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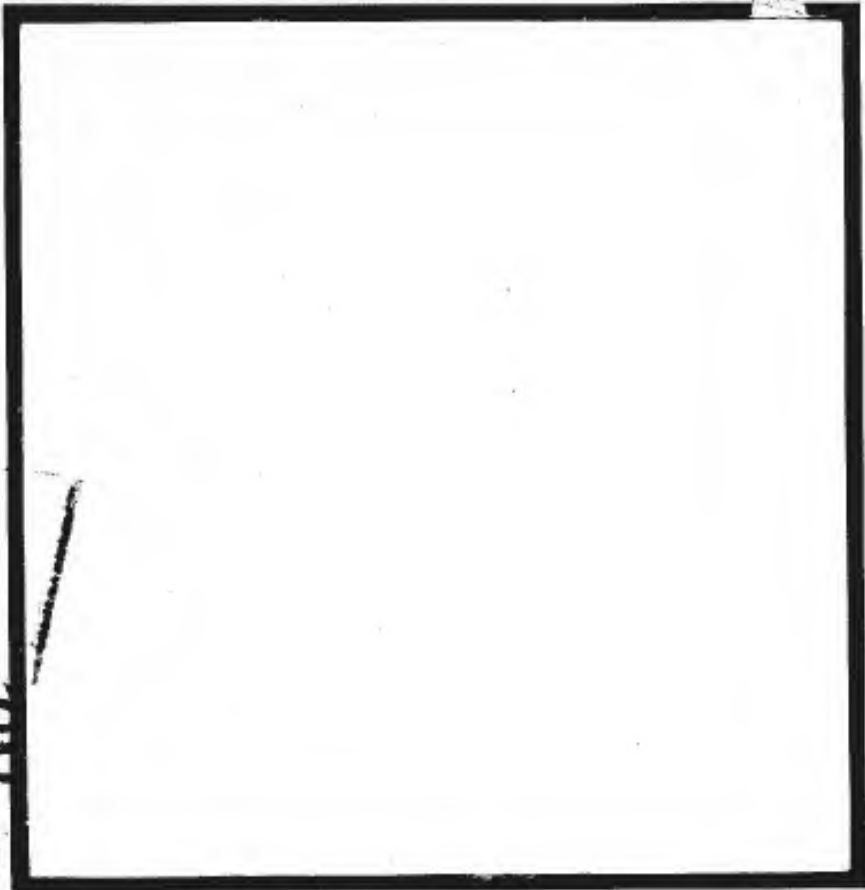


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BORG-WARNER CORPORATION  
INGERSOLL KALAMAZOO DIVISION  
1810 North Pitcher Street, Kalamazoo, Michigan



# INGERSOLL KALAMAZOO DIVISION

BORG-WARNER CORPORATION

## LVTPX11 BASIC ENGINEERING STUDY

### Final Engineering Report

Prepared by  
Ingersoll Kalamazoo Division  
Borg-Warner Corporation

in response to  
Article 1, Item 1, Contract NObs 4561

29 November 1962

Volume IV of IV

Republished 28 October 1963



# INGERSOLL KALAMAZOO DIVISION

BORG-WARNER CORPORATION

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SK-5198	Installation Infrared Viewer and Stowage Box	Sheet 3 of 3



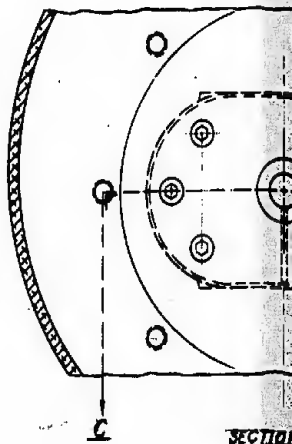
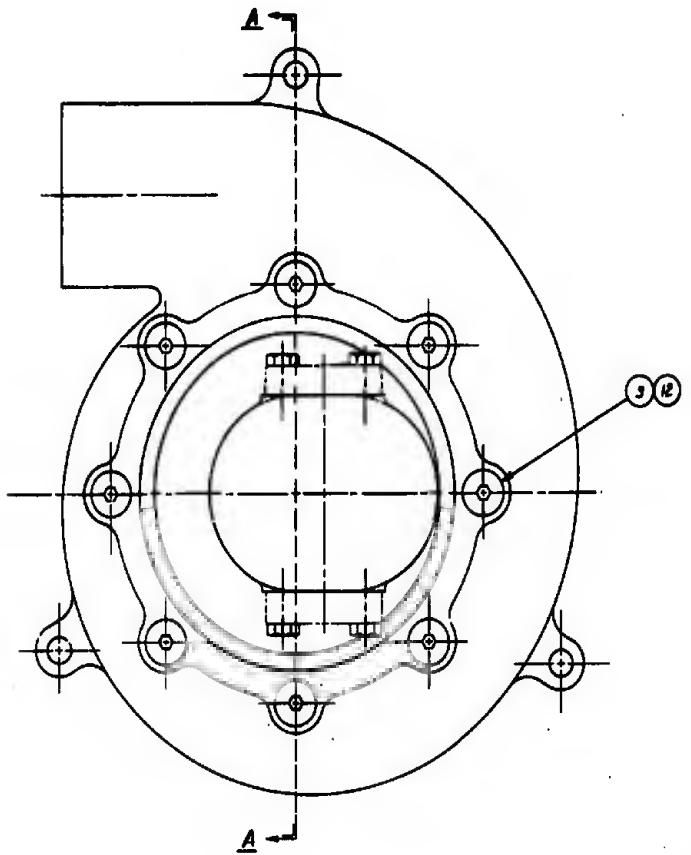
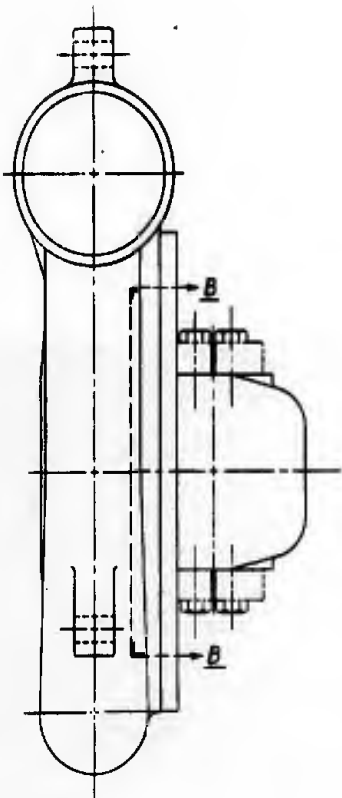
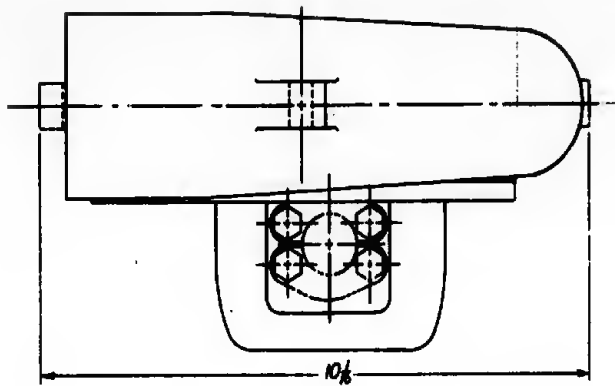
# INGERSOLL KALAMAZOO DIVISION

BORG-WARNER CORPORATION

## NUMERICAL LIST OF DRAWINGS (Continued)

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SK-5245	Cooling System Engine and Transmission	Sheet 1 of 1
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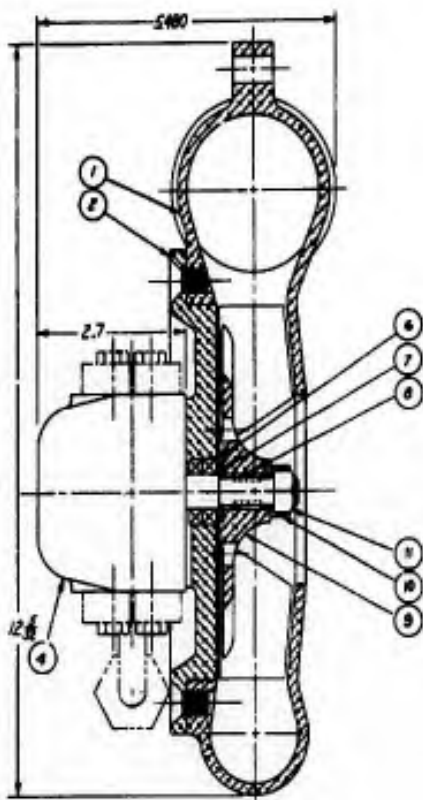
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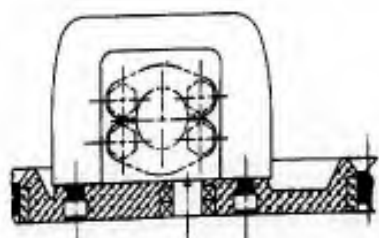
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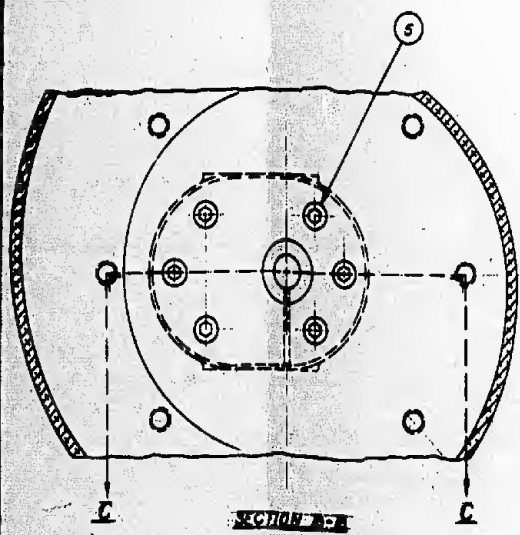


SECTION A-A

NOTE: WHEN INSTALLING CHECK DEGRADE AND APPLY SEALANT PER DRAWING REFER TO ALL SCREWS



SECTION C-C

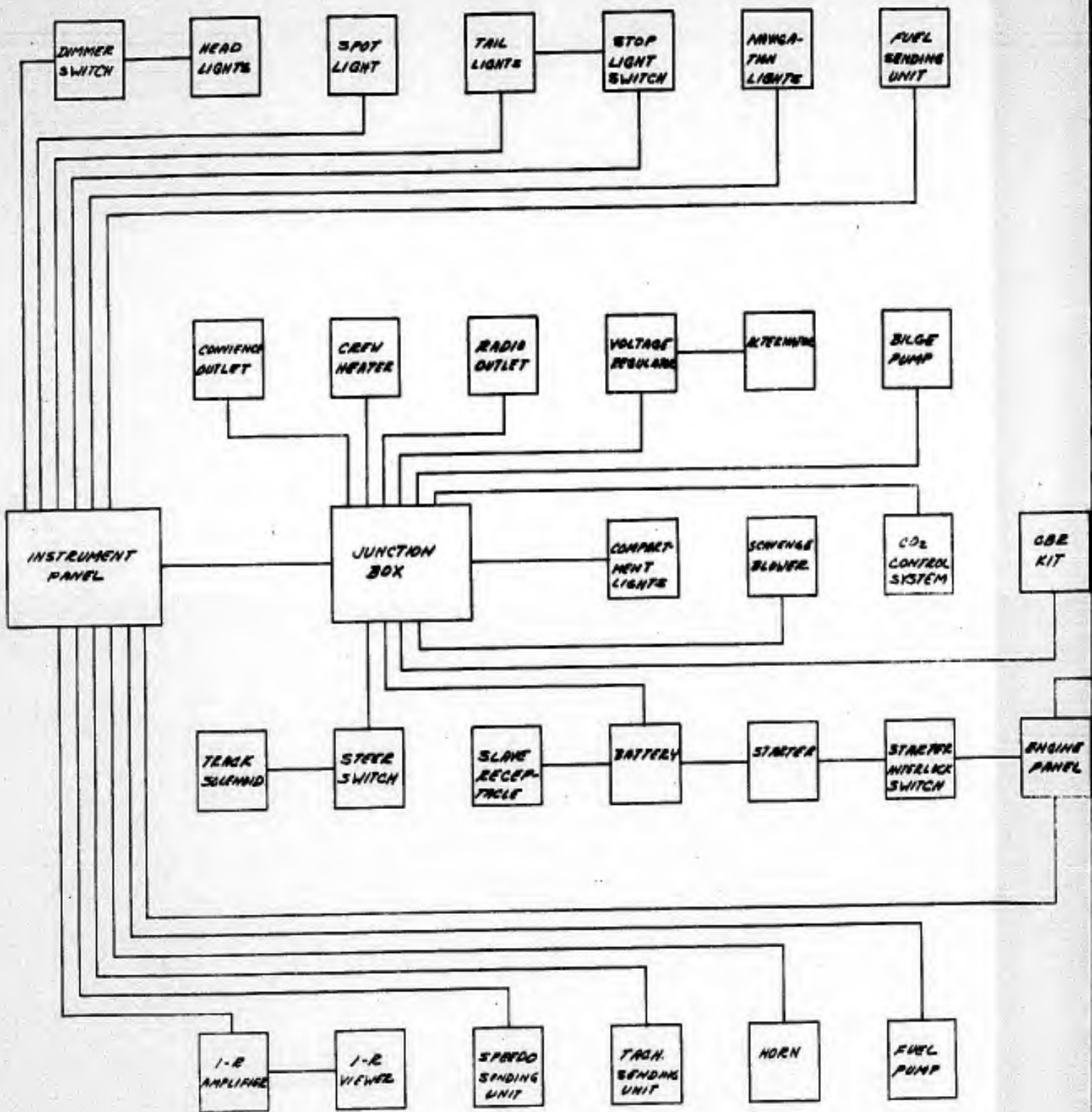


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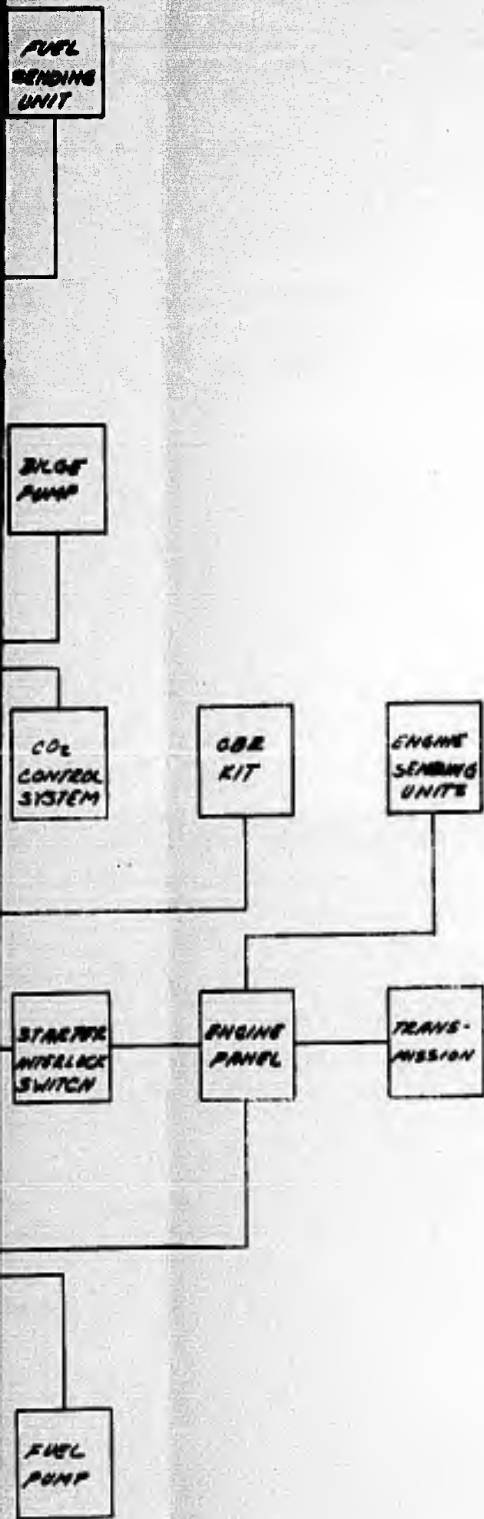
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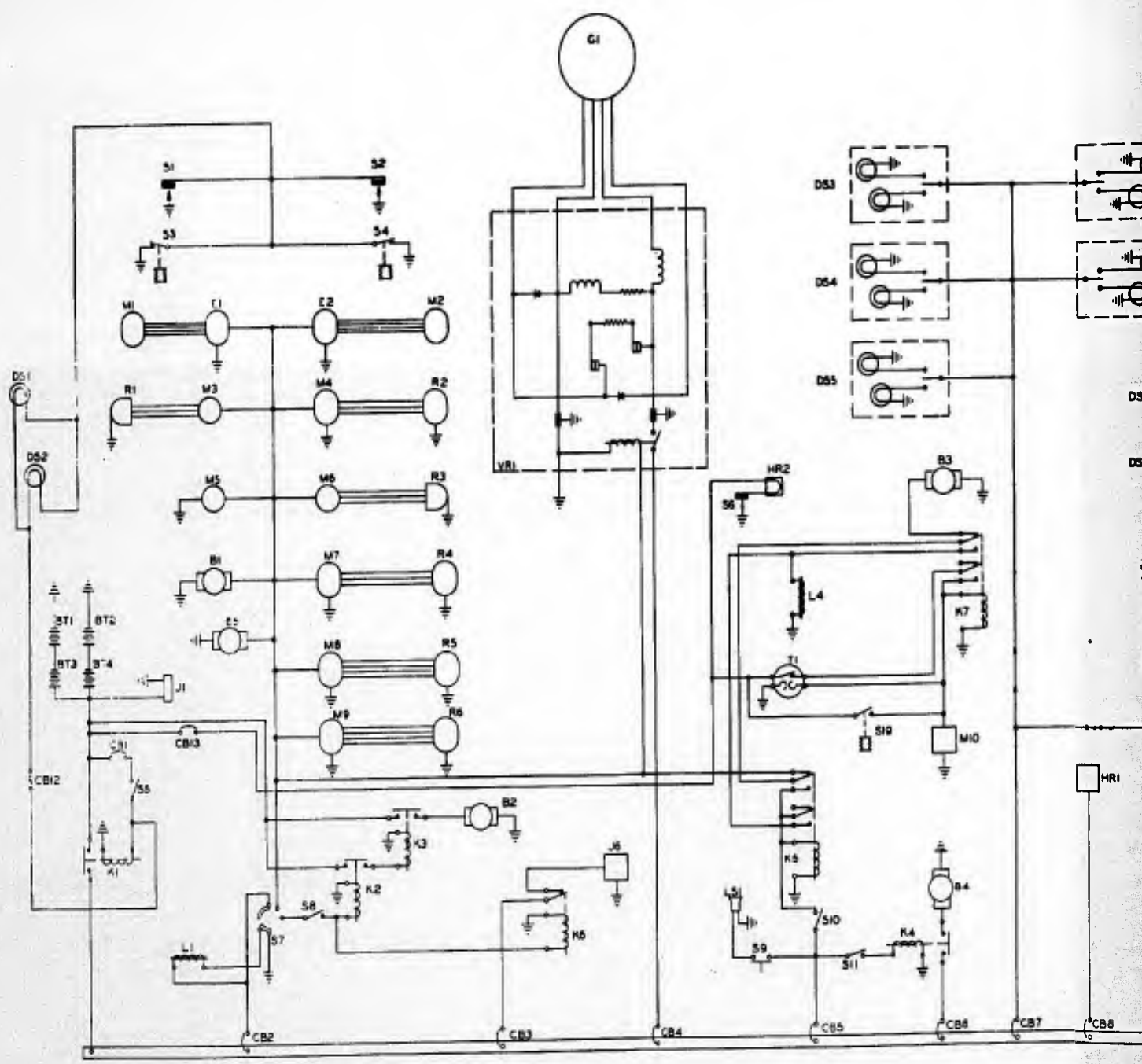


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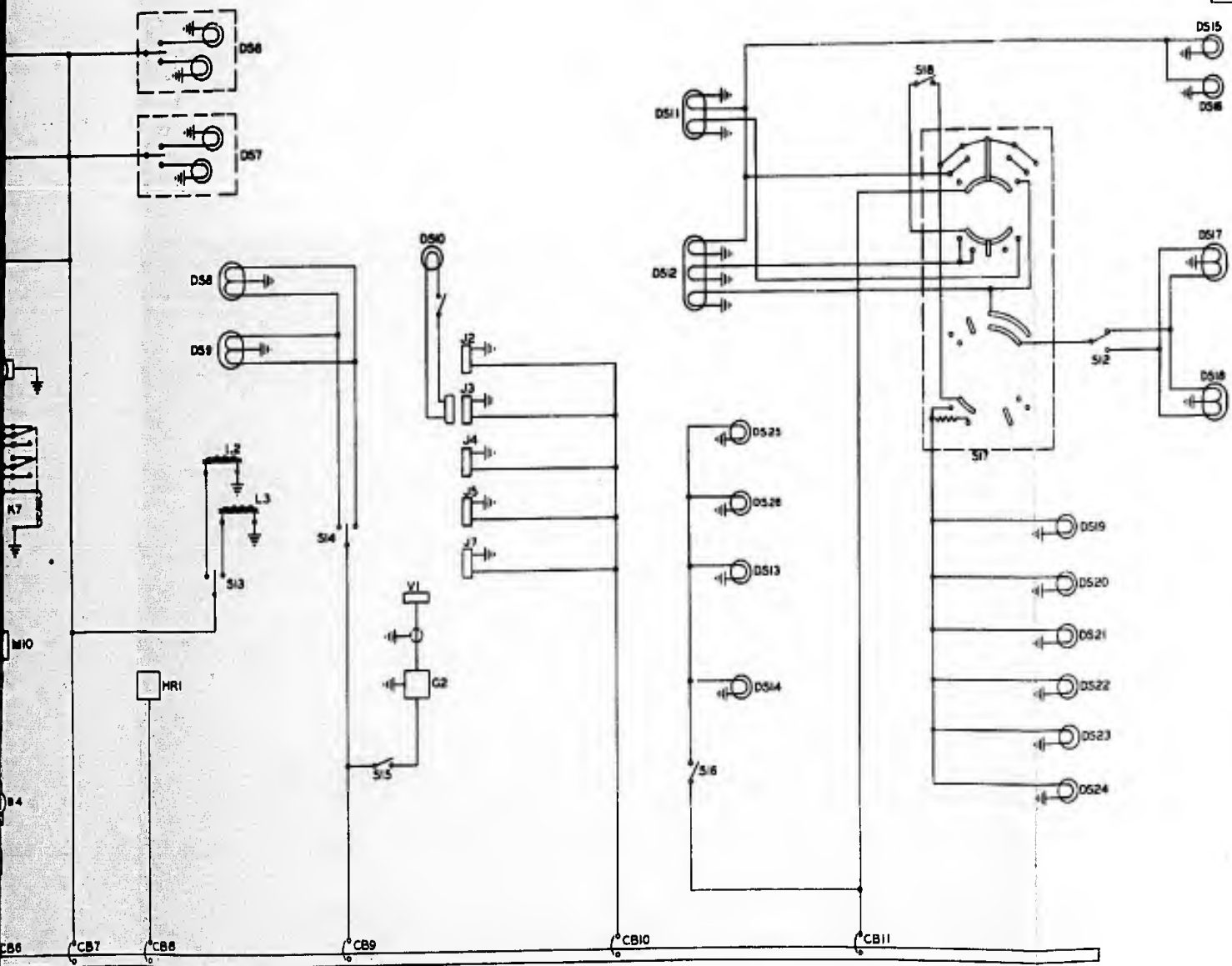
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	CHECKED BY		
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	<i>D. Smith</i> PROJ. ENGR.	4/26	
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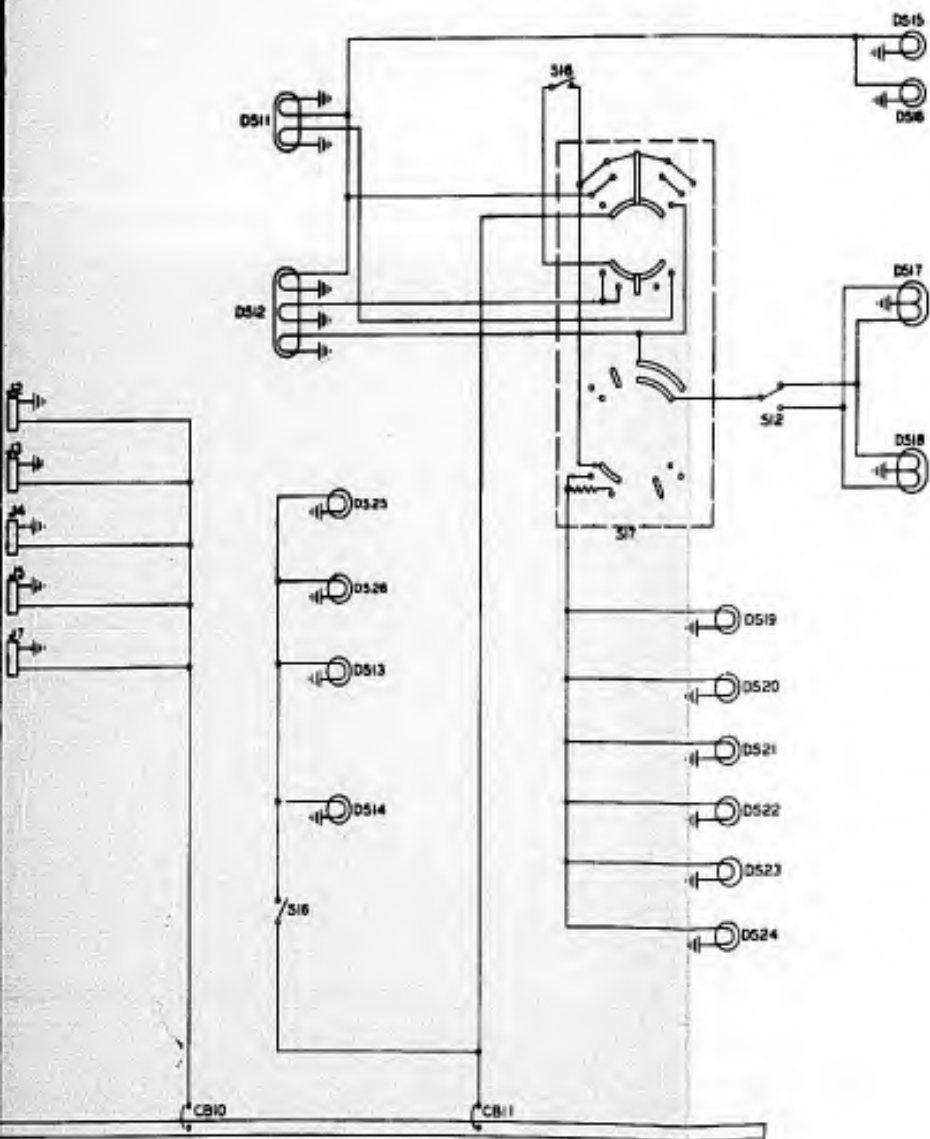


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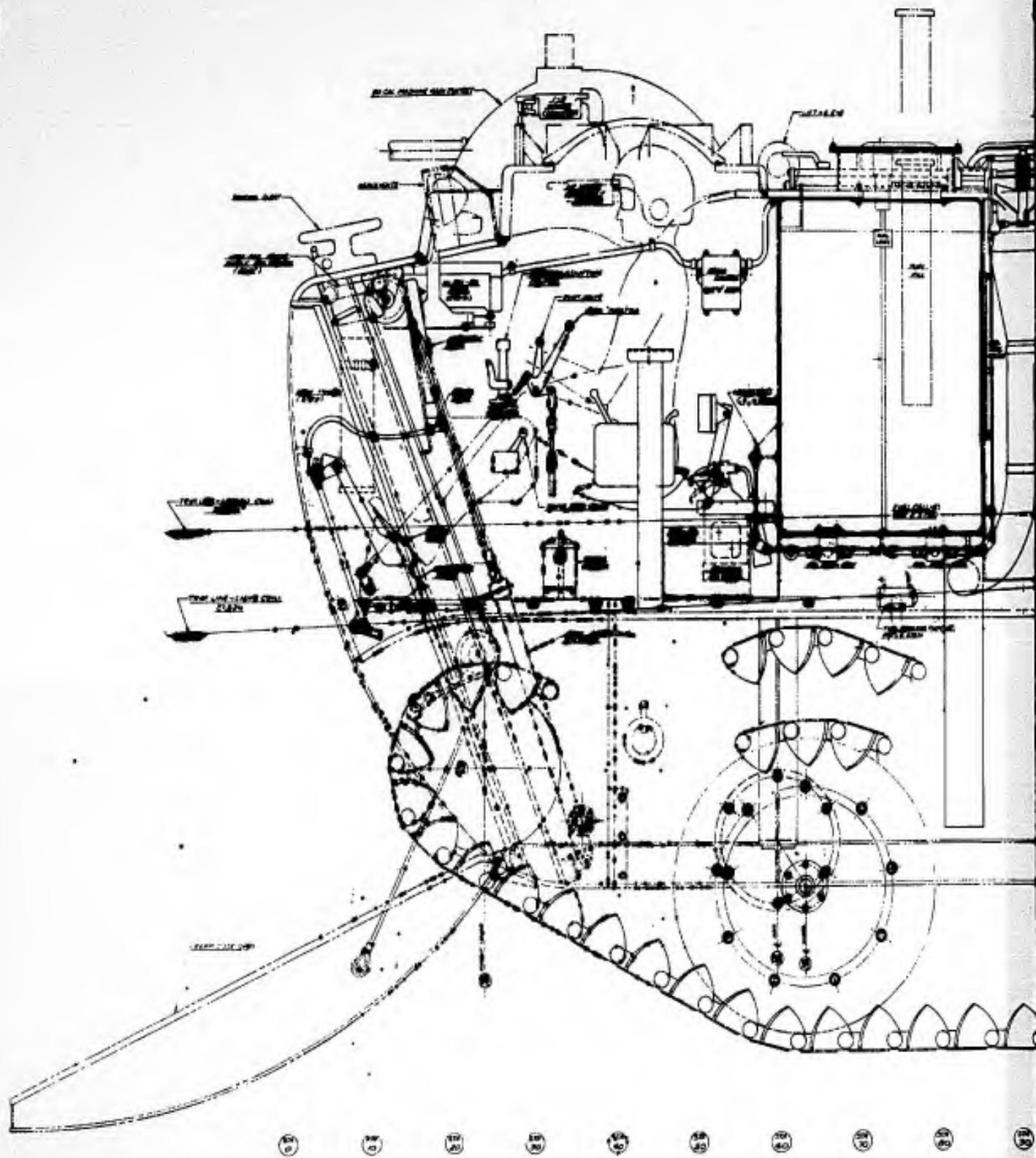


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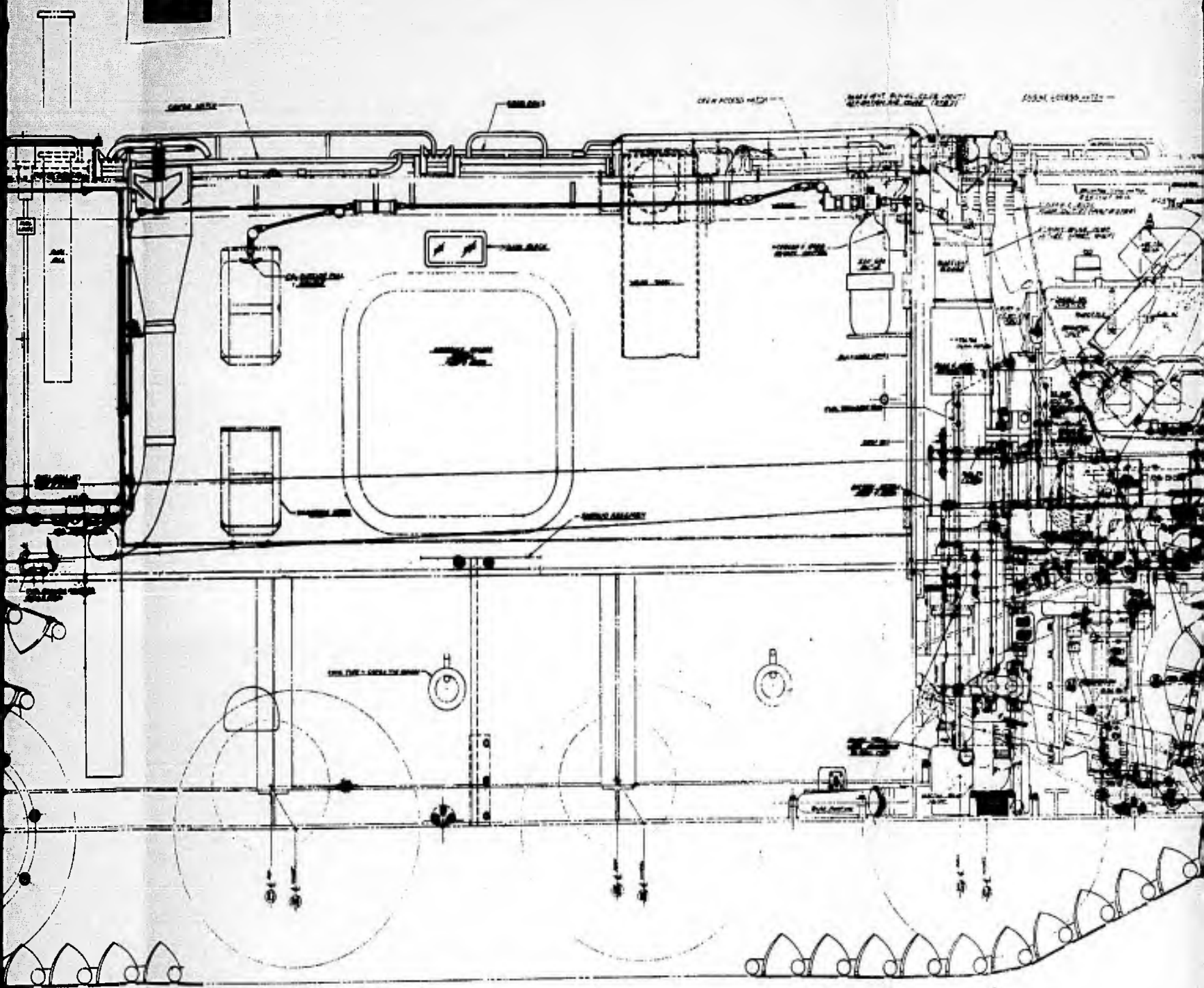


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APPROVED BY		DATE	1/10/55
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OPERATOR		INSTRUMENTS	
TESTER		REVISIONS	
DATE		BY	
TIME		REMARKS	

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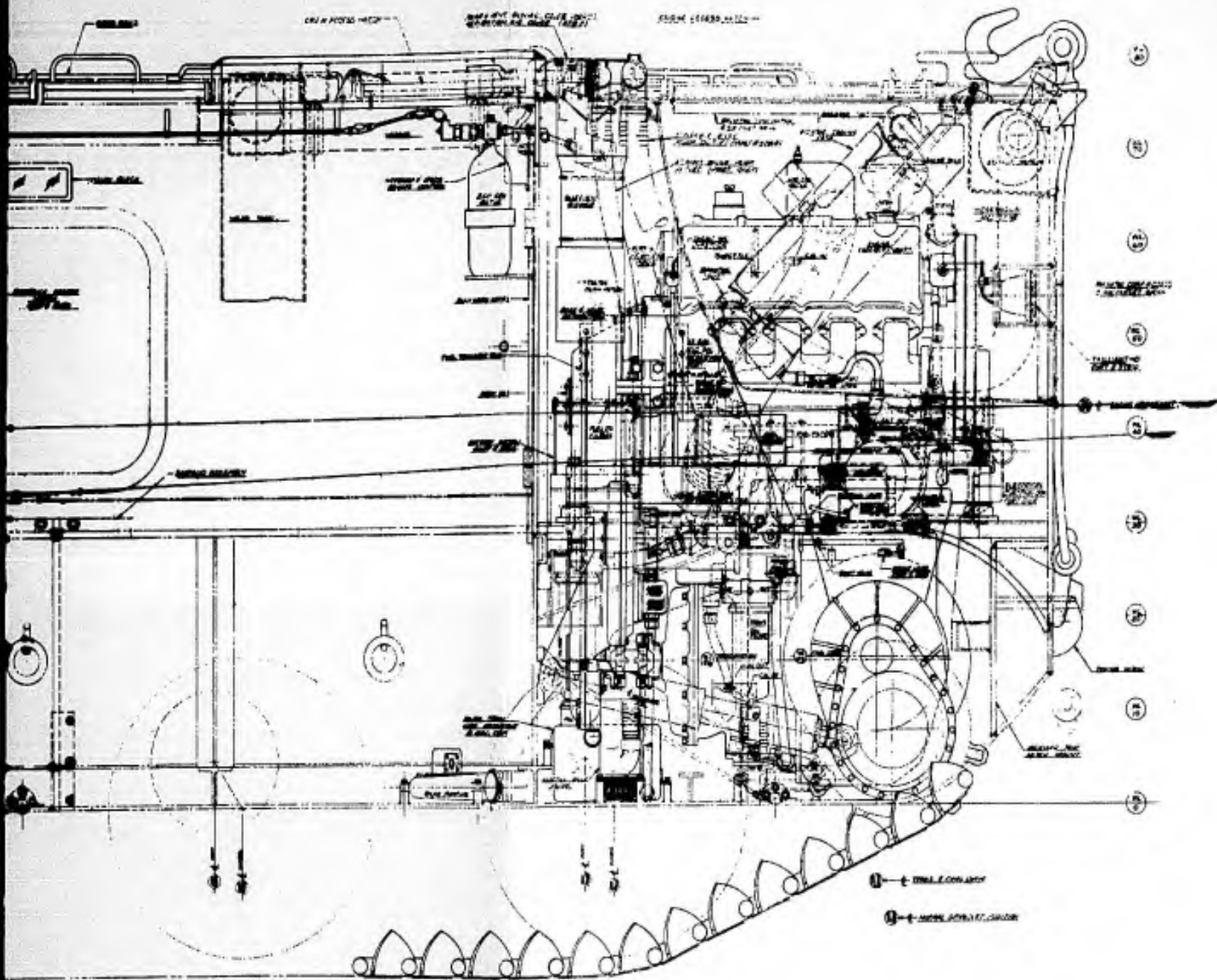


