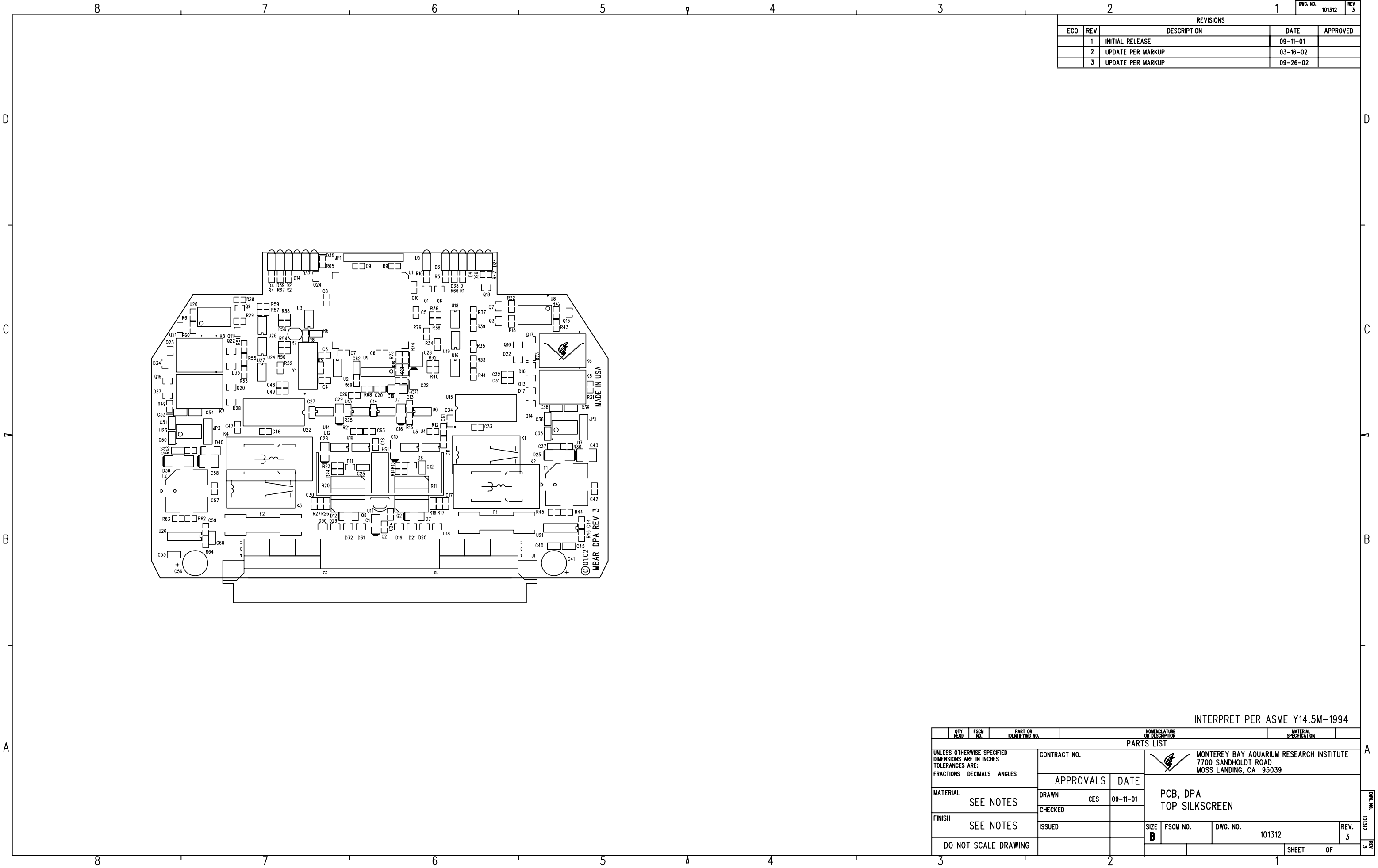




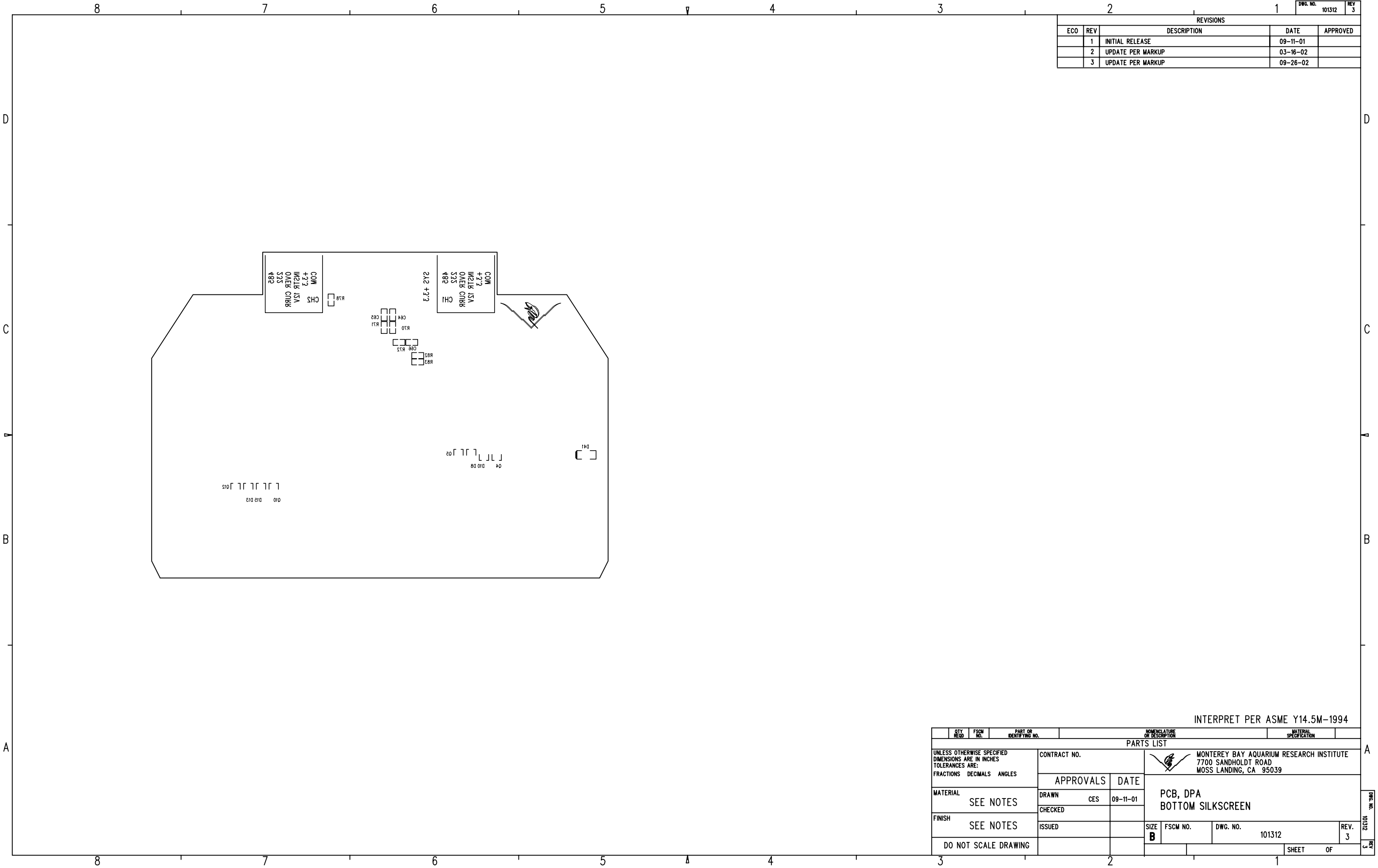
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	2	UPDATE PER MARKUP			03-16-02	
	3	UPDATE PER MARKUP			09-26-02	

