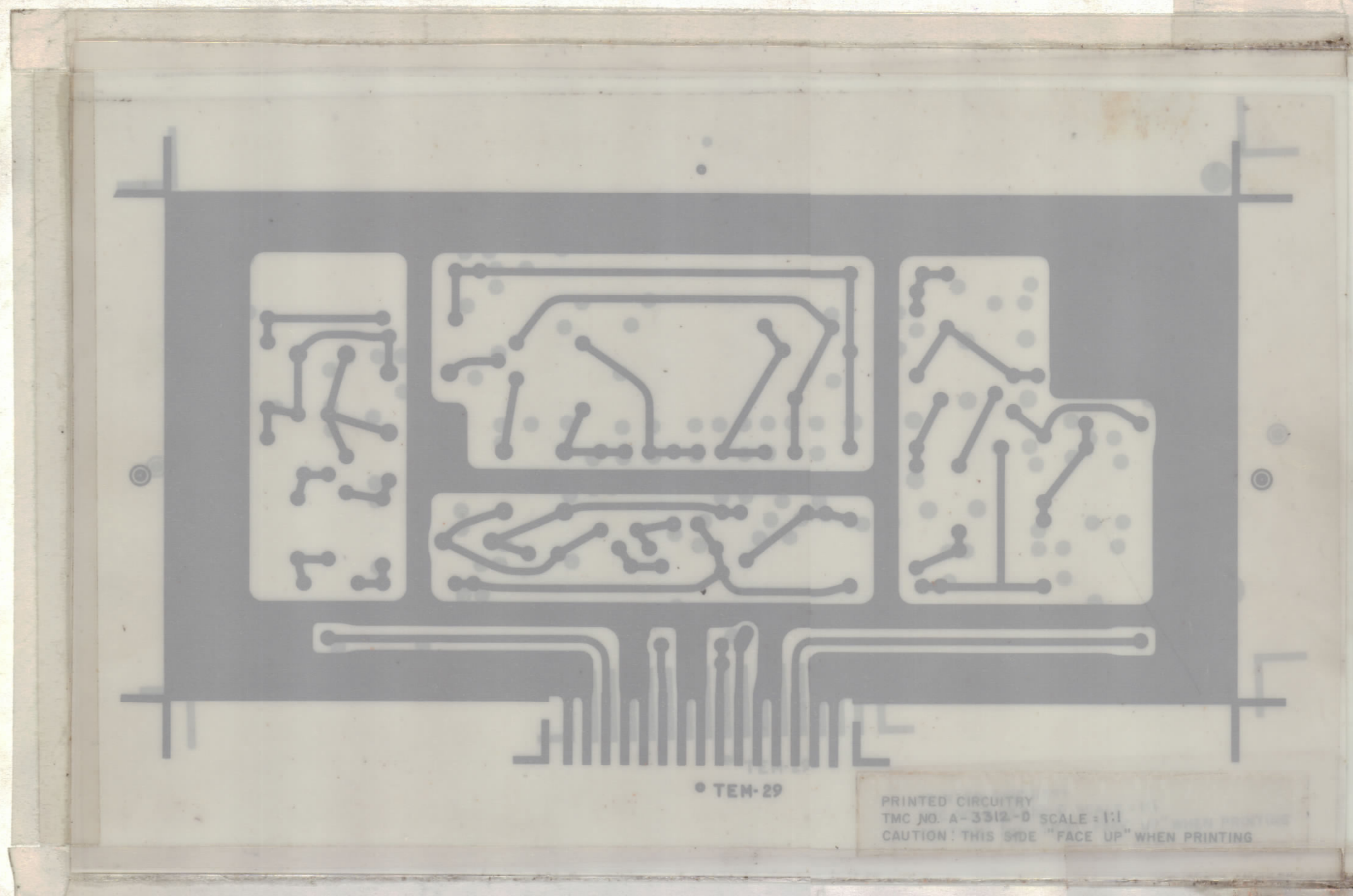


# ETCHING, PRINTED CIRCUIT (A-3312-1)

REVISIONS						
ZONE	SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD
X1		SEE SHEET 2 OF 2 REVISION "X1"	11-20-63	1	JL	
X2		SEE SHEET 2, REVISION "X2"	2/24/64	2	SP	
X3		SEE SHEET 2, REVISION "X3"	4/9/64	3	JL	
X4		DELETED "A" HOLES,	7-1-64	4	NP	
X5		ADDED "A" HOLES & MTG SLOTS; REVISED NOTE 5	7/29/65	5	JL	@
O		ORIGINAL RELEASE FOR PRODUCTION	7.31.64		NP	
A		SEE SHEET 2 OF 2 REVISION "A"	9.30.64	12350	SP	@
B		DIM. "5/16 R(TYP)" ADD, ON U/O "LFS-1" WAS "LFS-1"	10.22.64	12750	SP	@
C		SEE SHEET 2 OF 2 REV. "C"	10.29.64	12786	NP	@
D		2 UNMARKED HOLES CHANGED TO "E" HOLES; HOLE CHART; UNMARKED DIA. WAS .050, REQ. WAS .132; "A" DIA. WAS .166; "E" ADD; SEE SHEET 2 OF 2 REV. "D"	2-11-65	13224	SP	@