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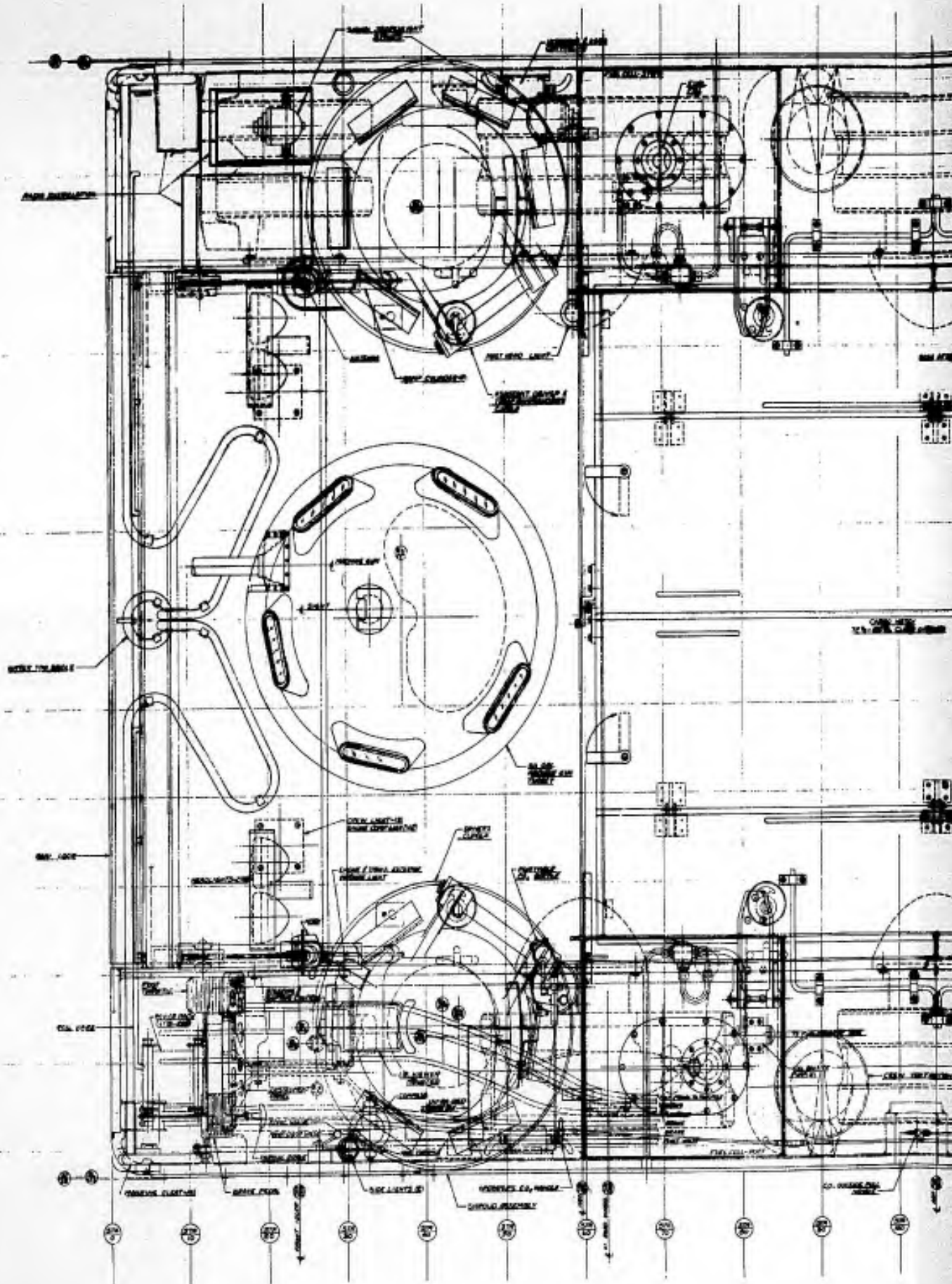
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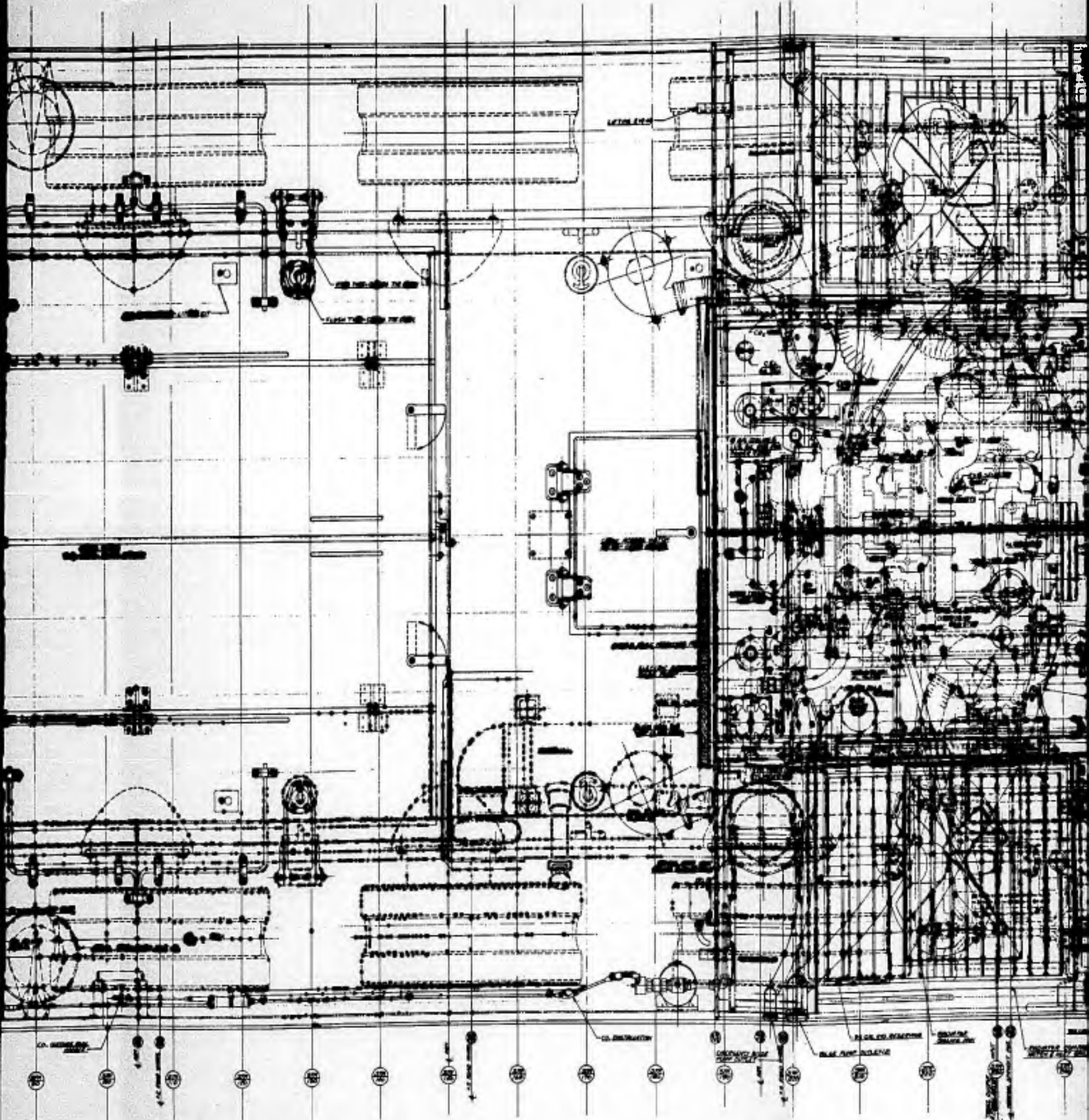


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NO. OF REVISIONS	0	NO. OF REVISIONS	0
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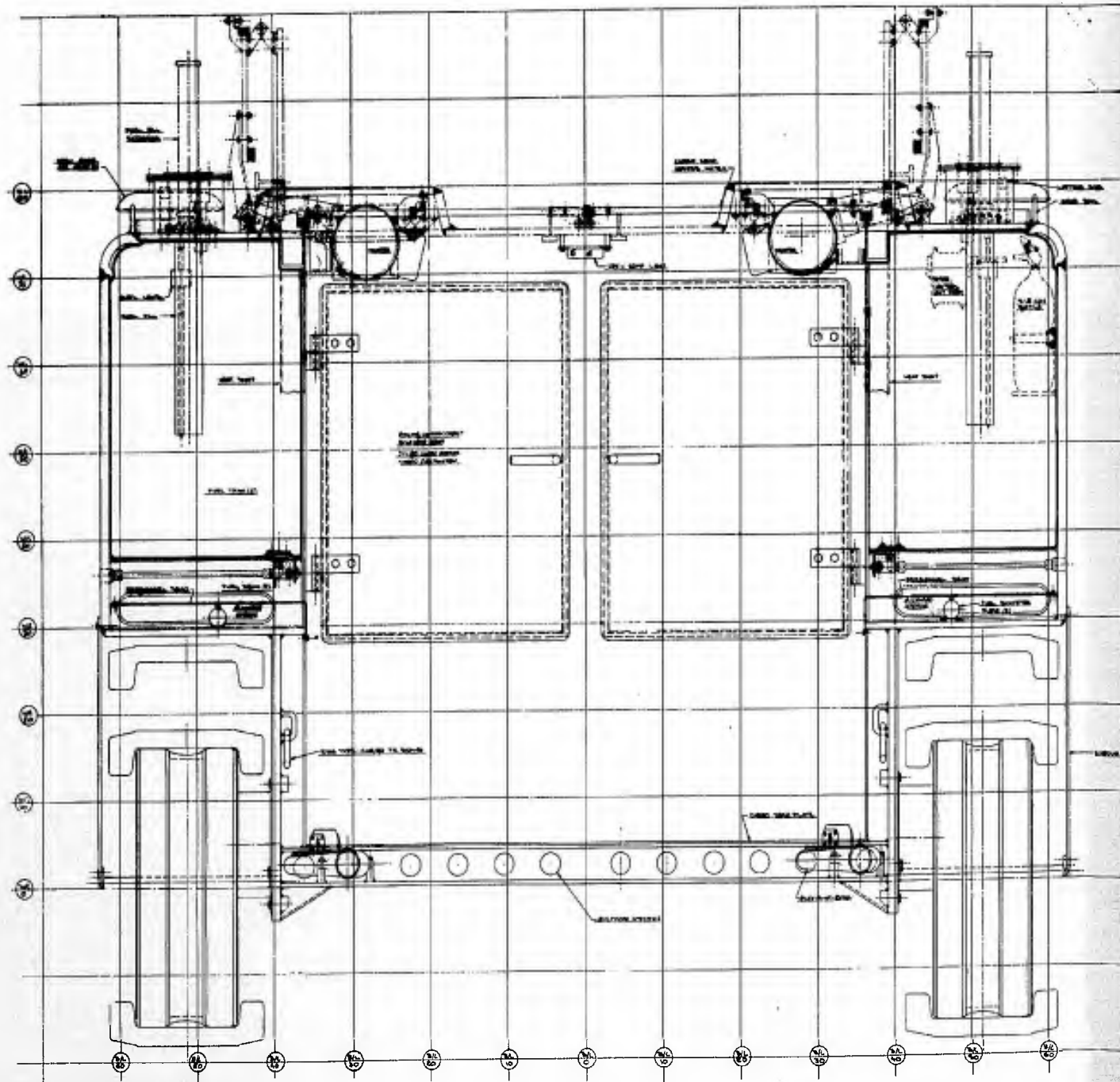


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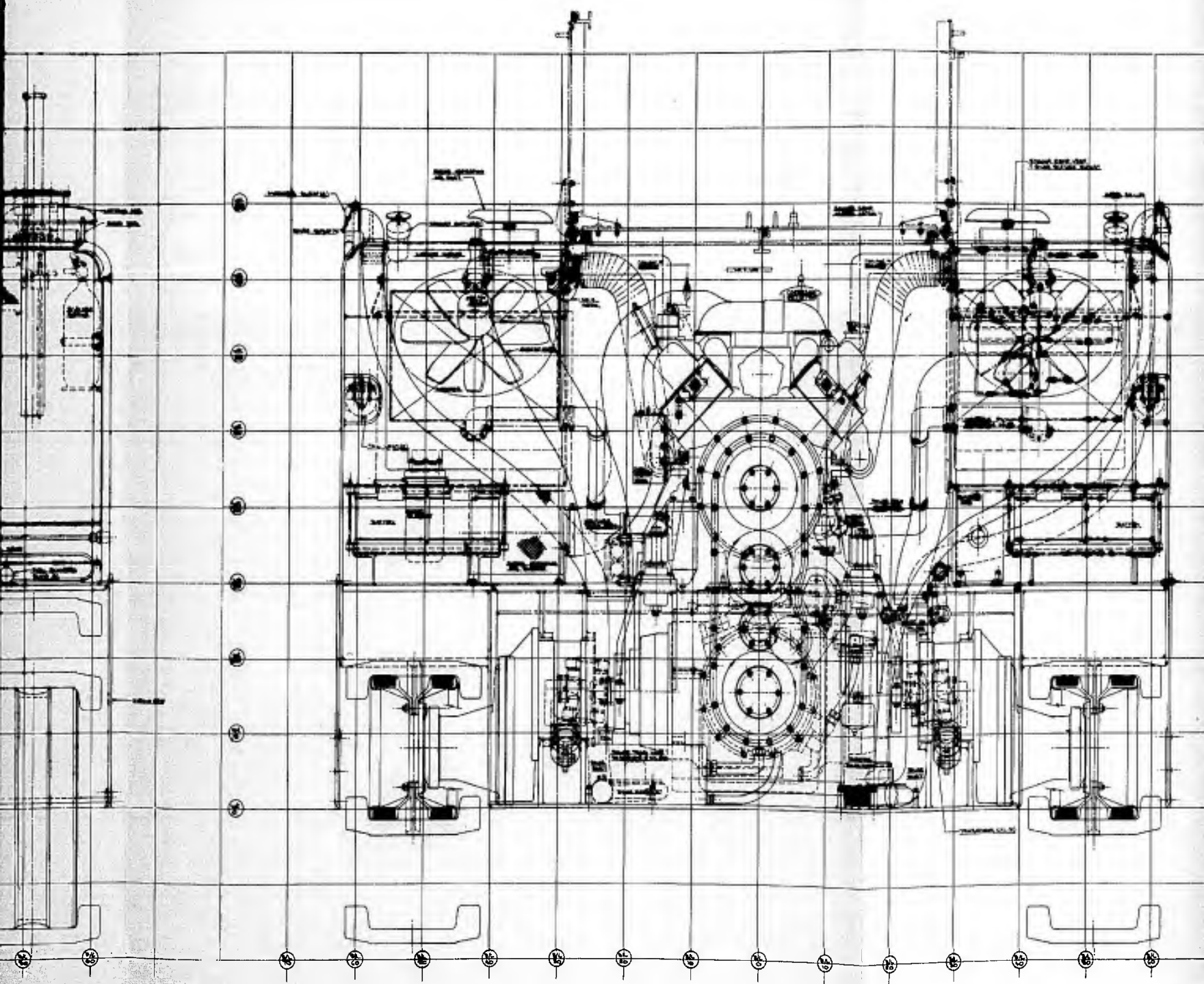
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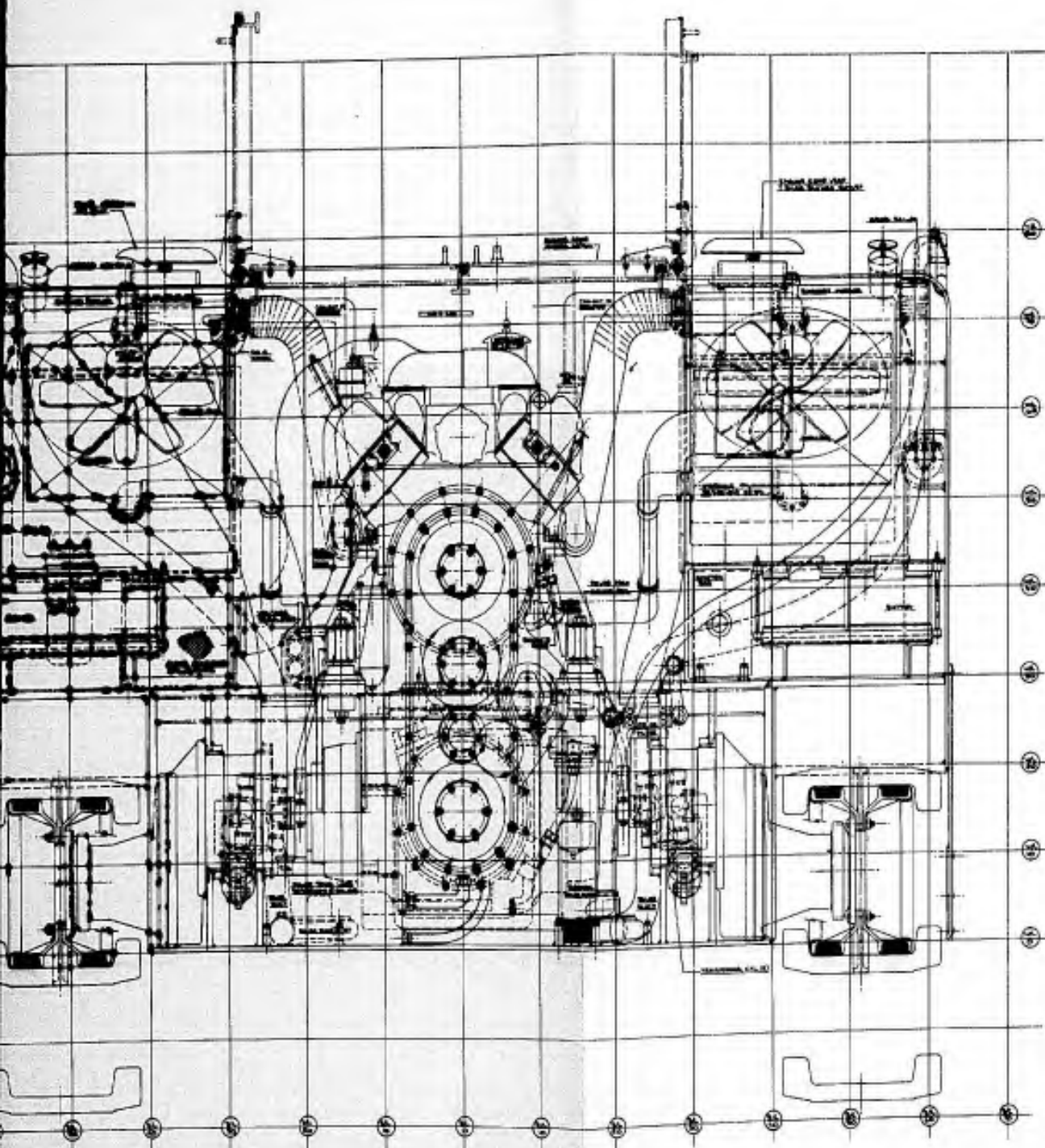


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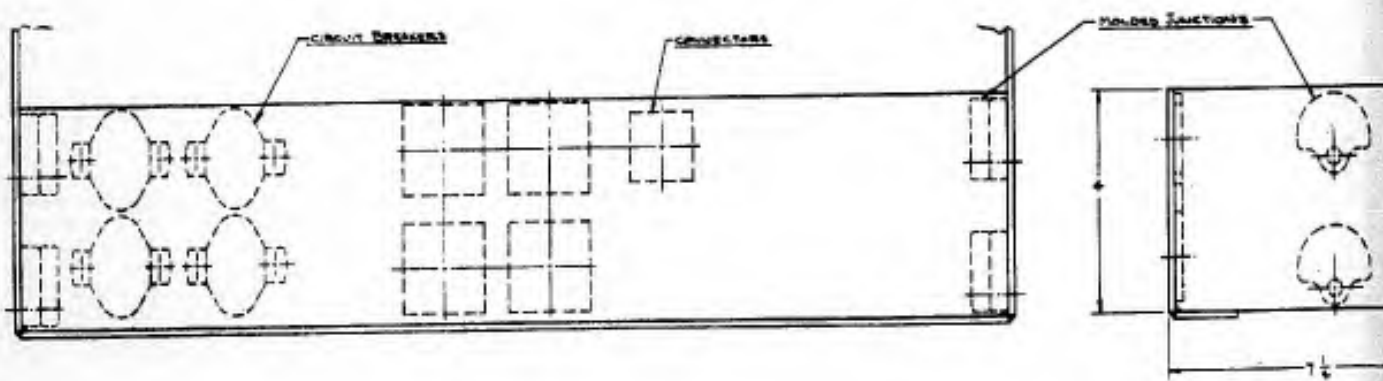
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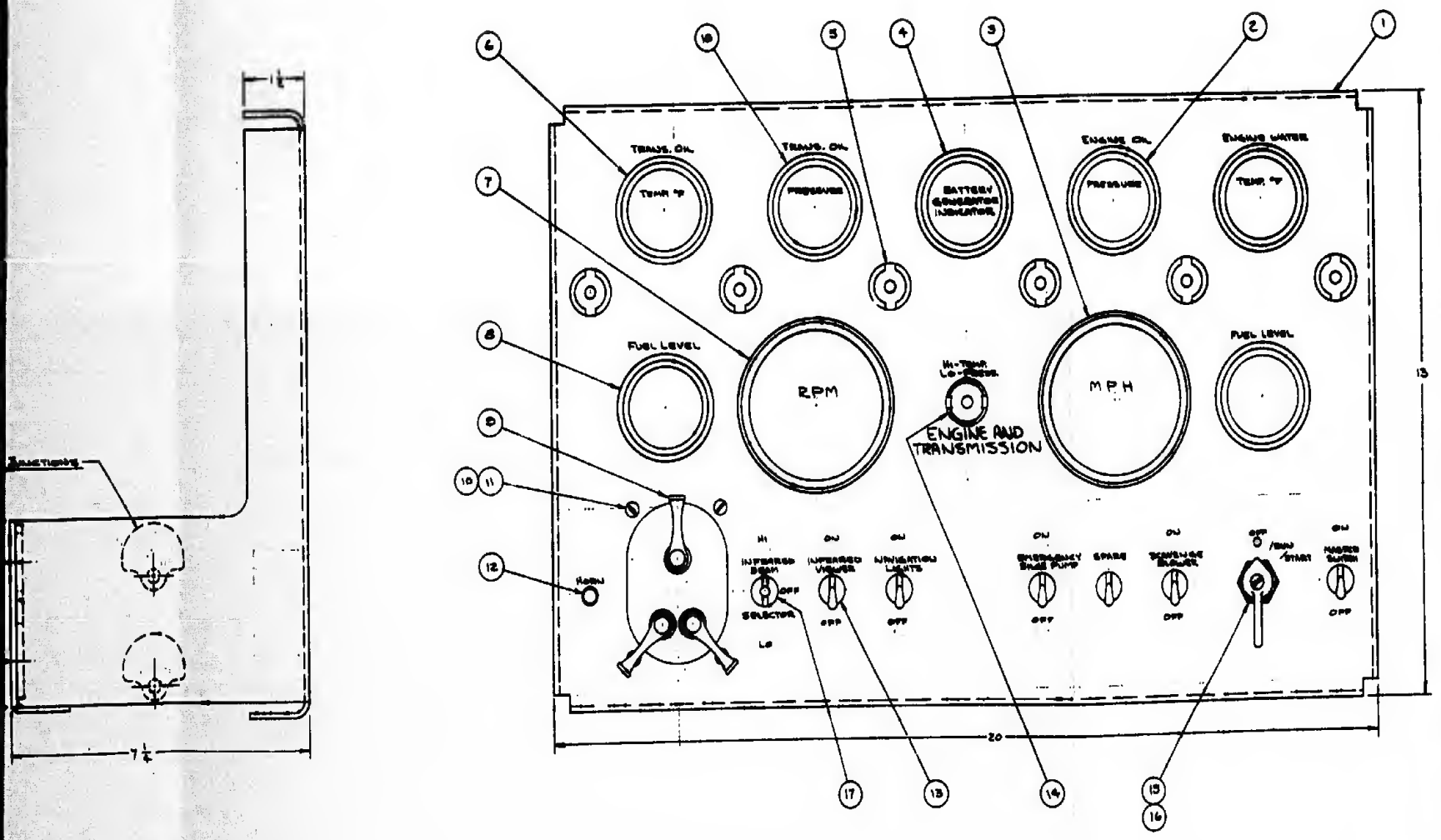


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Design	J. H. Smith	Approved	J. H. Smith
Drawn	J. H. Smith	Scale	1/2" = 1"
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Quantity	1	Notes	See drawing for details.
Part Name	Turbine Engine	Manufacturer	General Electric
Part No.	100-10000-100	Rev.	1
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Date	10/1/50	Drawn	J. H. Smith
Checked	J. H. Smith	Approved	J. H. Smith

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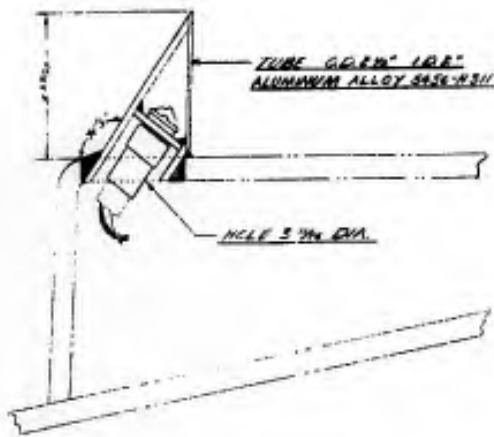


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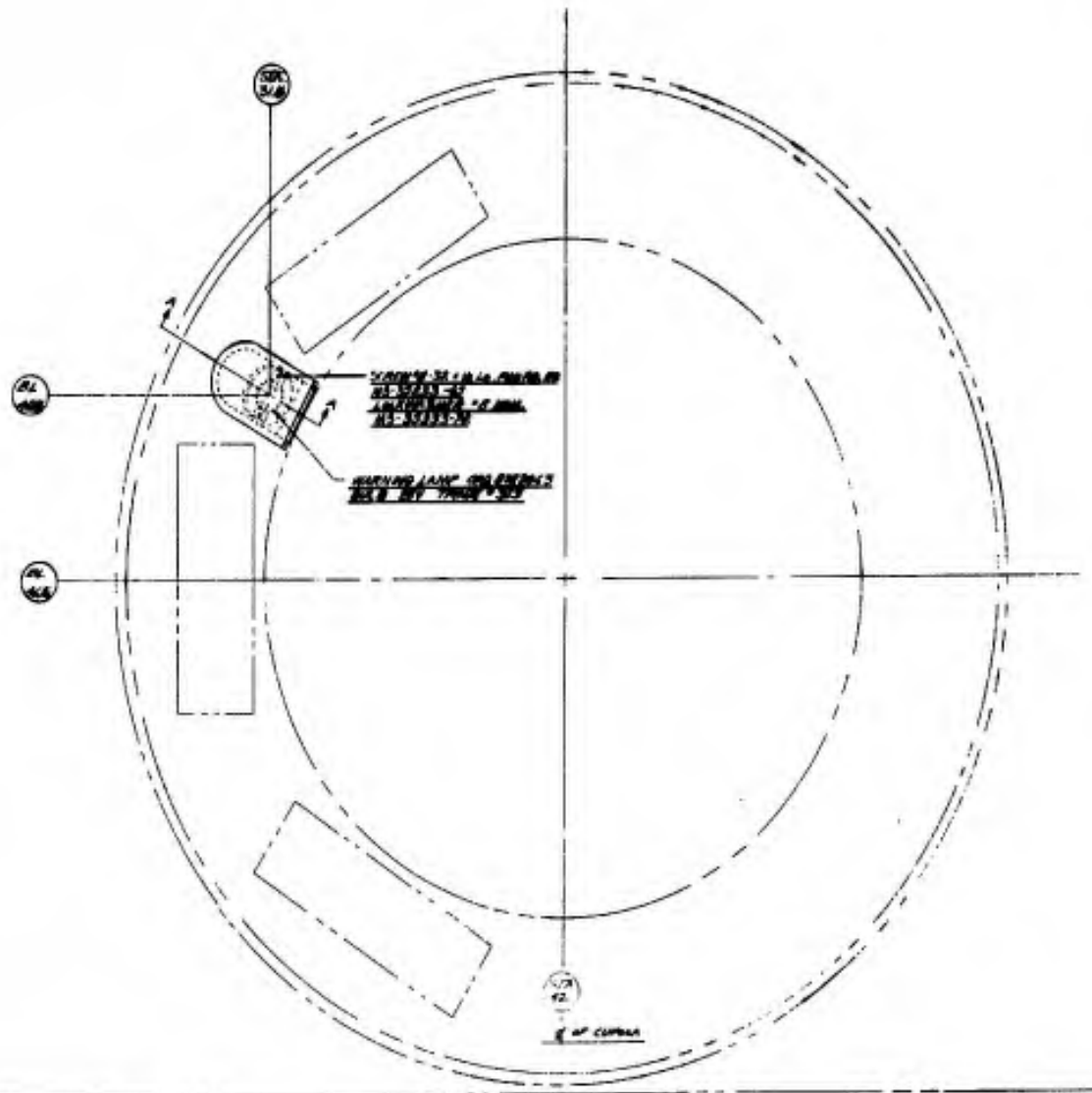
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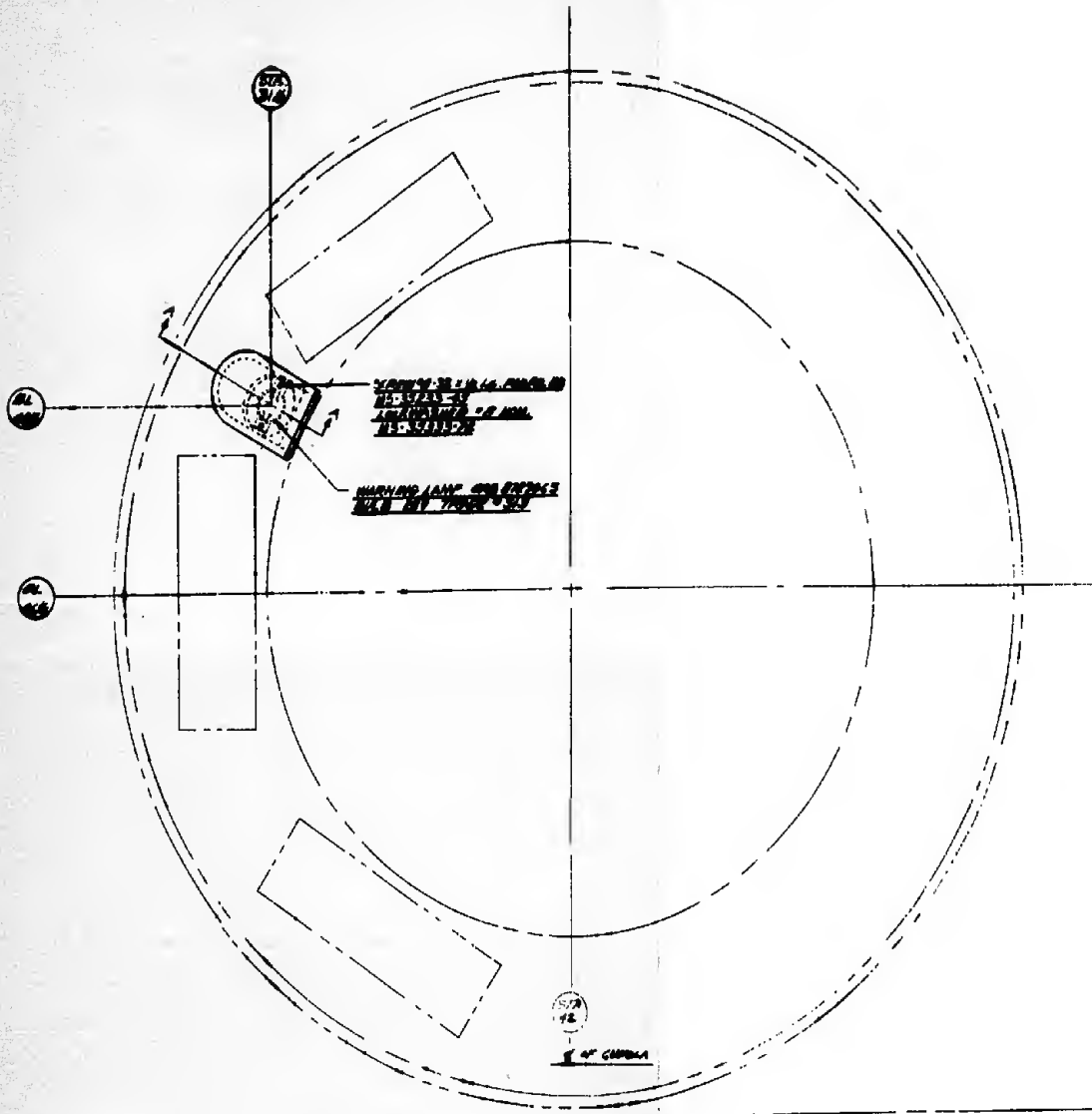