QTY REQD		FSCM NO.		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION				MATERIAL SPECIFICATION							
PARTS LIST																	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES				CONTRACT NO.		 MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT ROAD MOSS LANDING, CA 95039											
MATERIAL SEE NOTES				DRAWN		CES		09-11-01		PCB, DPA TOP SILKSCREEN							
				CHECKED													
FINISH SEE NOTES				ISSUED						SIZE		FSCM NO.		DWG. NO.		REV.	
										B				101312		3	
DO NOT SCALE DRAWING														SHEET		OF	

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101312

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DWG. NO.		101312	REV	3
REVISIONS				
ECO	REV	DESCRIPTION	DATE	APPROVED
	1	INITIAL RELEASE	09-11-01	
	2	UPDATE PER MARKUP	03-16-02	
	3	UPDATE PER MARKUP	09-26-02	

INTERPRET PER ASME Y14.5M-1994											
QTY REQD		FSCM NO.	PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION				MATERIAL SPECIFICATION		
PARTS LIST											
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES			CONTRACT NO.		 MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT ROAD MOSS LANDING, CA 95039						
			APPROVALS								
MATERIAL SEE NOTES			DRAWN		CES		09-11-01		PCB, DPA BOTTOM SILKSCREEN		
			CHECKED								
FINISH SEE NOTES			ISSUED						SIZE B		
DO NOT SCALE DRAWING									FSCM NO.		DWG. NO.
									101312		REV.
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									SHEET		OF

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101312

REV 3

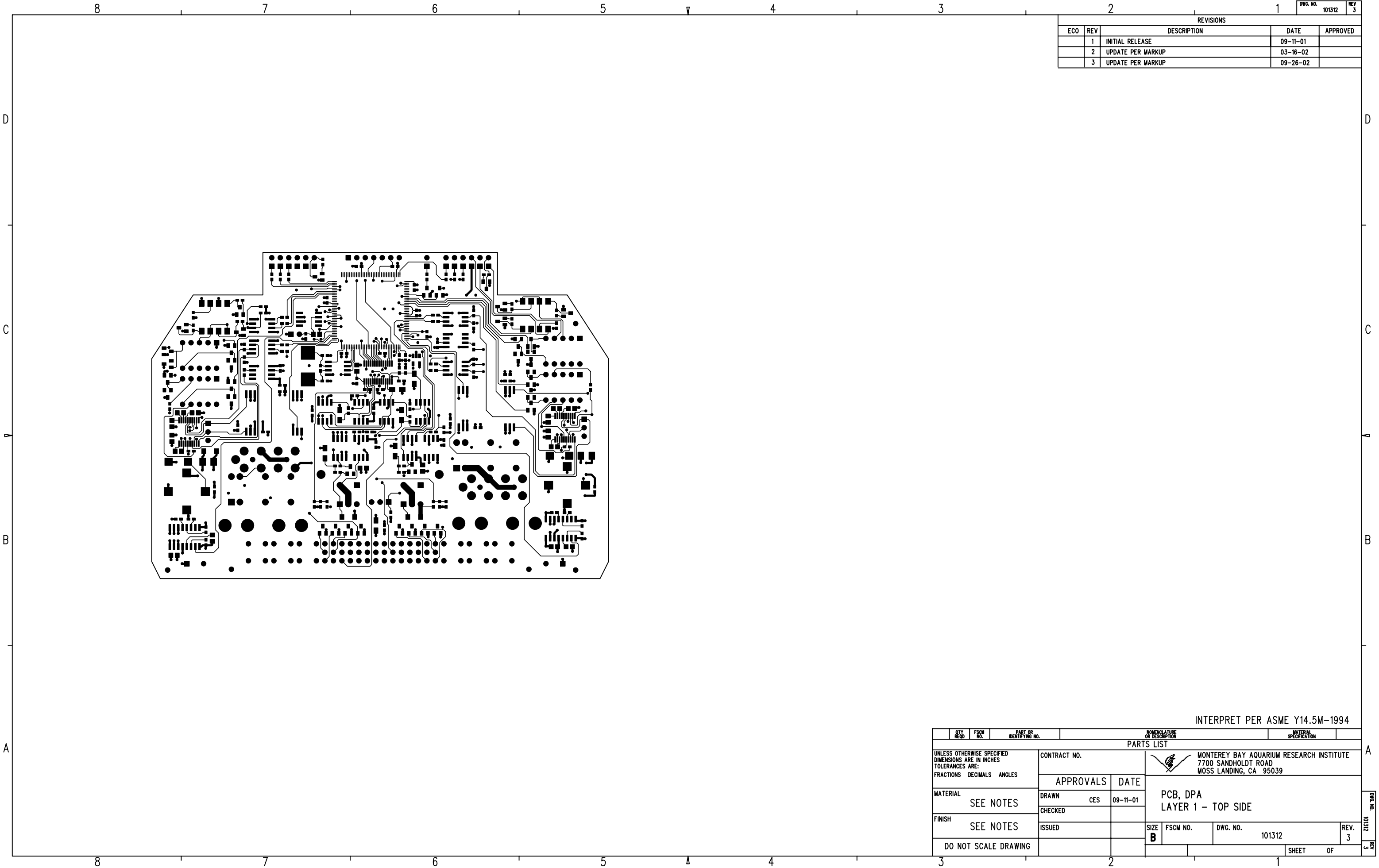
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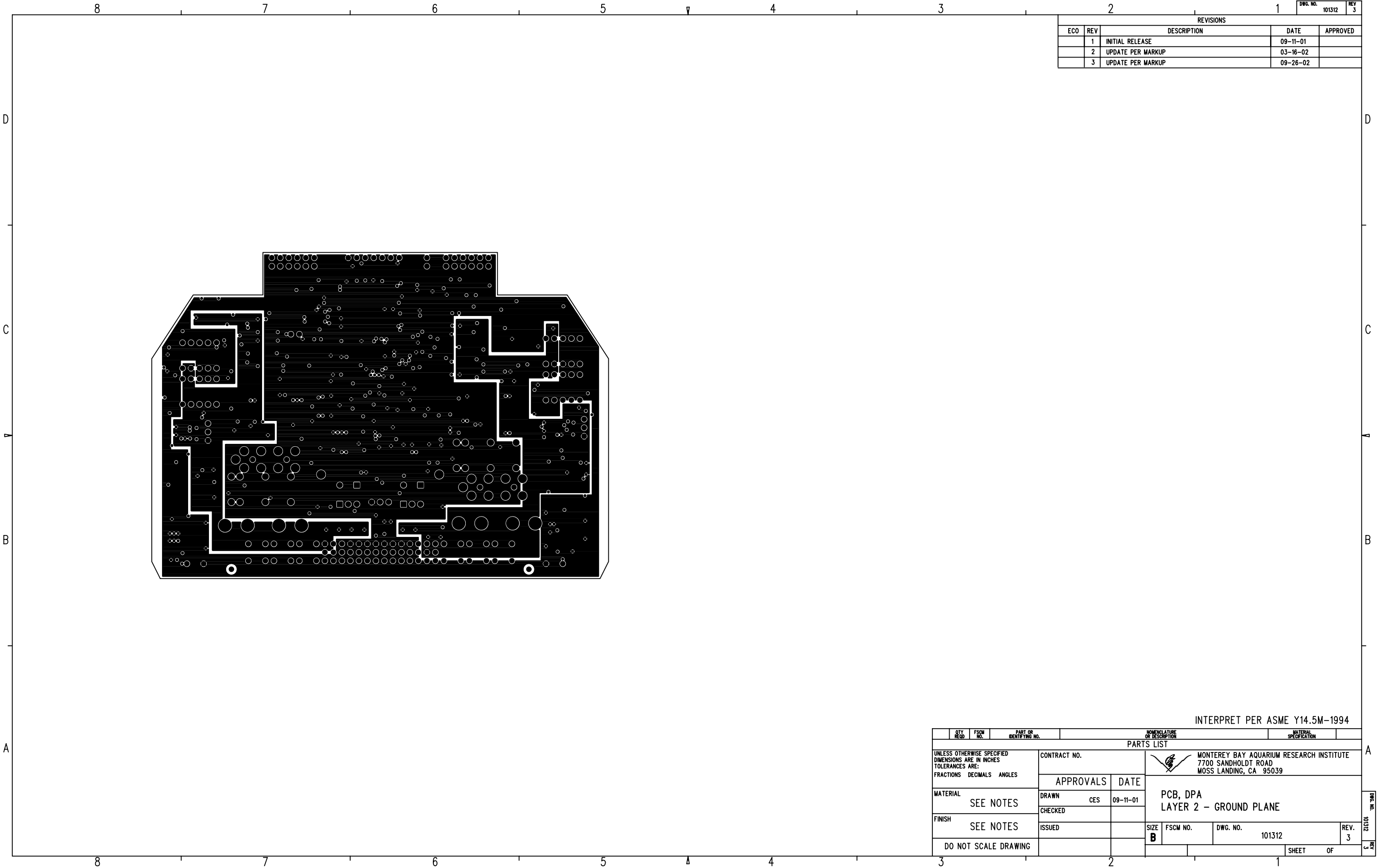
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REVISIONS				
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	3	UPDATE PER MARKUP	09-26-02	