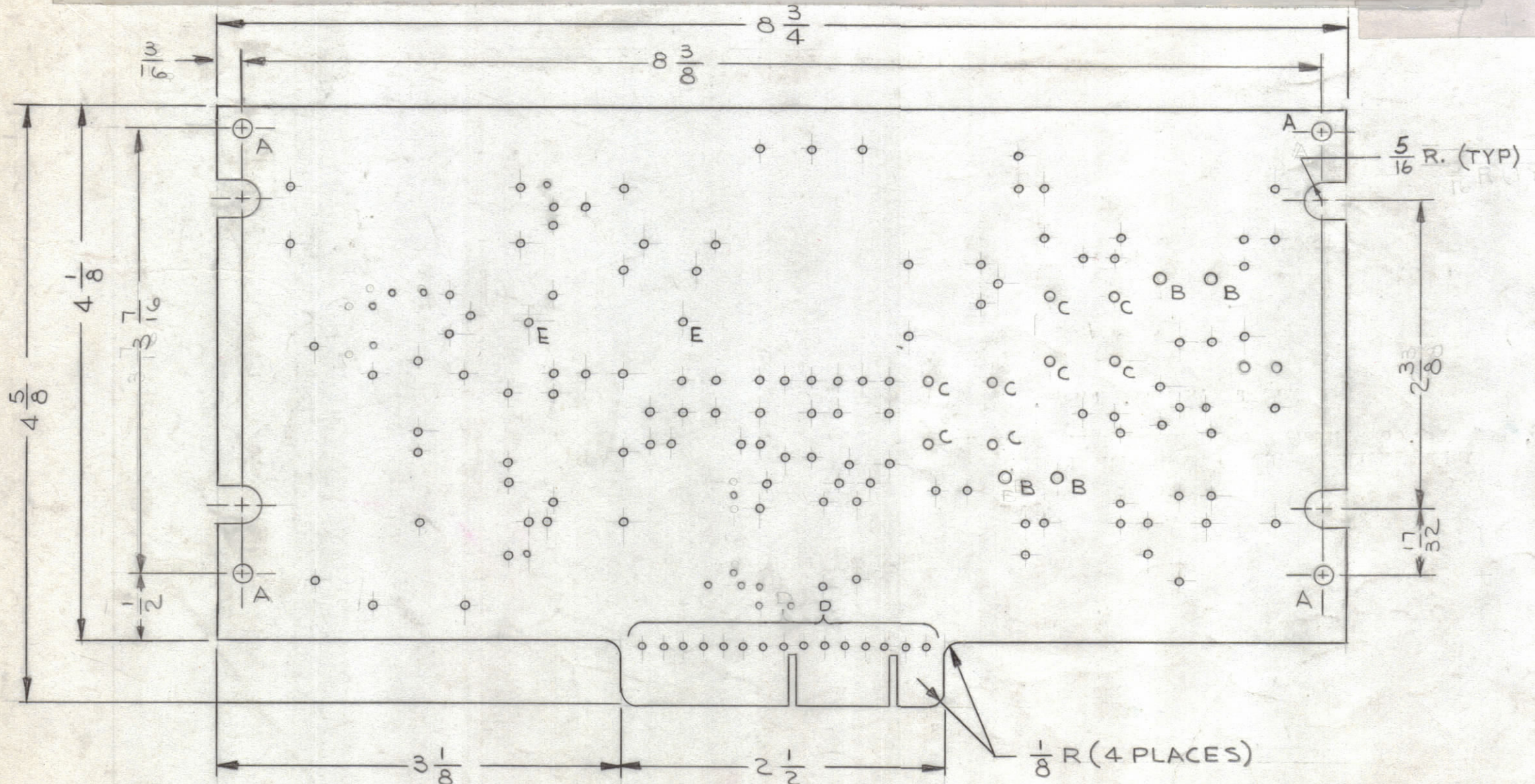


ORIGINAL ARTWORK TO BE REMOVED FROM PROTECTIVE POCKETS WHEN PHOTOGRAPHING.  
(NOTE DOUBLE POCKETS.)

HOLE & PAD SPECIFICATION			
HOLE	DIA.	PAD DIA.	REQ'D
UNMARKED	.040	.130	130
A	.161 TO .164	.250	4
B	.096	.150	4
C	.062	.150	8
D	.040	CONTACT FINGERS	15
E	.050	.130	2

NOTES:

- MATERIAL - G-10 EPOXY GLASS LAMINATE 3/32 THICK, 2 OUNCE COPPER CLAD BOTH SIDES.
- ALL BOARDS WILL BE DOUBLE-SIDED. WHENEVER A PAD APPEARS ON THE PRINTED CIRCUIT SIDE, A SIMILAR SIZE AND SHAPE SHALL APPEAR ON THE COMPONENT SIDE IN EXACT REGISTER. (EXCEPT WHERE AN EXCEPTION IS NOTED.)
- FINGER CONTACTS SHALL ALSO APPEAR ON THE COMPONENT SIDE OF BOARD AND SHALL BE CONNECTED WITH A .040 DIA. PLATED-THRU HOLE LOCATED IN THE CENTER OF EACH FINGER CONTACT .050" AWAY FROM THE MAIN BODY OF BOARD.
- THE PRINTED CIRCUIT BOARDS SHALL BE KEYED WITH SLOTS .070" WIDE & .400" HIGH LOCATED BETWEEN FINGER CONTACTS 8 & 9, 13 & 14 AS VIEWED FROM COMPONENT SIDE OF BOARD.
- (A) ALL HOLES TO BE PLATED-THRU WITH MINIMUM COPPER PLATING THICKNESS OF .001, EXCEPT "A" MTG. HOLES.  
(B) PLATE .0003 TO .0005 NICKEL & 25 MILLIONTHS MINIMUM OF GOLD ALL ETCHED SURFACES AND PLATED-THRU HOLES.



THE ORIGINAL ARTWORK TO BE SUPPLIED BY TMC FOR PHOTOGRAPHING (SCALE 1:1)

## MACHINING (A-3312-2)

DO NOT SCALE, WORK TO DIMENSIONS

1	LFS-1	AX-474
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE	CODE	
1:1	A	

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
GELLMAN LIST OF MATERIAL				
MATERIAL		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK		
FINISH		TITLE PRINTED CIRCUIT BOARD, ASS'Y (- MIXER MODULE)		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		DRAWN J. LESHINSKI	DATE 11/6/63	FINAL APPROVAL DATE
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005		CHECKED DATE 7-31-64	ELECT. DES. DATE	MECH. DES. DATE
TOLERANCES ± 1/64 ANGLES ± 0° 30'		A 3312 D		
SHEET 1 OF 2				REV. LTR.

### NOTES

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A 3312 D