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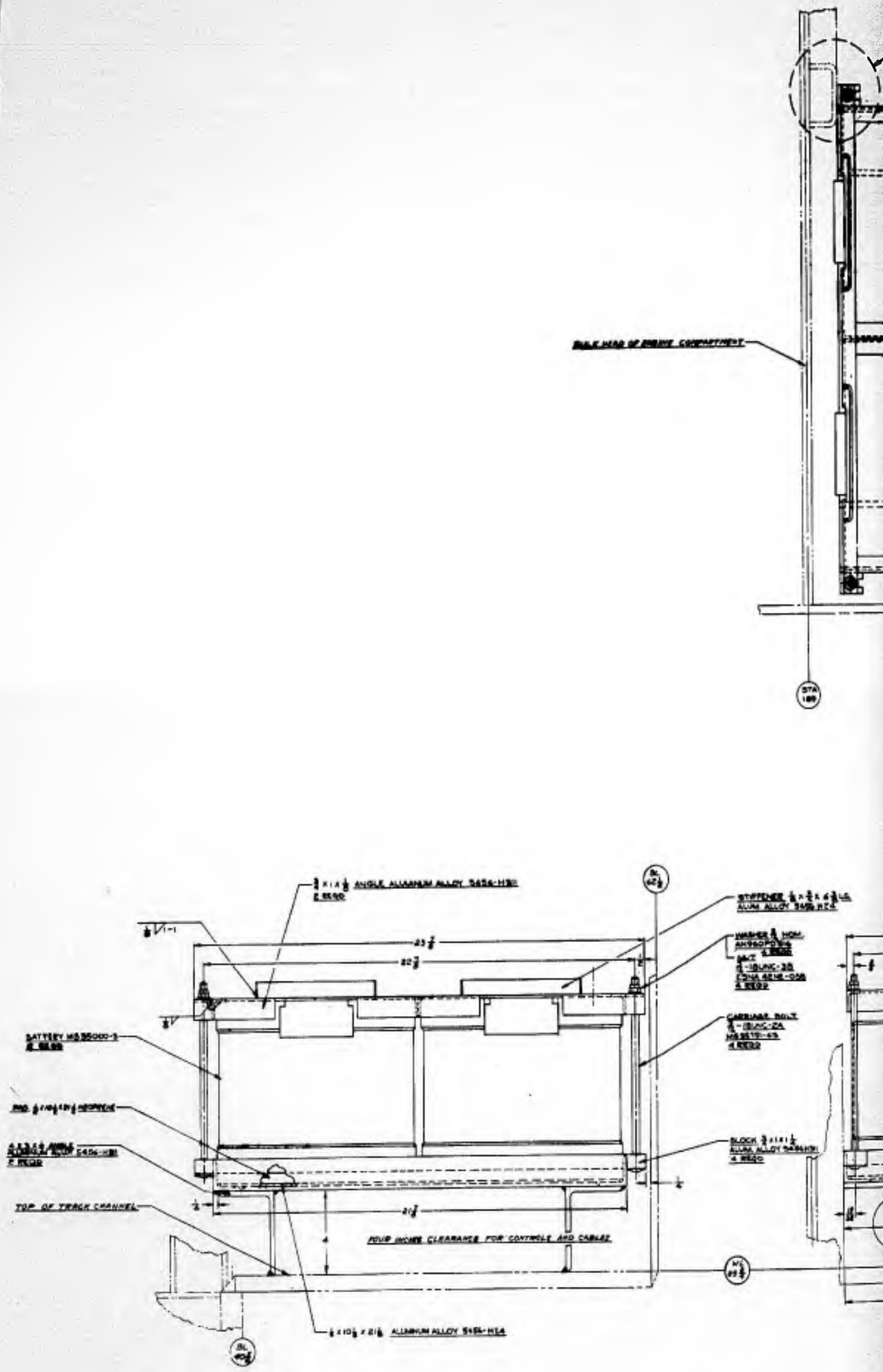
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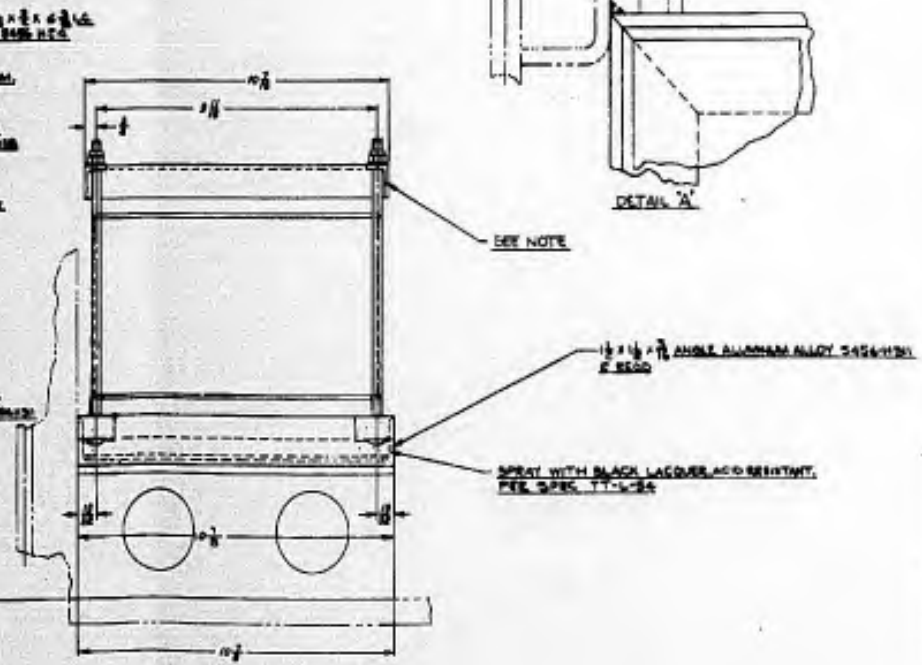
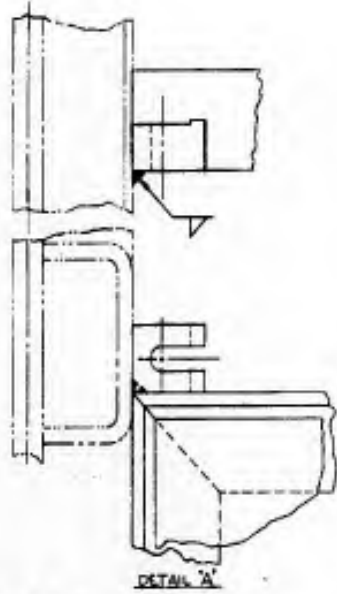
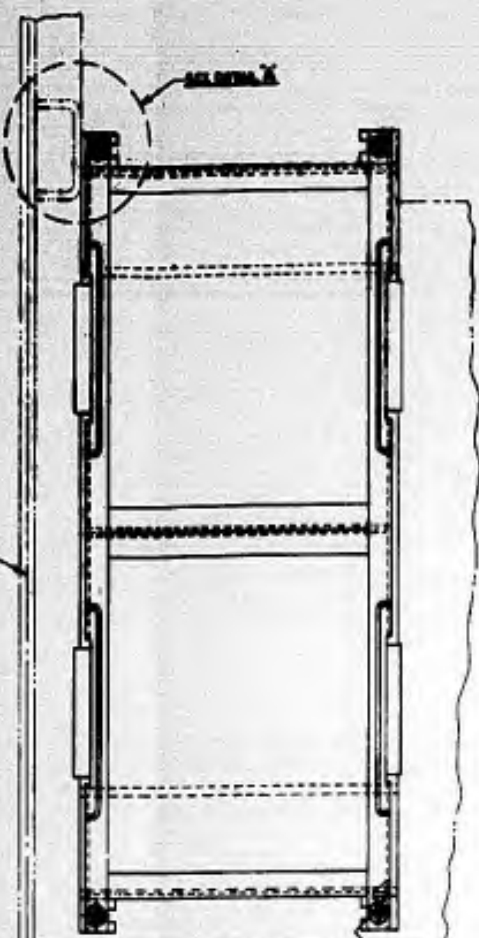




SPECIAL ALL PARTS QUANTITY FROM DRAWING CHECKED BY APPROVED BY DATE	10/24/54 10/24/54 10/24/54 10/24/54 10/24/54 10/24/54	MATERIAL CHANGE ORDER NO. 10/24/54 REASON & EFFECTIVE DATE FOR FIGHT AND TRANSMISSION FILTER HARDING LIGHT 10/24/54 J 5K-5120 10/24/54
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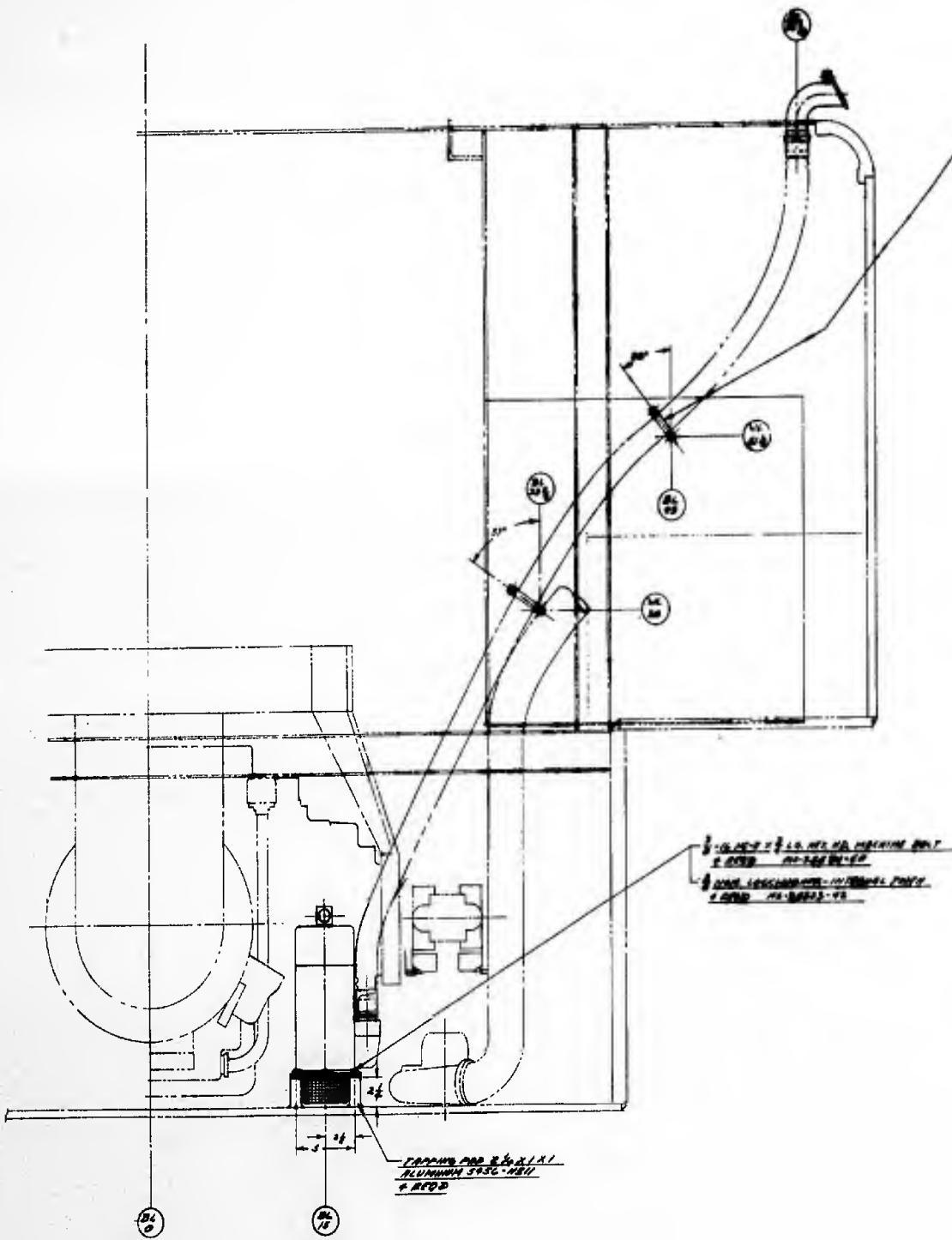




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DESIGNED BY:	J. J. [Signature]	CHECKED BY:	[Signature]
APPROVED BY:	[Signature]	DATE:	BATTERY INSTALLATION
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DRAWN BY:	J. J. [Signature]	DATE:	J 5K-5171
WORKING DRAWING TO:	UNLESS OTHERWISE SPECIFIED	DATE:	1 OF 1 SHEET

1



CLASS A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

TRAFFIC AND LIGHTS

CLASS A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

CLASS A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

CLASS A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

CLASS A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

TRAFFIC AND LIGHTS

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SECTION 100-102

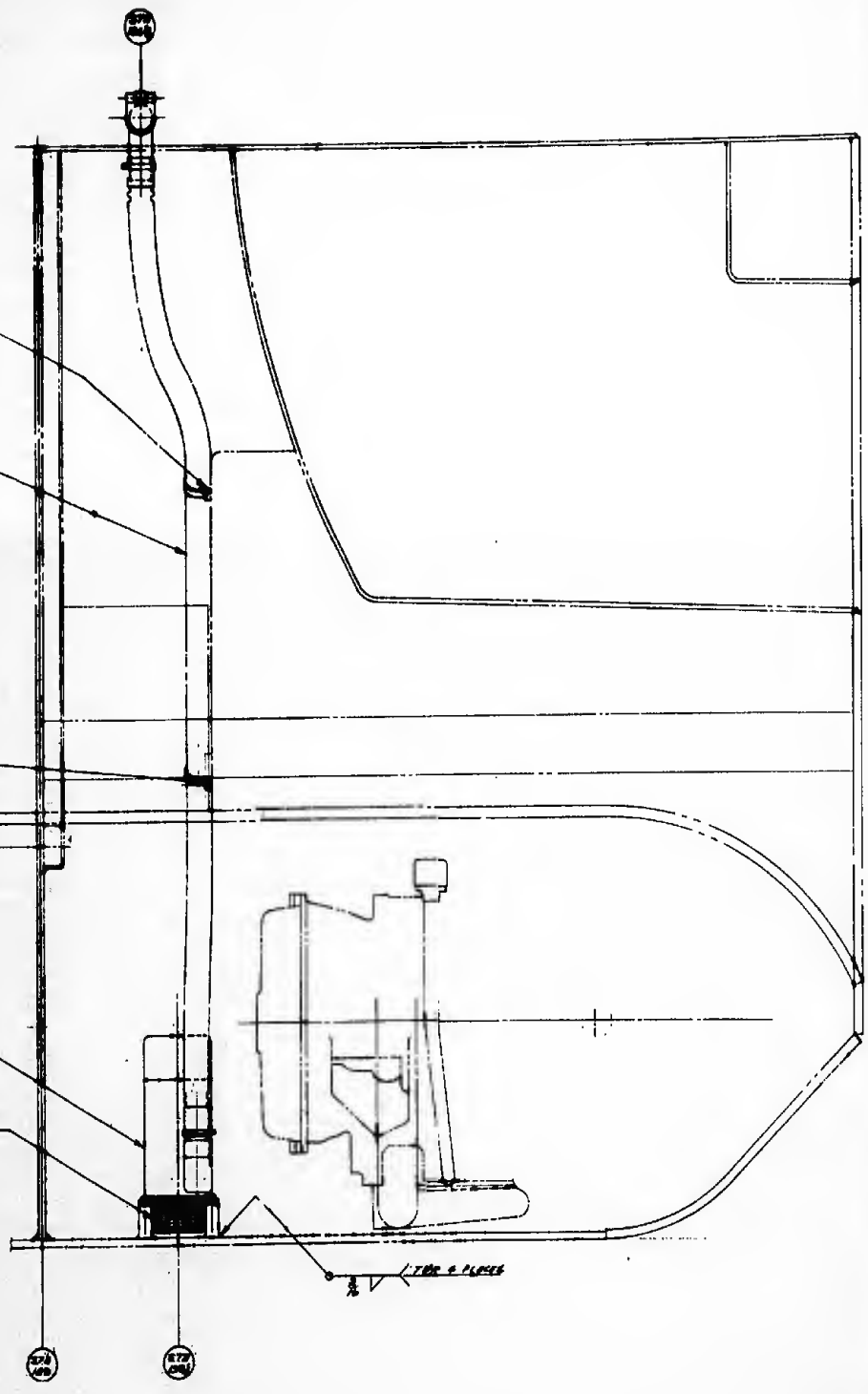
TRUCKING DOOR L.L.L. & B.M.  
SECTION 100-102

CLEARANCE HEIGHT  
20'

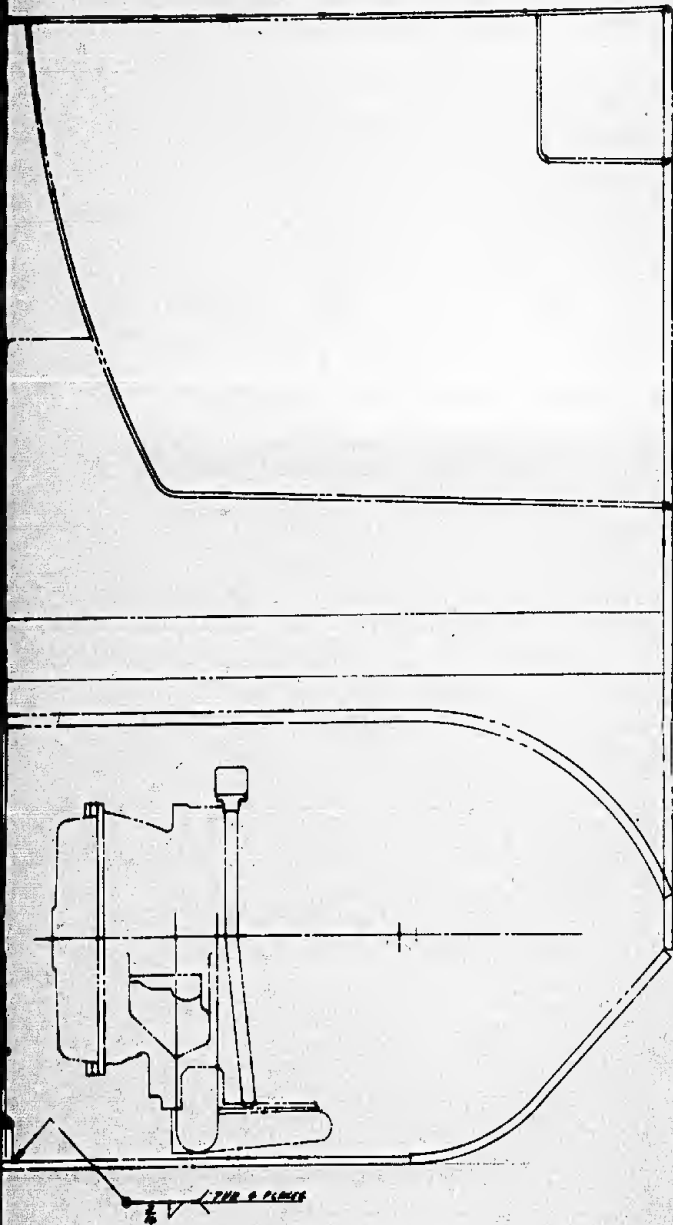
DOOR & WALLS TO BE REMOVED  
SECTION 100-102

DOOR AND SUPPORTS TO BE REMOVED  
SECTION 100-102

DOOR - L.L.L. TO BE REMOVED  
SECTION 100-102



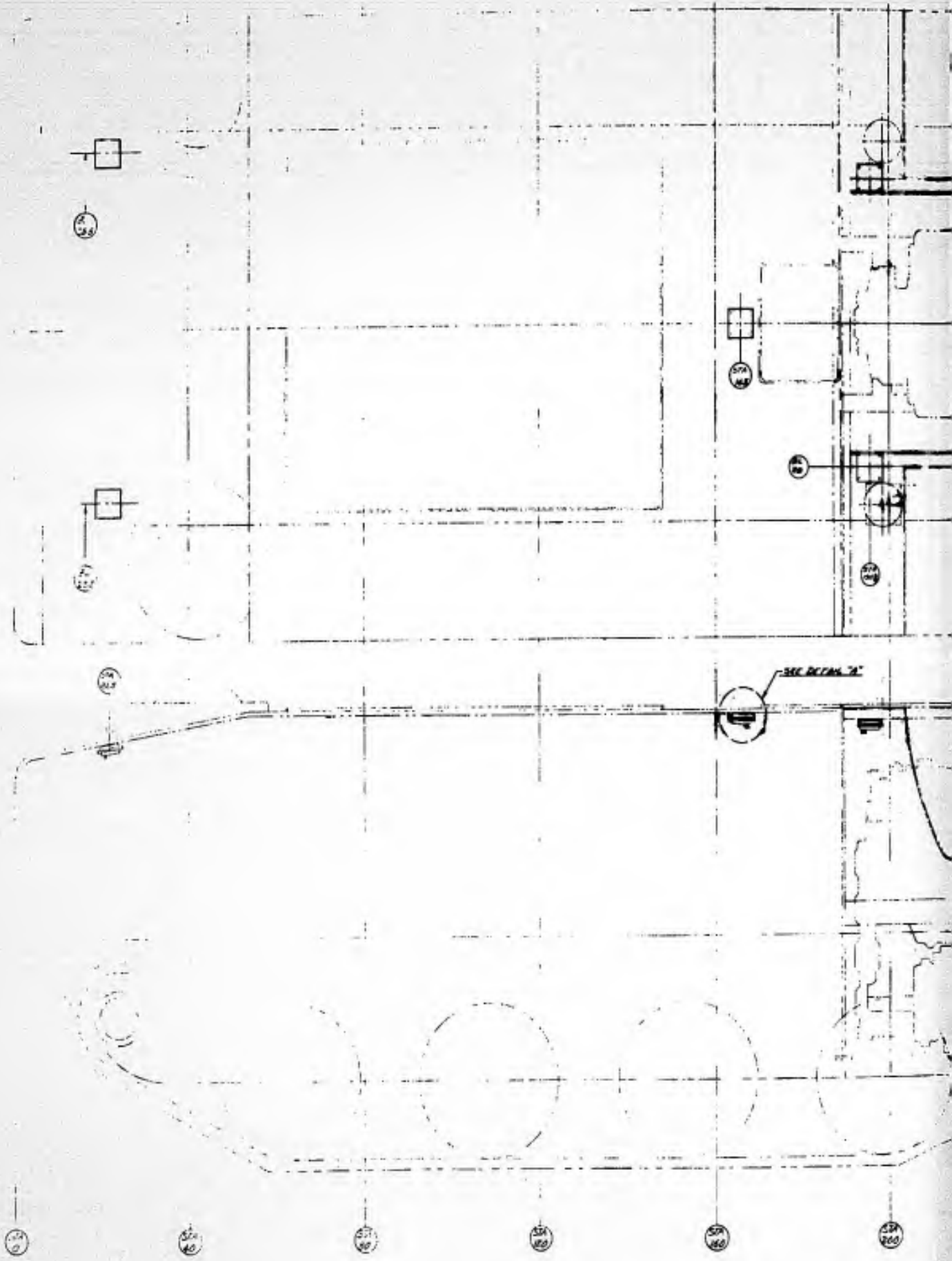
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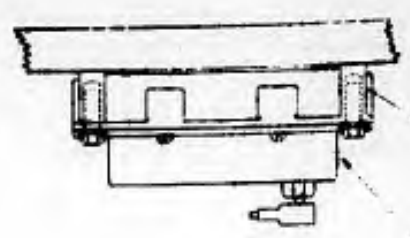
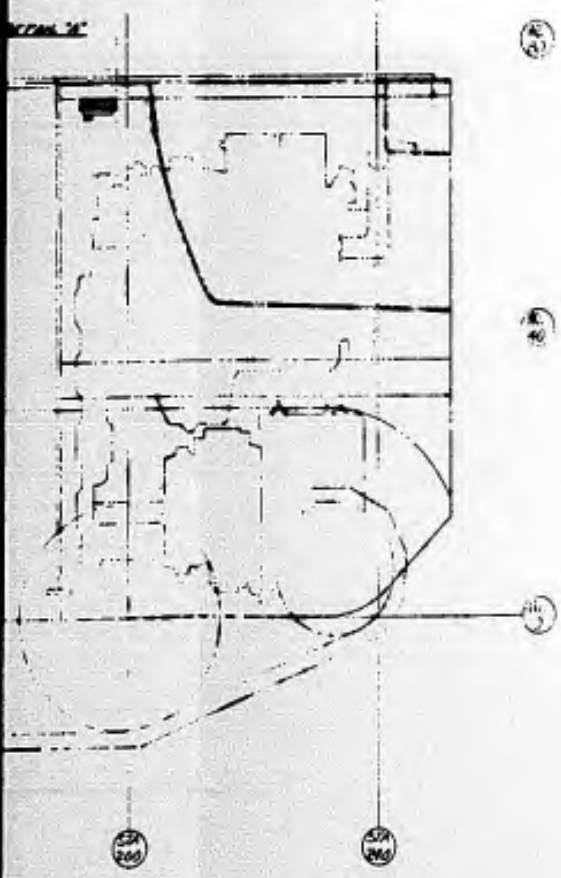
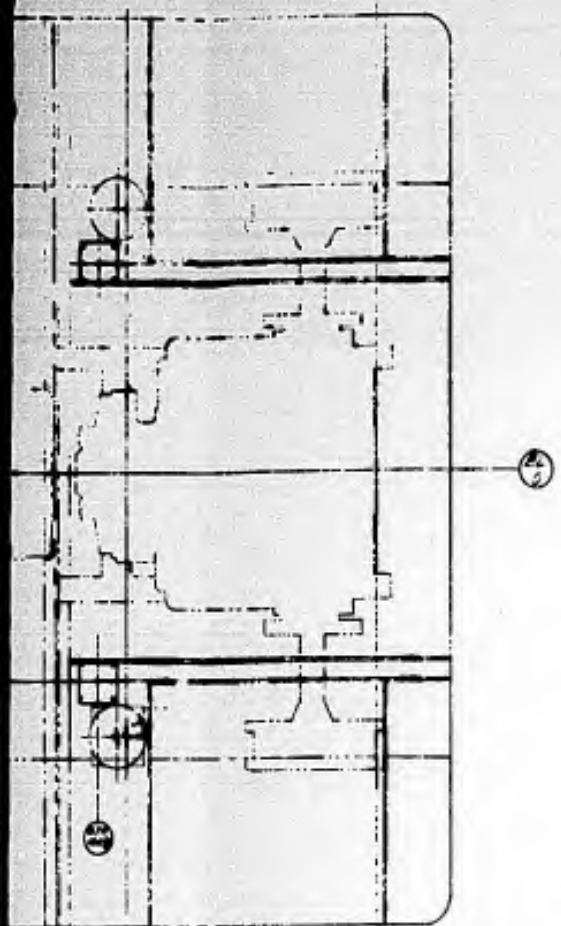


DATE:	1/24/54	ISSUED BY:	W. H. BARNETT	REVISIONS:	
REV. NO.:		DATE:		BY:	
REVISED FOR:	✓	BY:	W. H. BARNETT	DATE:	1/24/54
DESIGNED BY:	W. H. BARNETT	CHECKED BY:	W. H. BARNETT	DATE:	1/24/54
APPROVED BY:		SCALE:	1/4"	PROJECT:	EMERGENCY
WORKS ORDER NO.:		DRAWING NO.:	152-572	REV. NO.:	1
QUANTITY:					

WHEEL BALANCE DIVISION  
ENGINE & MACHINE DEPT.  
GENERAL INVESTIGATION  
RESEARCH & DEVELOPMENT DIVISION

1



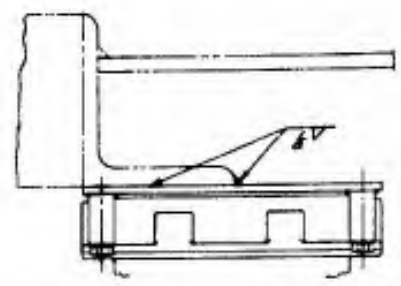


-WELD STUD

DETAIL A

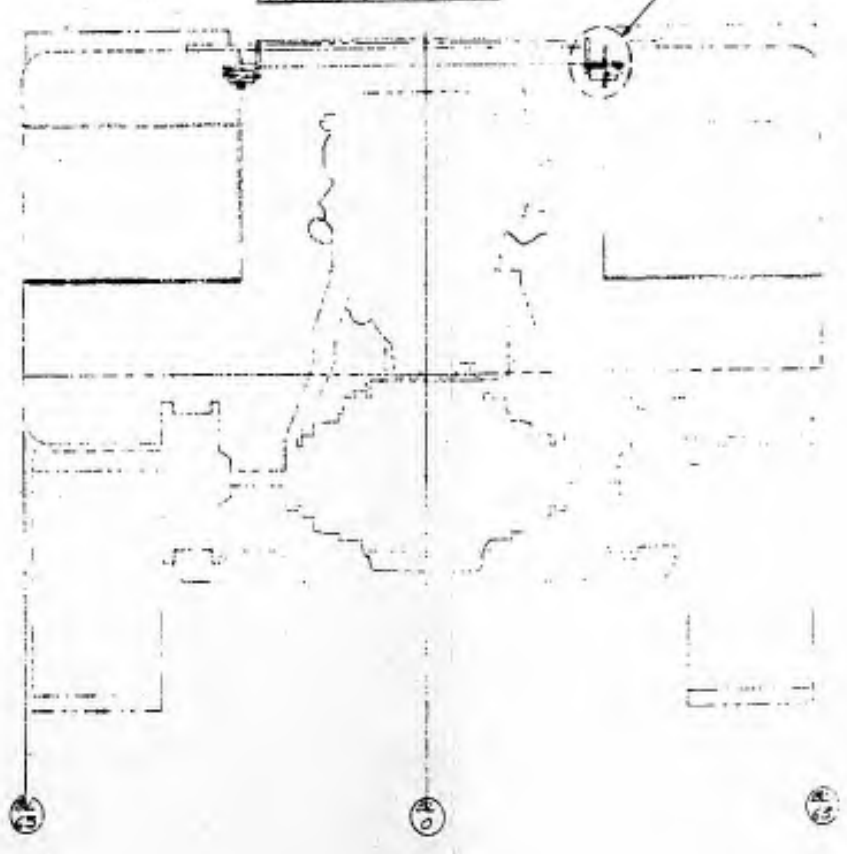
-GEN LIGHT #551072

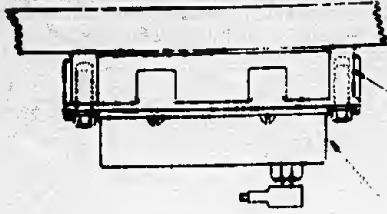
TYPICAL INSTALLATION 3 PLACES  
SCALE 1/1



DETAIL B  
TYPICAL INSTALLATION 2 PLACES

-SEE DETAIL 'A'



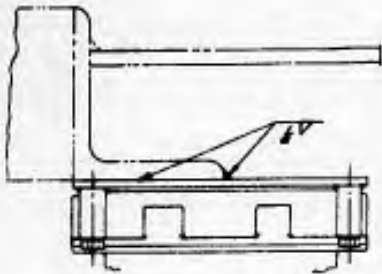


**DETAIL A**

-WELD STUD

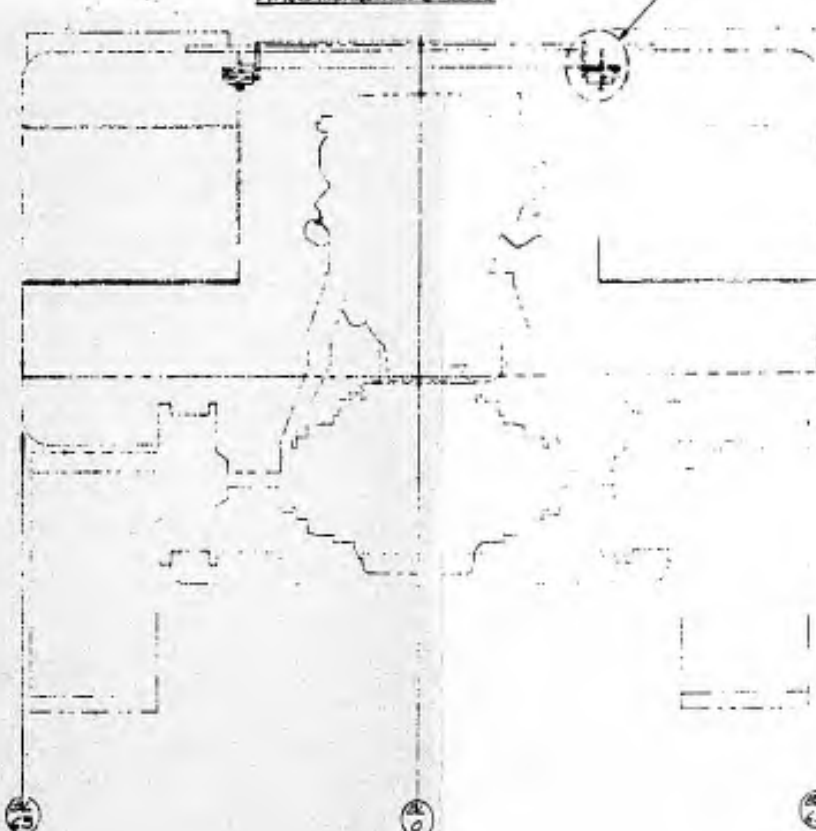
-CREW LIGHT #551078

**TYPICAL INSTALLATION 3 PLACES**  
SCHE 171



**DETAIL B**  
TYPICAL INSTALLATION 2 PLACES

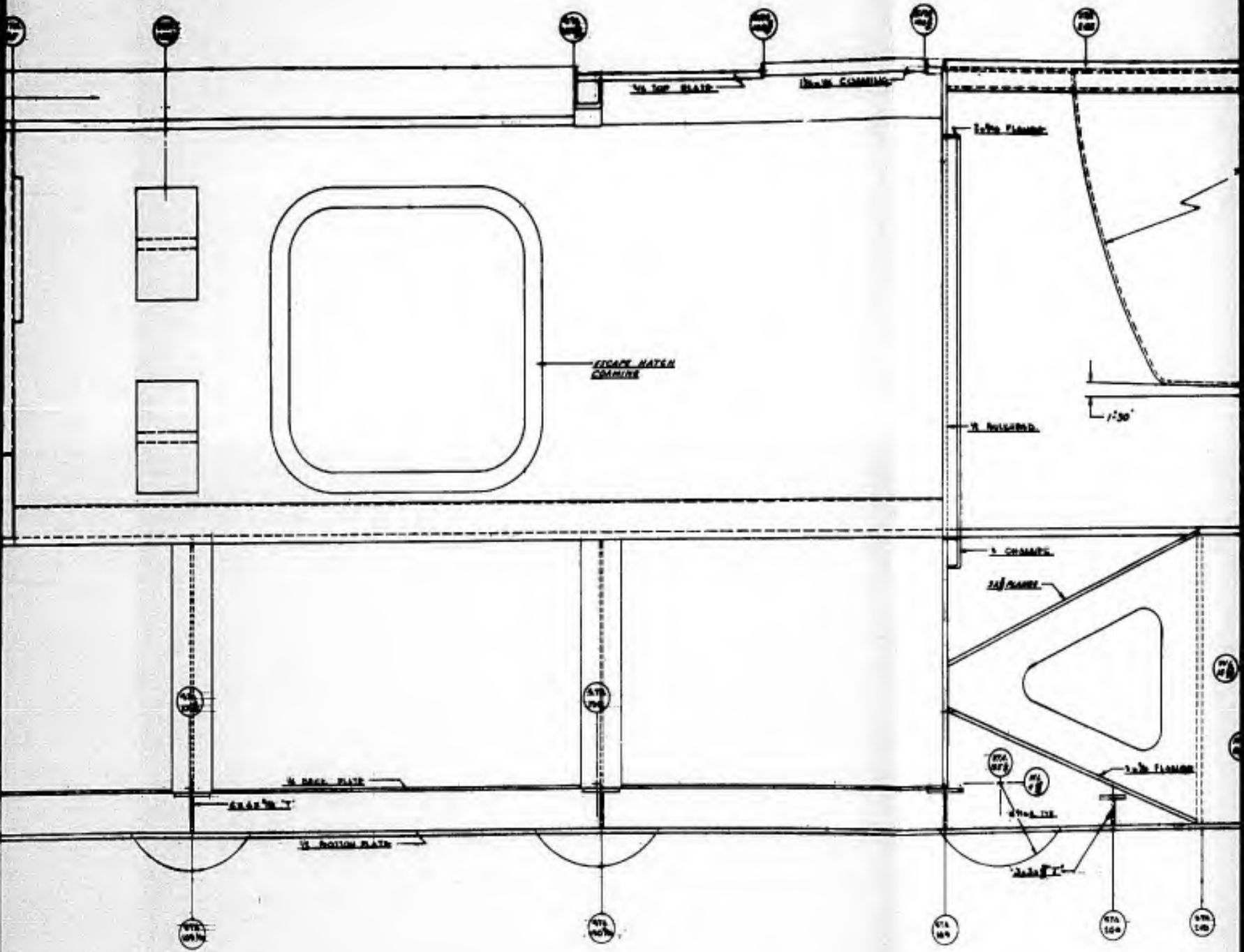
SEE DETAIL B

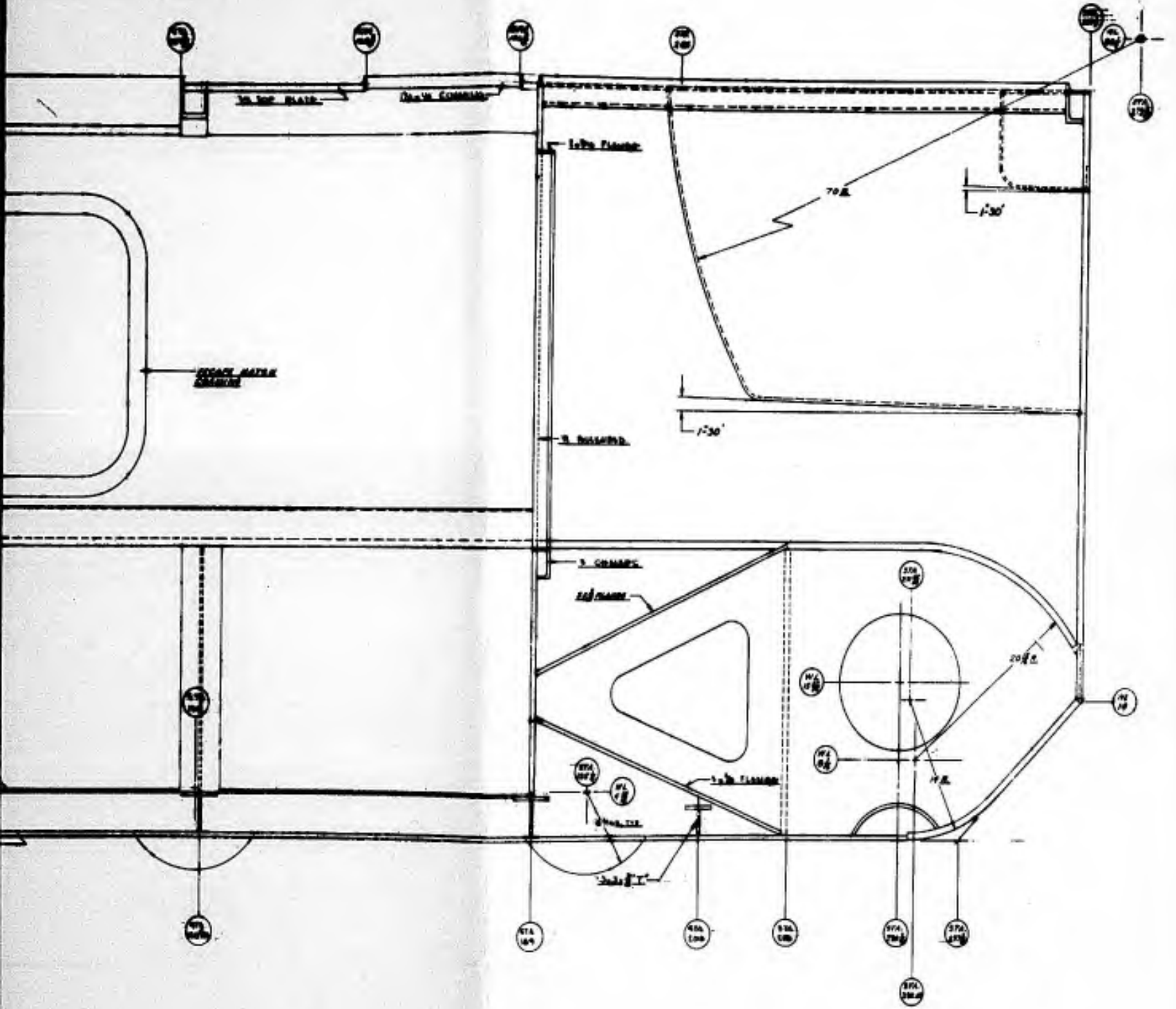


DATE	3/2/6	PROJECT	INTELL. IN. BARRACK SYSTEM
BY	J. S. [unclear]	DESIGNED BY	WELLS & DEVELOPMENT DIVISION
CHECKED BY	[unclear]	APPROVED BY	[unclear]
SCALE	1/2"	FIG. NO.	3 5175
REVISED		DATE	1 / 1 / 1966