INTERPRET PER ASME Y14.5M-1994												
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PARTS LIST												
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES			CONTRACT NO.		 MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT ROAD MOSS LANDING, CA 95039							
			APPROVALS							DATE		
			DRAWN		CES	09-11-01		PCB, DPA LAYER 1 – TOP SIDE				
			CHECKED									
MATERIAL		SEE NOTES		ISSUED		SIZE	FSCM NO.		DWG. NO.		REV.	
FINISH		SEE NOTES				B			101312		3	
DO NOT SCALE DRAWING										SHEET OF		

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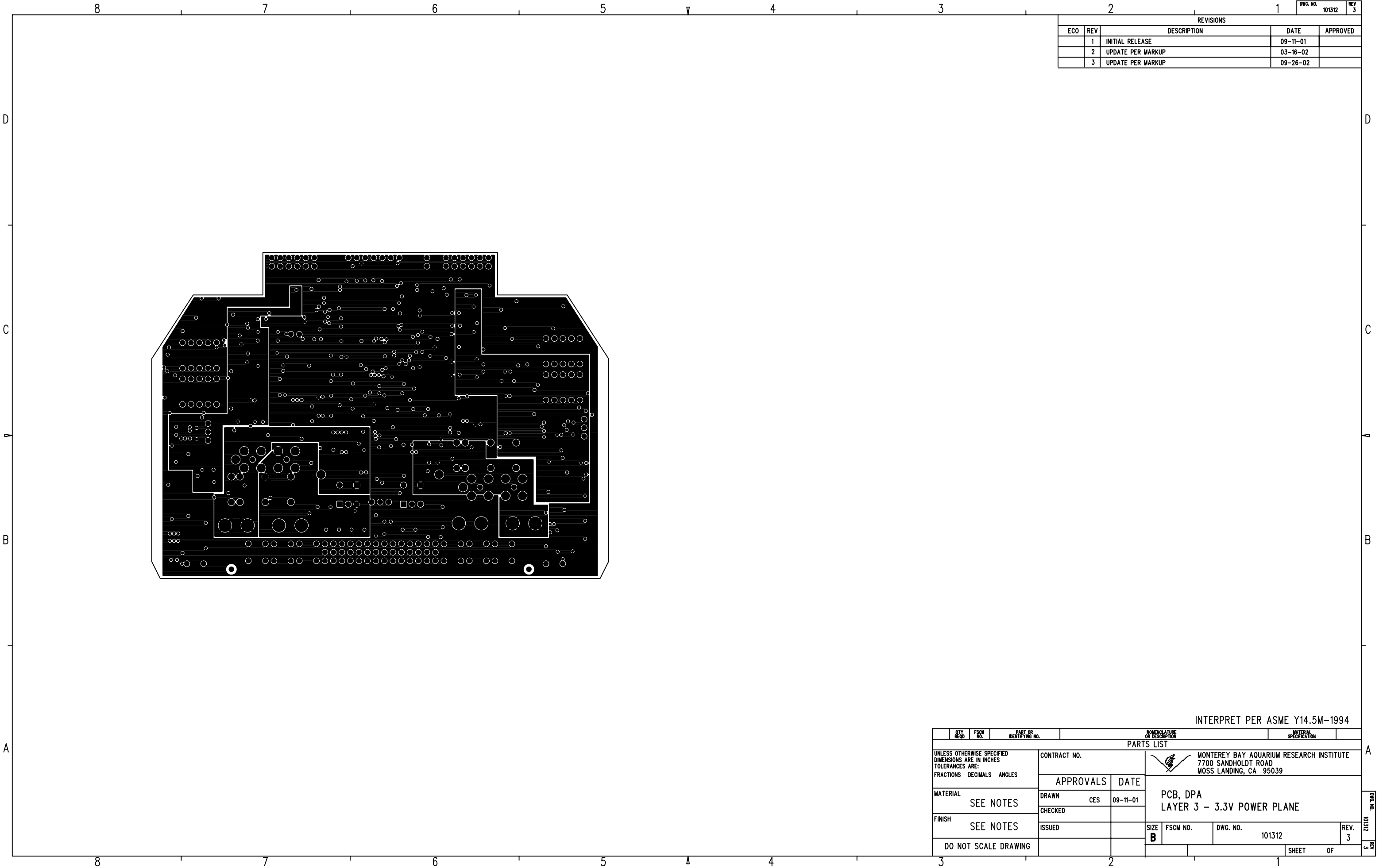
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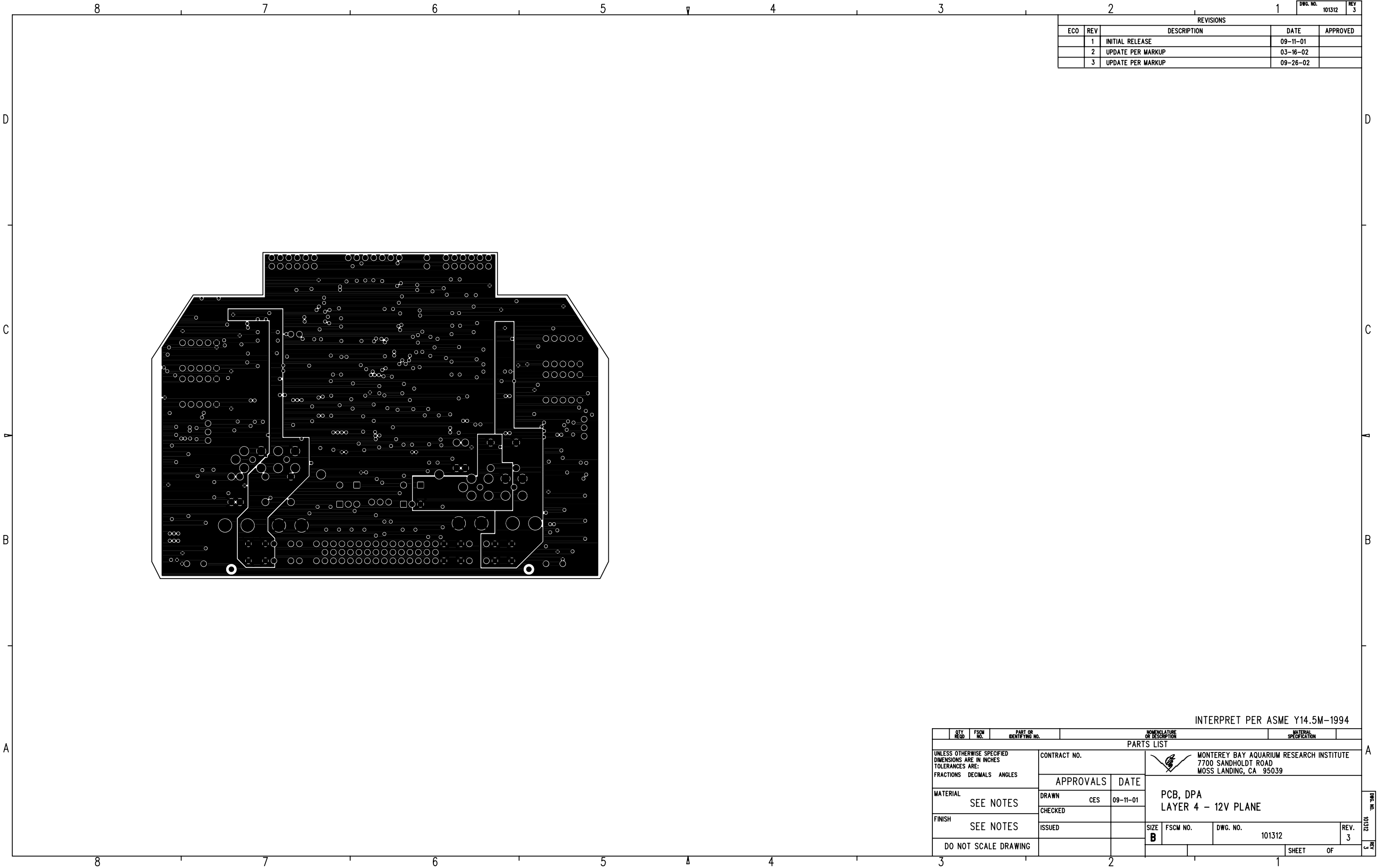
REV. 3



