO.
		D	
		SCALE	SHEET

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

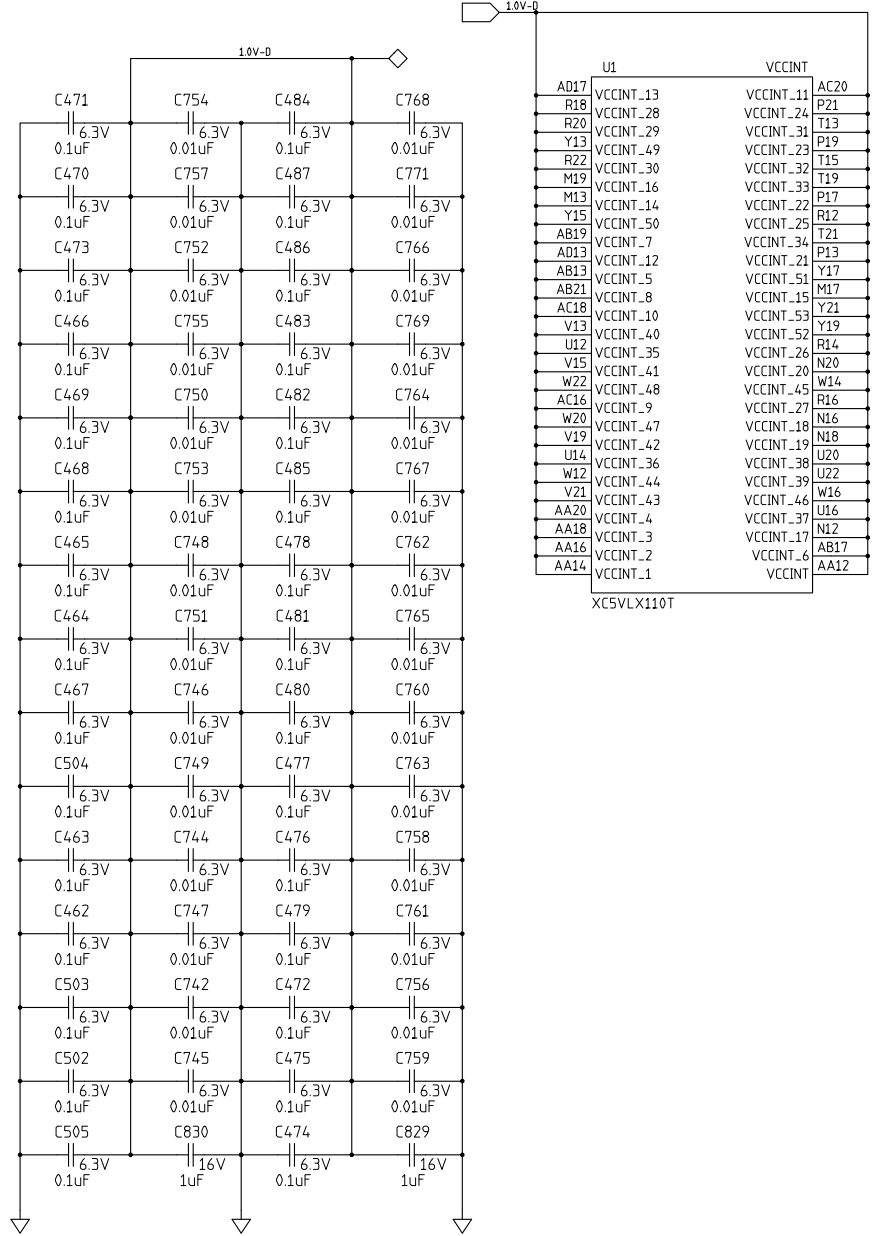
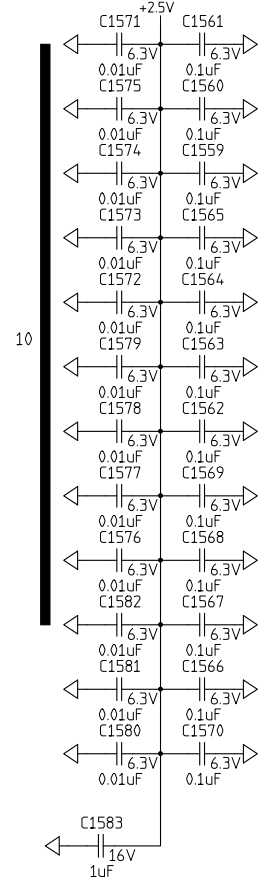


CONTRACT NO.					
APPROVALS	DATE	V5 Config			
DRAWN					
CHECKED					
ISSUED					
		SIZE	FSCM NO.	DWG. NO.	REV
		D			
		SCALE		SHEET	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



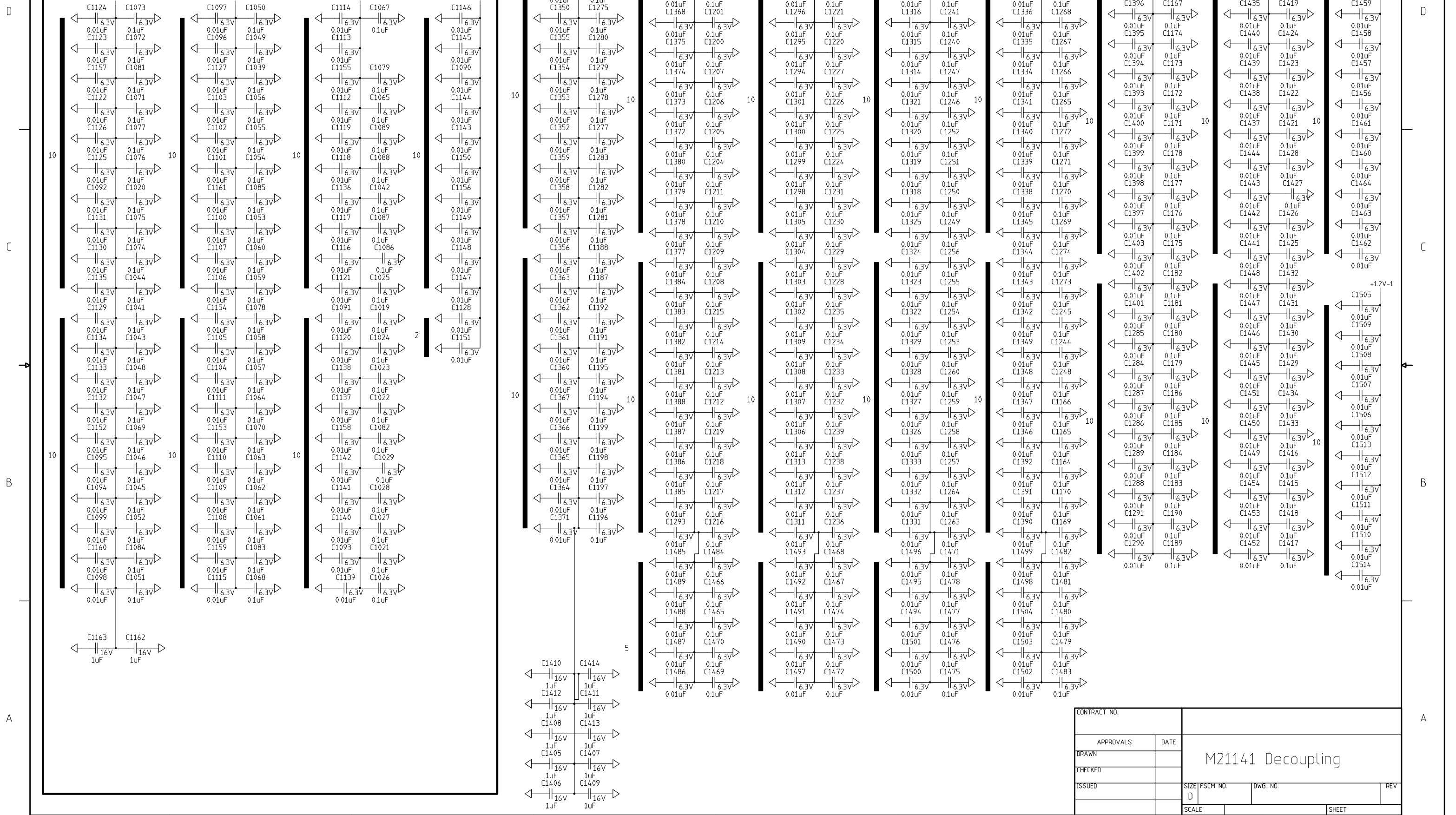
VCC AUX (12-PINS)