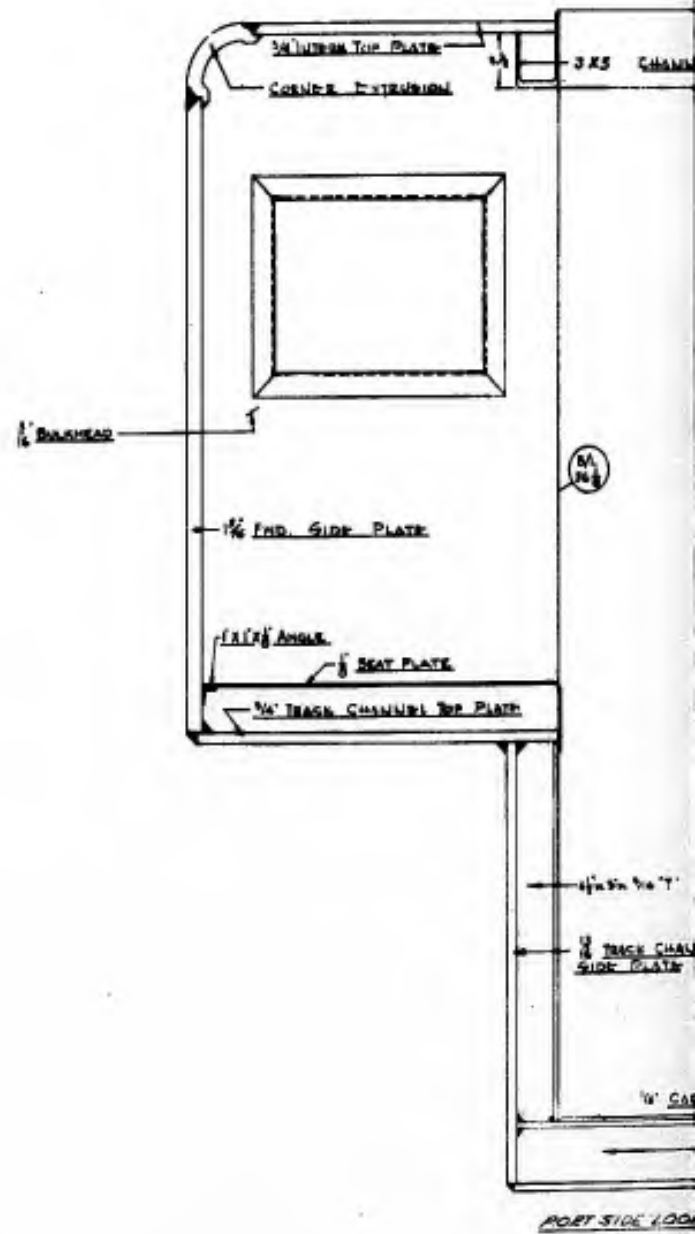
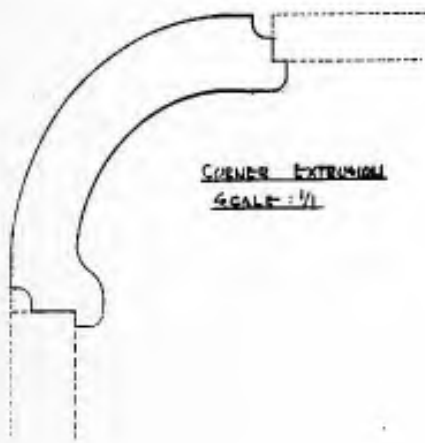
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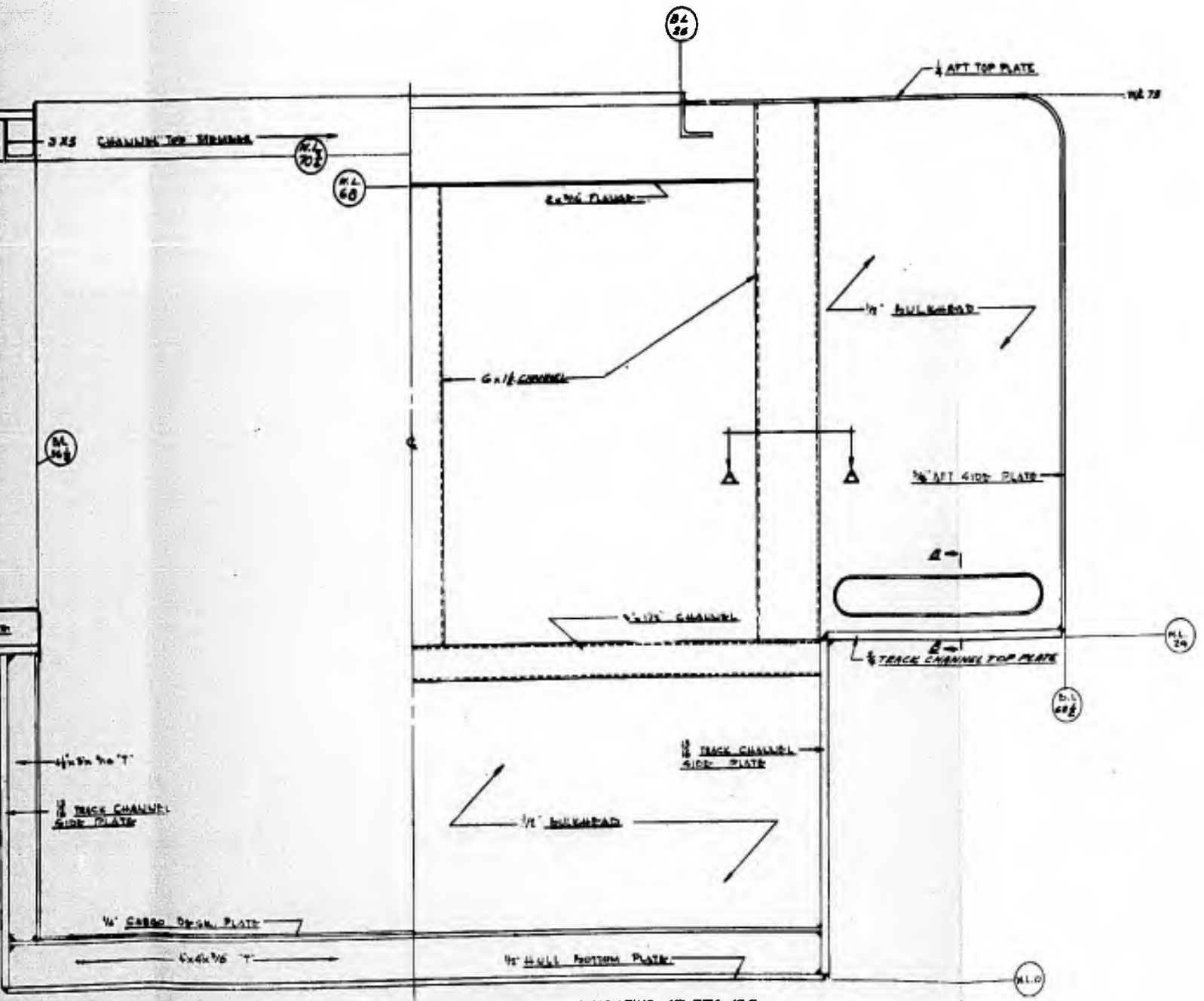


PROJECT	3. 11. 1950 10-8-52	GENERAL CONTRACTOR	
CLIENT		ARCHITECT	
DATE		SCALE	
DESIGNED BY		CHECKED BY	
DRAWN BY		APPROVED BY	
PROJECT NO.		DATE	
SCALE		BY	
DATE		BY	
BY		BY	
BY		BY	

1



2



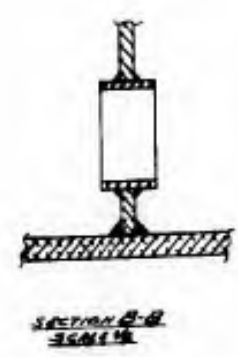
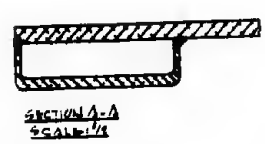
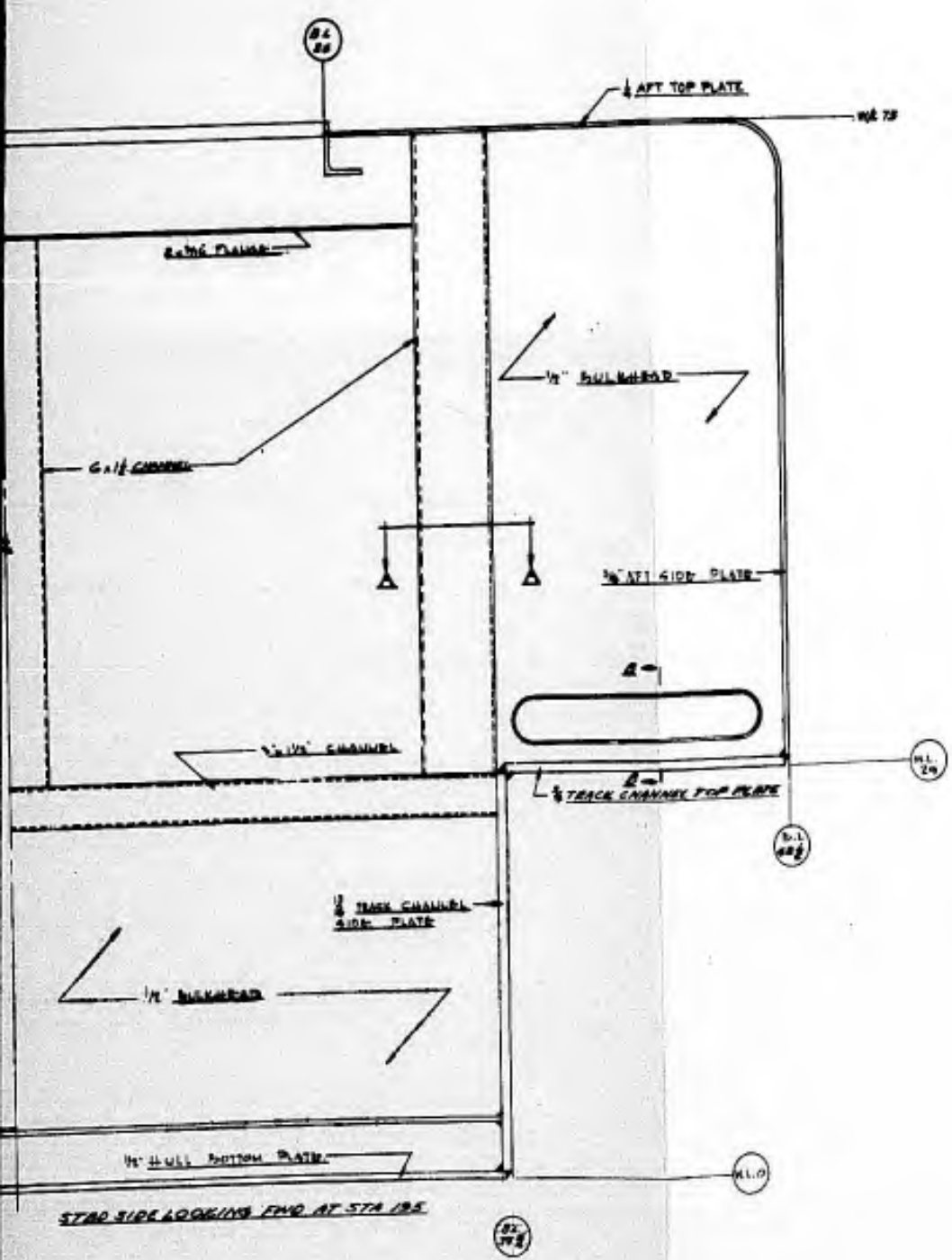
PORT SIDE LOOKING FWD. AT STA 110

STARBOARD SIDE LOOKING FWD. AT STA 195

BL 36

SECTION SCANS

SECTION SCANS

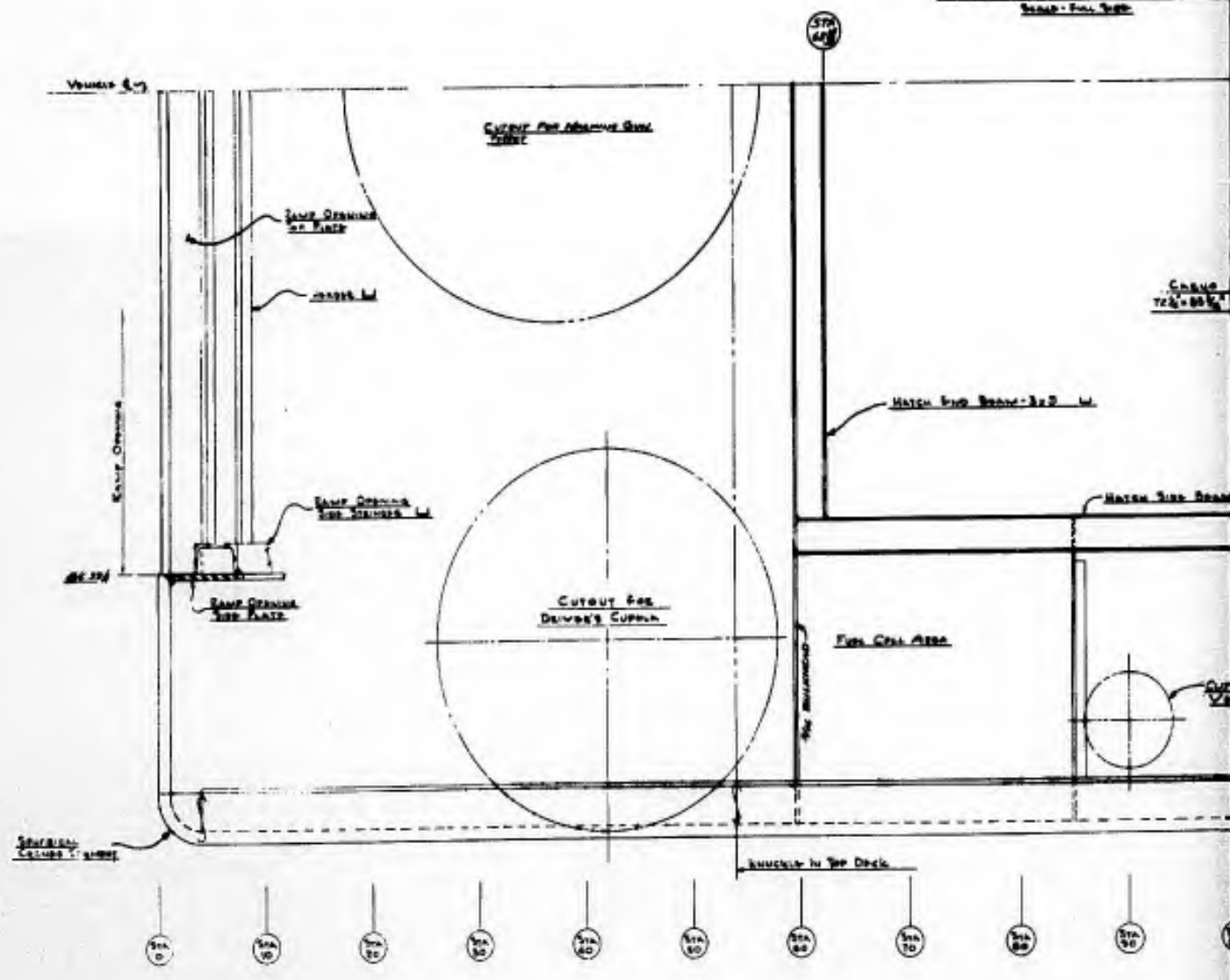


DESIGNER	DATE	REVISION	APPROVED
SCALE	1/4	NO. OF SHEETS	1 OF 1
TITLE		LVTXII TYPICAL CROSS SECTION	
PROJECT		J. G. C. 917	
DRAWN BY		DATE	
CHECKED BY		DATE	
APPROVED BY		DATE	

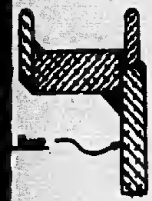
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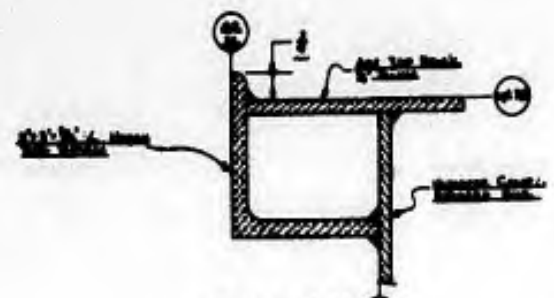
DETAIL "D-D"  
Escap. Comp. Hatch Required Ceiling  
Seal - Full Size



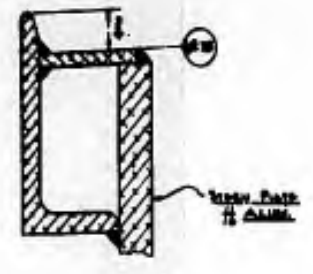
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DETAIL "D-D"  
MATCH BEAM CONNECTION  
SCALE - FULL SIZE



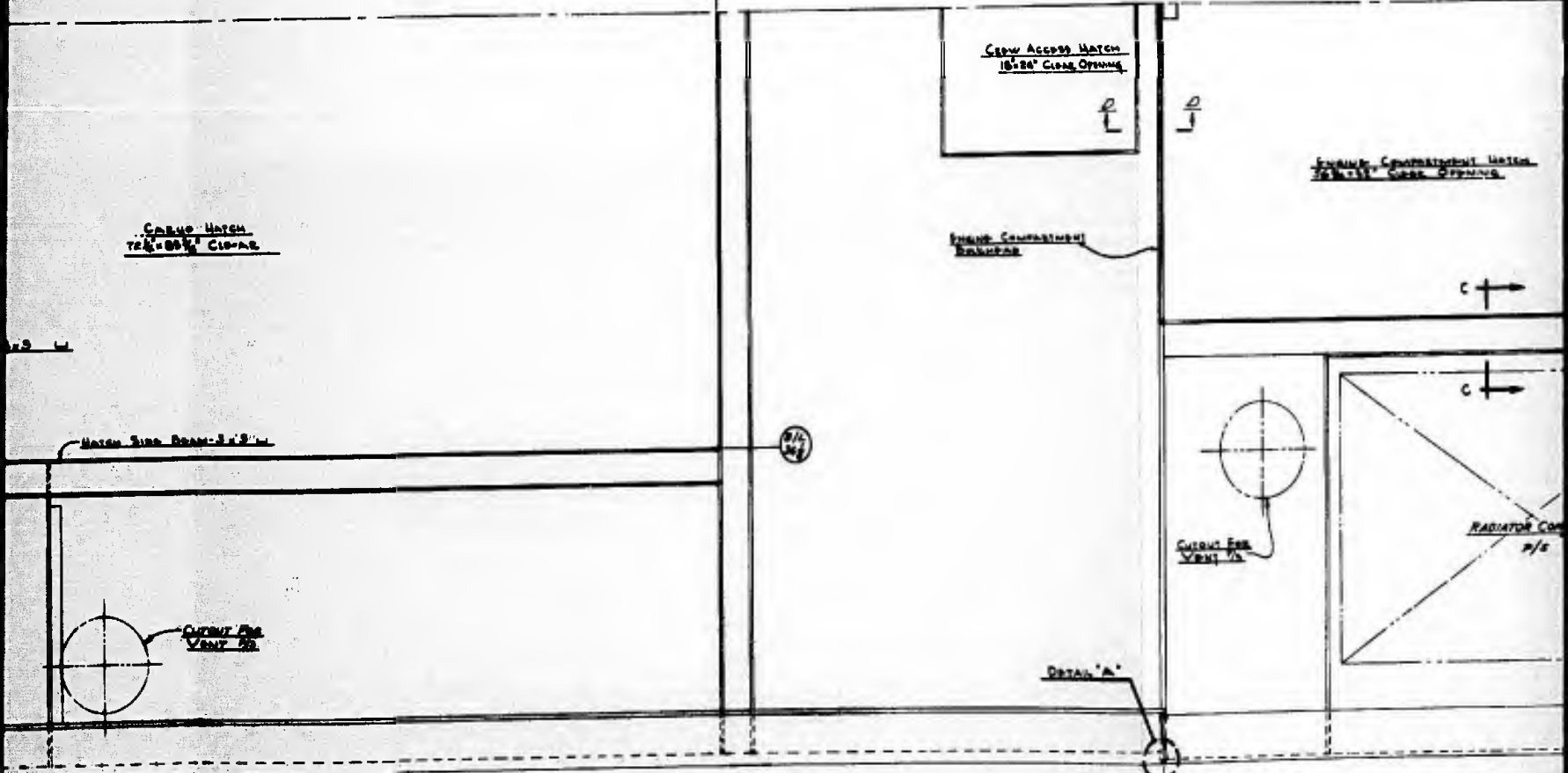
DETAIL "C-C"  
MATCH BEAM CONNECTION  
SCALE - FULL SIZE



DETAIL "B-B"  
MATCH BEAM CONNECTION  
SCALE - FULL SIZE

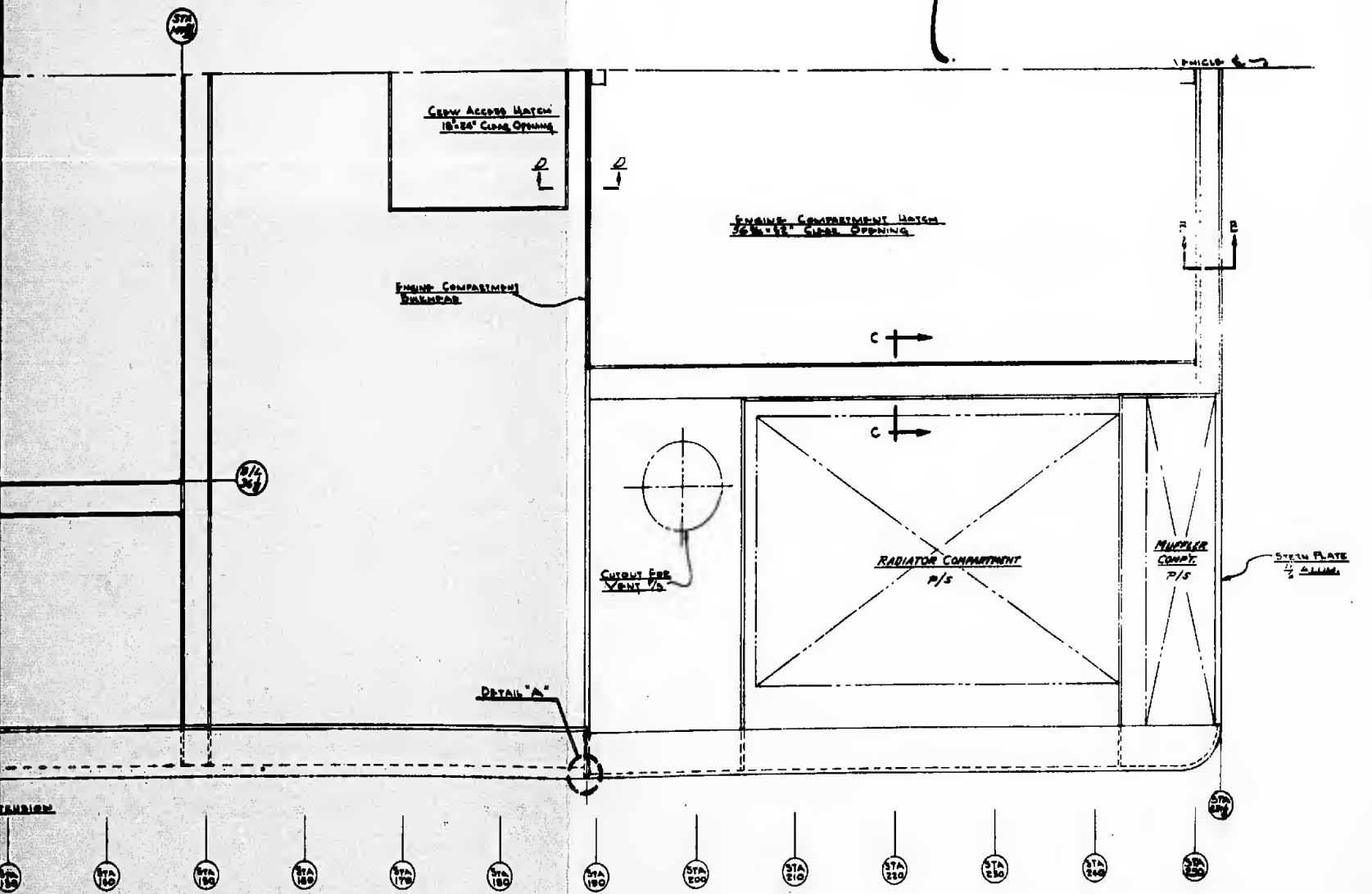
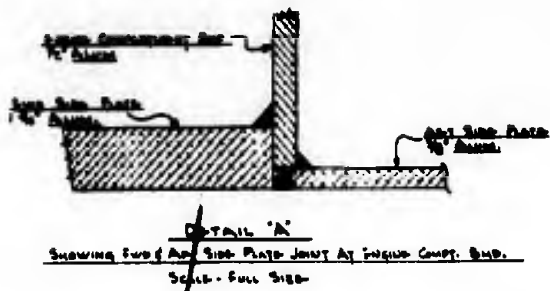
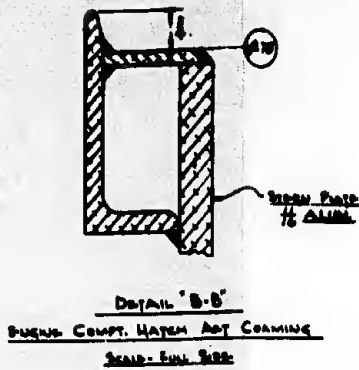
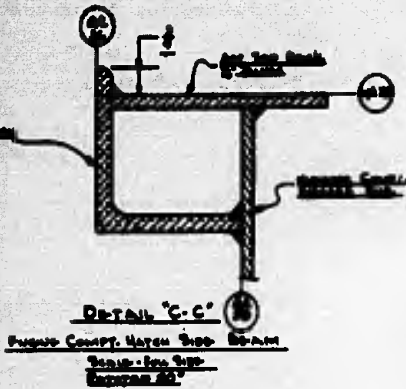


MATCH BEAM CONNECTION  
SCALE - FULL SIZE



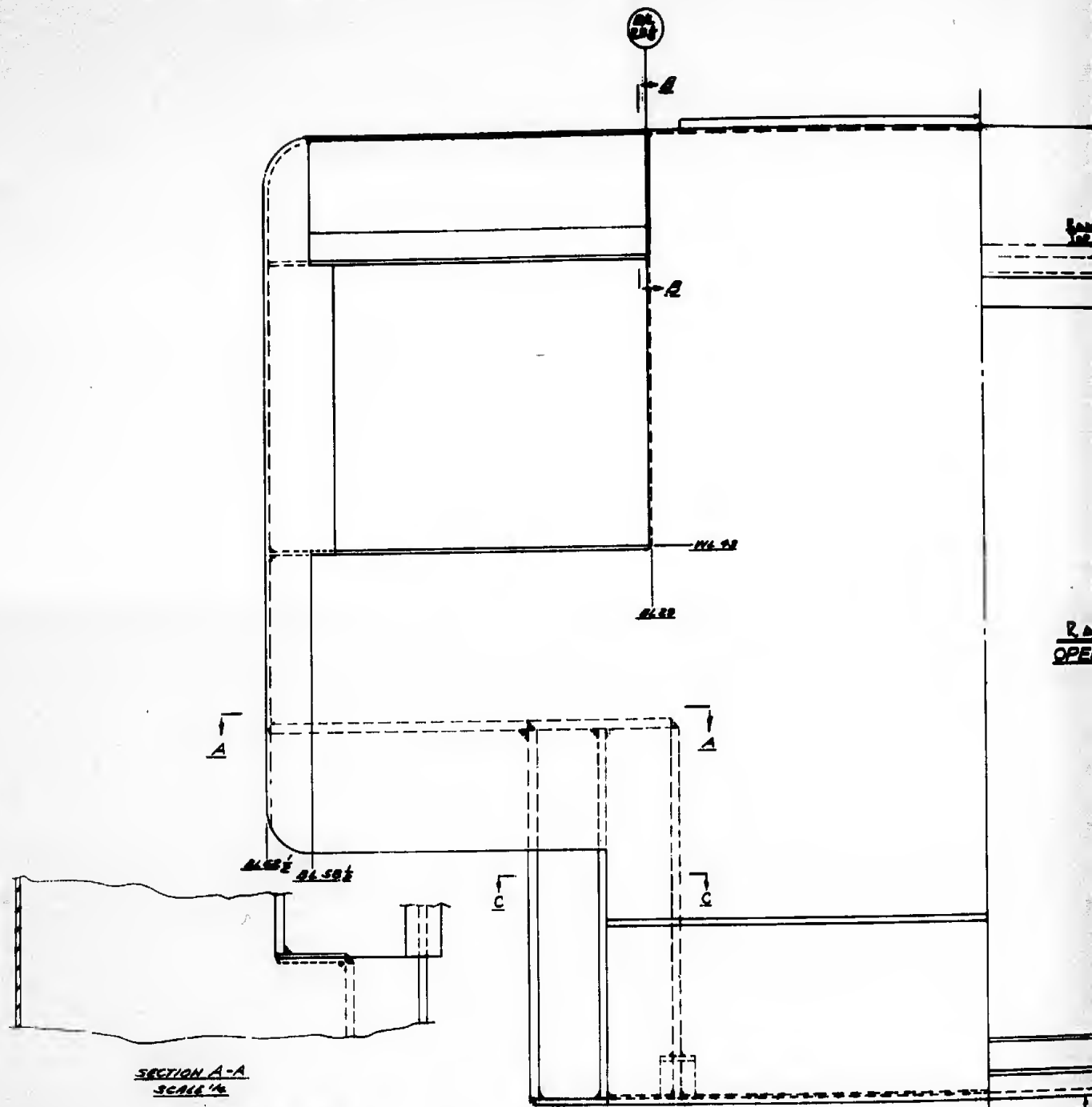
PLAN VIEW SHOWING TOP DECK FRAMING  
POST SHIP SHOWN - SHIP SIMILAR



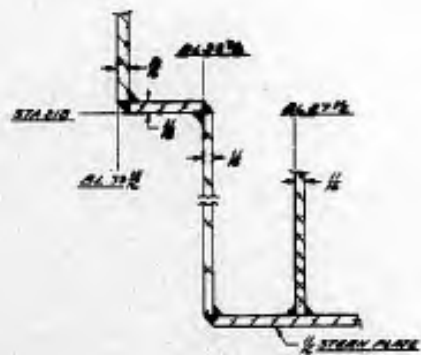


DESIGNED BY	W. POLLOCK, JR.	CHECKED BY	W. POLLOCK, JR.
DRAWN BY	J. W. HARRIS	SCALE	1/4"
DATE	1/4	PROJECT	AVIATION
NO.	1/4	REV.	1
APPROVED BY		DATE	

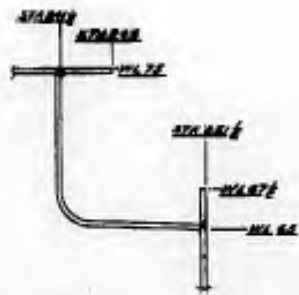
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SECTION A-A  
SCALE 1/4"



SECTION C-C  
SCALE 1/4"



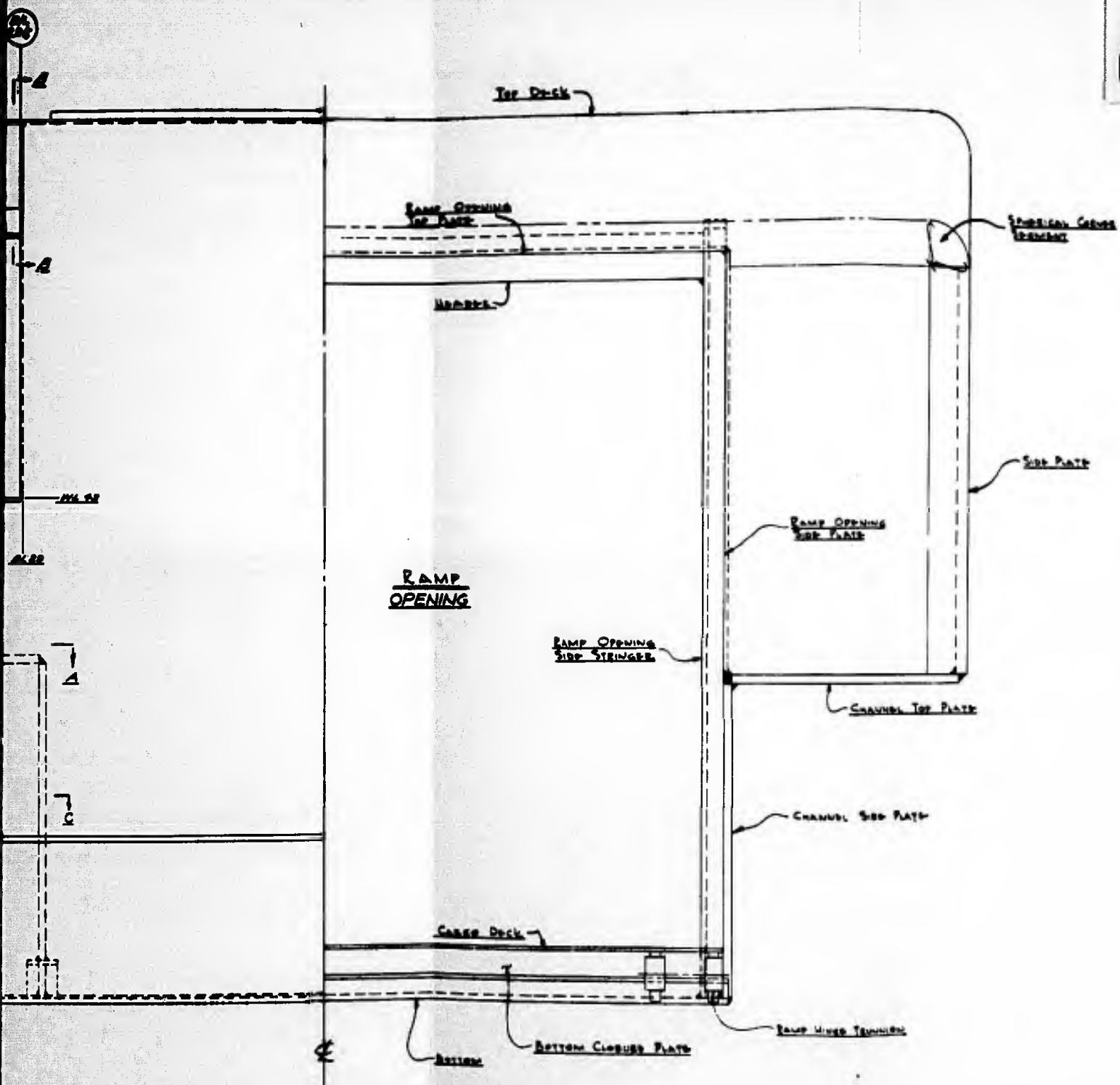
SECTION B-B  
SCALE 1/4"

R  
OPE

Section

NO.	DATE	BY	CHKD.