REVISIONS				
ECO	REV	DESCRIPTION	DATE	APPROVED
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	2	UPDATE PER MARKUP	03-16-02	
	3	UPDATE PER MARKUP	09-26-02	

PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES	CONTRACT NO.		MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT ROAD MOSS LANDING, CA 95039	
MATERIAL SEE NOTES	APPROVALS		DATE 09-11-01	
FINISH SEE NOTES	DRAWN CES		CHECKED	
DO NOT SCALE DRAWING	ISSUED		SIZE B	
	FSCM NO.		DWG. NO. 101312	
	REV. 3		SHEET OF	





ECO		REV	DESCRIPTION	DATE	APPROVED
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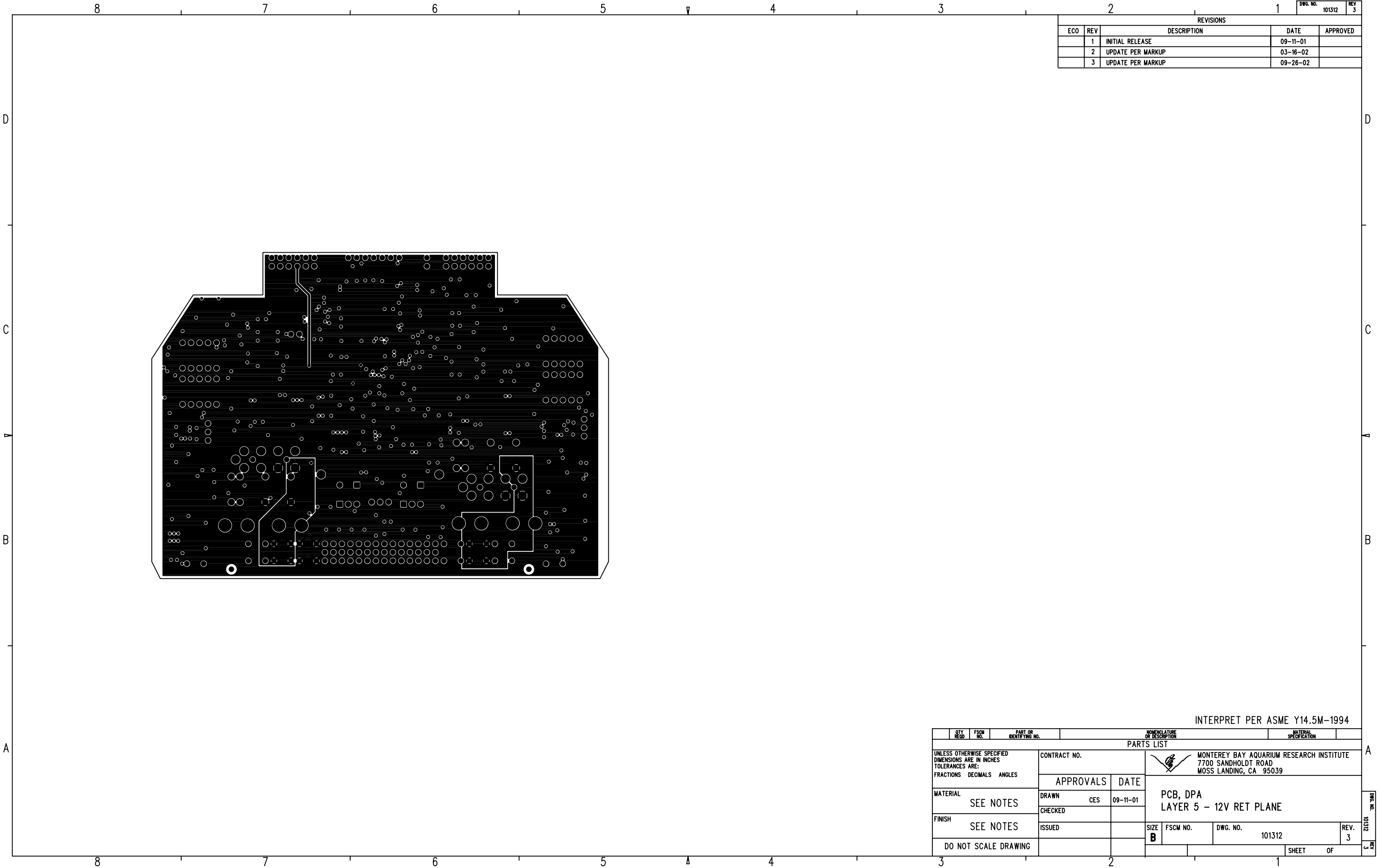
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PARTS LIST										
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES			CONTRACT NO.		 MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT ROAD MOSS LANDING, CA 95039					
MATERIAL SEE NOTES			APPROVALS		DATE		PCB, DPA LAYER 4 - 12V PLANE			
			DRAWN CES		09-11-01					
FINISH SEE NOTES			CHECKED				SIZE FSCM NO. DWG. NO. REV.			
			ISSUED							
DO NOT SCALE DRAWING							101312 3			
							SHEET OF			

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DWG. NO.