CORE DECOUPLING
M21141 MINDSPEED
U3
72 PINS

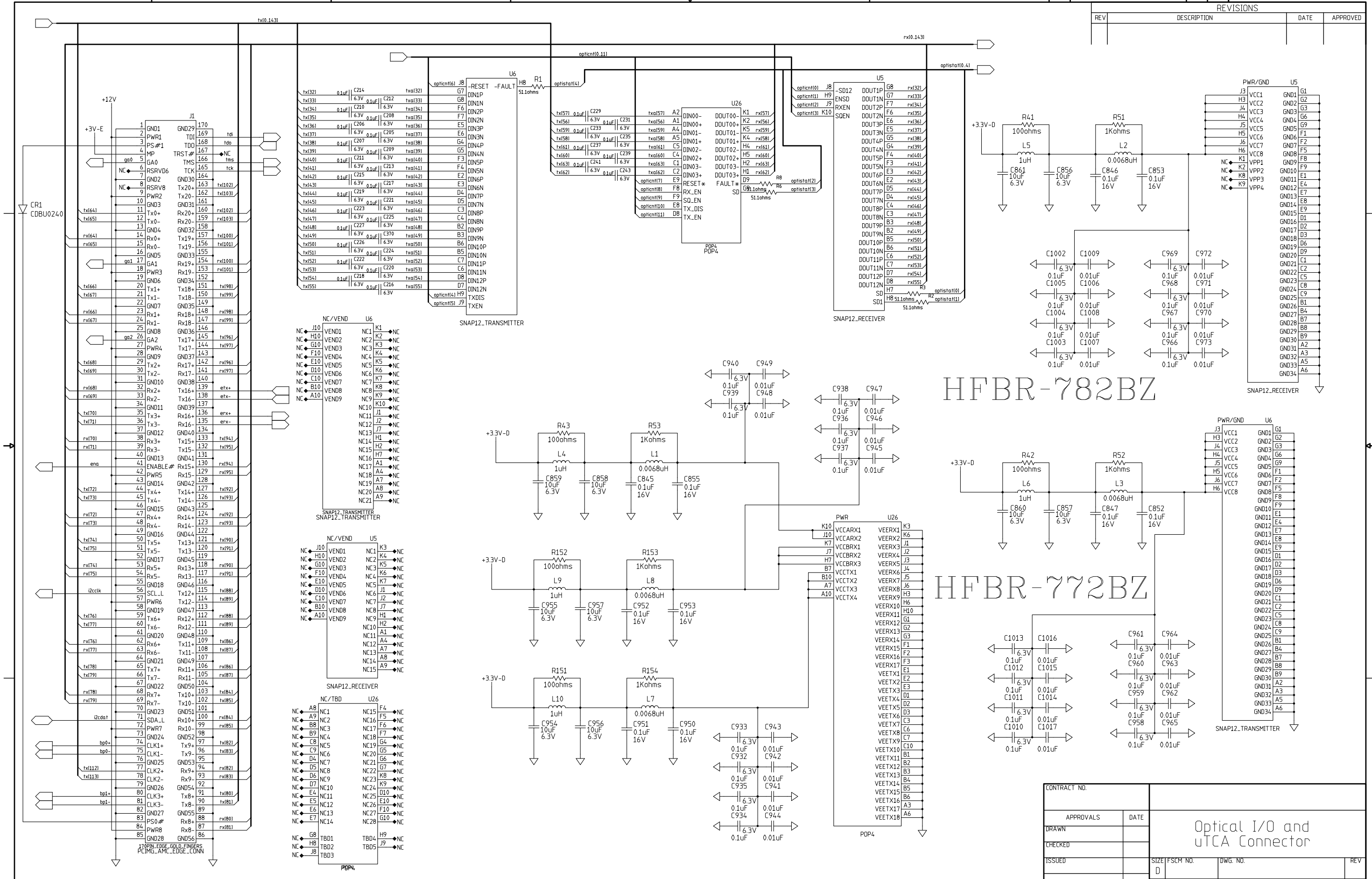
I/O DECOUPLING M21141 MINDSPEED U3 170 PINS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



CONTRACT NO.			
APPROVALS	DATE	M21141 Decoupling	
DRAWN			
CHECKED			
ISSUED			
		SIZE FSCM NO.	DWG. NO.
		SCALE	SHEET

REV	DESCRIPTION	DATE	APPROVED



PWR/GND U5

J3	VCC1	GND1	G1
H3	VCC2	GND2	G2
J4	VCC3	GND3	G3
H4	VCC4	GND4	G6
J5	VCC5	GND5	G9
H5	VCC6	GND6	F1
J6	VCC7	GND7	F2
H6	VCC8	GND8	F5
NC	K1	VPP1	GND9
NC	K2	VPP2	GND10
NC	K8	VPP3	GND11
NC	K9	VPP4	GND12
			GND13
			GND14
			GND15
			GND16
			GND17
			GND18
			GND19
			GND20
			GND21
			GND22
			GND23
			GND24
			GND25
			GND26
			GND27
			GND28
			GND29
			GND30
			GND31
			GND32
			GND33
			GND34

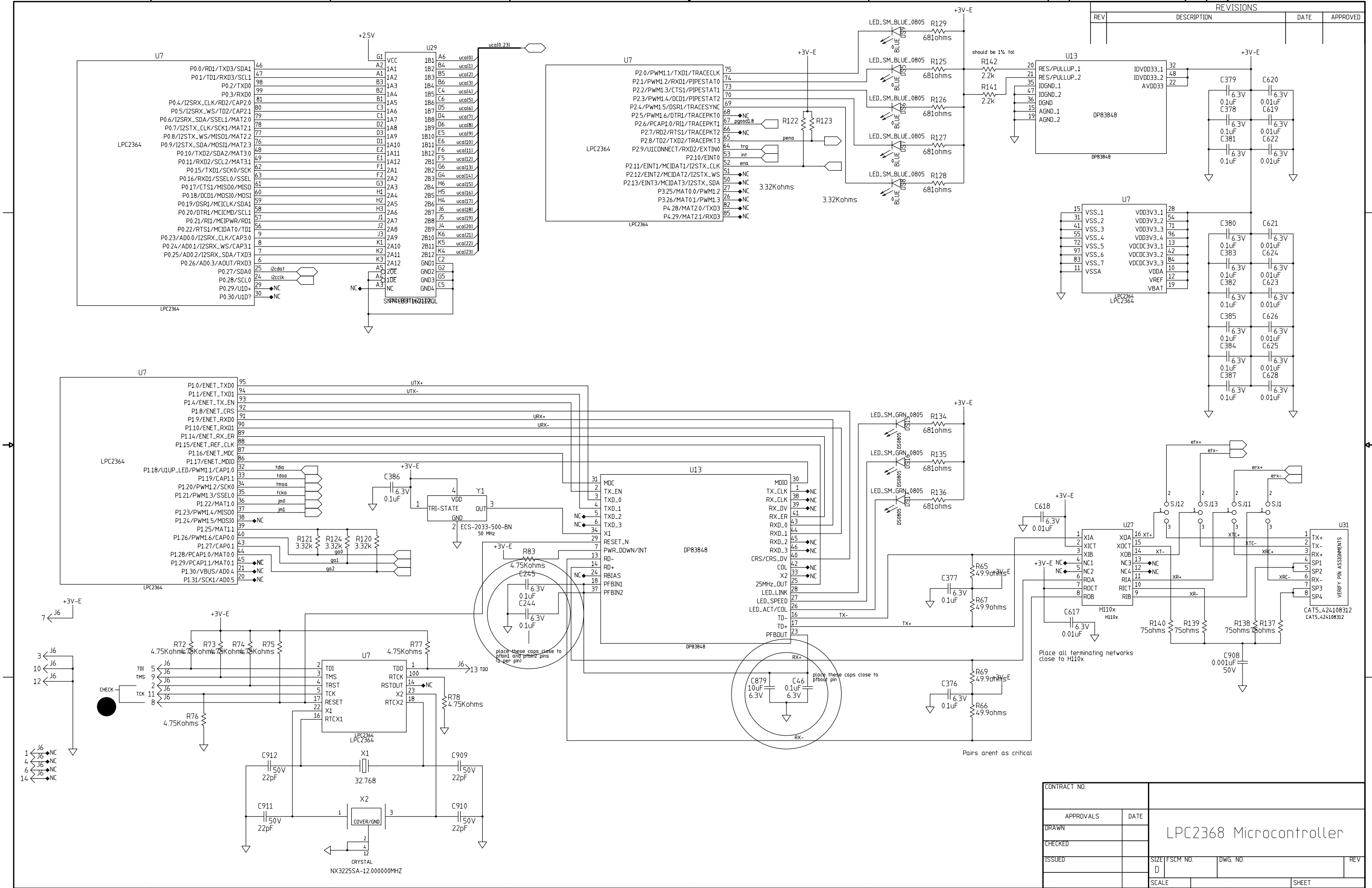
PWR/GND U6

J3	VCC1	GND1	G1
H3	VCC2	GND2	G2
J4	VCC3	GND3	G6
H4	VCC4	GND4	G9
J5	VCC5	GND5	F1
H5	VCC6	GND6	F2
J6	VCC7	GND7	F5
H6	VCC8	GND8	F8
			GND9
			GND10
			GND11
			GND12
			GND13
			GND14
			GND15
			GND16
			GND17
			GND18
			GND19
			GND20
			GND21
			GND22
			GND23
			GND24
			GND25
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			GND32
			GND33
			GND34