# 2

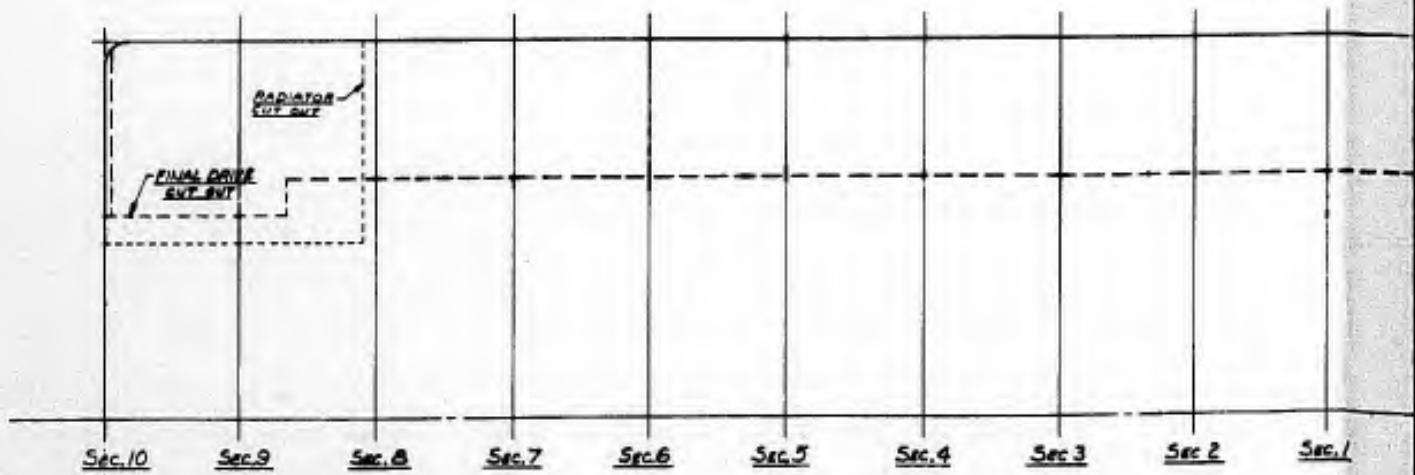
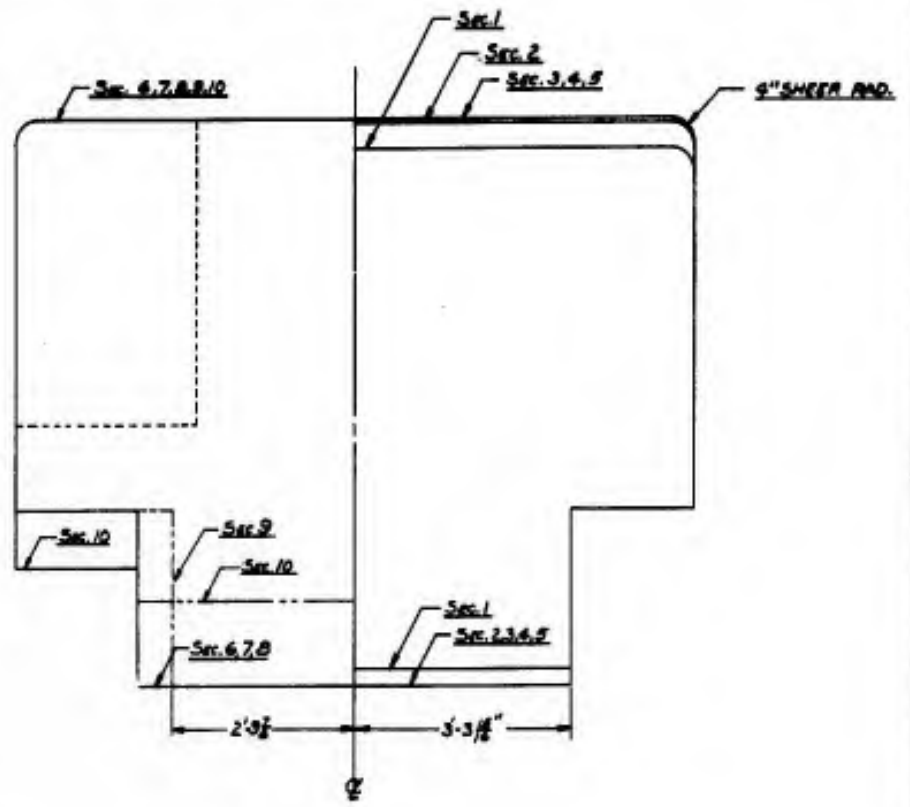
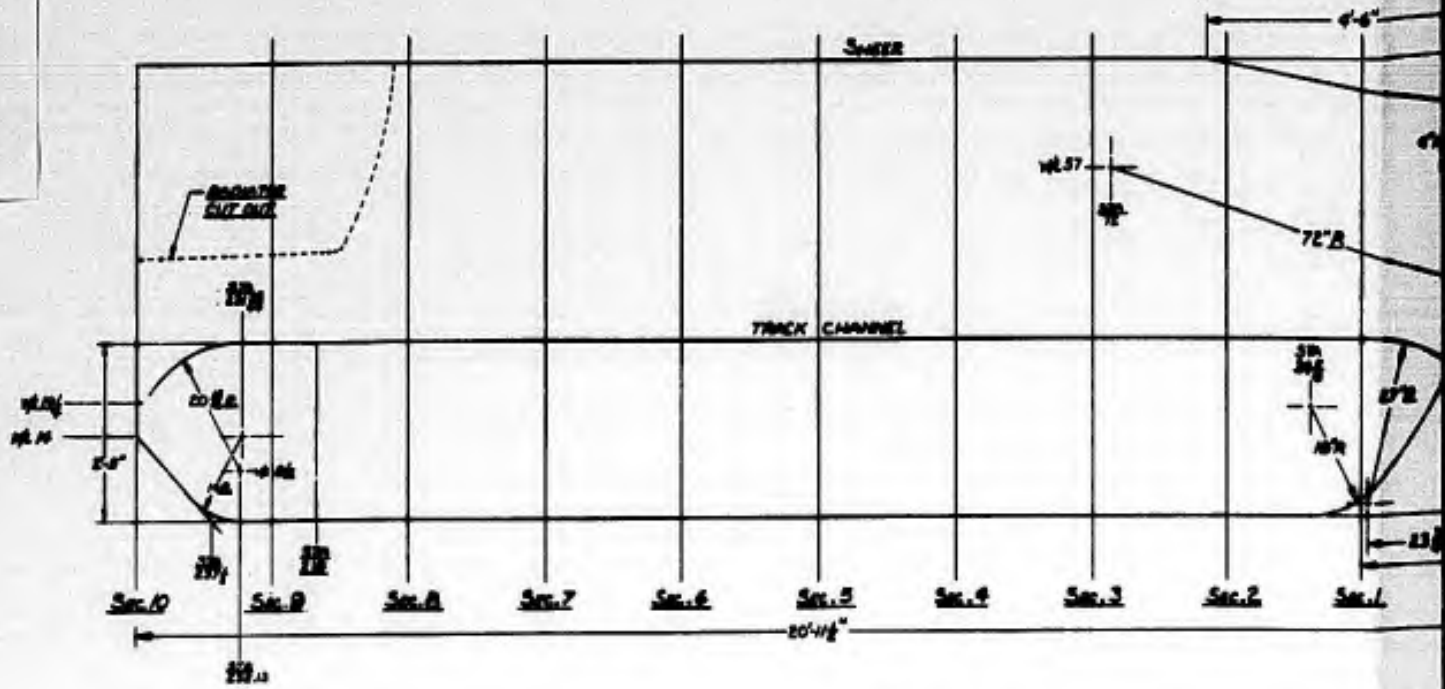


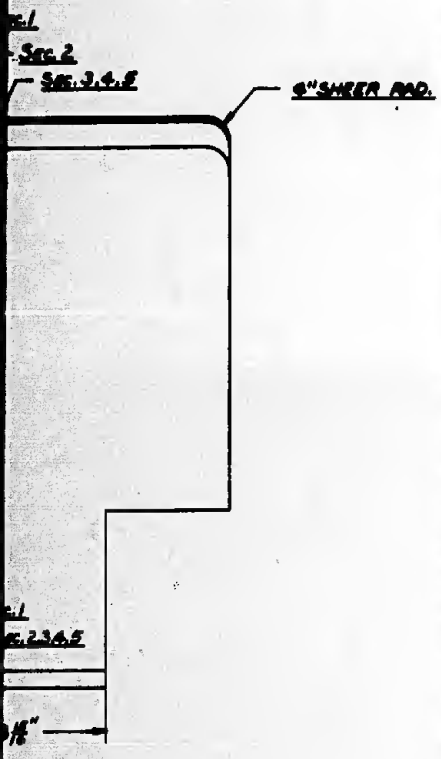
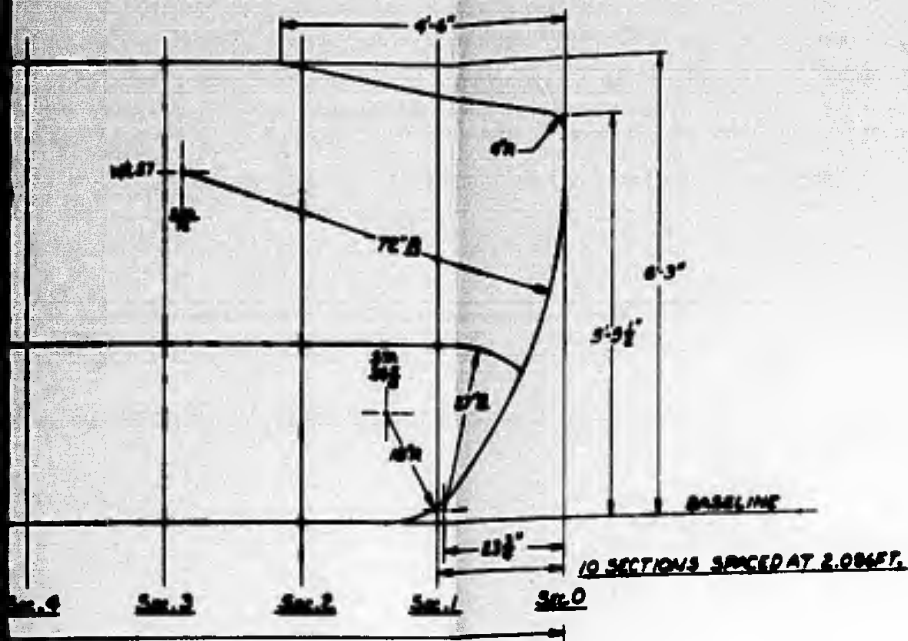
SECTION SHOWING BOW FRAMING  
LOOKING APT



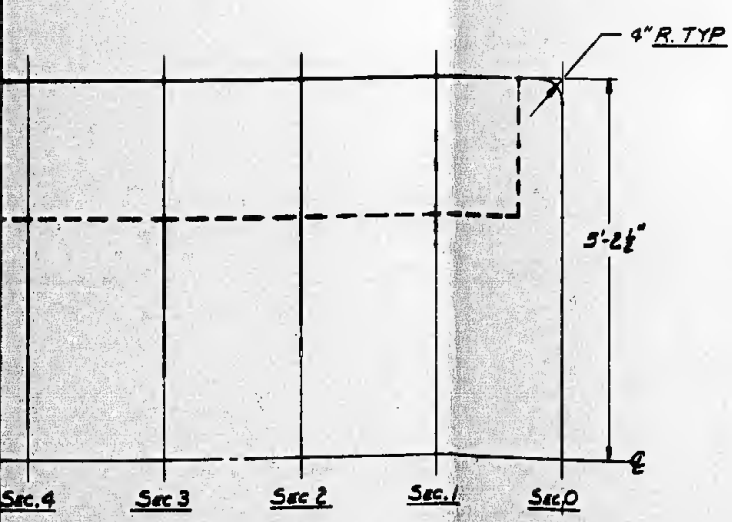
DESIGNER	M. POLLOCK, JR.	GENERAL MANAGER
CHECKED	<i>[Signature]</i>	SALES & EQUIPMENT DEPT.
DATE	1/15/54	FILE
PROJECT NO.	100-100000	NO. VTPXII
DESCRIPTION	NEW RAMP OPENING	NO. 54-5175
SCALE	1/4"	DATE
DATE DRAWN	1/15/54	BY
DATE CHECKED	1/15/54	BY

1



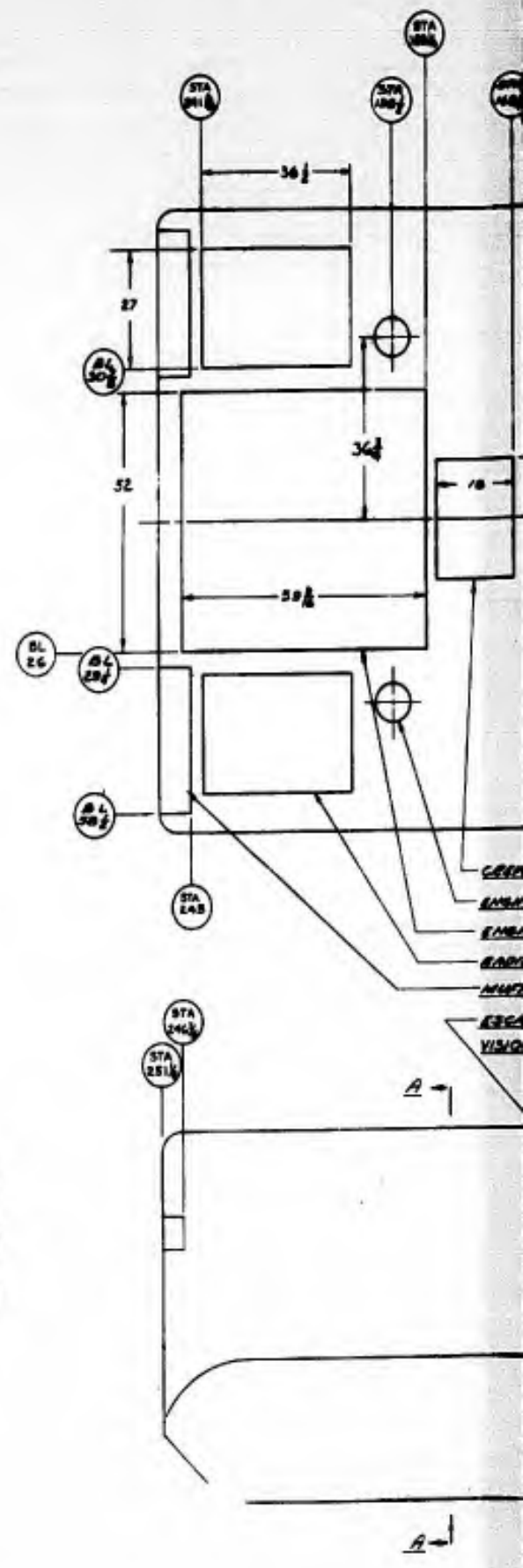
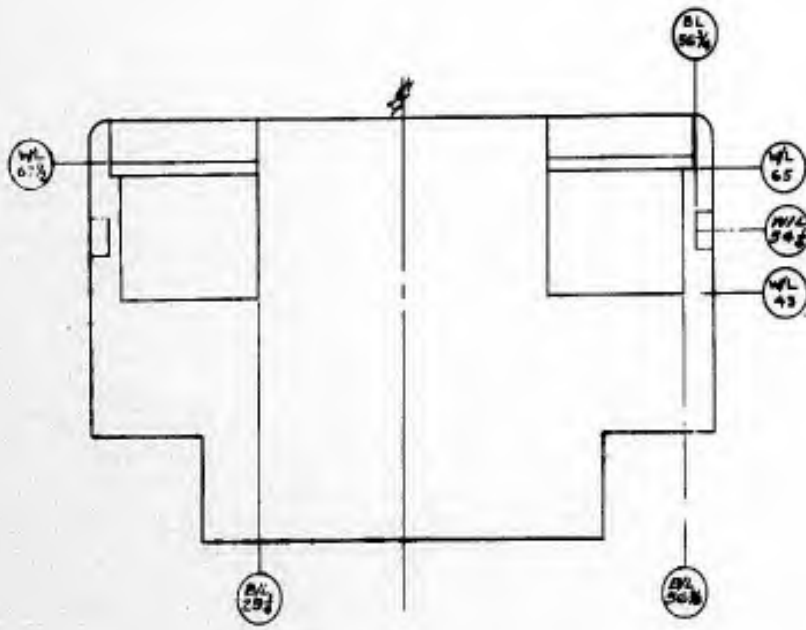


DRAFT ABOVE WLO (IN)	DISPLACEMENT (LBS) SALT WATER	DISPLACEMENT (LBS) FRESH WATER	POUNDS/INCH IMMERSION (SALT WATER)	L.C.B. AFT OF Sec. 0	L.C.F. AFT OF Sec. 0	MOM TO ALTER (FT. LBS)
30	23,407	22,822	1140	10.80	10.70	
33	26,835	26,164	1145	10.79	10.65	1838
36	30,278	29,521	1150	10.77	10.61	1861
39	33,733	32,890	1154	10.75	10.58	1884
42	37,199	36,268	1157	10.73	10.55	1906
45	40,534	39,521	1066	10.69	9.78	1548
48	43,730	42,637	1064	10.62	9.70	1558
51	46,919	45,746	1062	10.55	9.65	
54	50,102	48,849	1060	10.49	9.61	
57	53,277	51,945	1057	10.44	9.60	
60	56,445	55,034	1055	10.39	9.58	

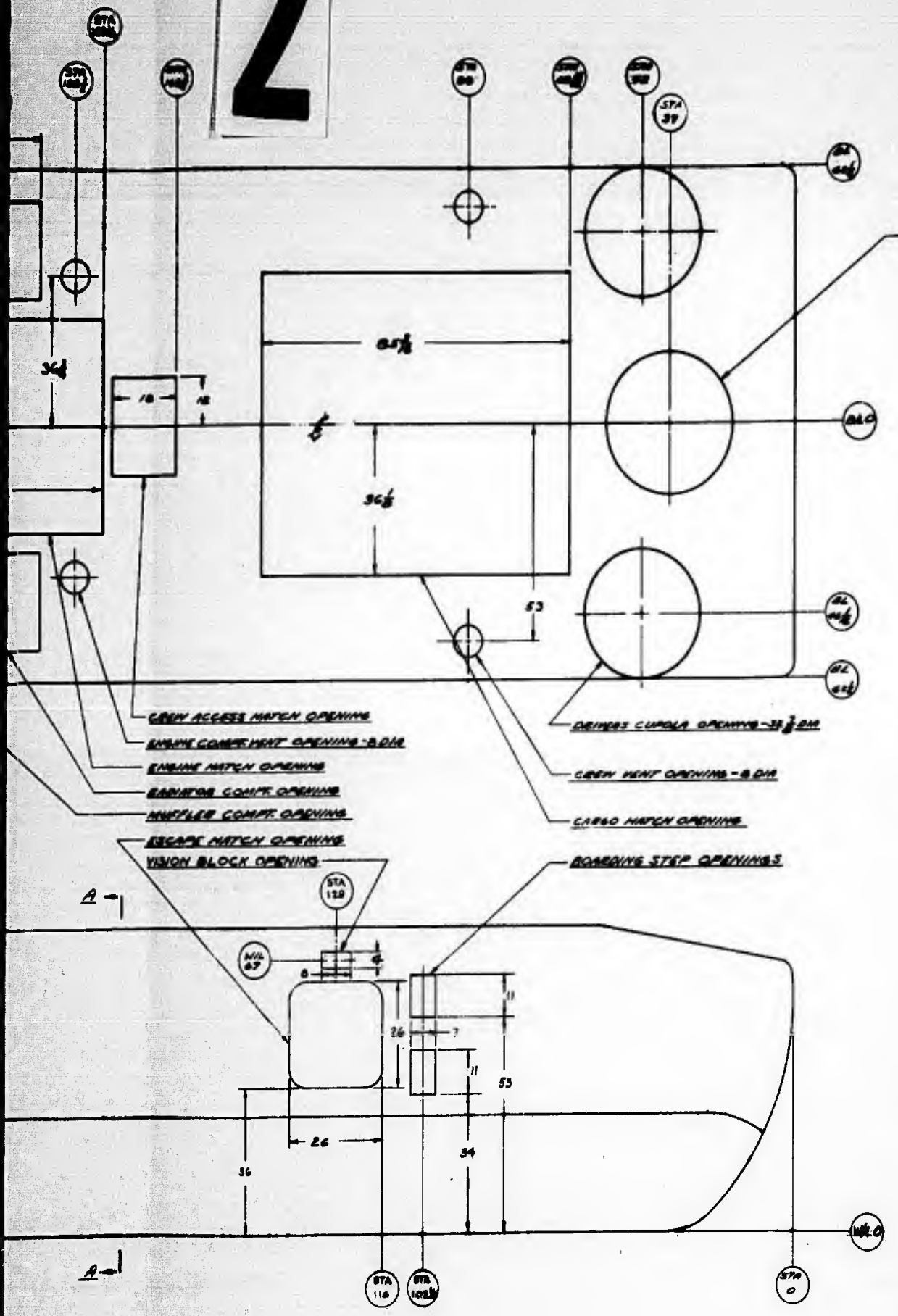


EDWIN B. B. 62 4 STRESSES DATE: 11-1-62 DRAWN BY: J. SK-5180 CHECKED BY: J. SK-5180		GENERAL CALCULATION SHEET LVTXII LINES SHEET 1 OF 1
SCALE: 1" = 10" DATE: 11-1-62 DRAWN BY: J. SK-5180	CHECKED BY: J. SK-5180 DATE: 11-1-62	SHEET 1 OF 1

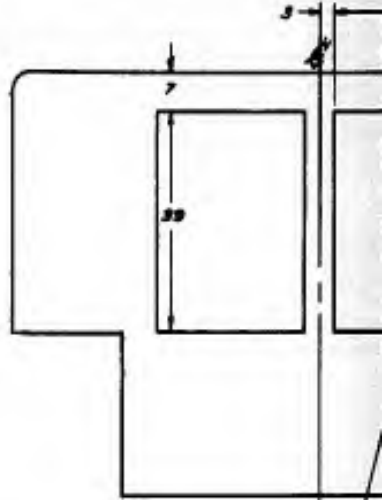
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# 2



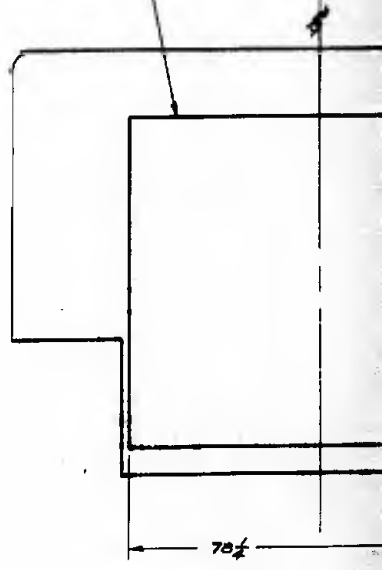
ENGINE GUN TARGET OPENING



ENGINE COMP. BULKHEAD OPENING

SECTION A-A

RAMP OPENING



- CREW ACCESS MATCH OPENING
- ENGINE COMP. HENT OPENING - 8 DIA
- ENGINE MATCH OPENING
- ENGINE COMP. OPENING
- ENGINE COMP. OPENING
- ESCAPE MATCH OPENING
- VISION BLOCK OPENING
- DRIVERS CURDLA OPENING - 31  $\frac{1}{2}$  DIA
- CREW HENT OPENING - 8 DIA
- CARGO MATCH OPENING
- ROBBING STEP OPENINGS

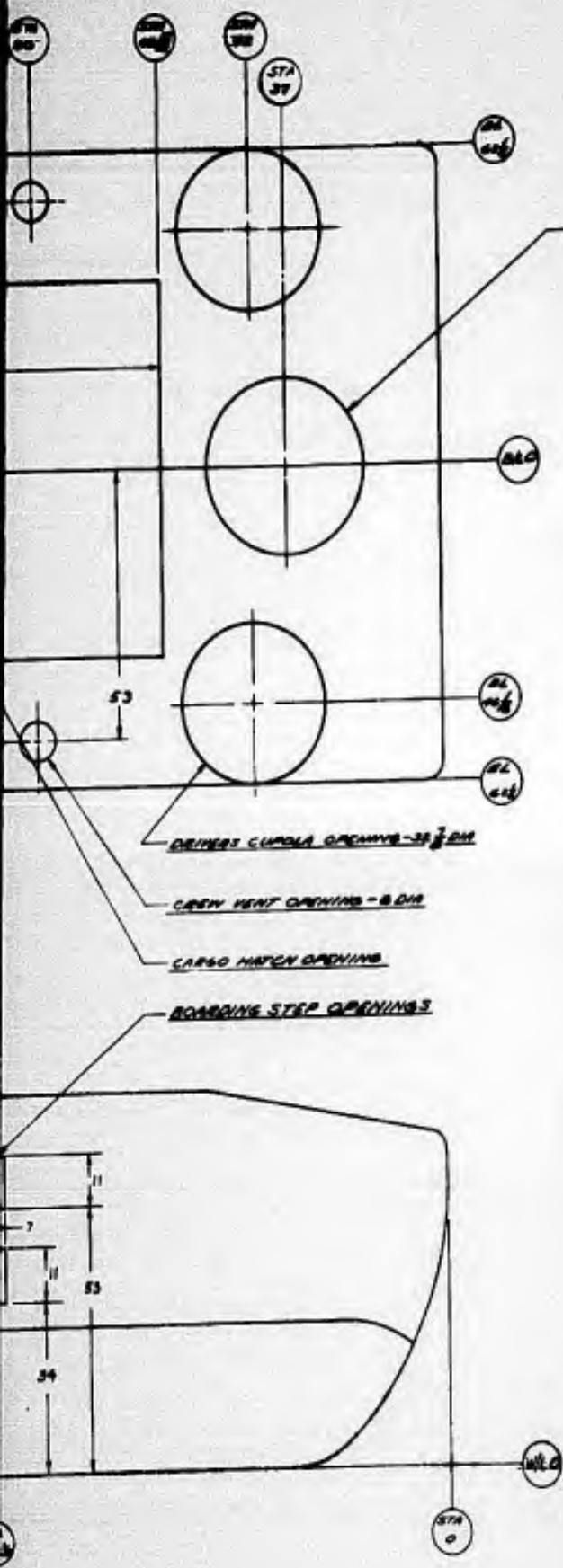
A -

A -

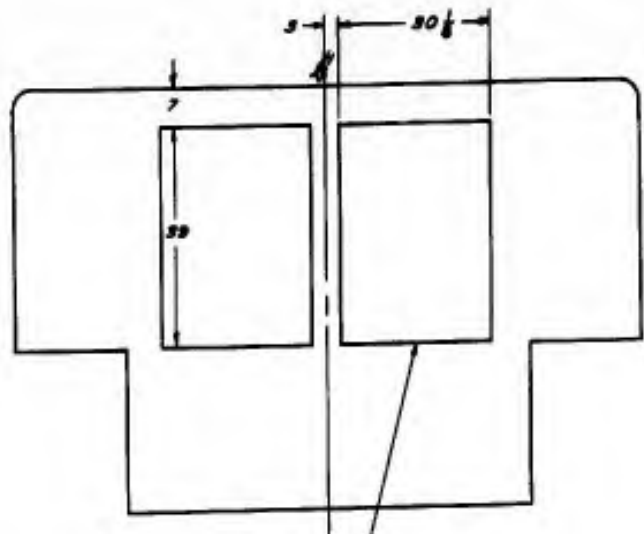
STA 110  
STA 102

STA 0

STA 0



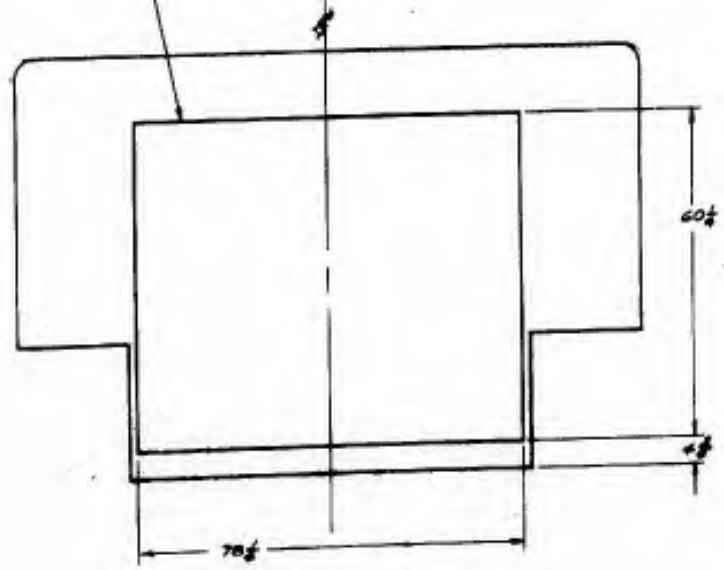
MACHINE GUN TURRET OPENINGS



ENGINE COMP. BULKHEAD OPENING

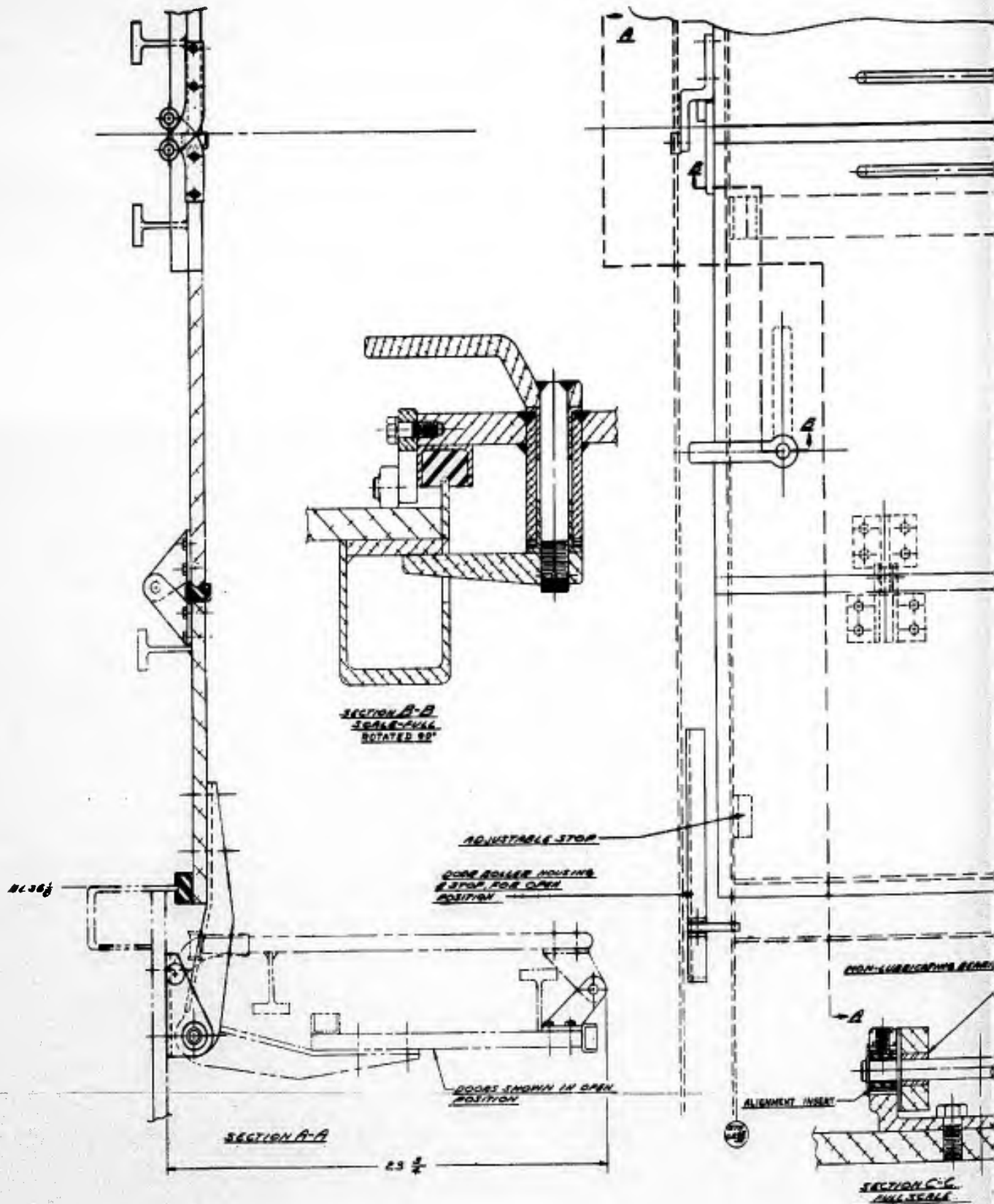
SECTION A-A

RAMP OPENING

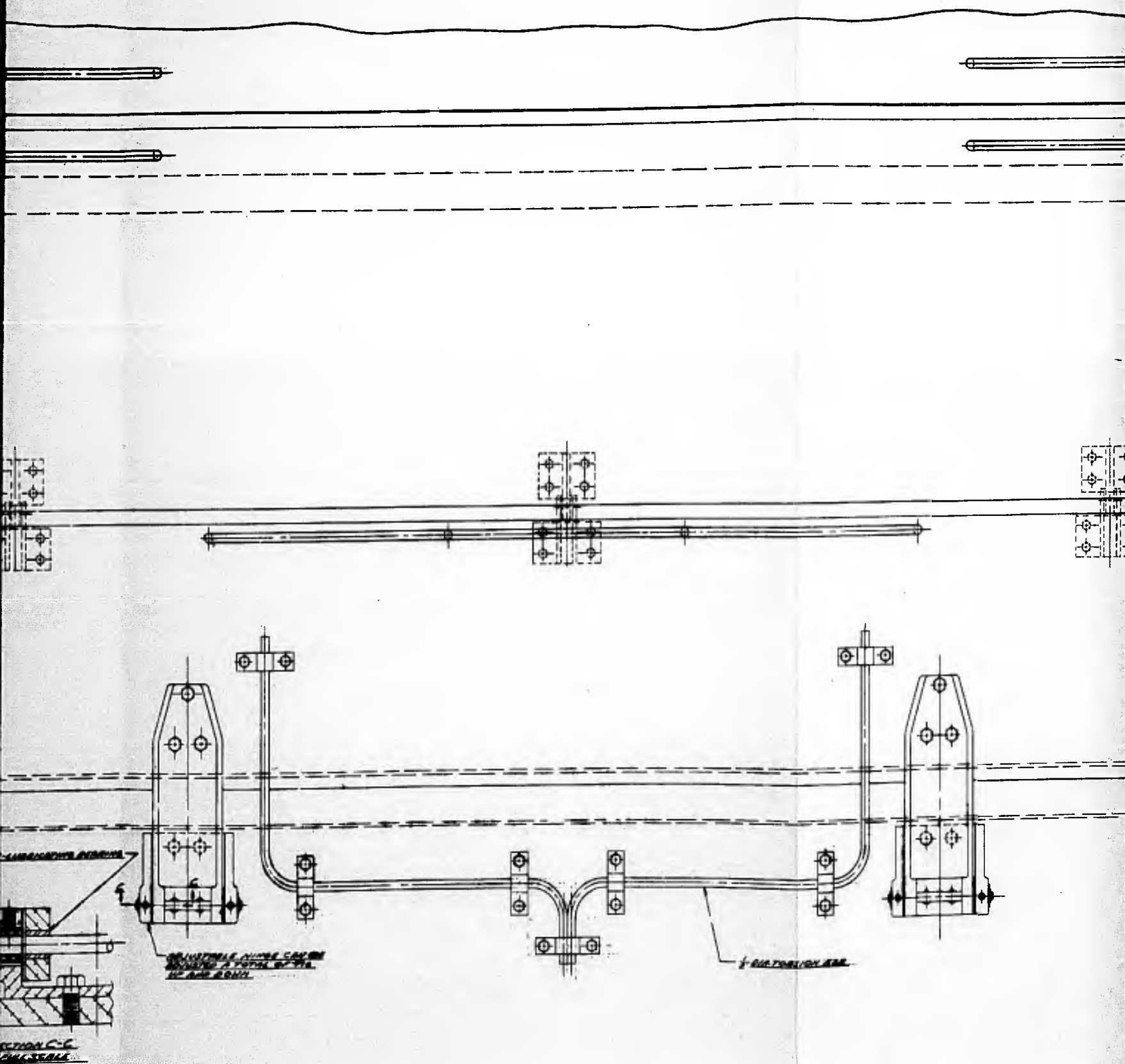


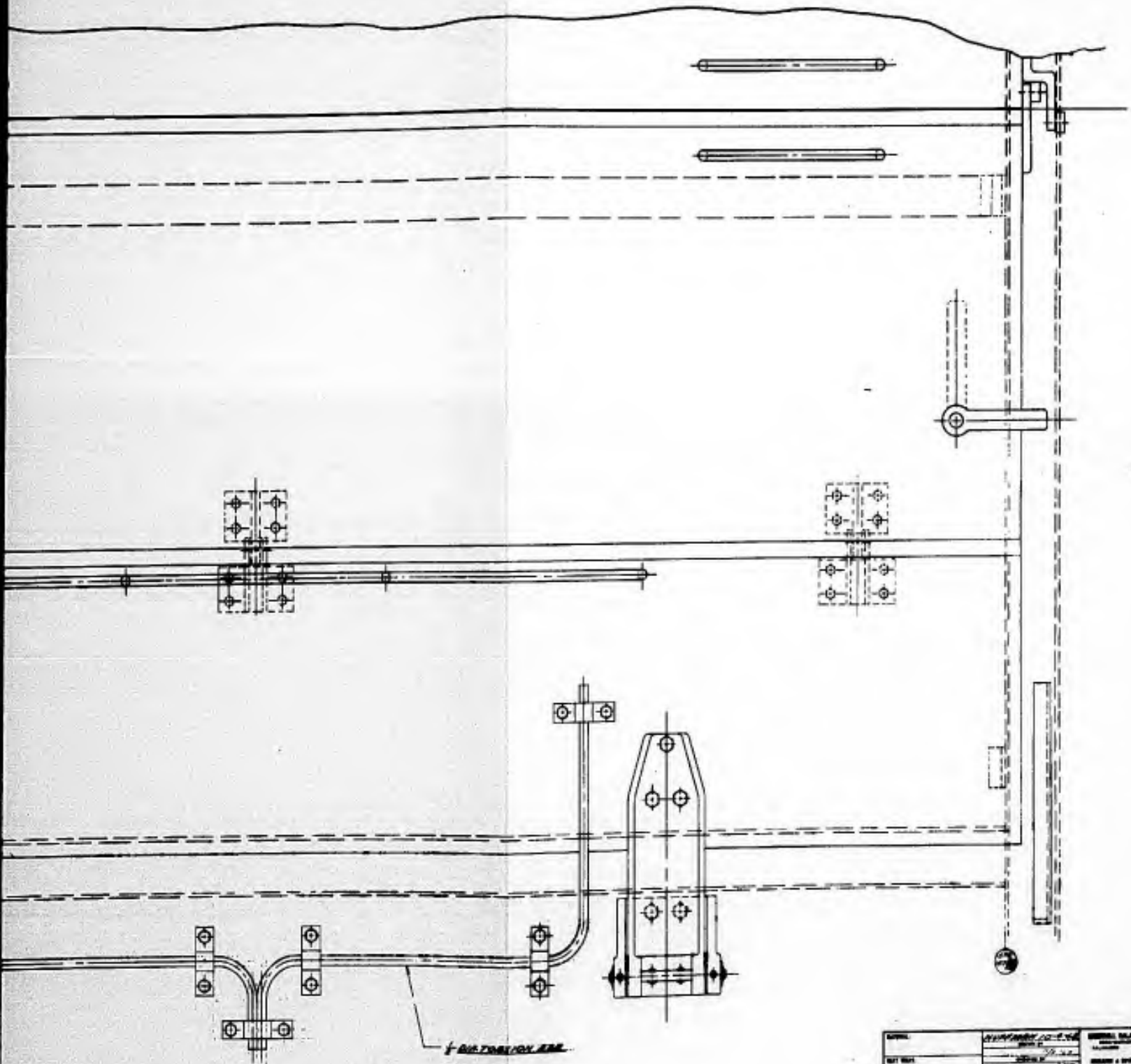
DESIGNER	W. J. HARRIS	DESIGN NO.	1152-510
DATE	11/15/50	SCALE	AS SHOWN
APPROVED	[Signature]	PROJECT	NAVY
REVISIONS	1. 11/15/50	NO. OF SHEETS	1 OF 1
ISSUED TO	NAVY	PROJECT NO.	1152-510
ISSUED BY	NAVY	DATE	11/15/50
REVISIONS TO	NONE	NO. OF SHEETS	1 OF 1
APPROVED BY	[Signature]	PROJECT NO.	1152-510