101312

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REVISIONS				
ECO	REV	DESCRIPTION	DATE	APPROVED
	1	INITIAL RELEASE	09-11-01	
	2	UPDATE PER MARKUP	03-16-02	
	3	UPDATE PER MARKUP	09-26-02	

INTERPRET PER ASME Y14.5M-1994										
QTY REQD		FSCM NO.	PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION				MATERIAL SPECIFICATION	
PARTS LIST										
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES			CONTRACT NO.		 MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT ROAD MOSS LANDING, CA 95039					
MATERIAL SEE NOTES			APPROVALS		DATE		PCB, DPA LAYER 5 - 12V RET PLANE			
			DRAWN CES		09-11-01					
FINISH SEE NOTES			CHECKED							
			ISSUED							
DO NOT SCALE DRAWING							SIZE B		FSCM NO.	
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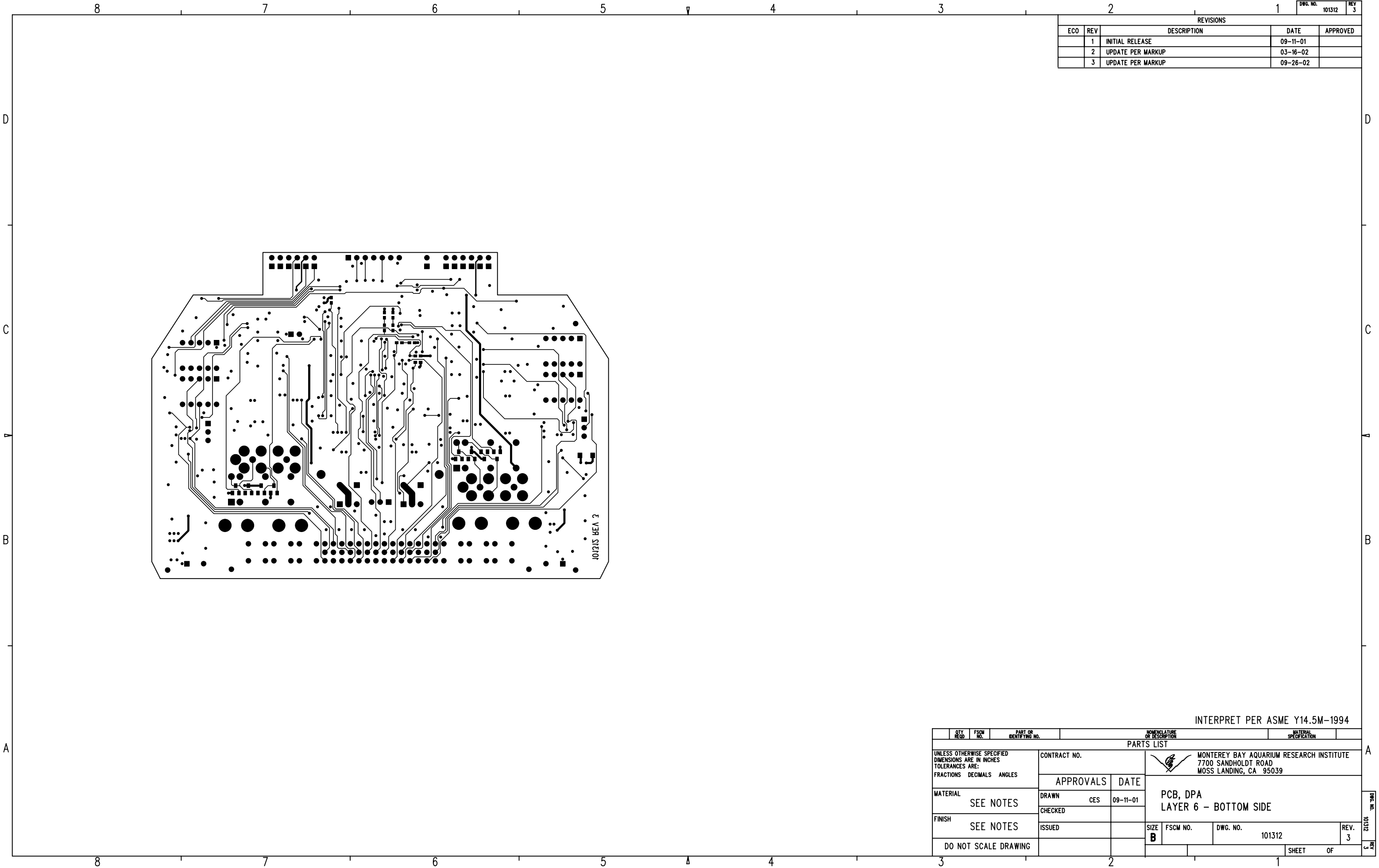
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REV 3

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DRG. NO.