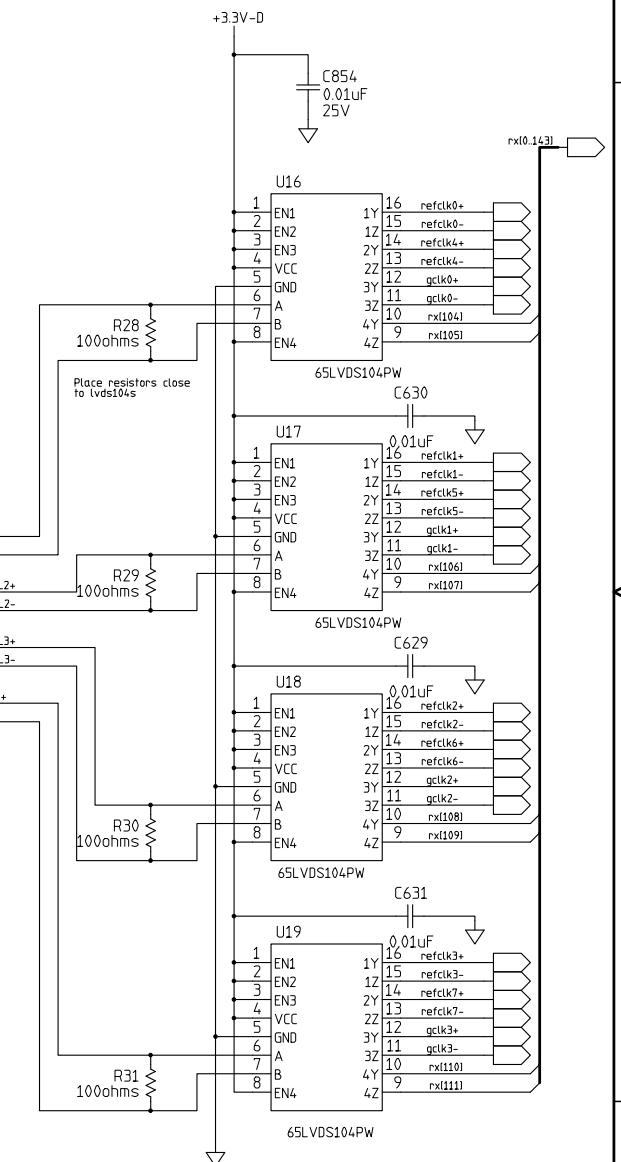
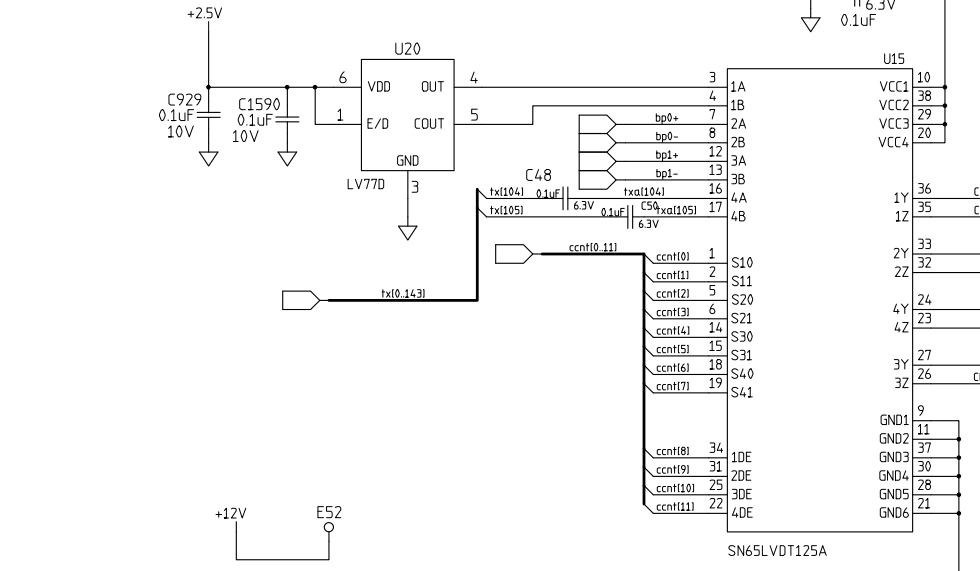
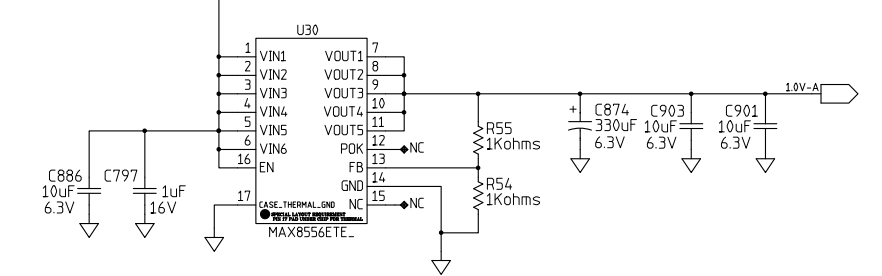
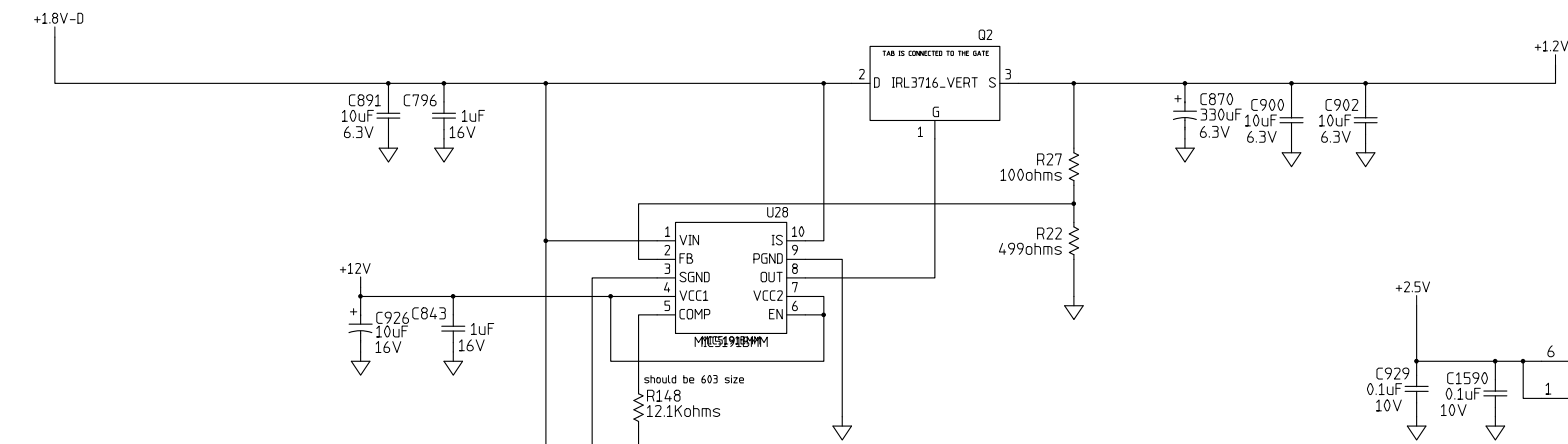
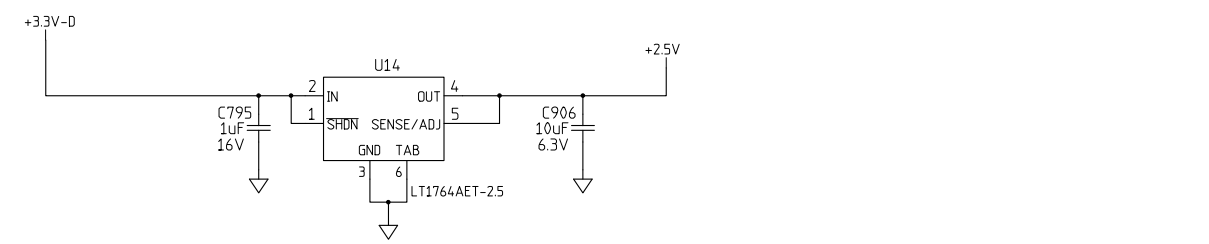
CONTRACT NO.		APPROVALS		DATE
DRAWN				
CHECKED				
ISSUED				
		SIZE	FSCM NO.	DWG. NO.
		D		
		SCALE		SHEET

Optical I/O and uTCA Connector

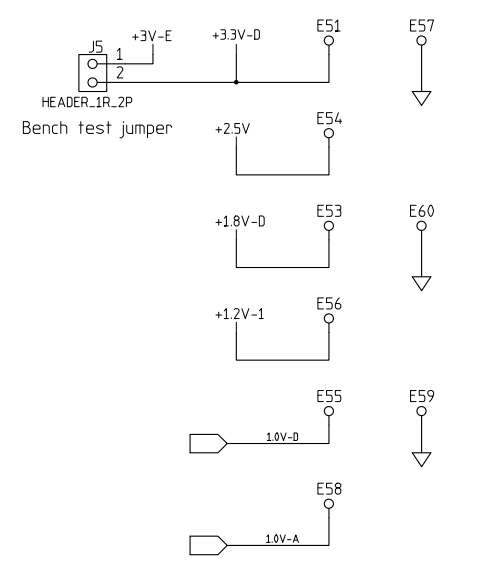
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



All clock signals are impedance controlled differential pairs.



CONTRACT NO.		DATE		Analog Power and Clock Distribution	
APPROVALS					
DRAWN					
CHECKED					
ISSUED		SIZE	FSCM NO.	DWG. NO.	REV
		D			
		SCALE		SHEET	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