1



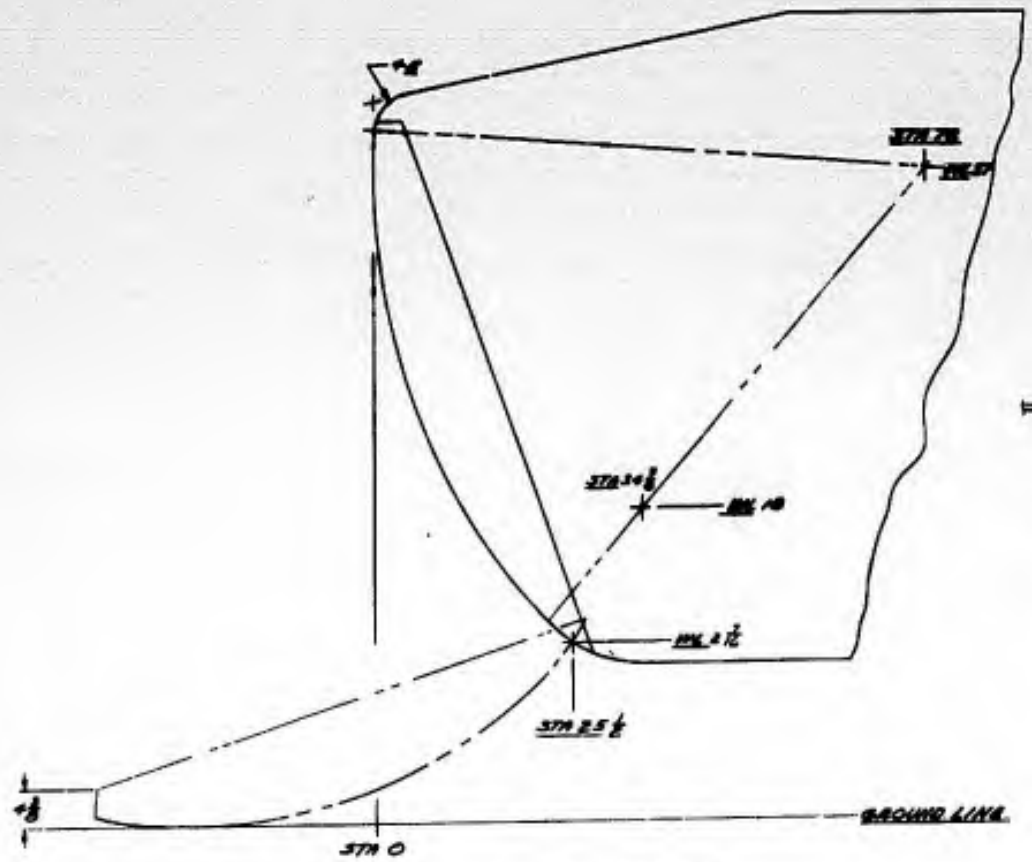
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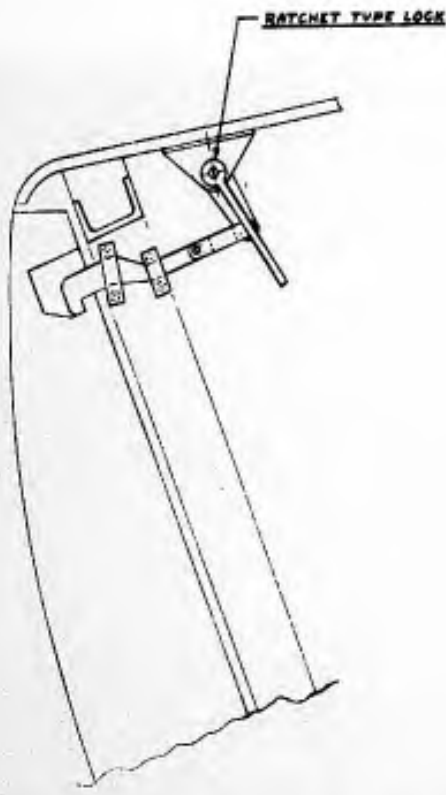


DATE	10/10/60	DESIGNED BY	J. J. ...	APPROVED BY	J. J. ...
DRAWN BY	J. J. ...	CHECKED BY	J. J. ...	DATE	10/10/60
QUANTITY	1	SCALE	1:1	PROJECT	...
REVISIONS		NO. OF SHEETS	1	TOTAL NO. OF SHEETS	1
REVISION 1	...	DATE	...	BY	...
REVISION 2	...	DATE	...	BY	...
REVISION 3	...	DATE	...	BY	...
REVISION 4	...	DATE	...	BY	...
REVISION 5	...	DATE	...	BY	...
REVISION 6	...	DATE	...	BY	...
REVISION 7	...	DATE	...	BY	...
REVISION 8	...	DATE	...	BY	...
REVISION 9	...	DATE	...	BY	...
REVISION 10	...	DATE	...	BY	...
REVISION 11	...	DATE	...	BY	...
REVISION 12	...	DATE	...	BY	...
REVISION 13	...	DATE	...	BY	...
REVISION 14	...	DATE	...	BY	...
REVISION 15	...	DATE	...	BY	...
REVISION 16	...	DATE	...	BY	...
REVISION 17	...	DATE	...	BY	...
REVISION 18	...	DATE	...	BY	...
REVISION 19	...	DATE	...	BY	...
REVISION 20	...	DATE	...	BY	...
REVISION 21	...	DATE	...	BY	...
REVISION 22	...	DATE	...	BY	...
REVISION 23	...	DATE	...	BY	...
REVISION 24	...	DATE	...	BY	...
REVISION 25	...	DATE	...	BY	...
REVISION 26	...	DATE	...	BY	...
REVISION 27	...	DATE	...	BY	...
REVISION 28	...	DATE	...	BY	...
REVISION 29	...	DATE	...	BY	...
REVISION 30	...	DATE	...	BY	...
REVISION 31	...	DATE	...	BY	...
REVISION 32	...	DATE	...	BY	...
REVISION 33	...	DATE	...	BY	...
REVISION 34	...	DATE	...	BY	...
REVISION 35	...	DATE	...	BY	...
REVISION 36	...	DATE	...	BY	...
REVISION 37	...	DATE	...	BY	...
REVISION 38	...	DATE	...	BY	...
REVISION 39	...	DATE	...	BY	...
REVISION 40	...	DATE	...	BY	...
REVISION 41	...	DATE	...	BY	...
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REVISION 44	...	DATE	...	BY	...
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REVISION 48	...	DATE	...	BY	...
REVISION 49	...	DATE	...	BY	...
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REVISION 52	...	DATE	...	BY	...
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REVISION 60	...	DATE	...	BY	...
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REVISION 64	...	DATE	...	BY	...
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REVISION 78	...	DATE	...	BY	...
REVISION 79	...	DATE	...	BY	...
REVISION 80	...	DATE	...	BY	...
REVISION 81	...	DATE	...	BY	...
REVISION 82	...	DATE	...	BY	...
REVISION 83	...	DATE	...	BY	...
REVISION 84	...	DATE	...	BY	...
REVISION 85	...	DATE	...	BY	...
REVISION 86	...	DATE	...	BY	...
REVISION 87	...	DATE	...	BY	...
REVISION 88	...	DATE	...	BY	...
REVISION 89	...	DATE	...	BY	...
REVISION 90	...	DATE	...	BY	...
REVISION 91	...	DATE	...	BY	...
REVISION 92	...	DATE	...	BY	...
REVISION 93	...	DATE	...	BY	...
REVISION 94	...	DATE	...	BY	...
REVISION 95	...	DATE	...	BY	...
REVISION 96	...	DATE	...	BY	...
REVISION 97	...	DATE	...	BY	...
REVISION 98	...	DATE	...	BY	...
REVISION 99	...	DATE	...	BY	...
REVISION 100	...	DATE	...	BY	...

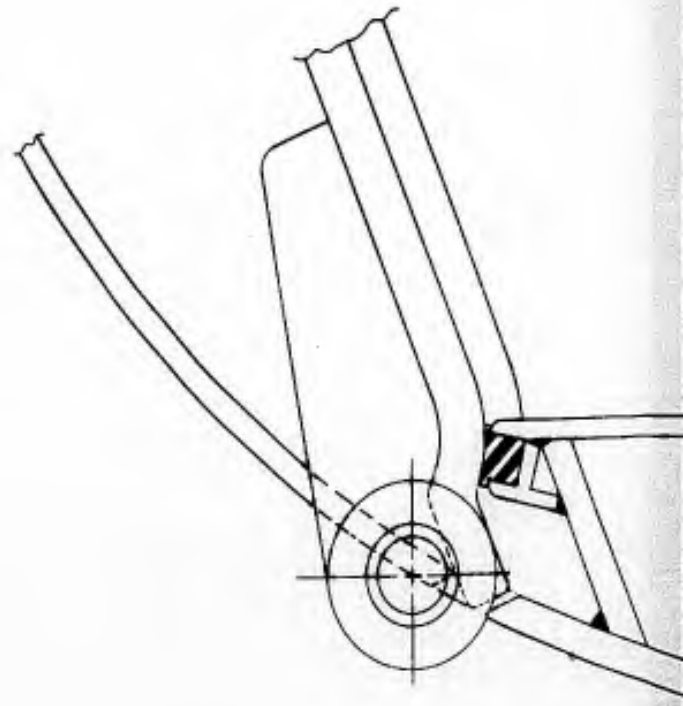
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RAMP PROFILE  
SCALE 1/2

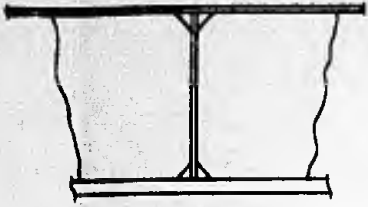


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SCALE 1/2

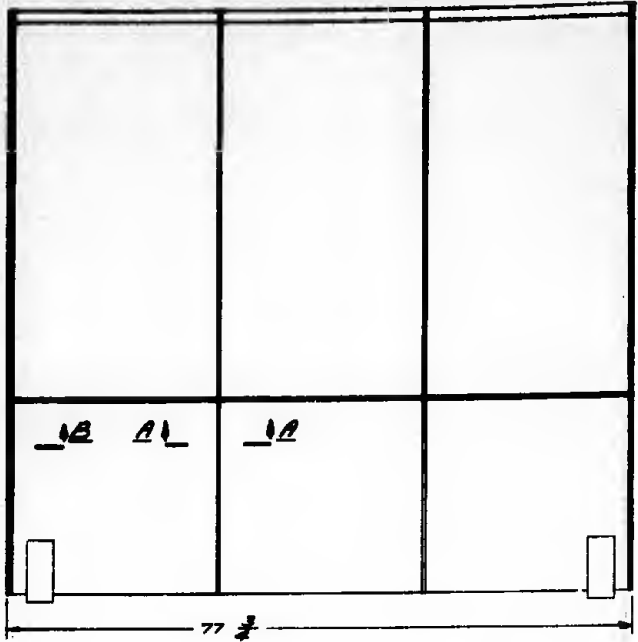


RAMP HINGE DETAIL  
SCALE FULL

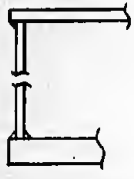
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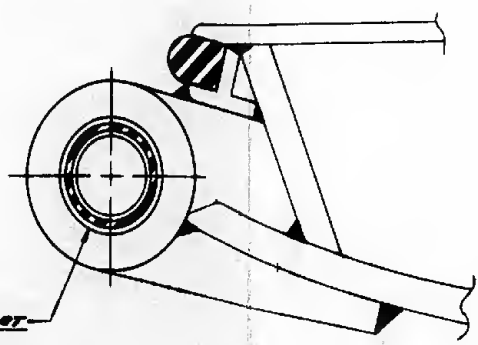
SECTION A-A



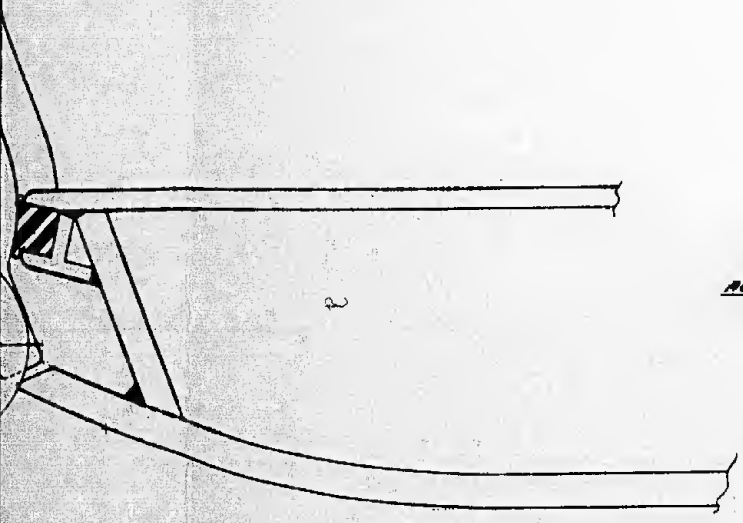
RAMP FRAMING  
SCALE 1/8"



SECTION B-B

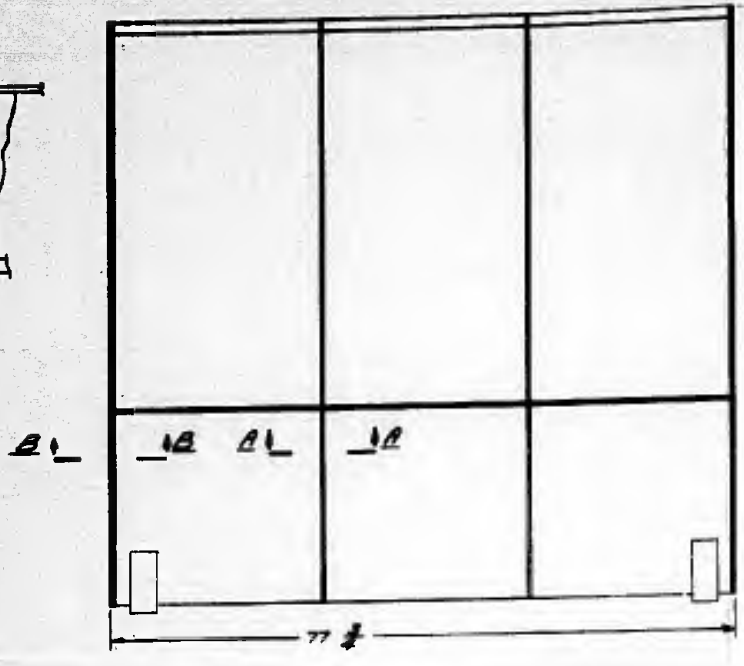


RAMP HINGE TRUNNION DETAIL  
SCALE-FULL

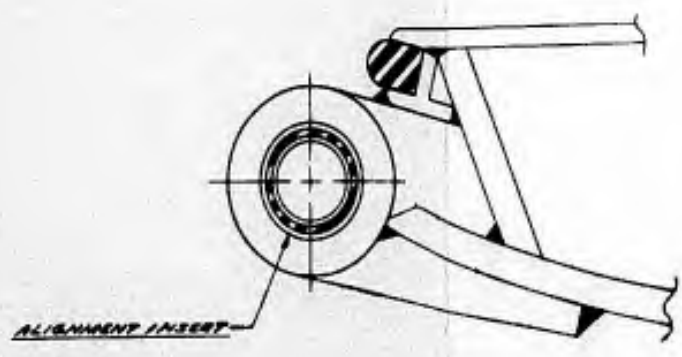


HINGE DETAIL  
SCALE-FULL

DATE:		HUFFMAN	
HEAT TREAT:		1.000.000	
SURFACE FINISH EXCEPT AS NOTED:		1.000.000	
TOLERANCES:		1.000.000	
DECIMAL: ±	FRACTIONAL: ±	SCALE:	AS NOTED
UNLESS OTHERWISE SPECIFIED			



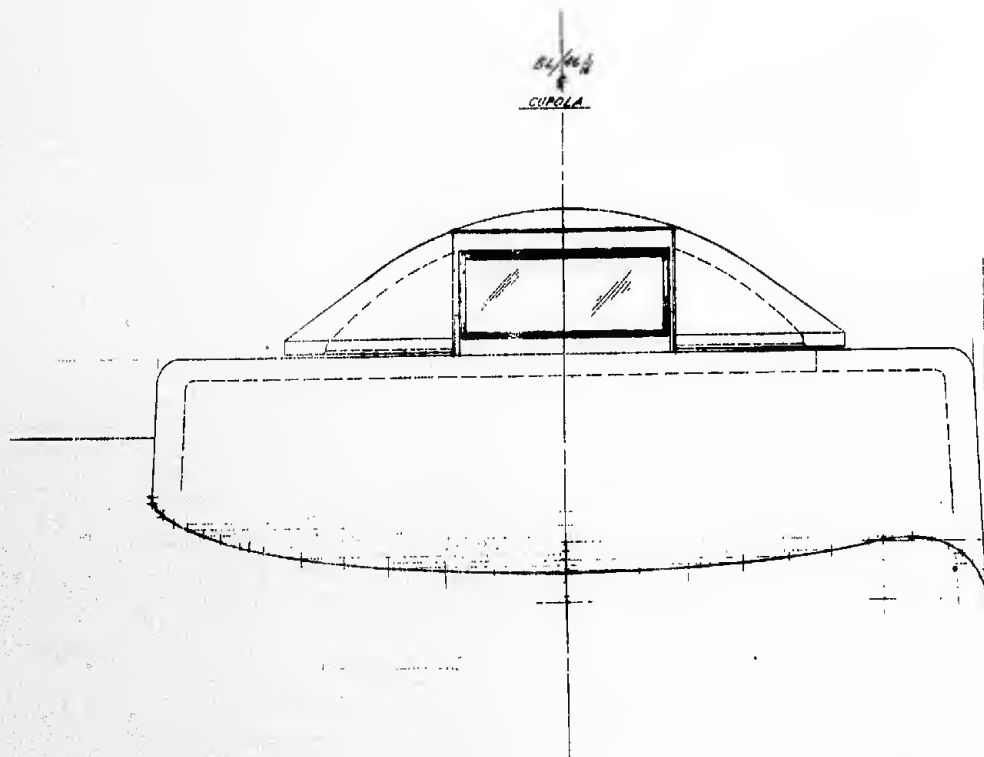
RAMP FRAMING  
SCALE 5/8



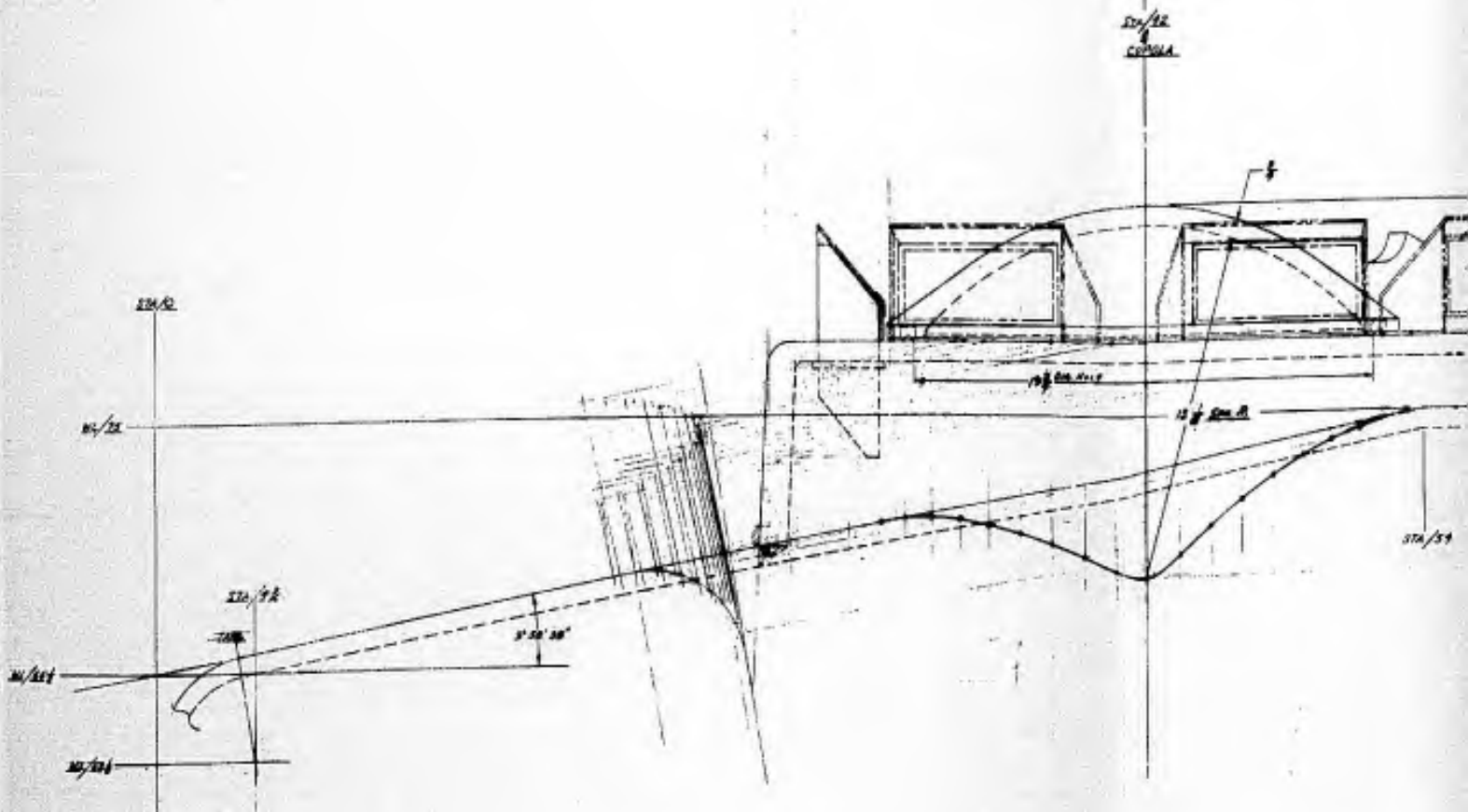
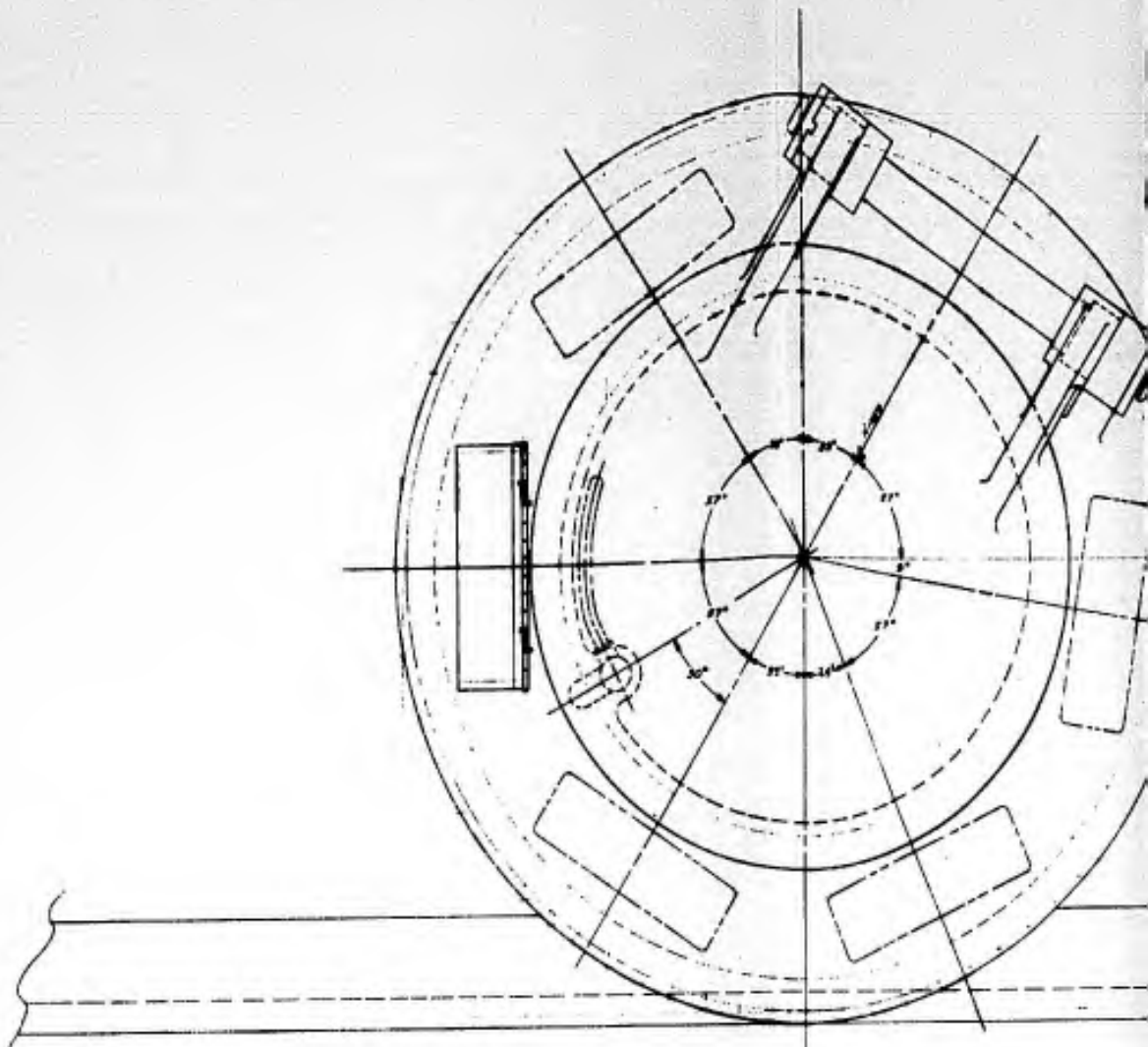
RAMP HINGE TRUNNION DETAIL  
SCALE-FULL

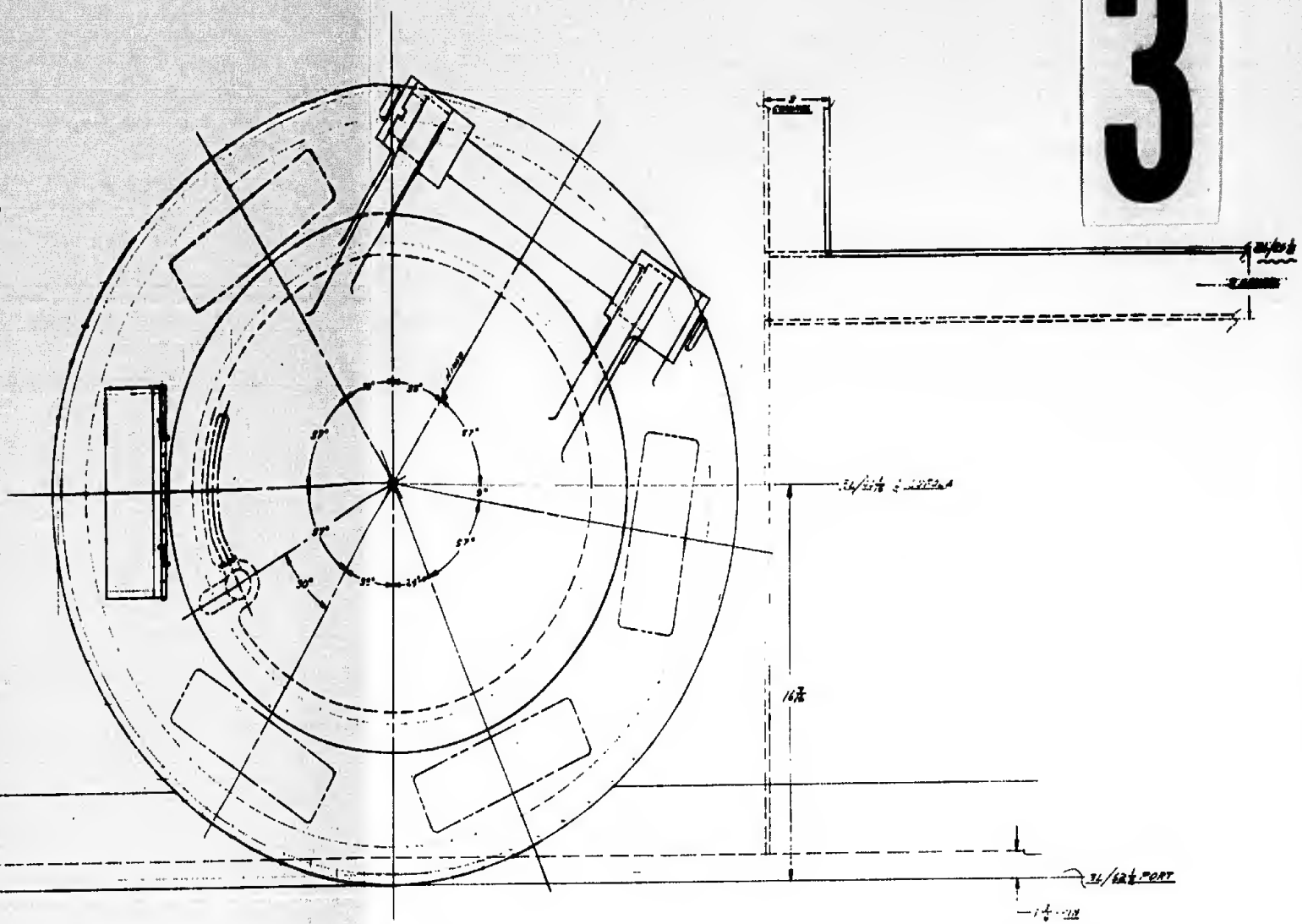
REVISION:	<b>WUPFAIAN 8-25-62</b>	GENERAL INFORMATION
DATE:	DATE: 8/25/62	DESIGNER: [Signature]
BY:	BY: [Signature]	TITLE: LVTFAII
SCALE:	SCALE: AS NOTED	PROJECT: RAMP STRUCTURE
NO. OF SHEETS:	NO. OF SHEETS: 13	SHEET: 1 OF 1
DATE:	DATE: 8/25/62	