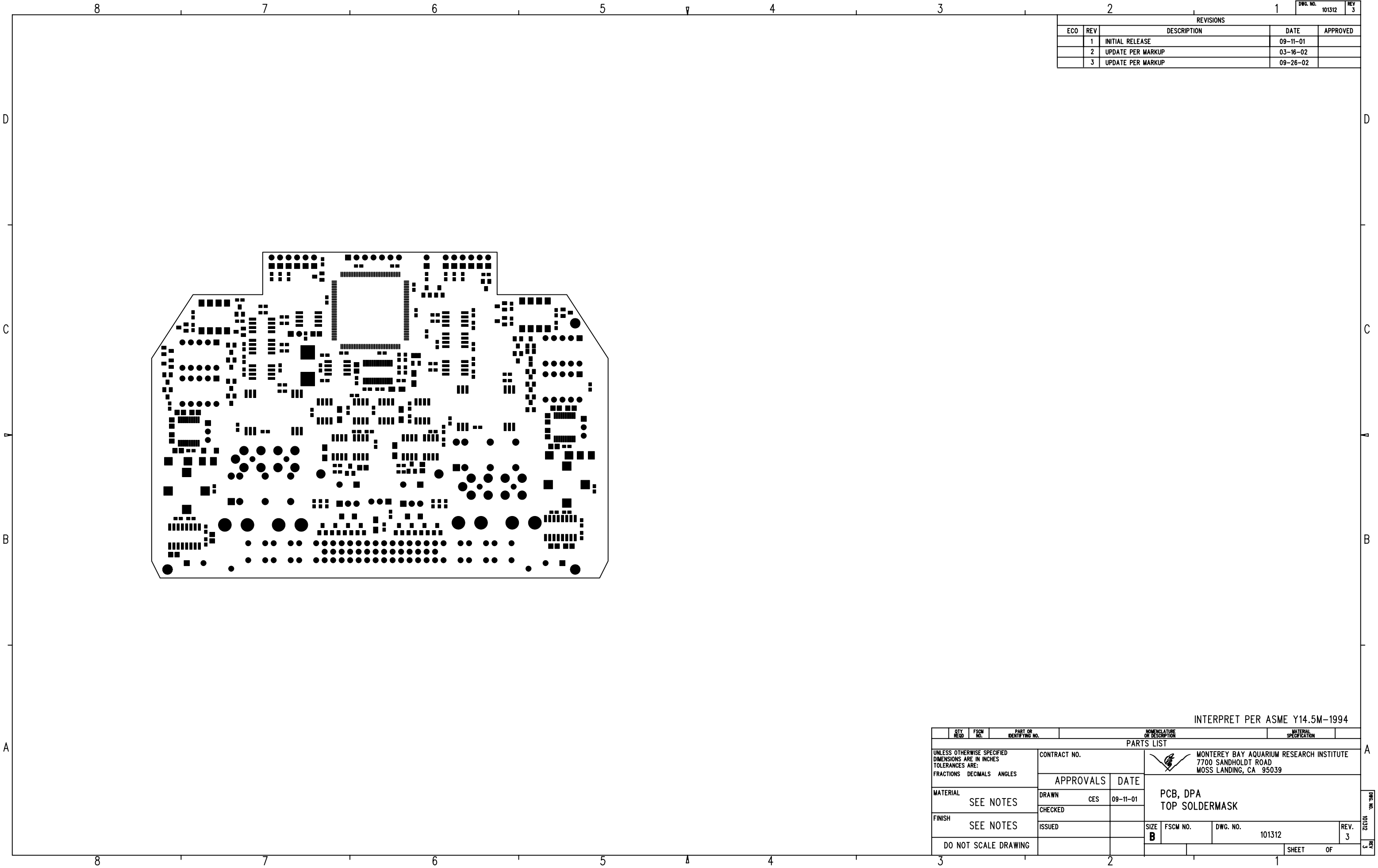


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REVISIONS				
ECO	REV	DESCRIPTION	DATE	APPROVED
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	2	UPDATE PER MARKUP	03-16-02	
	3	UPDATE PER MARKUP	09-26-02	

INTERPRET PER ASME Y14.5M-1994										
QTY REQD		FSCM NO.	PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION				MATERIAL SPECIFICATION	
PARTS LIST										
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES			CONTRACT NO.		 MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT ROAD MOSS LANDING, CA 95039					
			APPROVALS							DATE
MATERIAL SEE NOTES			DRAWN CES		09-11-01		PCB, DPA LAYER 6 – BOTTOM SIDE			
FINISH SEE NOTES			CHECKED							
DO NOT SCALE DRAWING			ISSUED		SIZE B	FSCM NO.		DWG. NO. 101312		REV. 3