D

D

C

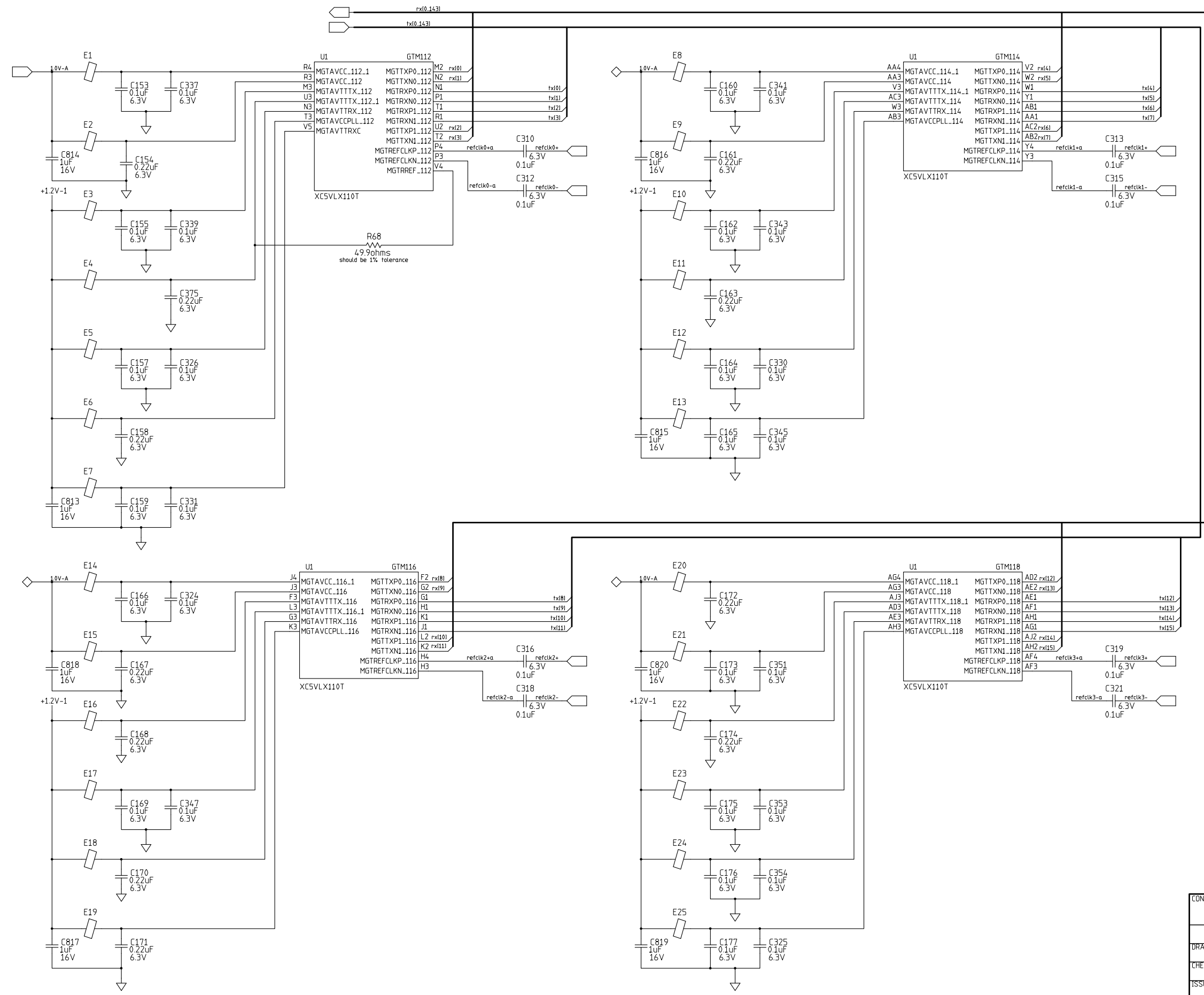
C

B

B

A

A



CONTRACT NO.			
APPROVALS	DATE	V5 GTM	
DRAWN			
CHECKED			
ISSUED			
		SIZE / FSCM NO.	DWG. NO.
		D	
		SCALE	SHEET

CLASS 2 BOARD PROPOSED TO DDI ON: 05/15/2008

Proposed AMC module stacks	Conventional	Micro-laser drill with B-Stage	Visual only	micro-laser DDI WILL BE TAKING MY 1-3 AND STACK IT WITH THE 1-2 & 2-3 VIA'S	Visual only	Micro-laser DDI WILL BE TAKING MY 1-6 AND STACK IT WITH THE 1-2 & 2-6 VIA'S AND MY 7-12 AND STACKING IT WITH 11-12 & 7-11 VIA	conventional
1 copper 0.0005	1 thru 12	.004 hole					SURFACE
dielectric 0.0025		1-2 u		.008 hole			GND /PWR PLANE
2 copper 0.0005		.010 pad	.008 hole	1-3 u			Pair Layer (3.5trace--5.5 space)
dielectric 0.004			2-3 u	.016 pad	.008 hole	.008 hole	PWR PLANE
3 copper 0.0007					2 thru 6	1 thru 6	Pair Layer (3.5trace--5.5 space)
dielectric 0.005					.016 pad	.016 pad	SIG----GND OVER PAIRS....OR PWR
4 copper 0.0014							SIG----GND OVER PAIRS....OR PWR
dielectric 0.004							Pair Layer (3.5trace--5.5 space)
5 copper 0.0007							SIG----GND OVER PAIRS
dielectric 0.005							Pair Layer (3.5trace--5.5 space)
6 copper 0.0005							GND /PWR PLANE
dielectric 0.006							SURFACE/GND
7 copper 0.0005							
dielectric 0.005							
8 copper 0.0007							
dielectric 0.004							
9 copper 0.0014					.008 hole	.008 hole	
dielectric 0.005					7 thru 11	7 thru 12	
10 copper 0.0007			.008 hole	.008 hole	.016 pad	.016 pad	
dielectric 0.004			10-11 u	10-12 u			
11 copper 0.0005		.004 hole	.016 pad	.016 pad			
dielectric 0.0025		11-12 u					
12 copper 0.0005		.010 pad					

0.004 ***plus plating (.001)x4 places on lyrs 2, 6, 7, 11

thk 0.0596

Layer 1 & 12 may be a little difficult to get 100 ohms

Things to do:

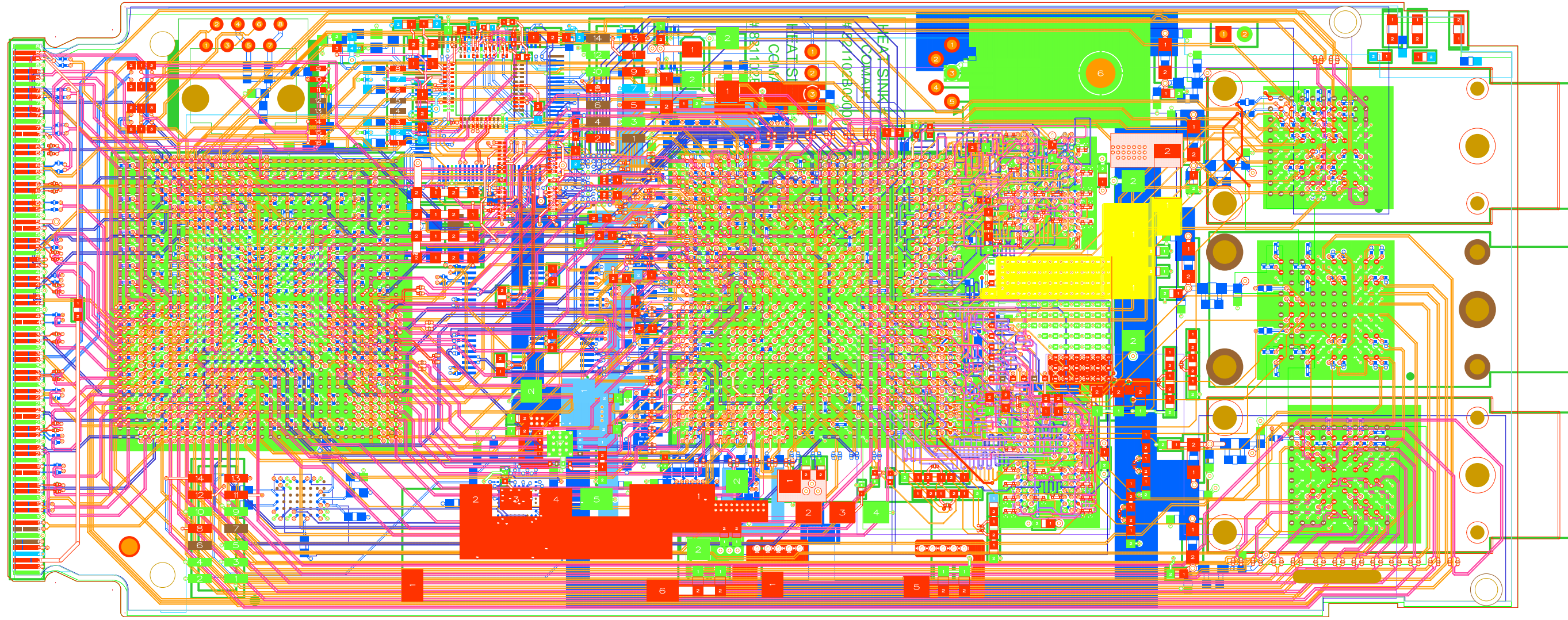
Holly 714-688-7284
 Sal Ledezma 714-688-7270
 Gil White Veriteck Assembly Questior M-714-815-5946

NET	LAYERS	# PINS ON NETS	
GND	2 & 11	1410	done-flood
+1.2V-1	4	472	
+1.8V-D	4	143	done
+1.8V_SOURCE	1	50	done
+2.5V	9	167	done-flood
+3.3V-D		55	
+3V-E	7	66	
+12V	6	44	
1.0V-A		35	Core w/fer
1.0V-D	1 & 3	21	done

caps needed

raa(0-26)
rab(0-26)