1

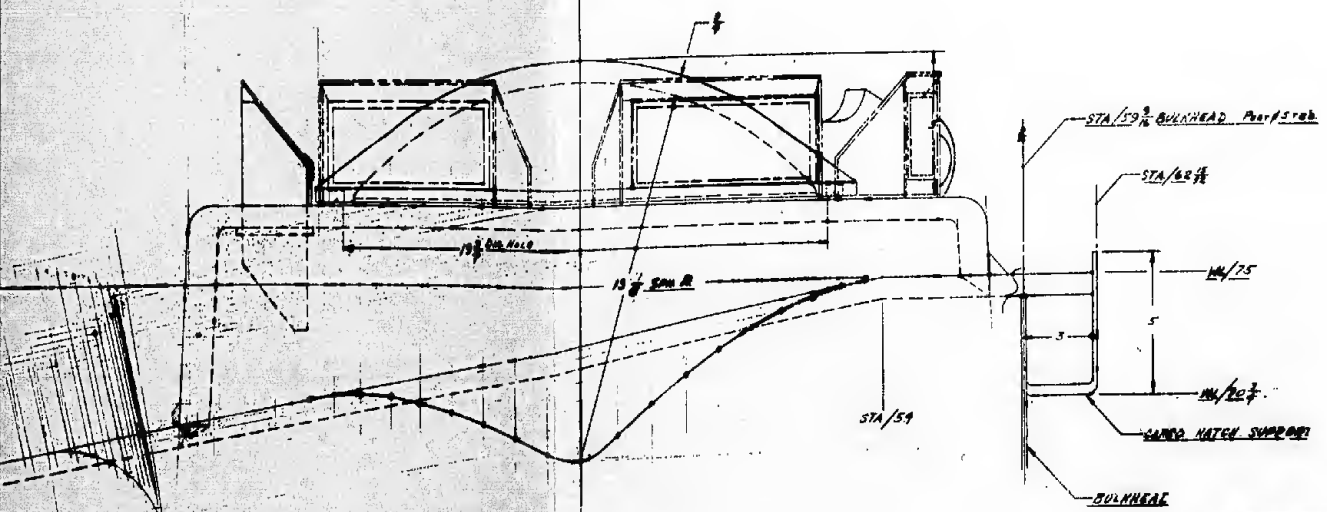


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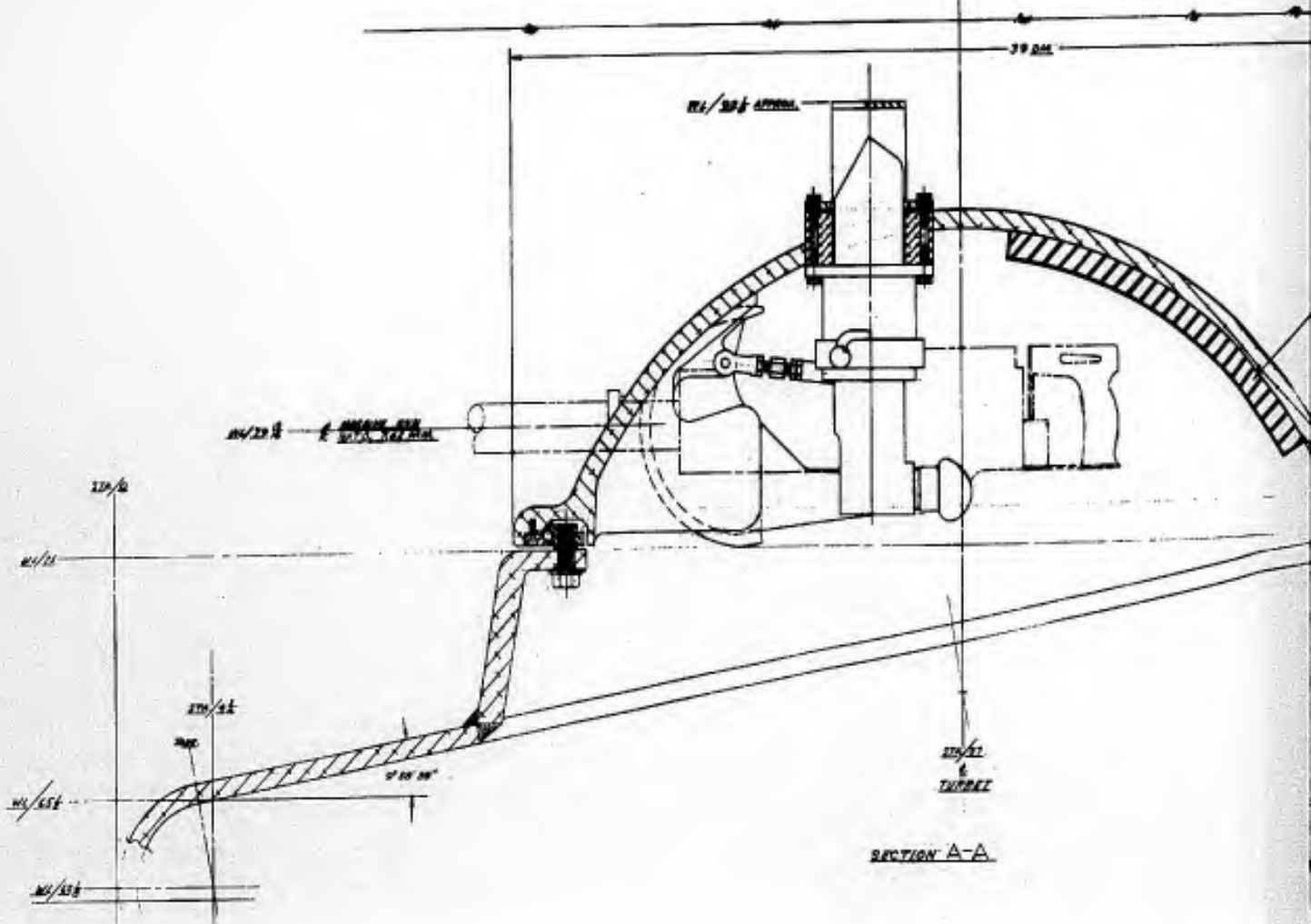
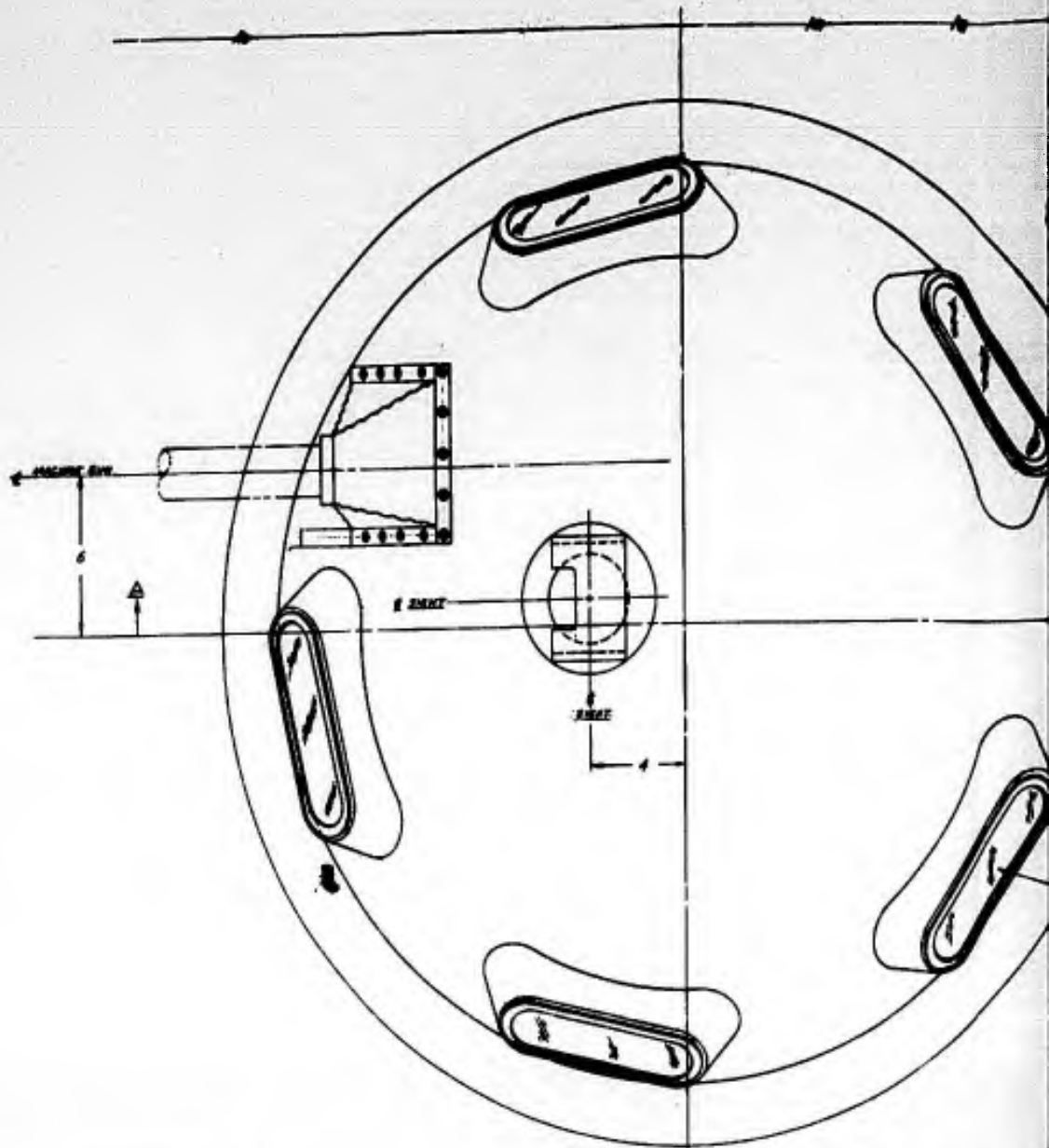


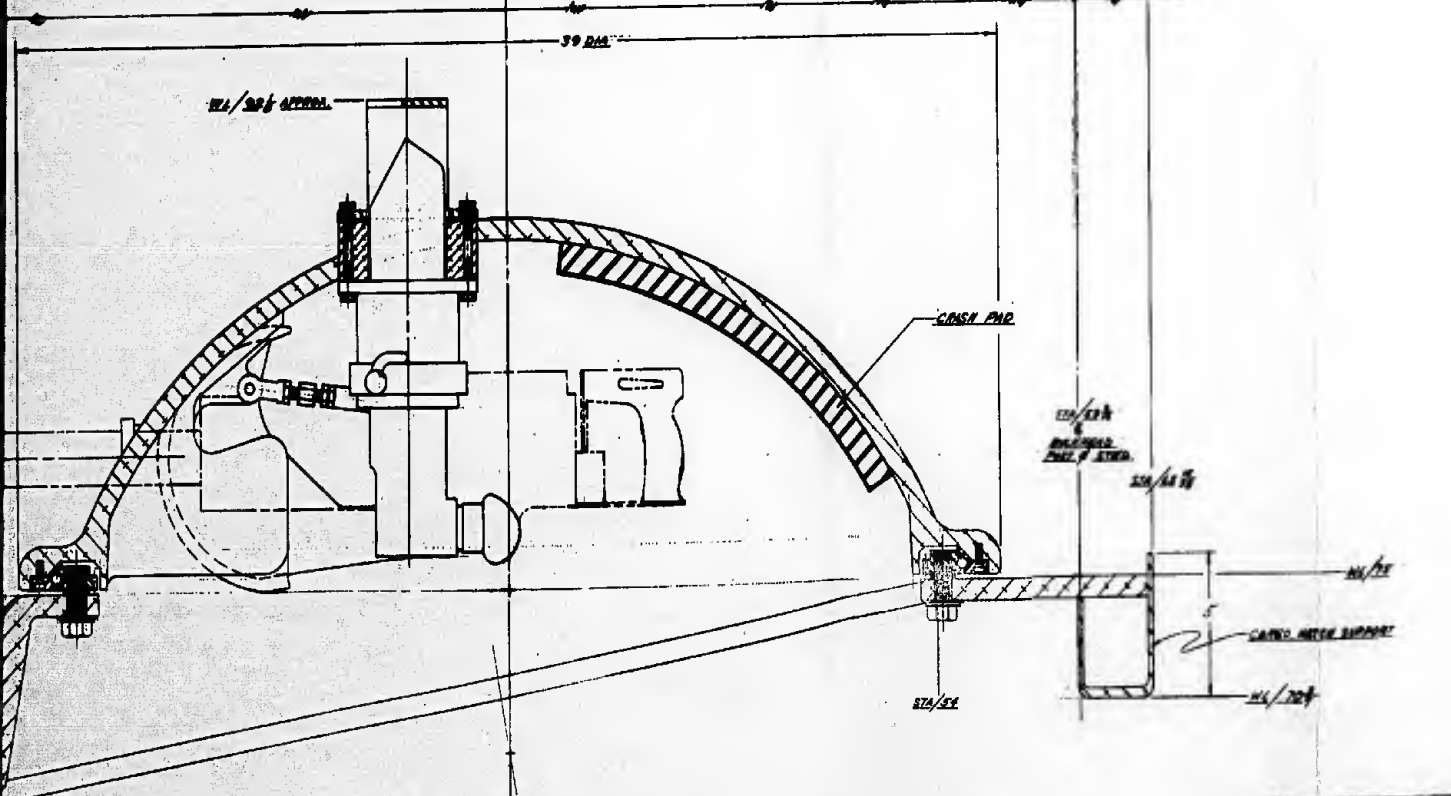
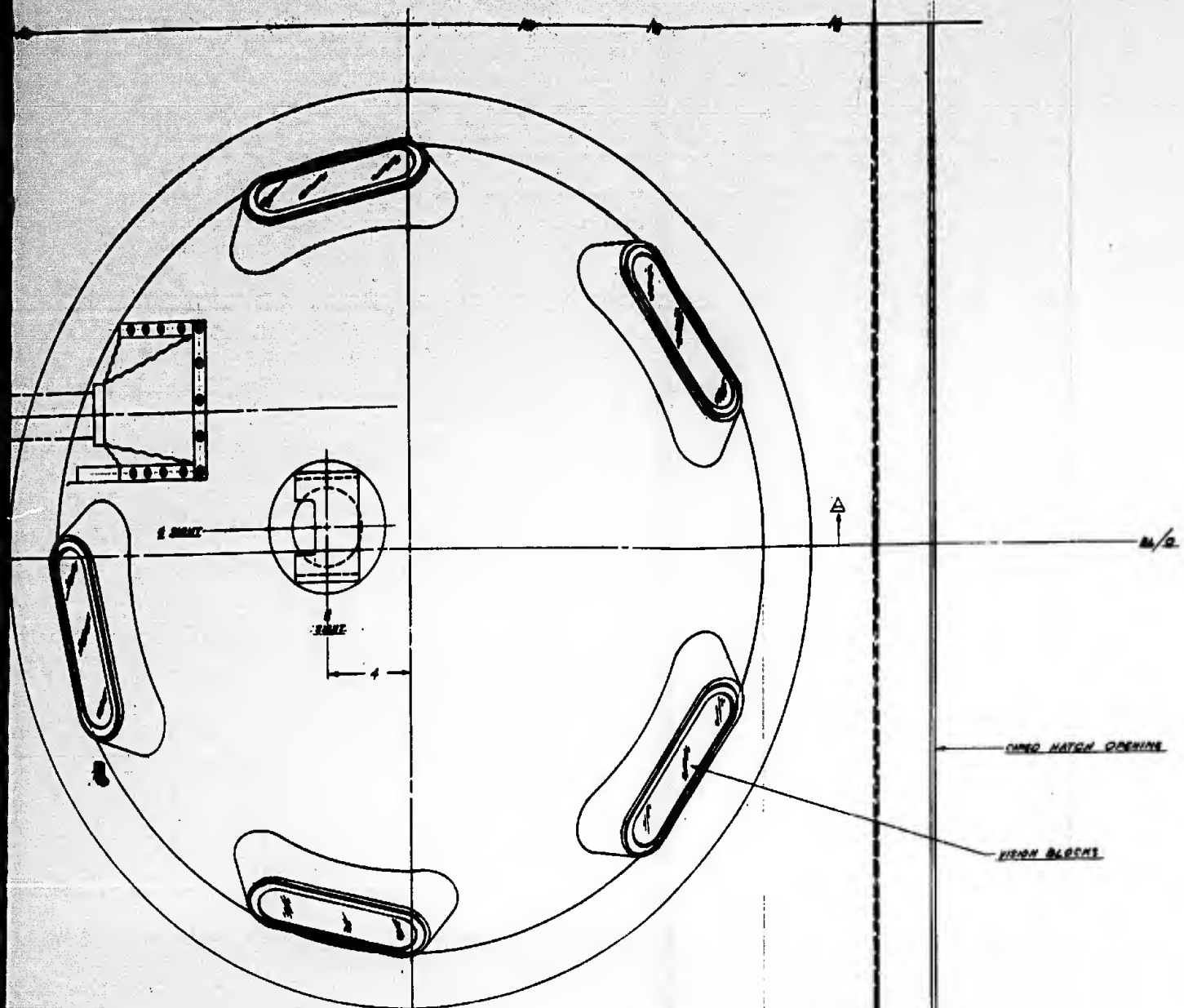
STA/42  
CUBOLA



DATE	1/2	GENERAL BULHEAD DESIGN
BY		DESIGNED & DEVELOPED BY
CHECKED BY		PROJECT ENGINEER
APPROVED BY		DATE
SCALE	1/2	PROJECT NO.
NO. OF SHEETS		OF

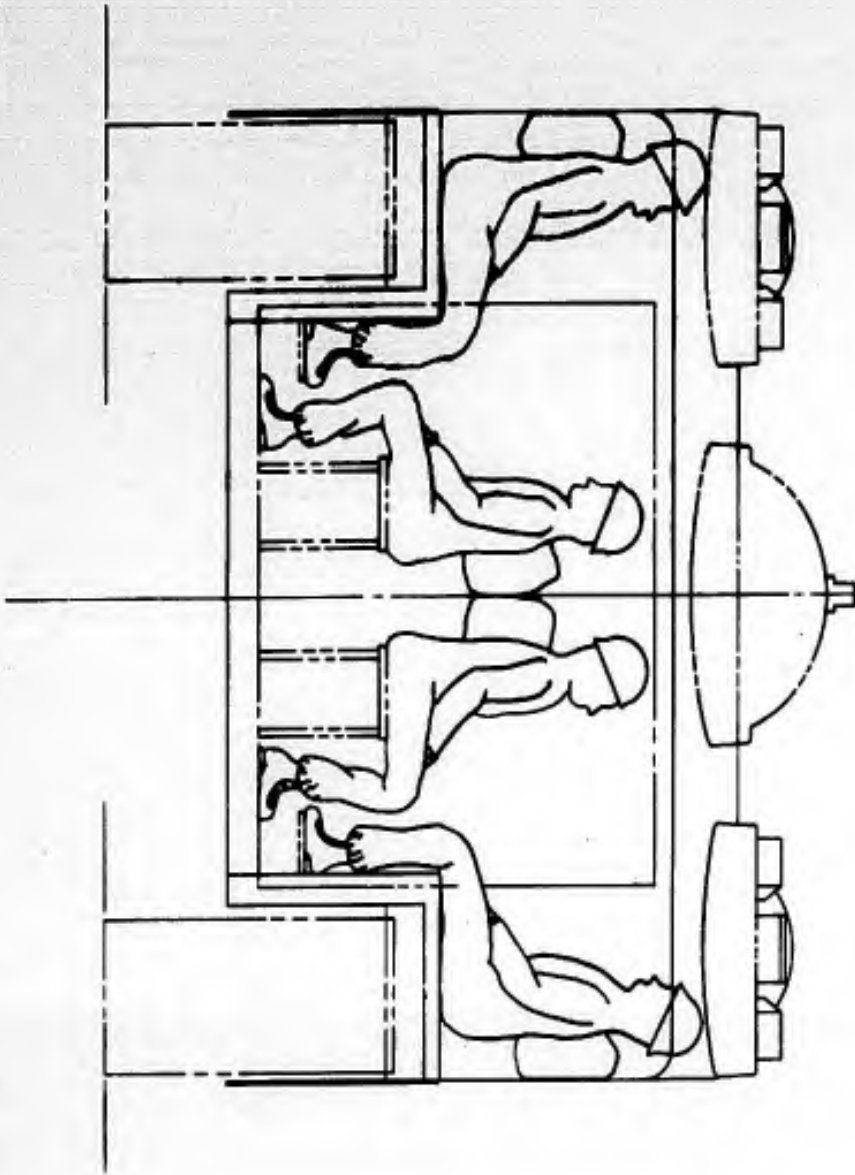
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SECTION A-A

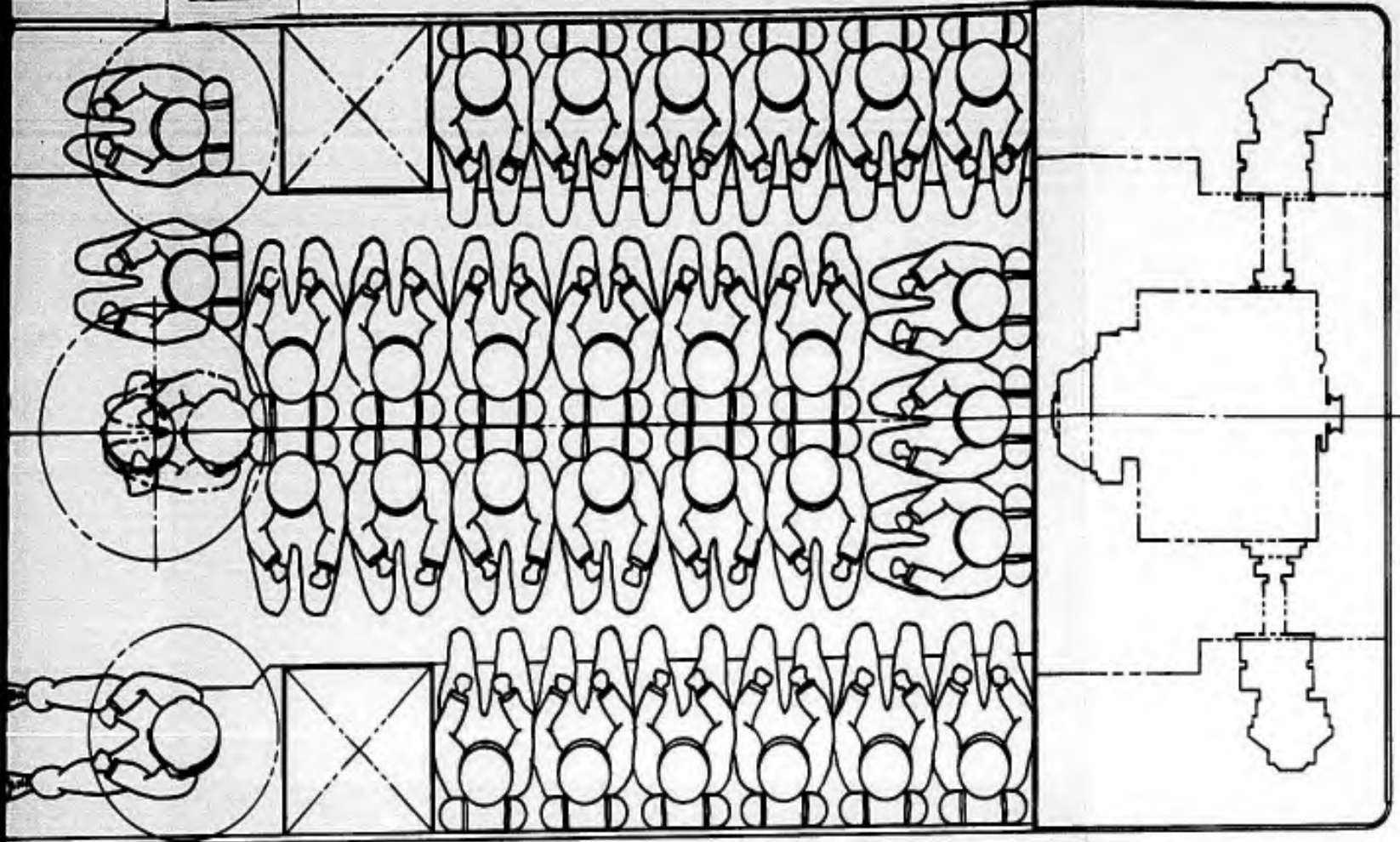
DATE	REV	BY	CHKD	APP'D	DESCRIPTION
THE NATIONAL DEFENSE UNIVERSITY WASHINGTON, D.C. 20304-6000 OFFICE OF THE DIRECTOR OF RESEARCH AND ANALYSIS 1100 PENTAGON AVE., 4TH FLOOR ARLINGTON, VA 22204-6145			DRAWING NO. 158A-5105 SHEET 1 OF 1		



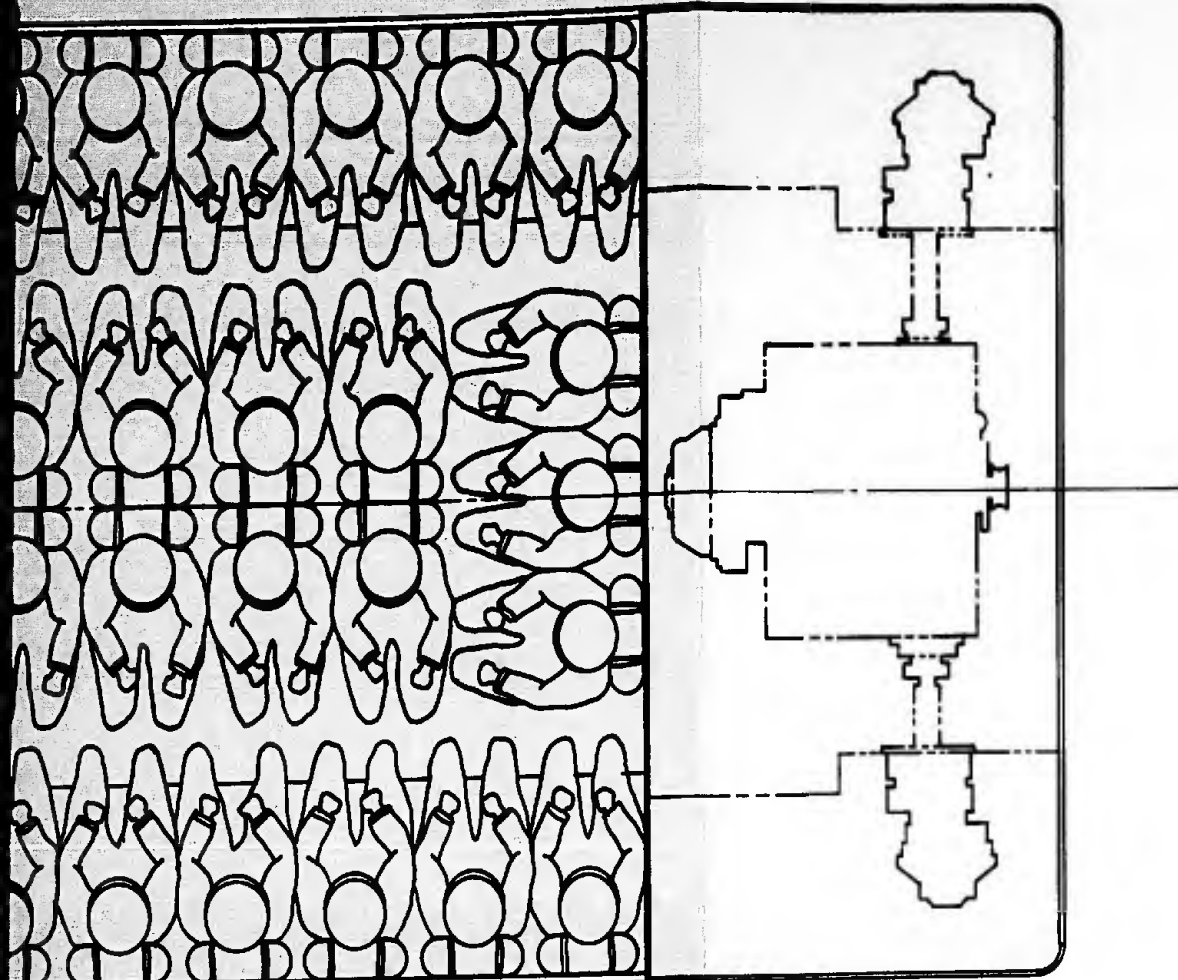
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# 2

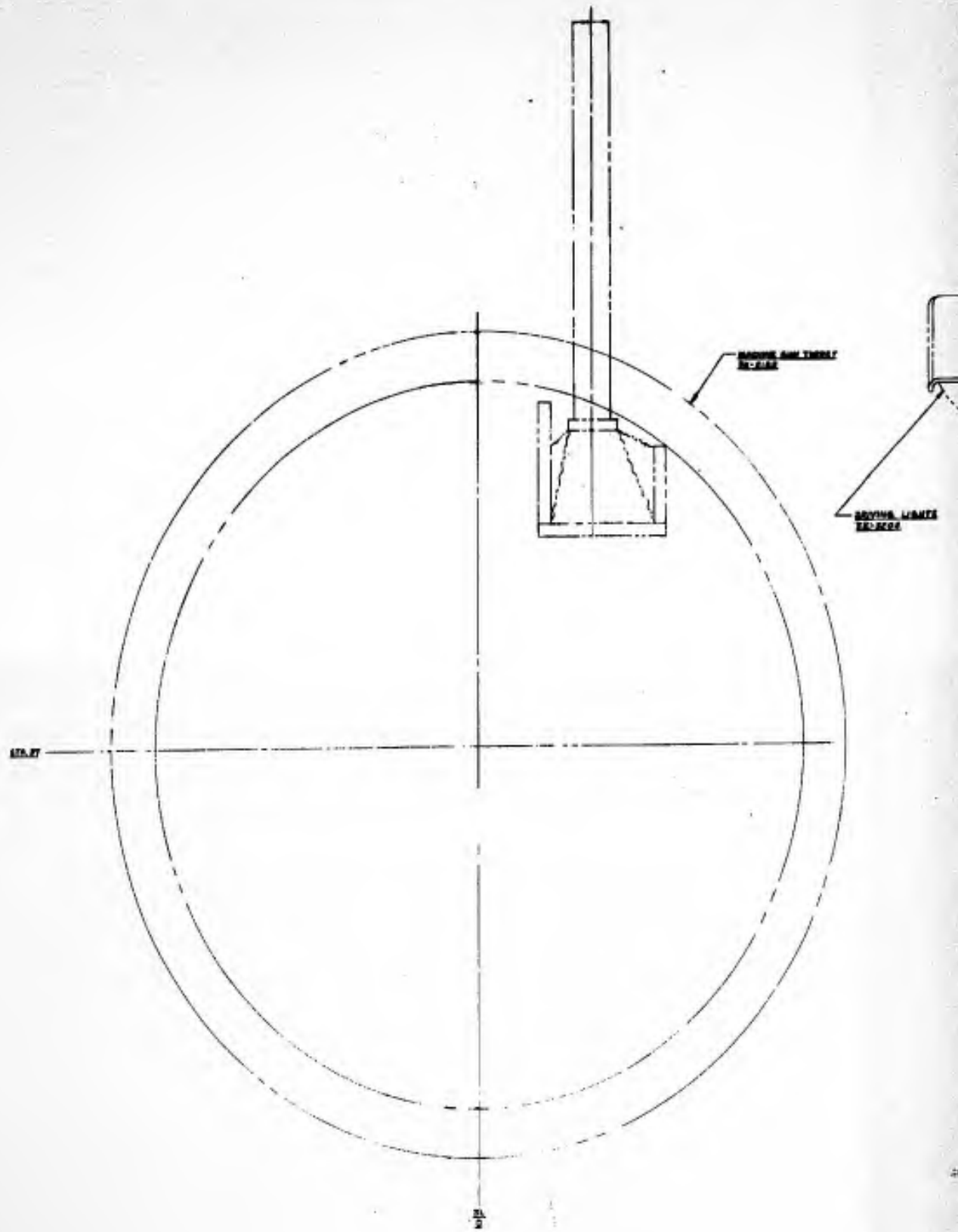


<del>EXTERNAL</del>
<del>TEXT - HEAT</del>
SURFACE FINISH EXCEPT AS NOTED: <input checked="" type="checkbox"/>
TOLERANCES: DECIMAL ±      FRACTIONAL ± ANGULAR ± UNLESS OTHERWISE SPECIFIED



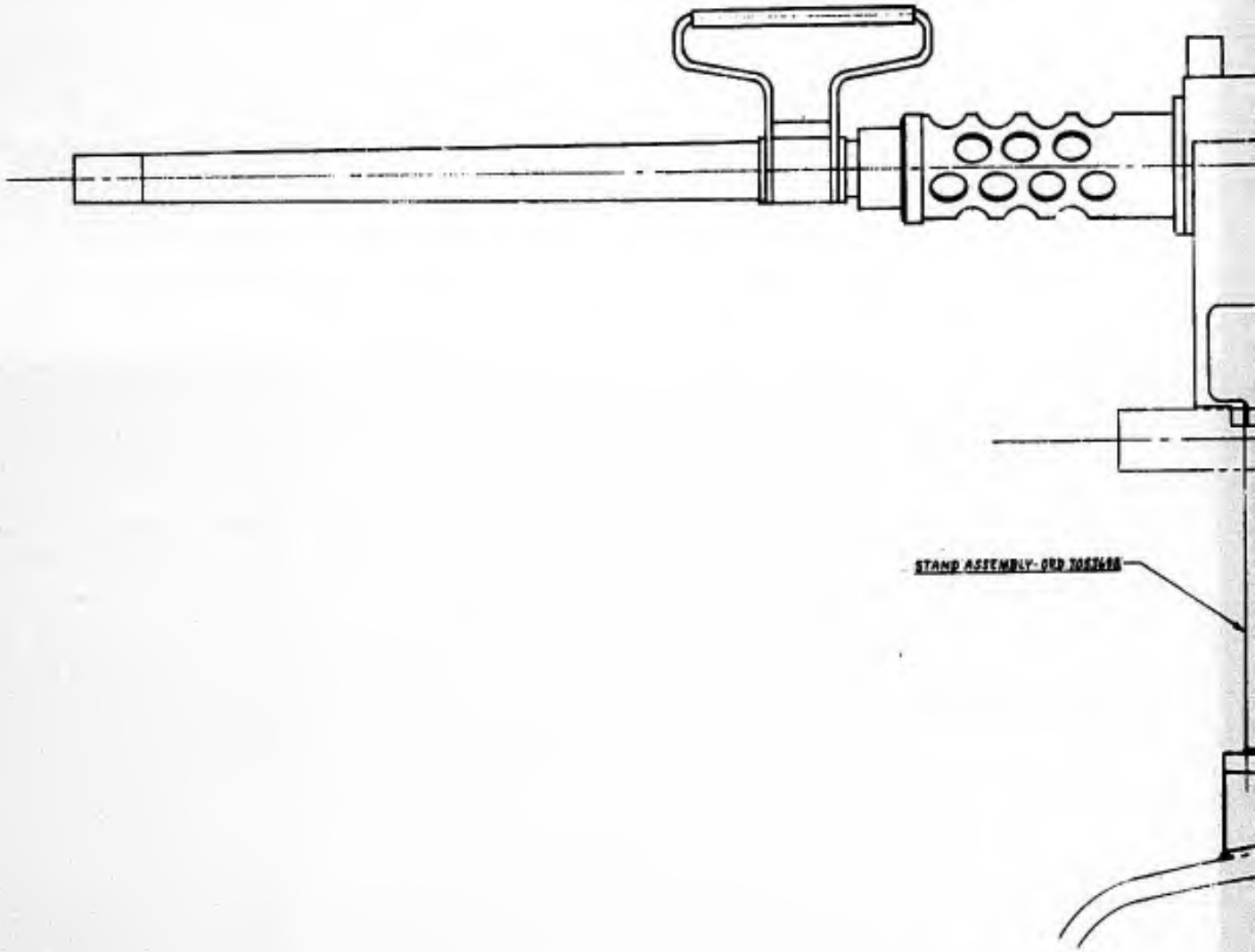
<del>REVISION:</del>		F.D. Austin 10-1-62 DRAWN BY		MORRILL KALABAZO DIVISION MORGAN-WALKER CORPORATION KALABAZO MORGAN	
<del>NEXT SHEET:</del>		M. Austin 11/2/62 CHECKED BY		RESEARCH & DEVELOPMENT SECTION	
<del>SURFACE FINISH EXCEPT AS NOTED:</del>		APPROVED	DATE	TITLE: LVTPXII PERSONNEL ARRANGEMENT	
TOLERANCES: DECIMAL ± FRACTIONAL ±		SCALE: 1" = 1	WEIGHT: CALC. ACTUAL:	DWG. NO. J. SK-5186	
UNLESS OTHERWISE SPECIFIED				SHEET 1 OF 1 SHEETS	

1



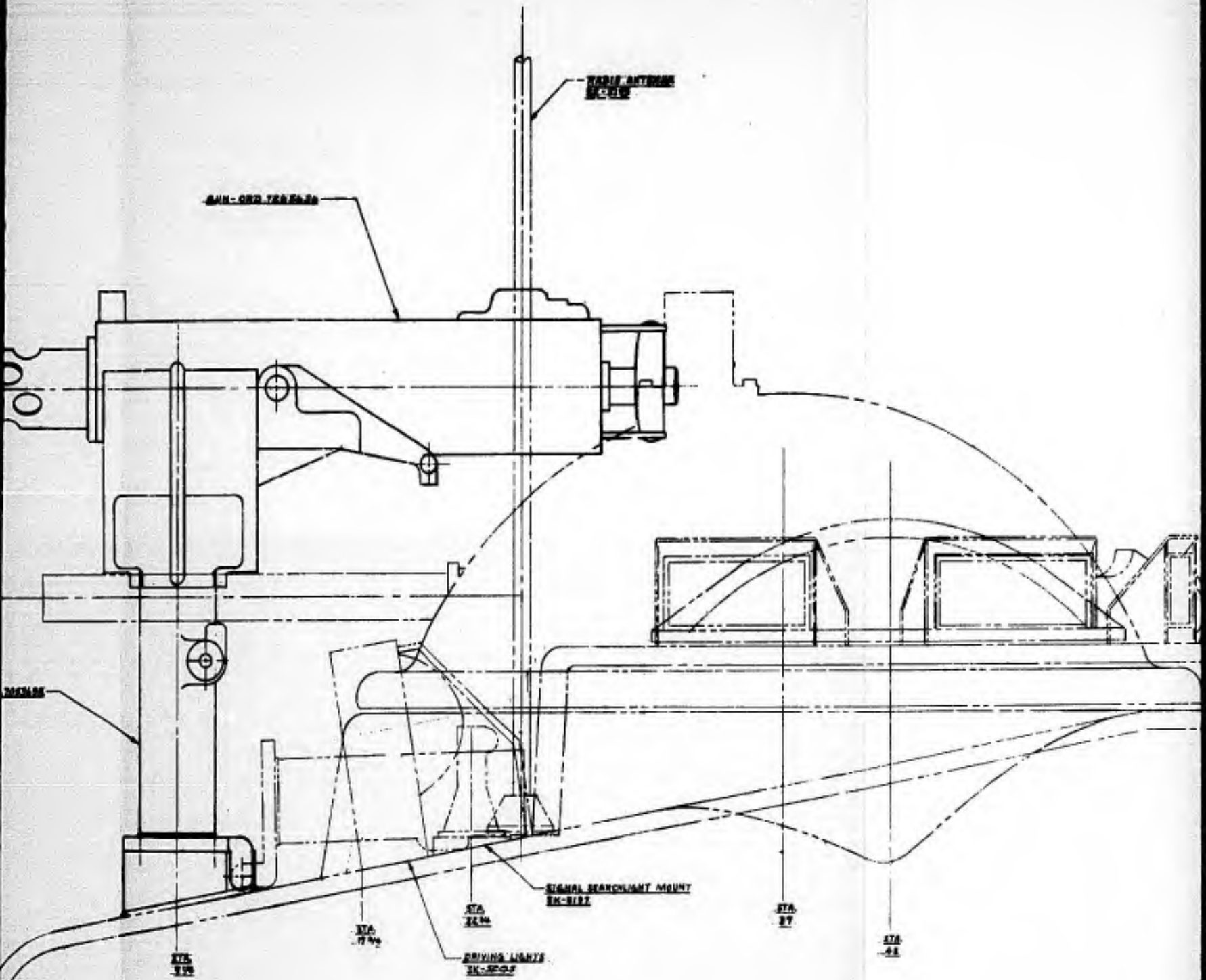


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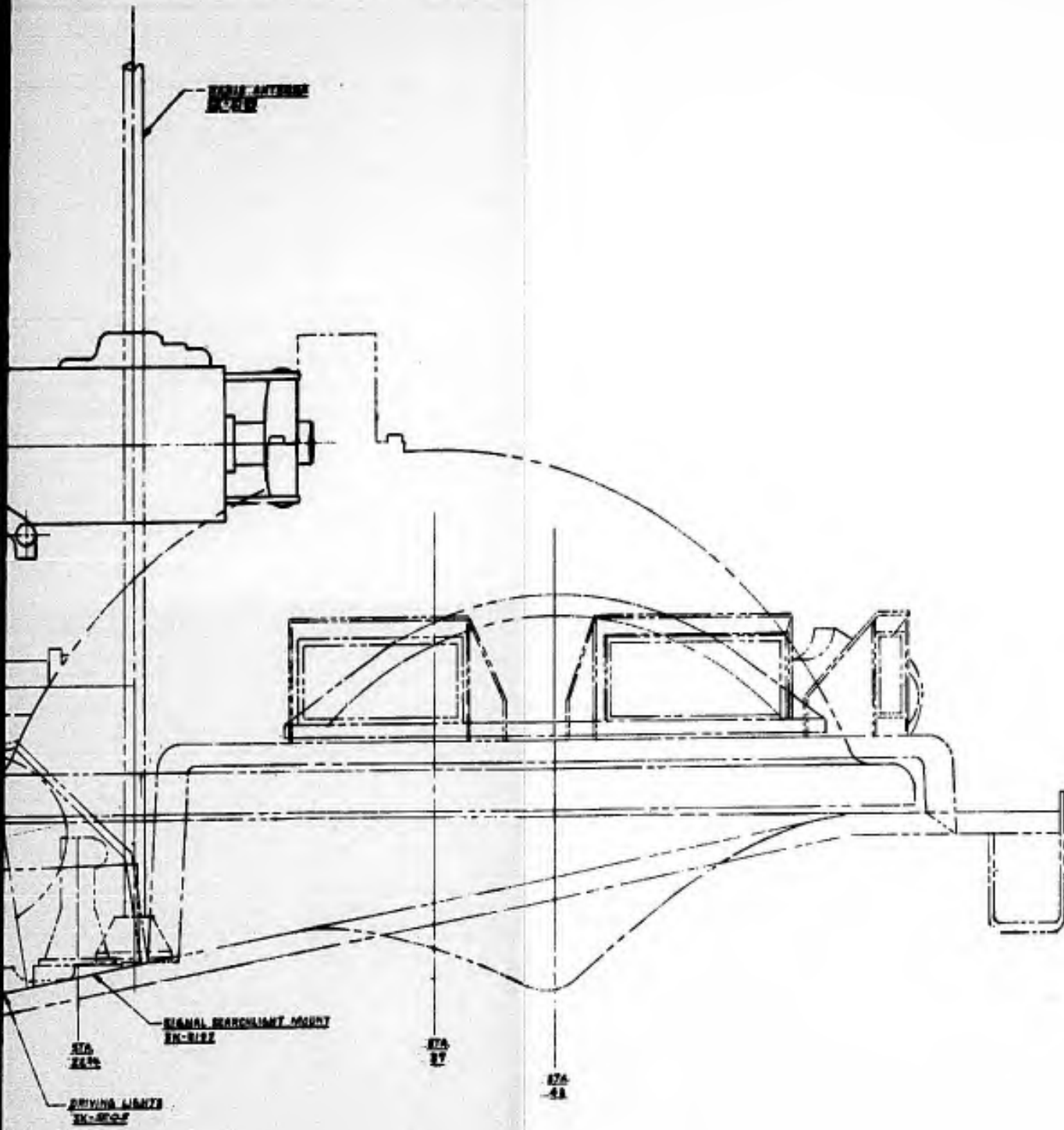