							SHEET		OF	

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DWG. NO.
101312
REV.
3



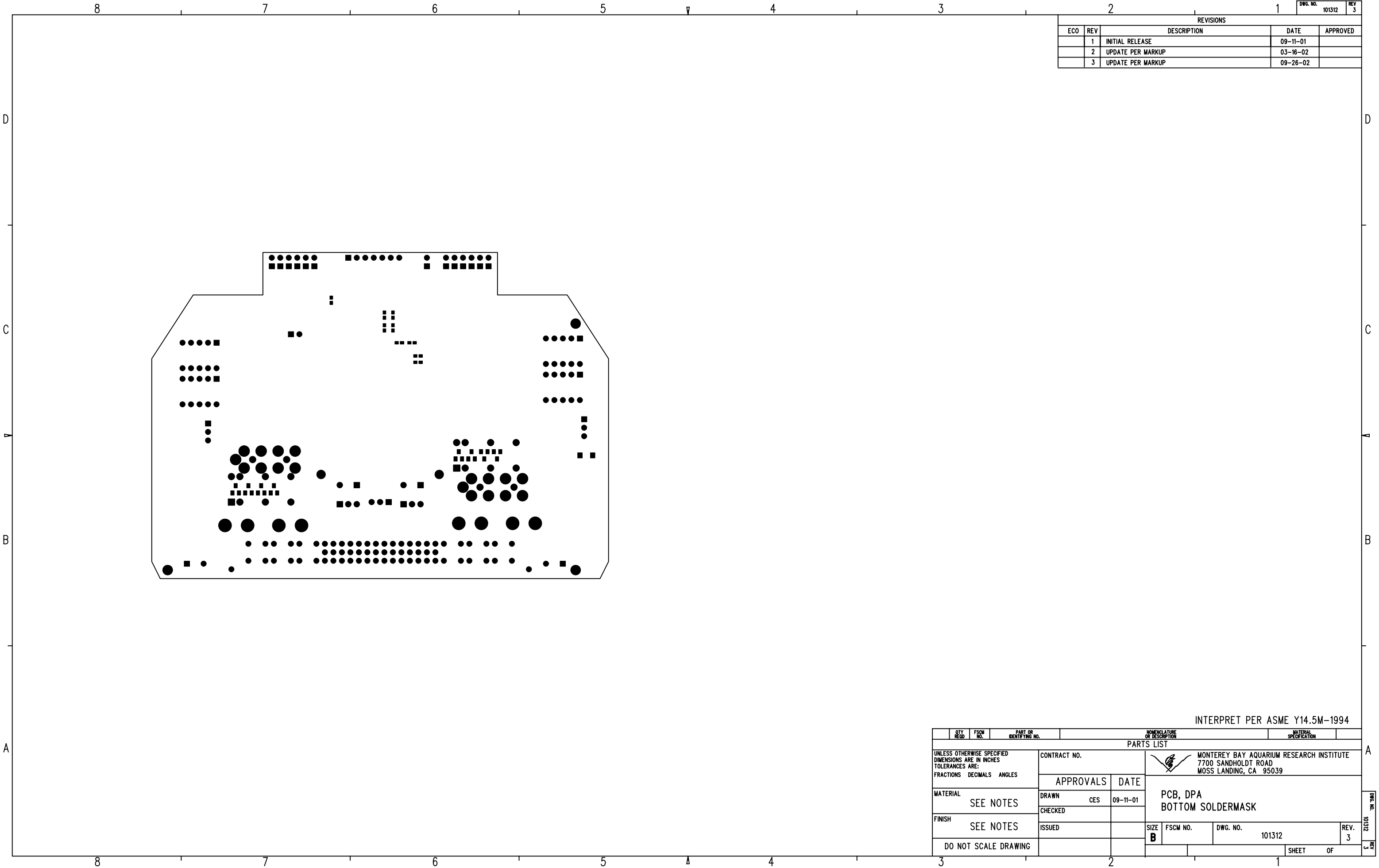
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REVISIONS							
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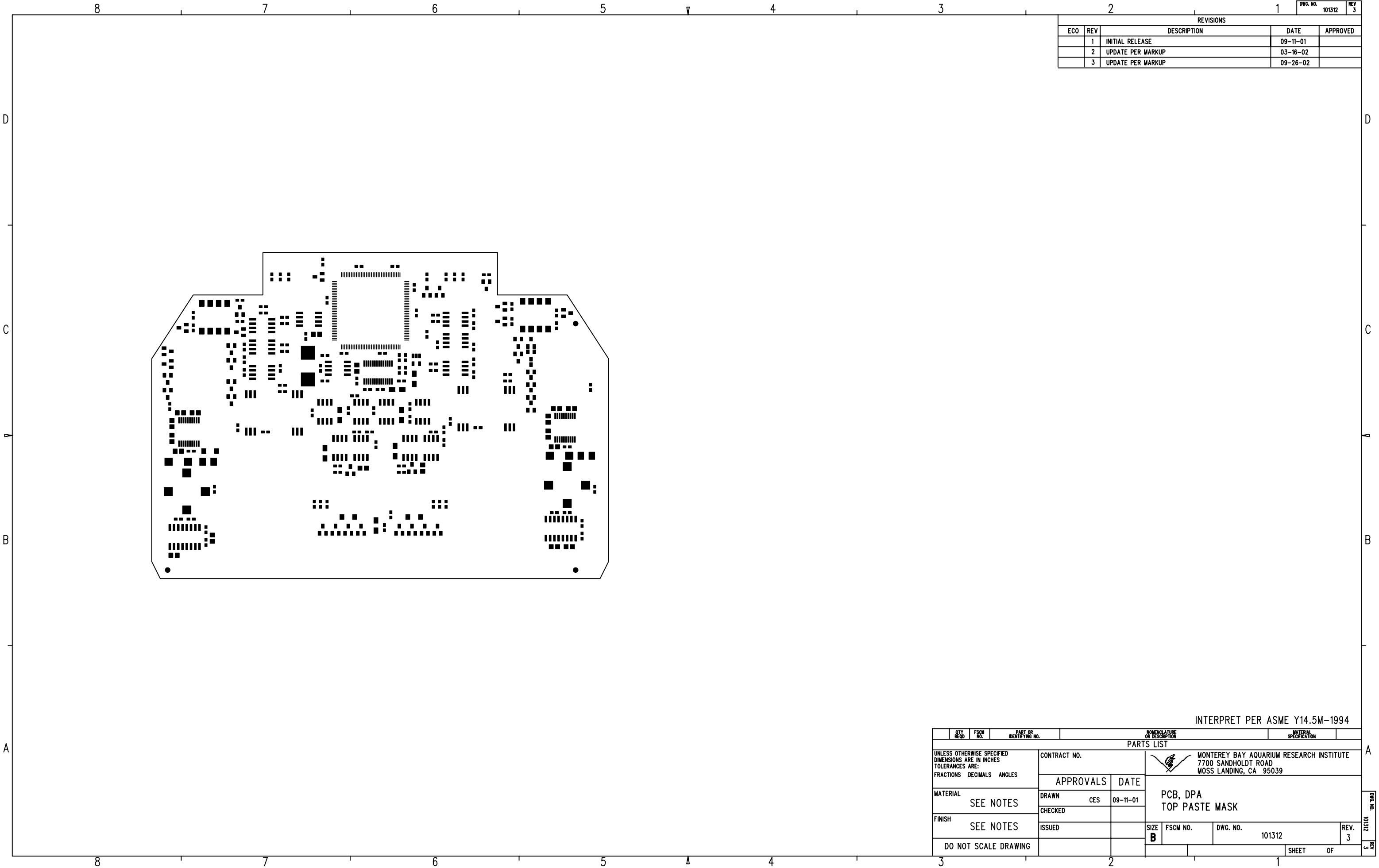
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PARTS LIST													
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES			CONTRACT NO.		 MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT ROAD MOSS LANDING, CA 95039								
			APPROVALS							DATE			
			MATERIAL SEE NOTES		DRAWN CES		09-11-01		PCB, DPA TOP SOLDERMASK				
					CHECKED								
FINISH SEE NOTES		ISSUED		SIZE FSCM NO. DWG. NO. 101312 REV. 3									
DO NOT SCALE DRAWING										SHEET OF			