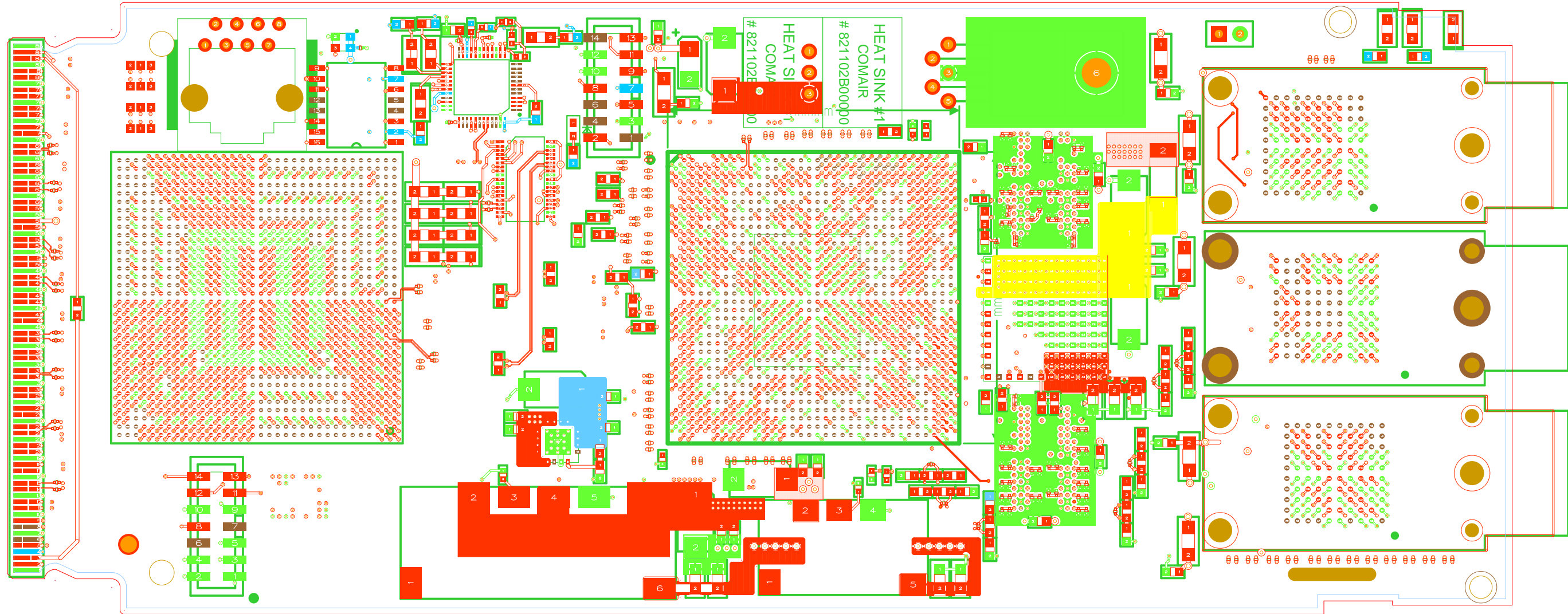
rda(0-19)
rdb(0-19)



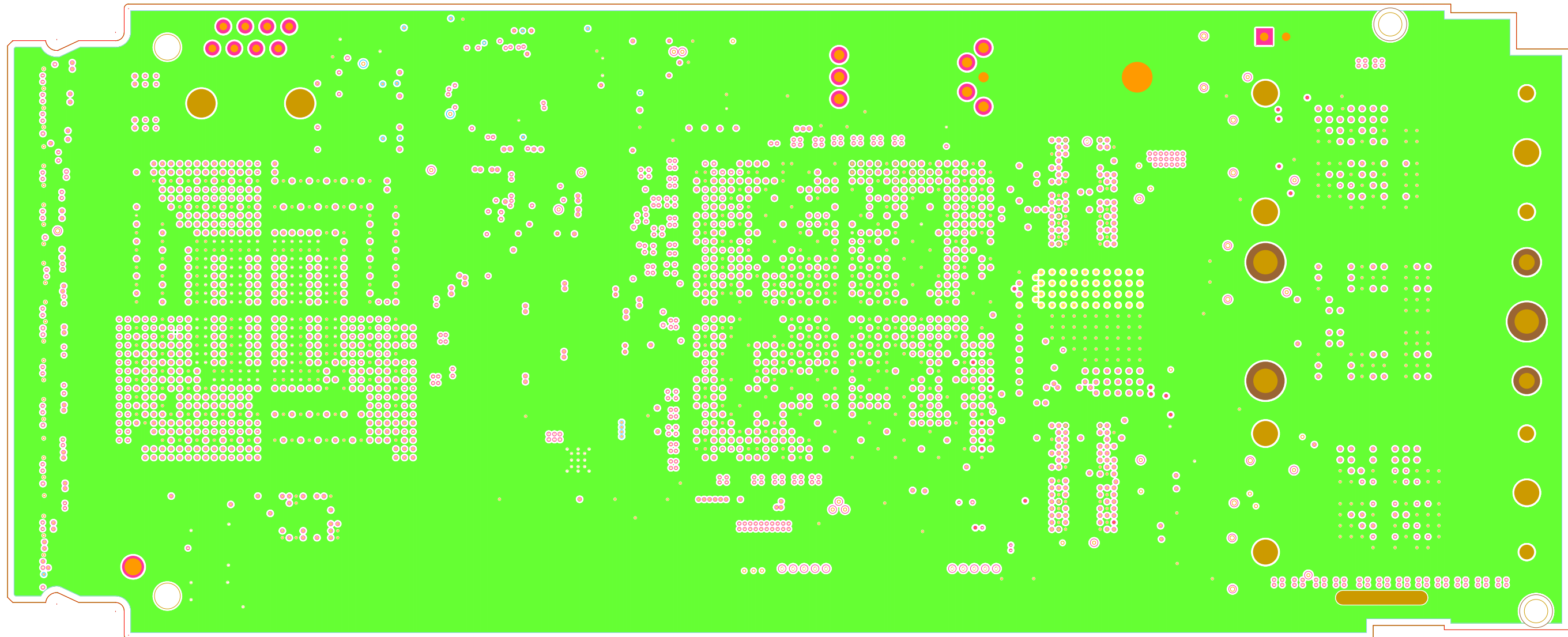
- M1-LAYER-1
- M2-LAYER-2
- M3-LAYER-3
- M4-LAYER-4
- M5-LAYER-5
- M6-LAYER-6
- M7-LAYER-7
- M8-LAYER-8
- M9-LAYER-9
- M10-LAYER-10
- M11-LAYER-11
- M12-LAYER-12