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FIG. NO. 101312

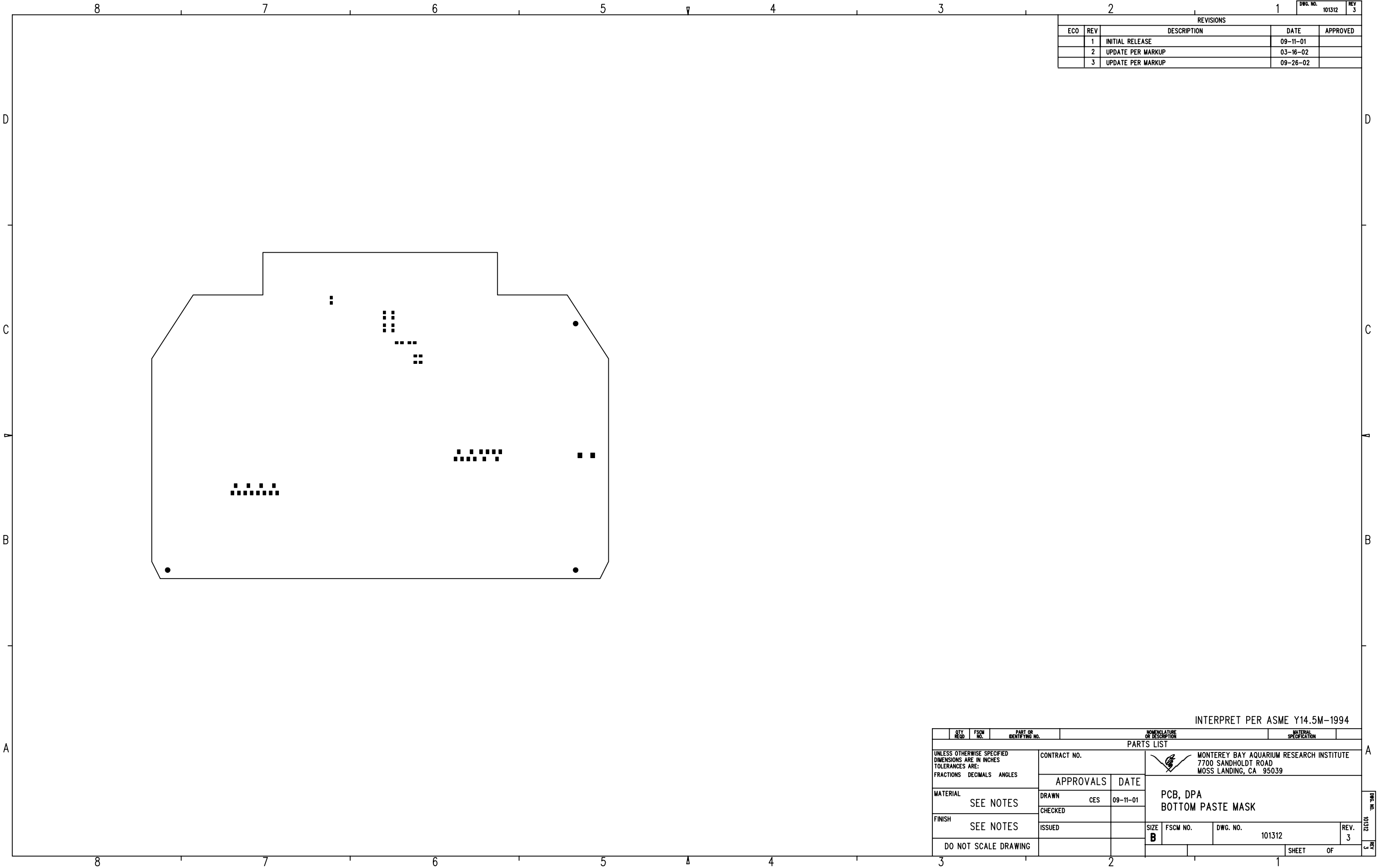
REV. 3

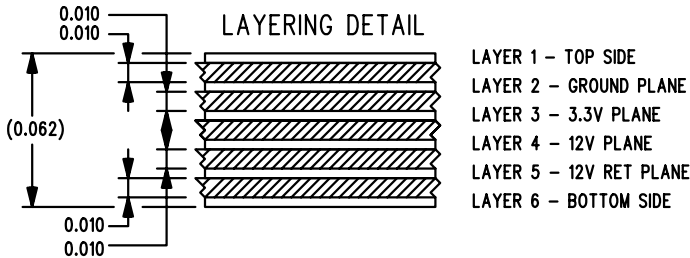
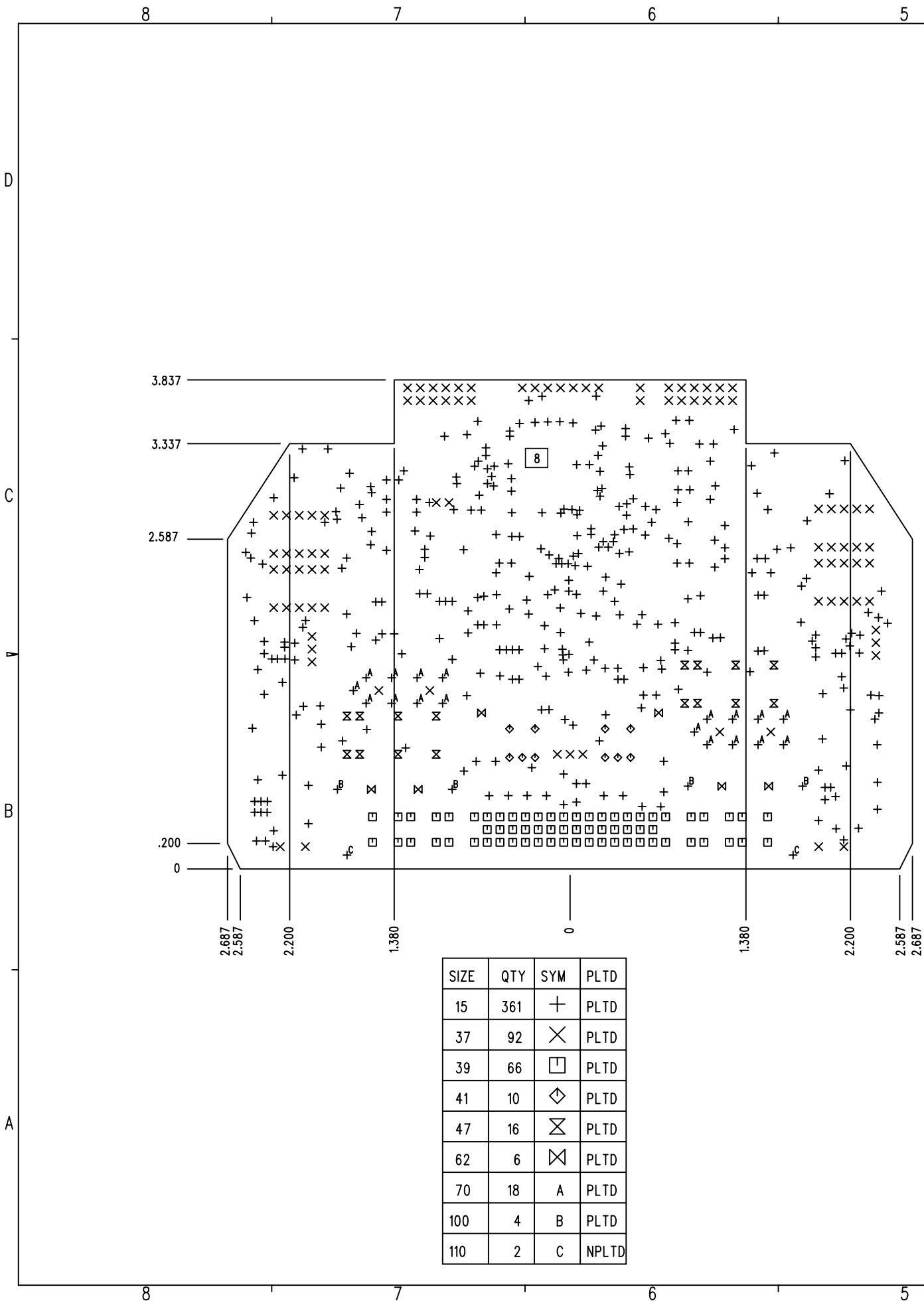




REVISIONS				
ECO	REV	DESCRIPTION	DATE	APPROVED
	1	INITIAL RELEASE	09-11-01	
	2	UPDATE PER MARKUP	03-16-02	
	3	UPDATE PER MARKUP	09-26-02	

QTY REQD		FSCM NO.		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION				MATERIAL SPECIFICATION				
PARTS LIST														A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES				CONTRACT NO.		 MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT ROAD MOSS LANDING, CA 95039								
				APPROVALS								DATE		
				DRAWN								CES		
MATERIAL				CHECKED		PCB, DPA TOP PASTE MASK						DWG. NO.		
SEE NOTES												101312		
FINISH				ISSUED								REV. 3		
SEE NOTES						SIZE		FSCM NO.		DWG. NO.		101312		
DO NOT SCALE DRAWING						B								
										SHEET		OF		





13. CERTIFICATE OF COMPLIANCE TO BE PROVIDED ON ALL SHIPMENTS.
12. EACH LOT MUST INCLUDE ONE SOLDER SAMPLE.
11. BOARDS TO BE 100% NET LIST TESTED FOR OPENS AND SHORTS.
10. FABRICATE PER IPC-6012, CLASS II.
9. ACCEPTABILITY CRITERIA TO BE PER IPC-A-600, LATEST ISSUE.
8. VENDORS UL ID, RECOGNIZED COMPONENT SYMBOL, 94V-0 RATING PER UL796 AND DATE CODE TO APPEAR IN THIS AREA ONLY ON FARSIDE.
7. FABRICATION DRAWING TAKES PRECEDENCE OVER ARTWORK AND/OR PURCHASE ORDER(S).
6. PROCESS TO BE SOLDER MASK OVER BARE COPPER (SMOBC).
5. SIGNAL LAYERS TO BE 1 OZ. COPPER.
PLANE LAYERS TO BE 2 OZ. COPPER.
4. SILK SCREEN LEGEND TO BE WHITE, NON-CONDUCTIVE EPOXY INK.
3. SOLDER MASK BOTH SIDES LPI (LIQUID PHOTO-IMAGEABLE) PER IPC-SM-840.
2. MATERIAL IS GLASS EPOXY, TYPE GFN PER IPC-4101, GREEN OR NATURAL, OVERALL THICKNESS TO BE 0.062 +/-0.007.
1. TOLERANCE: XX=+/-0.03; XXX=+/-0.010.

REVISIONS				
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		APPROVALS	DATE	
MATERIAL SEE NOTES		DRAWN CES	09-11-01	PCB, DPA DRILL DRAWING
FINISH SEE NOTES		CHECKED		
DO NOT SCALE DRAWING		ISSUED		
SIZE B		FSCM NO.	DWG. NO. 101312	REV. 3
		SHEET OF		