63Y-291782 AMC REVIEW 07/08/2008

M1-LAYER-1

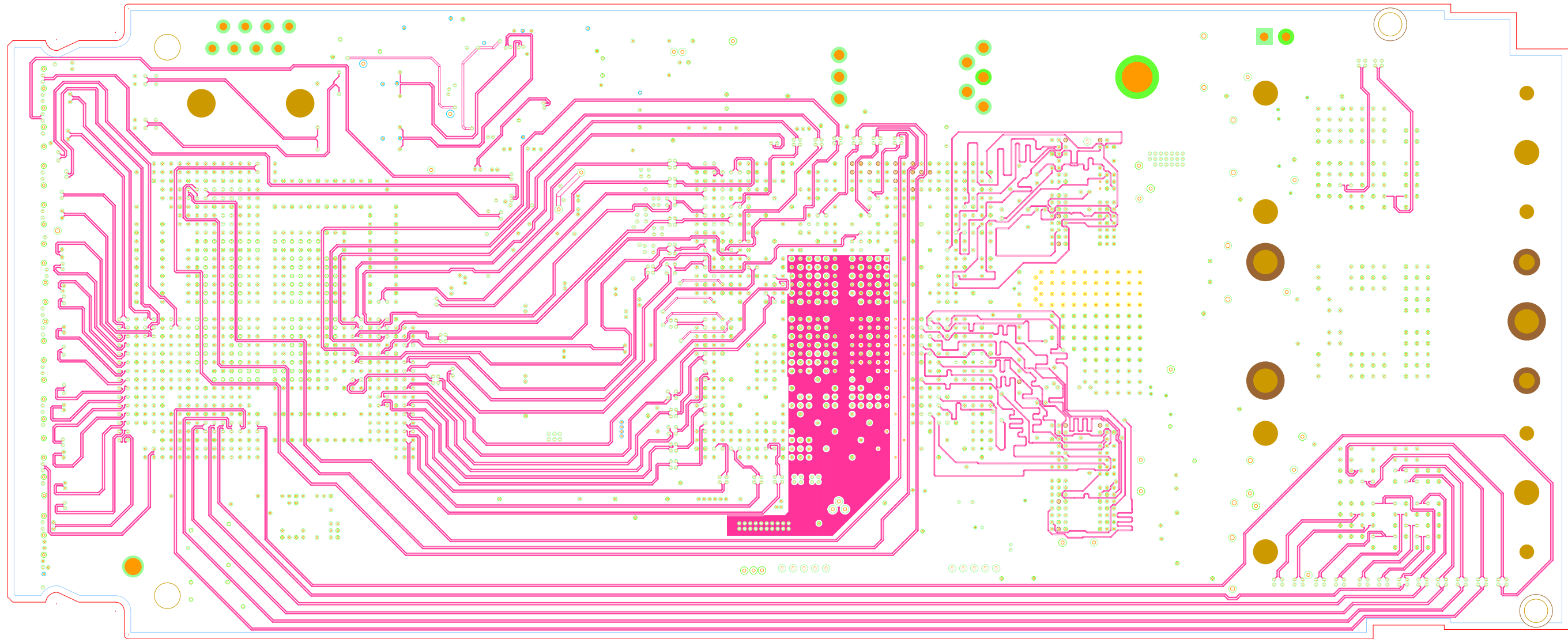


63Y-291782 AMC REVIEW 07/08/2008



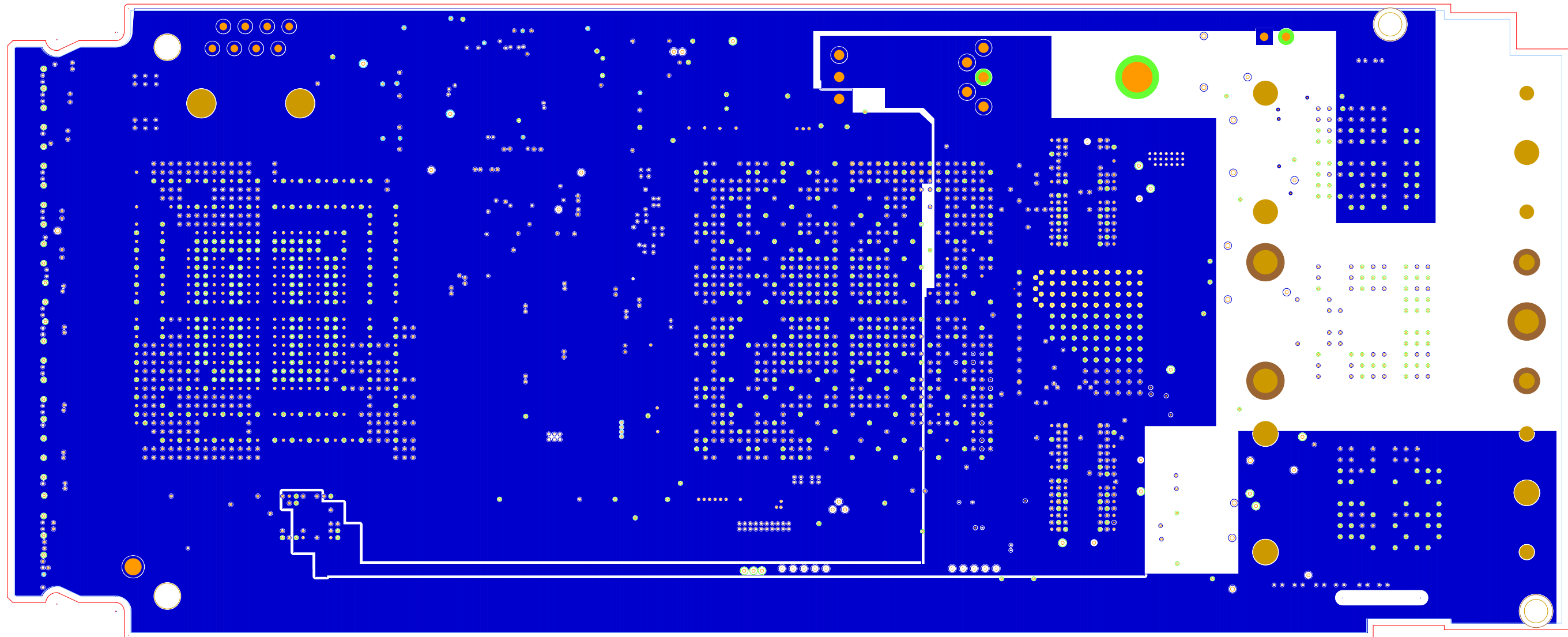
M2-LAYER-2

63Y-291782 AMC REVIEW 07/08/2008



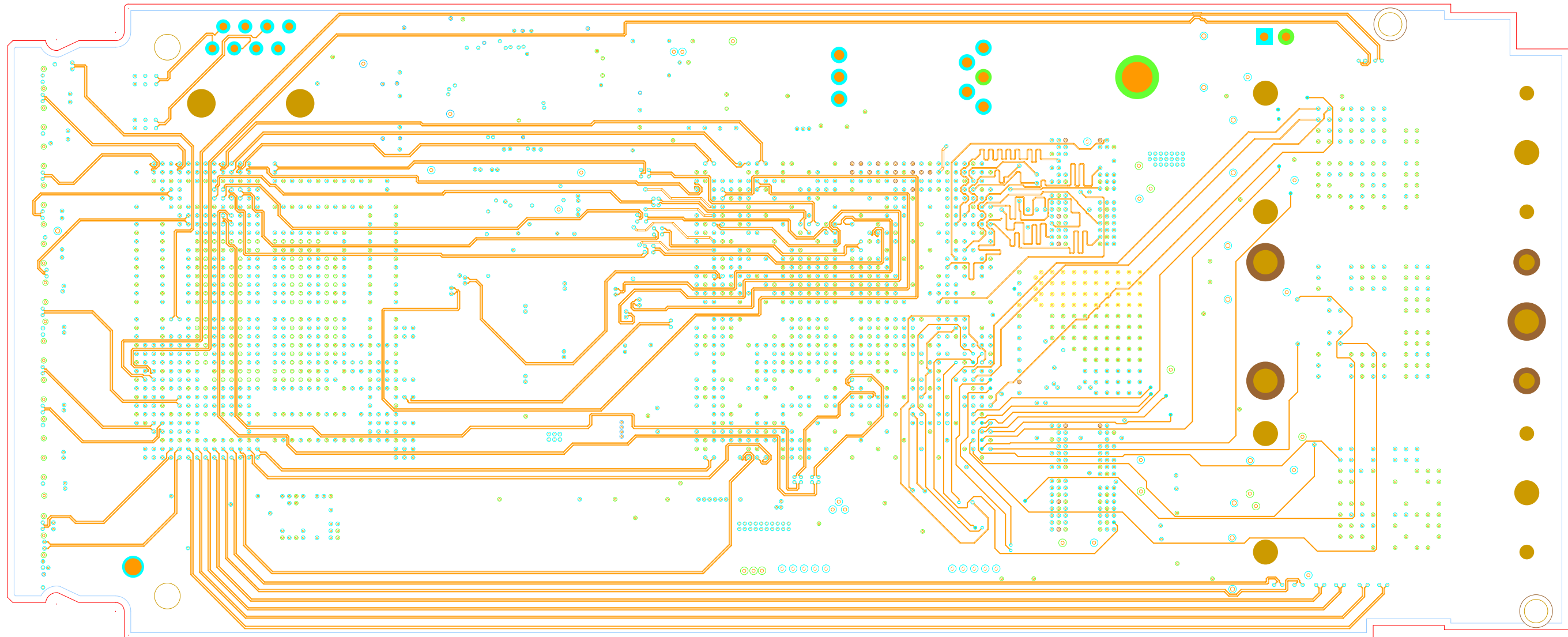
M3-LAYER-3

63Y-291782 AMC REVIEW 07/08/2008



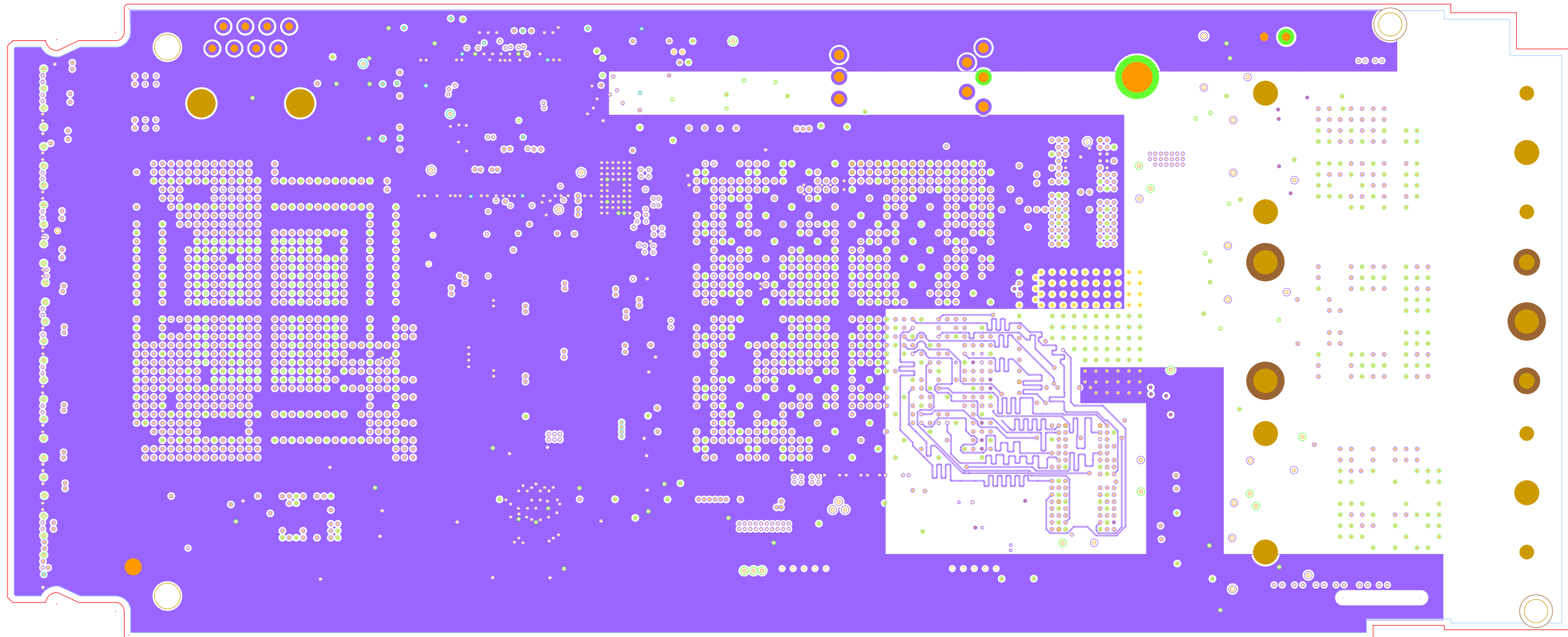
M4-LAYER-4

63Y-291782 AMC REVIEW 07/08/2008



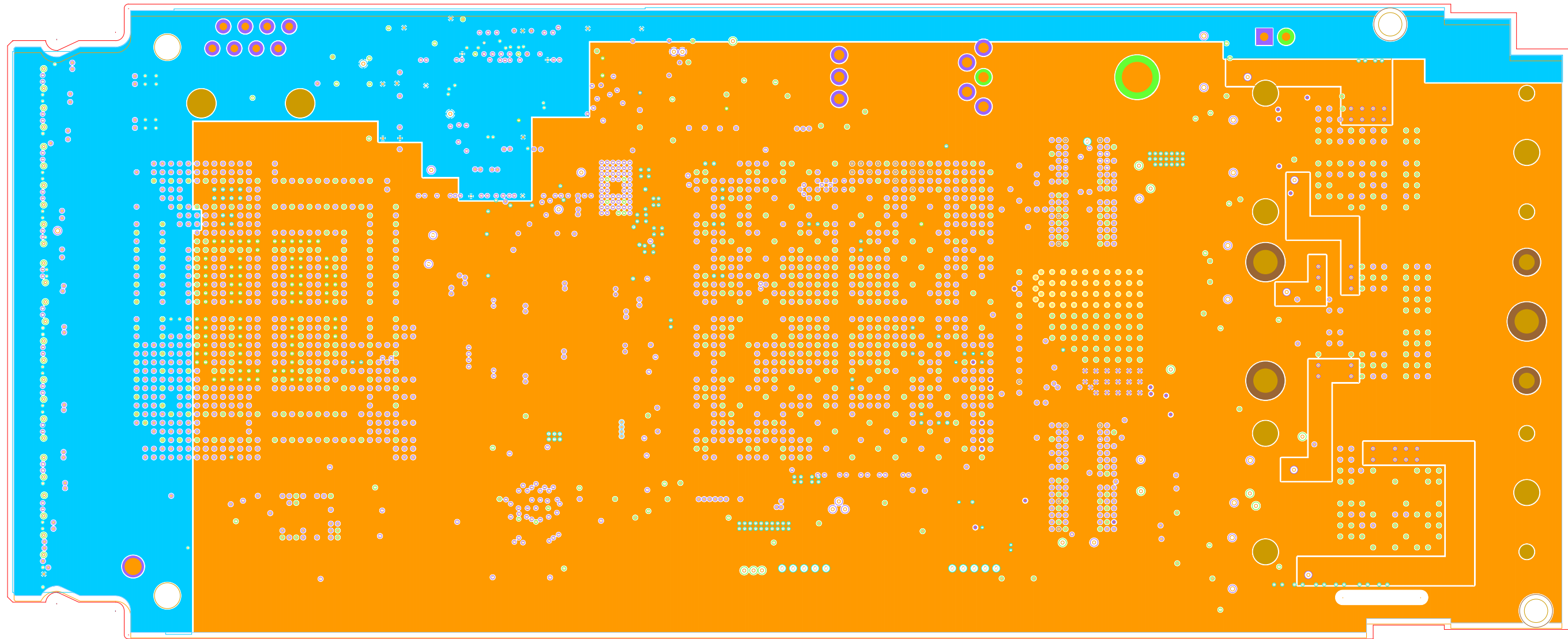
M5-LAYER-5

63Y-291782 AMC REVIEW 07/08/2008



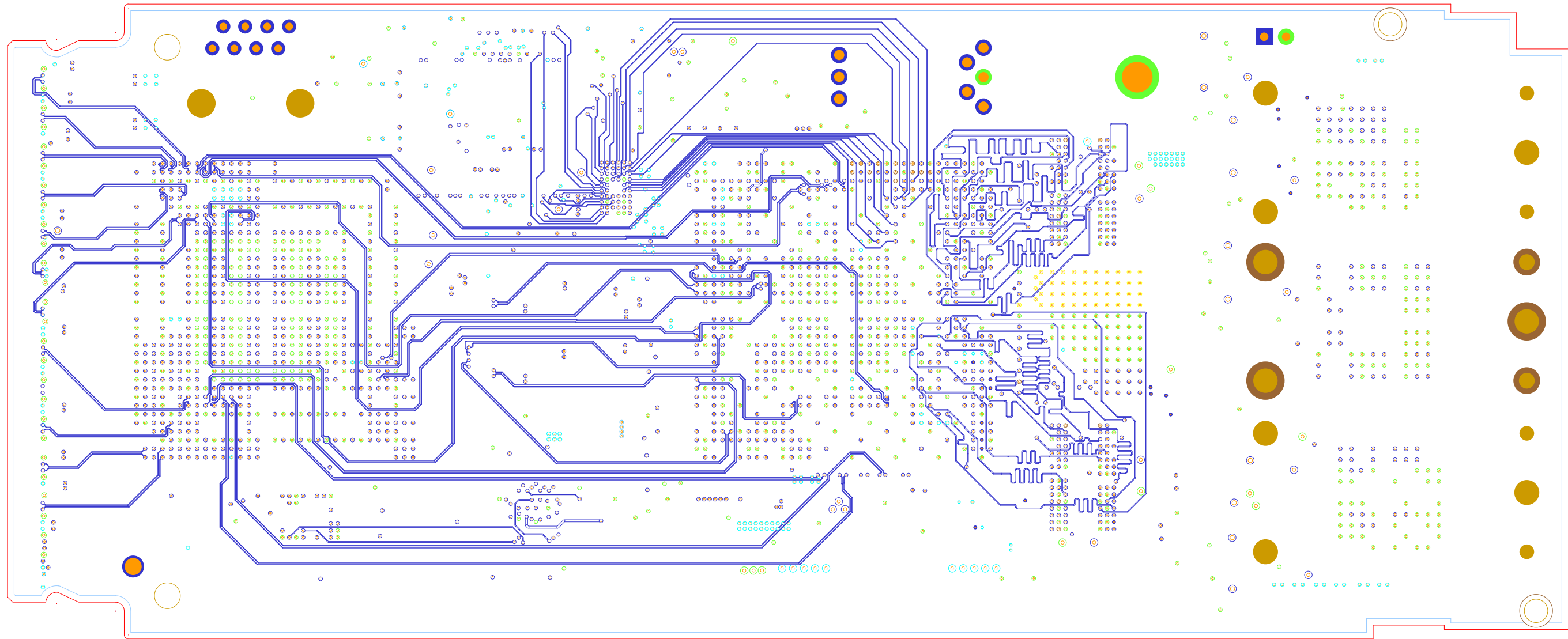
M6-LAYER-6

63Y-291782 AMC REVIEW 07/08/2008



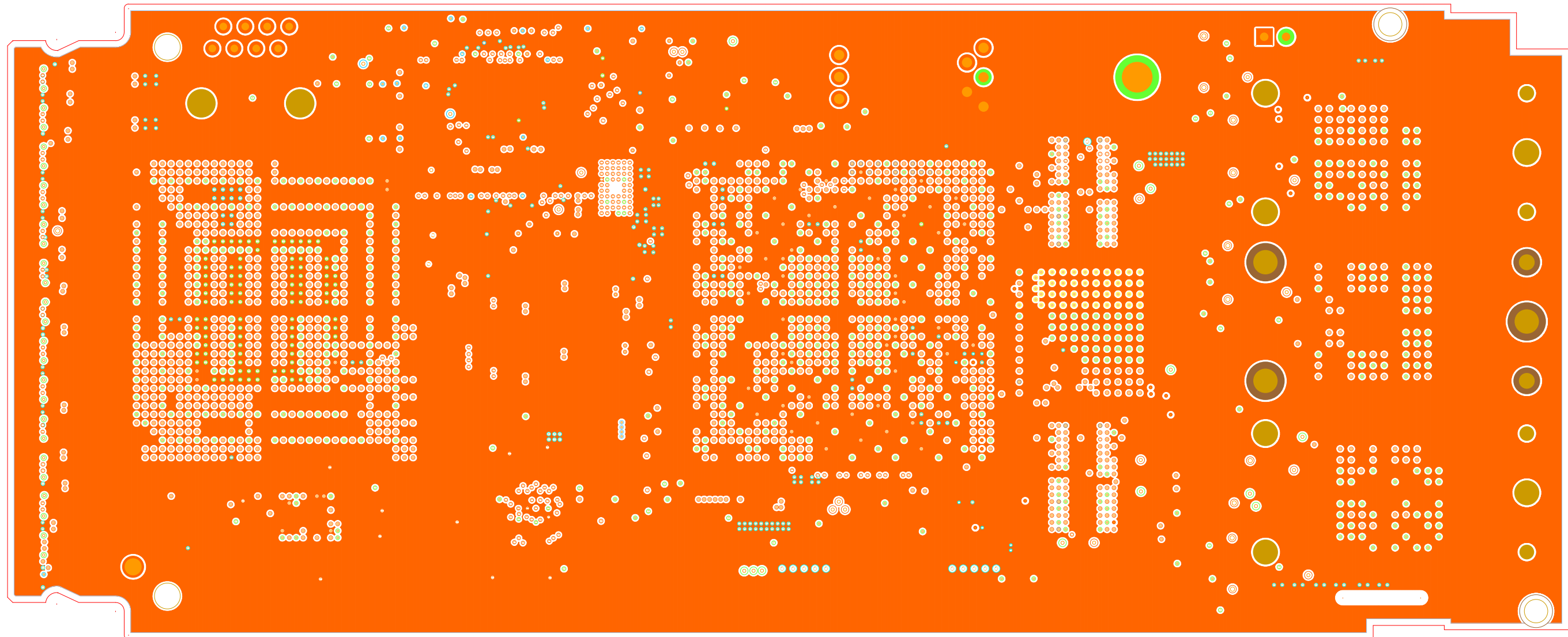
M7-LAYER-7

63Y-291782 AMC REVIEW 07/08/2008



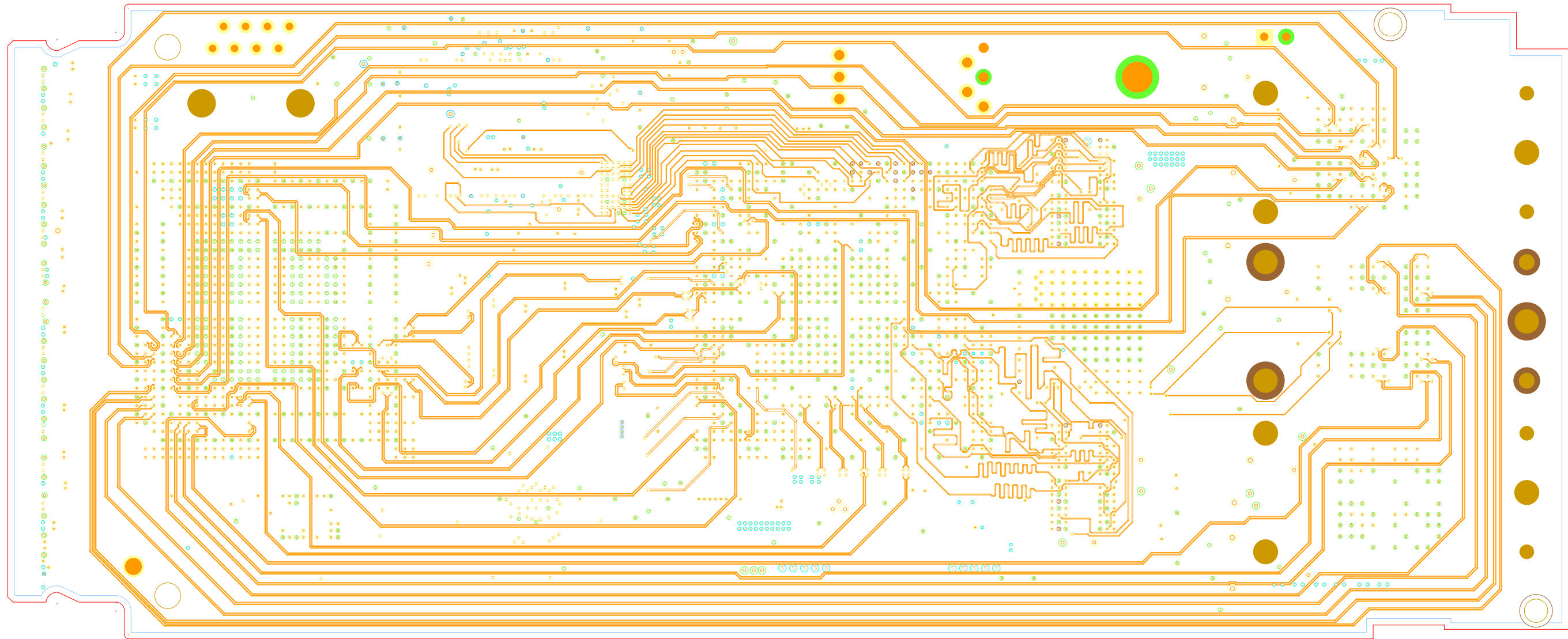
M8-LAYER-8

63Y-291782 AMC REVIEW 07/08/2008



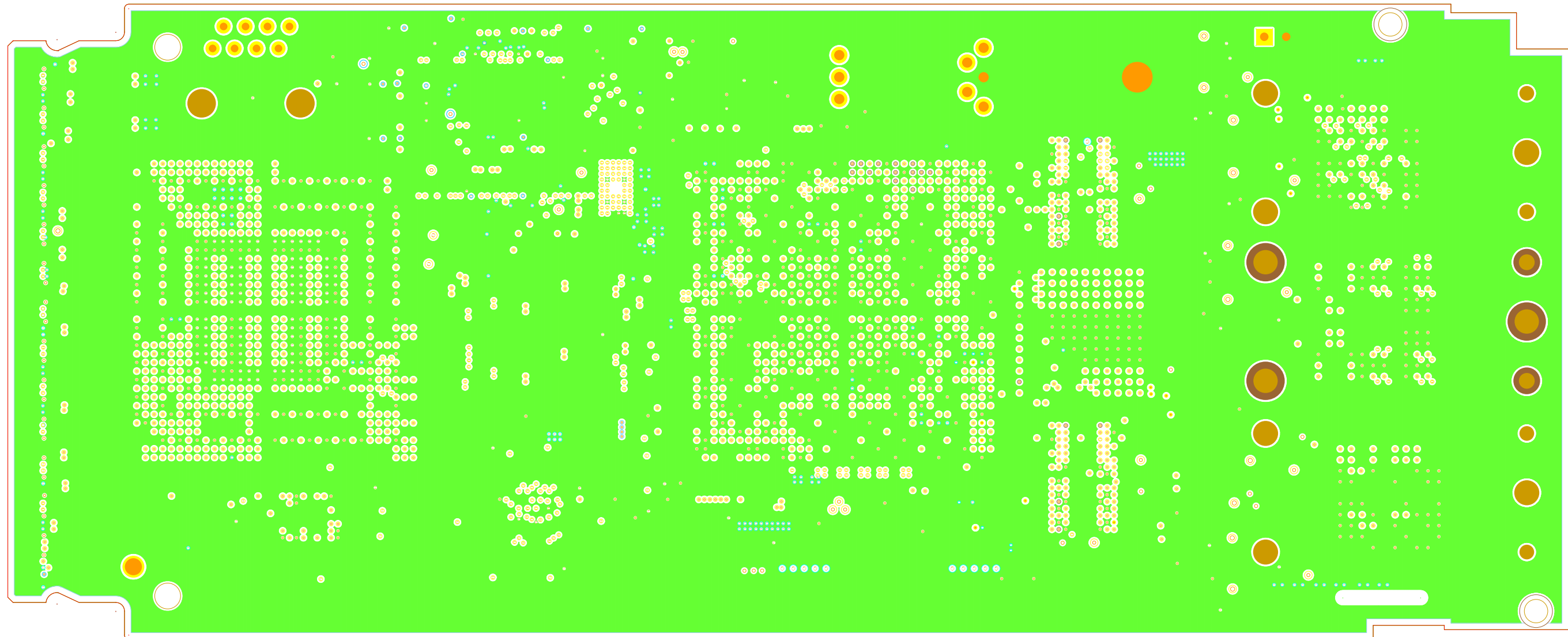
M9-LAYER-9

63Y-291782 AMC REVIEW 07/08/2008



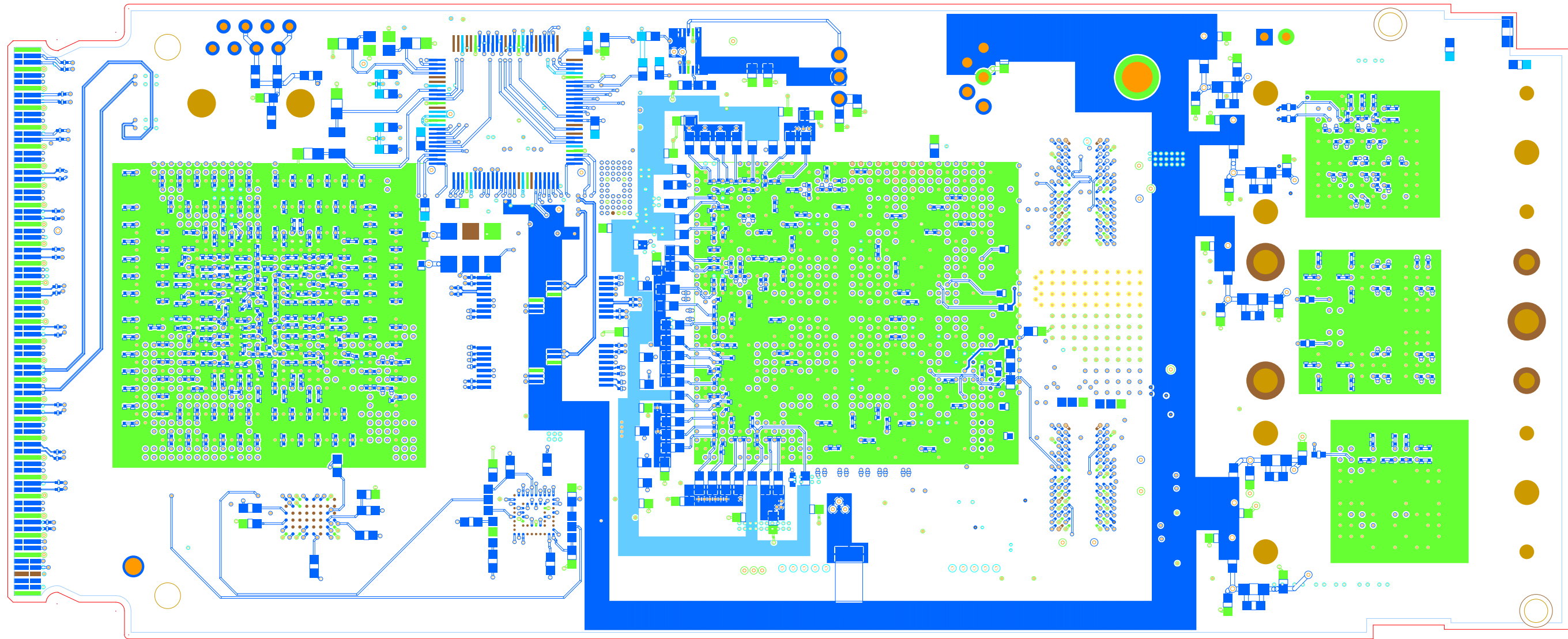
M10-LAYER-10

63Y-291782 AMC REVIEW 07/08/2008



M11-LAYER-11

63Y-291782 AMC REVIEW 07/08/2008



M12-LAYER-12

63Y-291782 AMC REVIEW 07/08/2008