STAND ASSEMBLY-ORR 205248

2

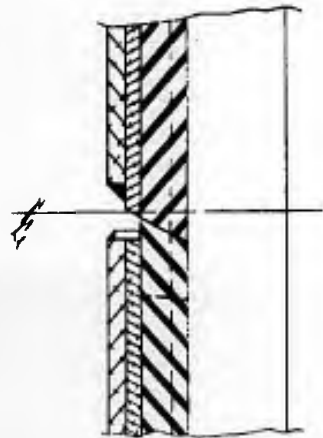


REVISIONS  
DATE  
BY  
DESCRIPTION

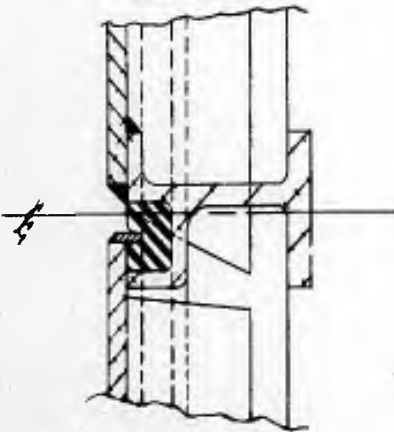


SERIAL: _____ PART NO.: _____ QUANTITY: _____ DRAWING NO.: _____ DATE: _____ BY: _____ CHECKED: _____ APPROVED: _____	<b>EVERETT 10-4-52</b> DRAWN BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i> DATE: 10/4/52 BY: <i>[Signature]</i> CHECKED: <i>[Signature]</i> APPROVED: _____ SCALE: 1/2" = 1" SHEET: 2 OF 2	GENERAL QUALITY CONTROL INSPECTION DEPARTMENT DESIGN & DEVELOPMENT CENTER 50 CAL. MACHINE GUN MOUNTING SK-5187 SHEET 2 OF 2, 00000
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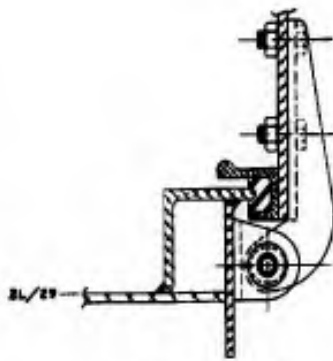
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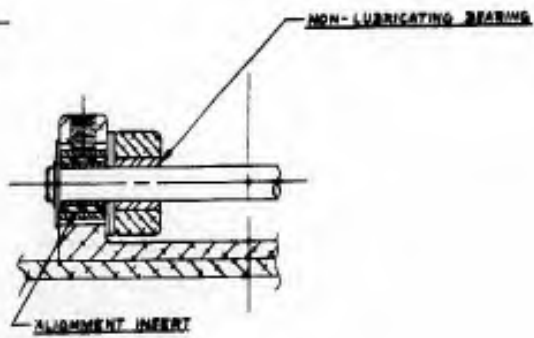
SECTION D-D  
FULL SCALE



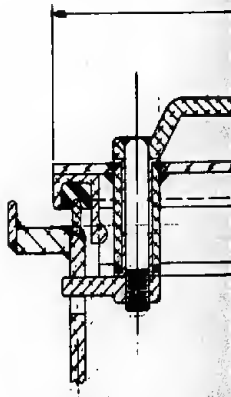
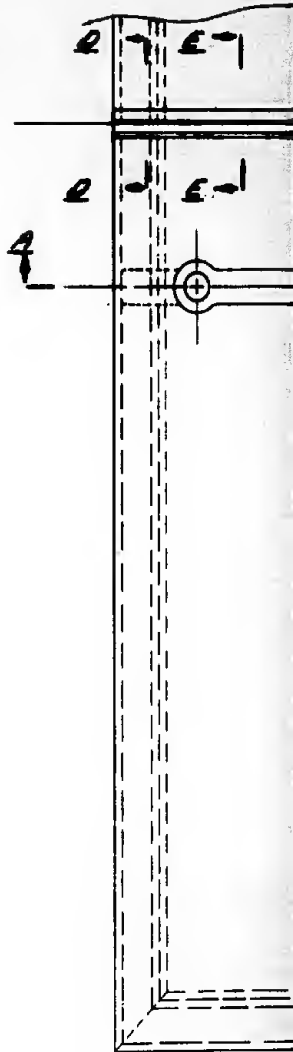
SECTION E-E  
FULL SCALE



SECTION B-B

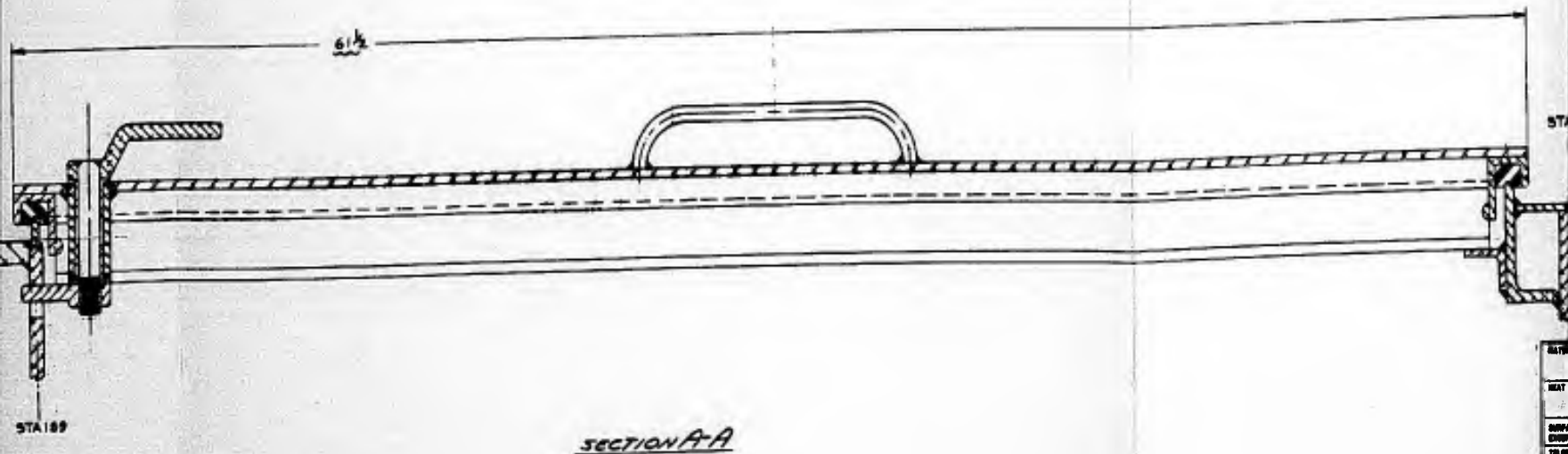
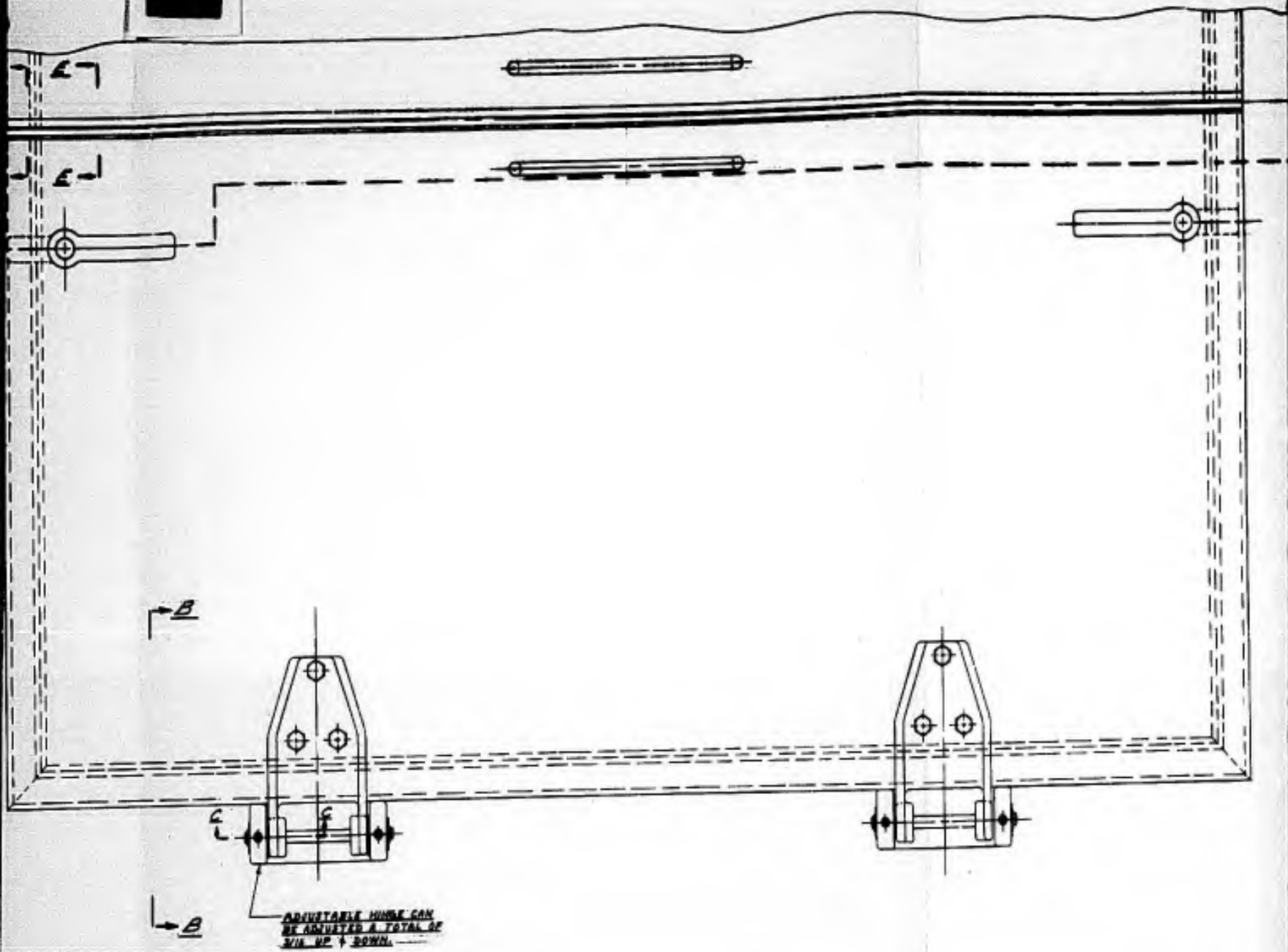


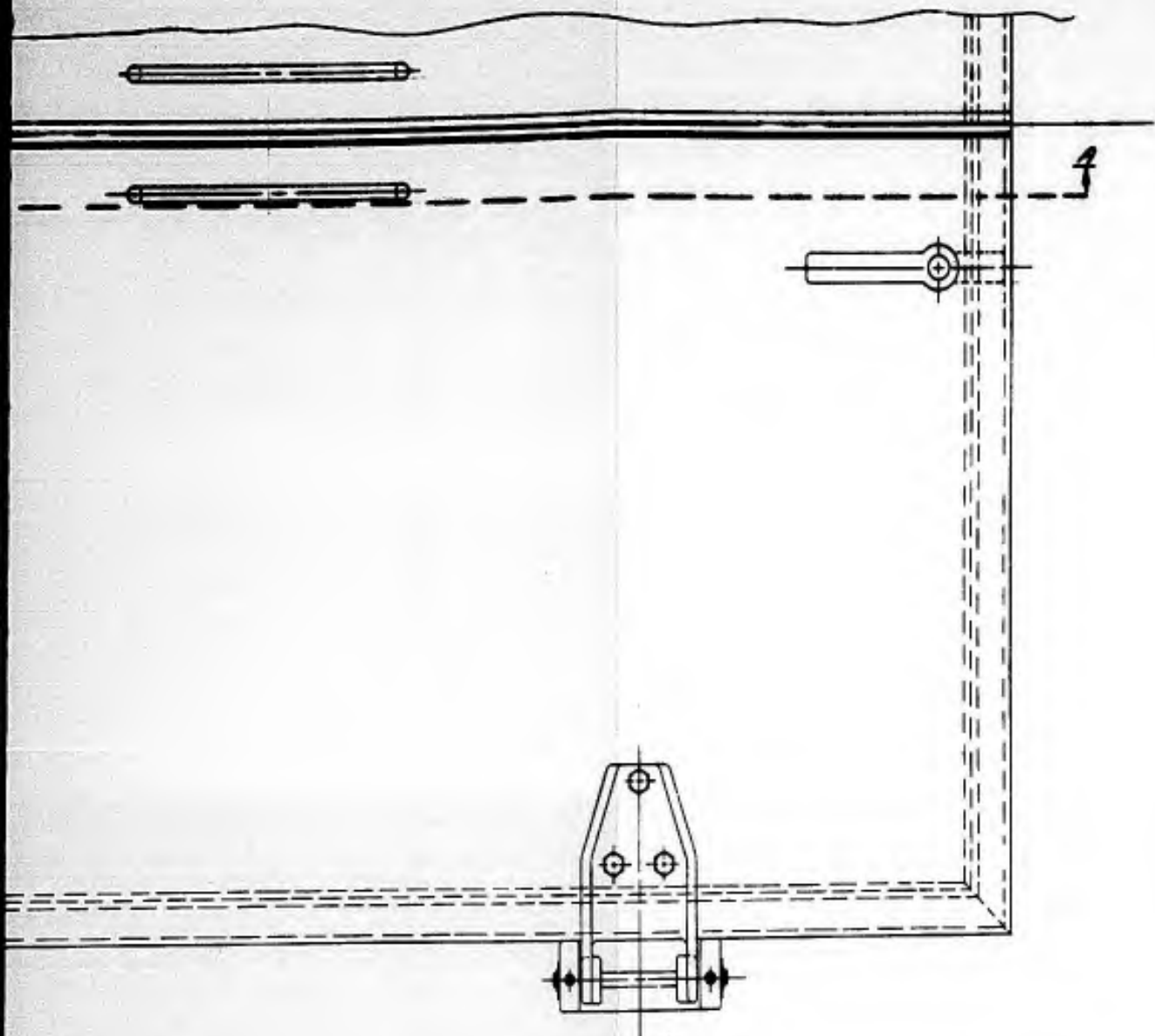
SECTION C-C  
FULL SCALE



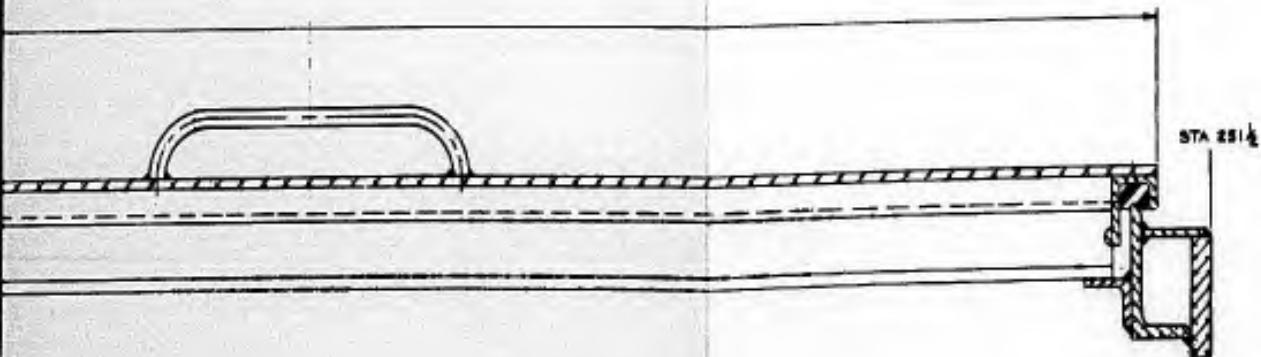
STA 189

# 2





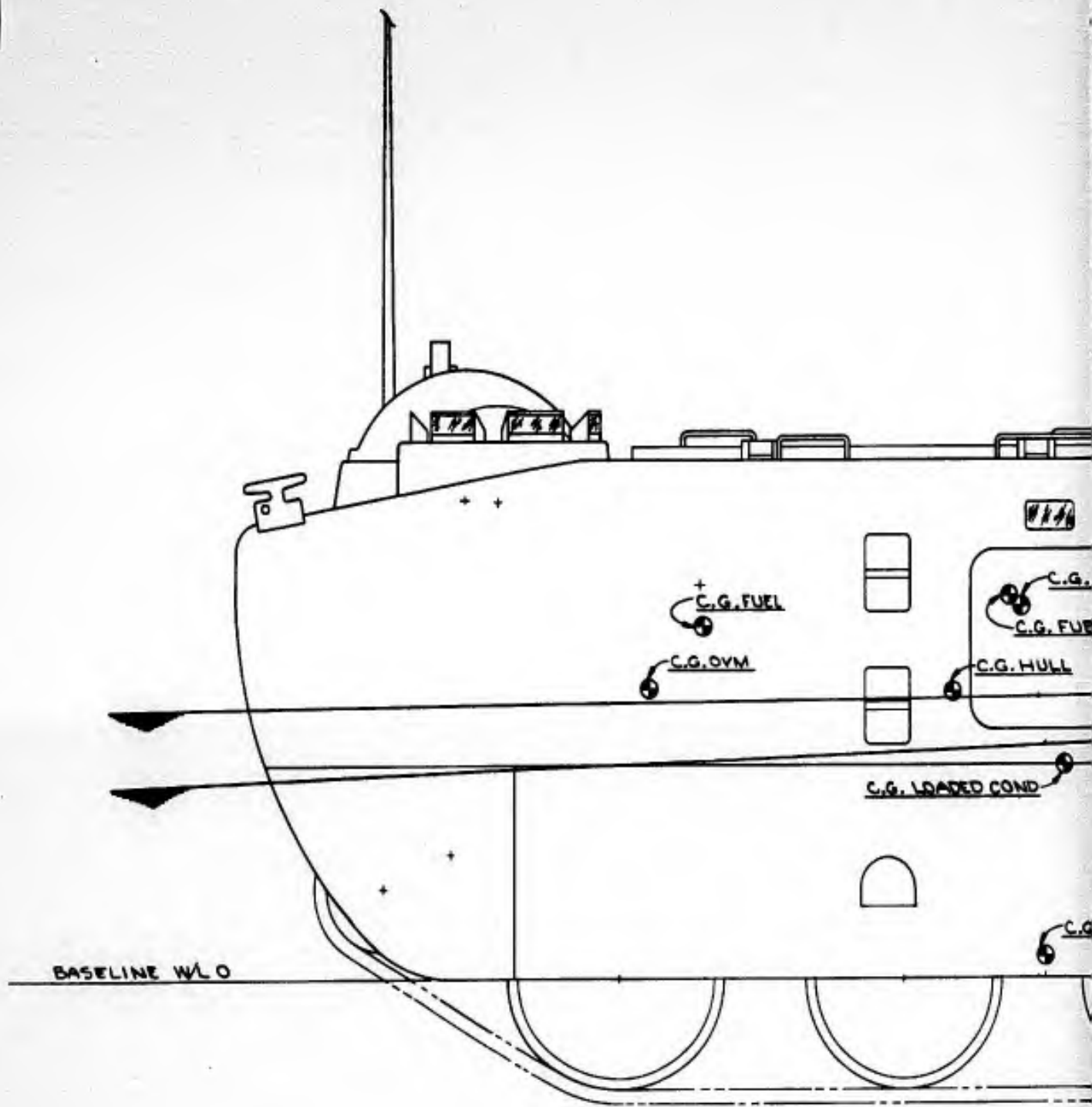
CAN  
AL OF



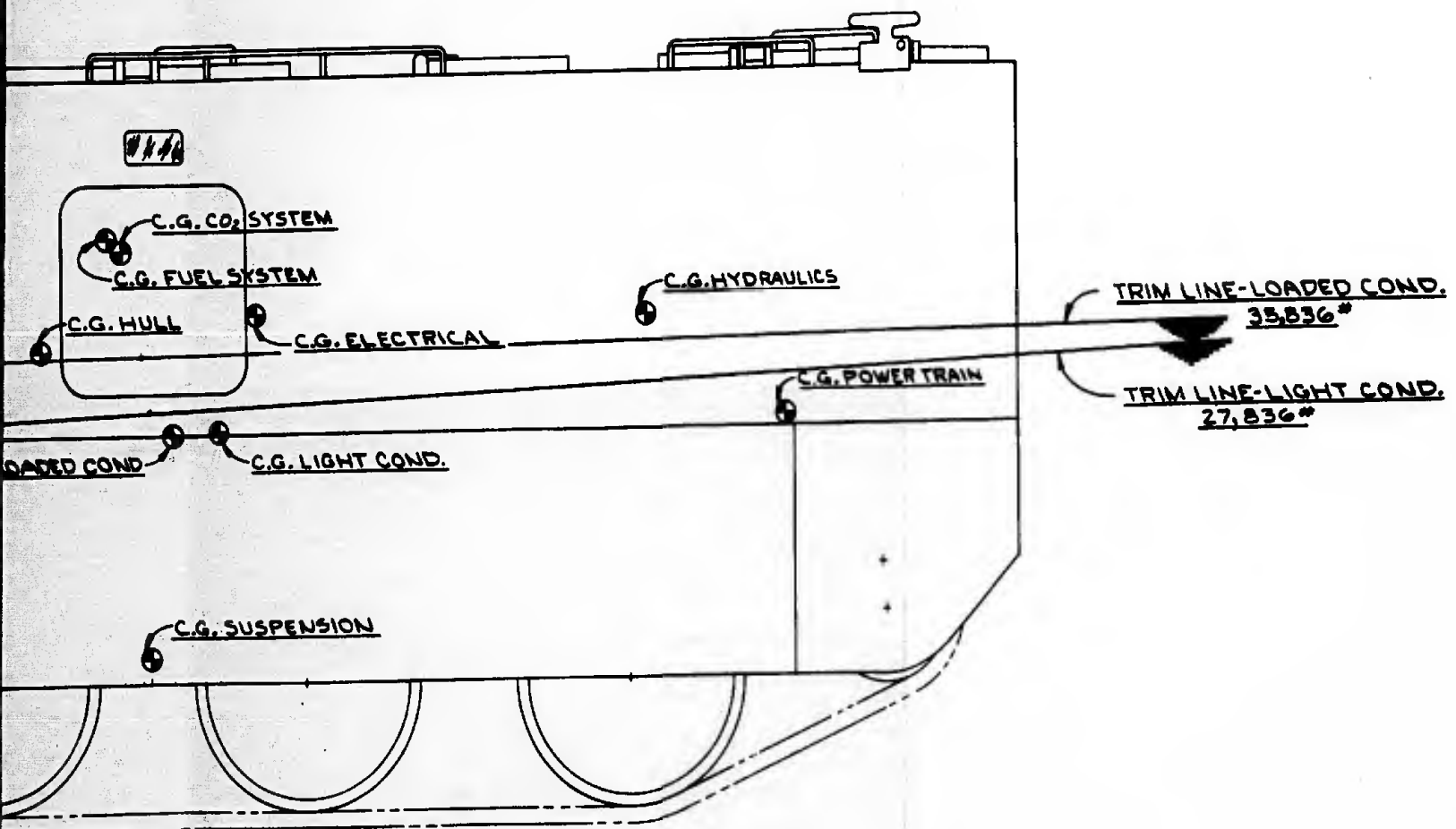
SECTION A-A

DESIGNER:	C. W. MAN 10-2-62	ENGINEERING DIVISION
DATE:	10-2-62	RESEARCH & DEVELOPMENT CENTER
PROJECT:	ENGINE ACCESS	
DESCRIPTION:		
REVISIONS:		
APPROVED:		
DATE:		
SCALE:		
NOTES:		
SHEET:	1	OF 1

1

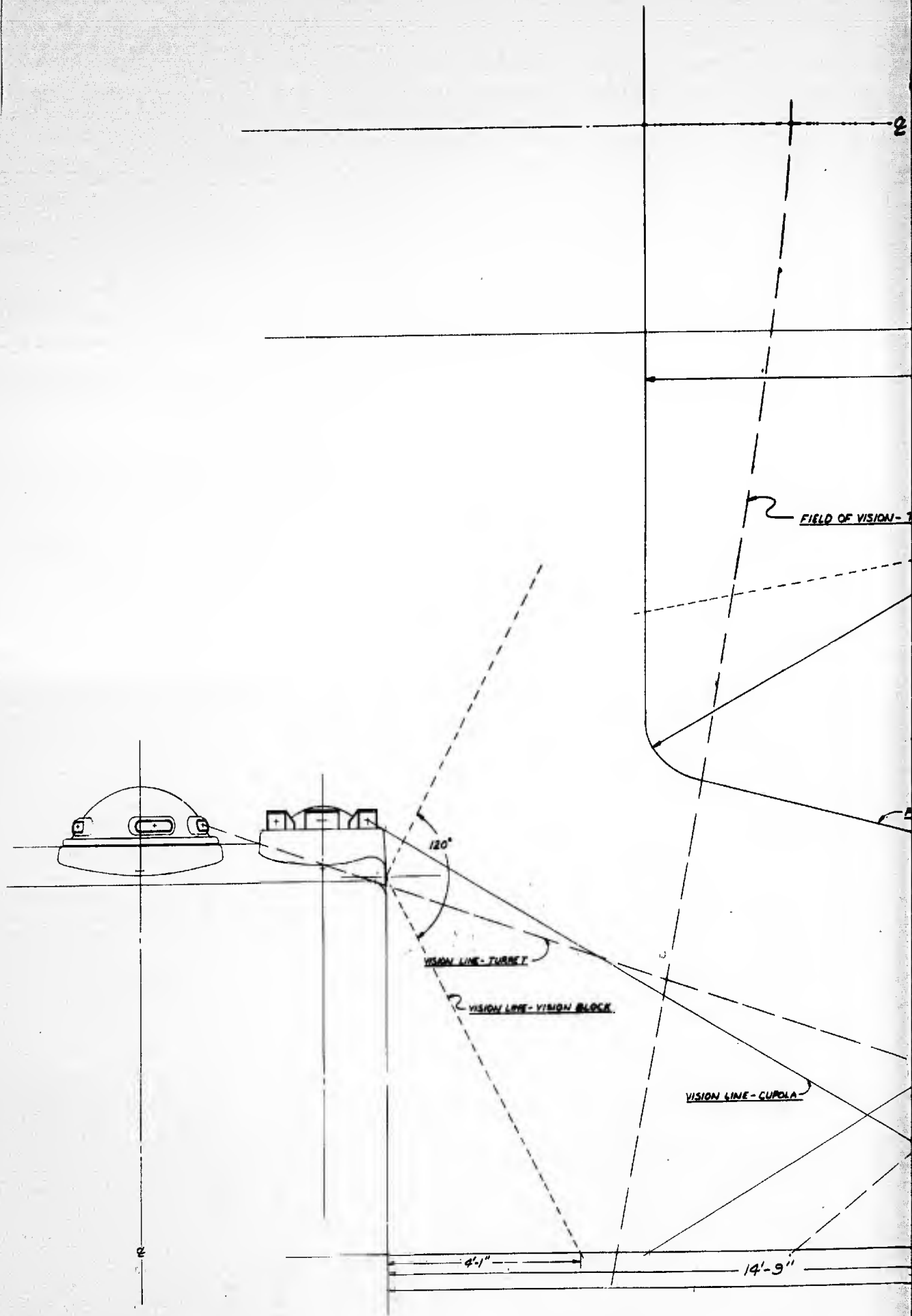


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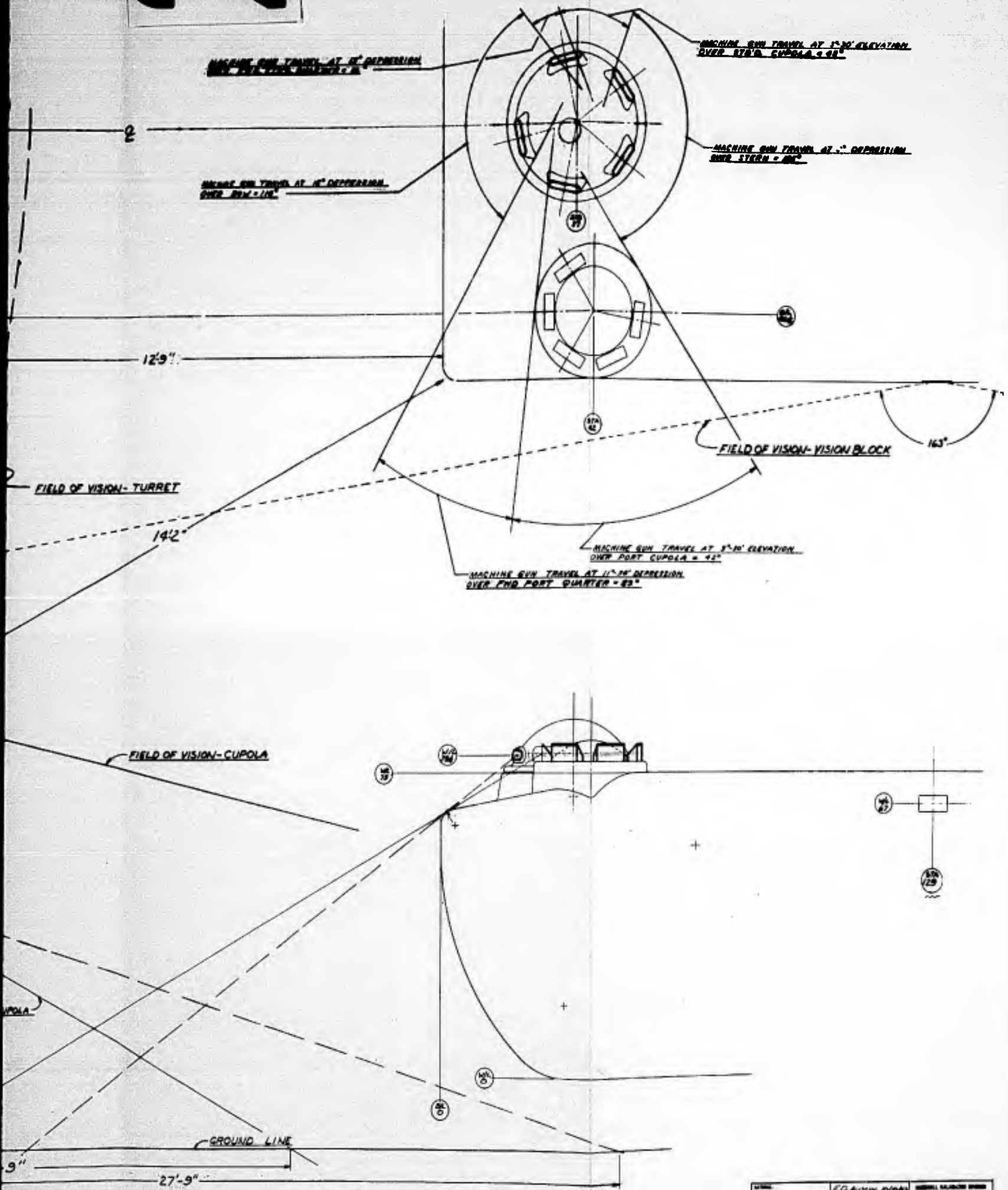


MATERIAL:	F.D. AUSTIN 10-5-68		INGERSOLL RALPHAZZO DIVISION SHIP-REPAIRER CORPORATION KALAMAZOO MICHIGAN RESEARCH & DEVELOPMENT SECTION
	DESIGNED BY	DATE	
KEY-TREAT:	H. STRES 10-21-68		TITLE: LVTPX11 TRIM STUDY
	APPROVED	DATE	
SURFACE FINISH EXCEPT AS NOTED:	✓		Dwg. No. D SK-5189
	TOLERANCES: DECIMAL ± FRACTIONAL ± ANGULAR ±		
UNLESS OTHERWISE SPECIFIED	SCALE:	WEIGHT:	SHEET 1 OF 1 SHEETS
	1" = 1'-0"	CALC: ACTUAL:	

1

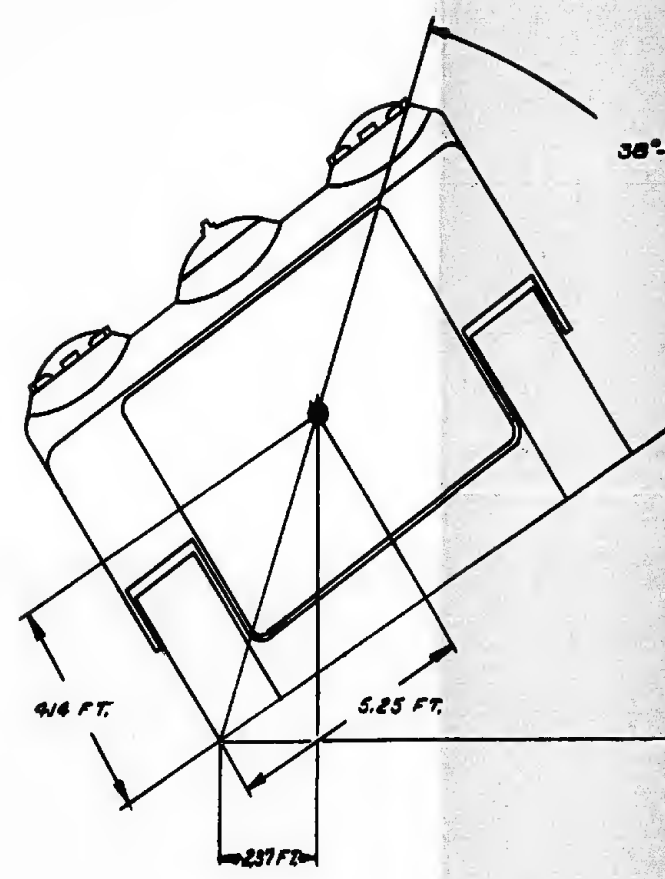
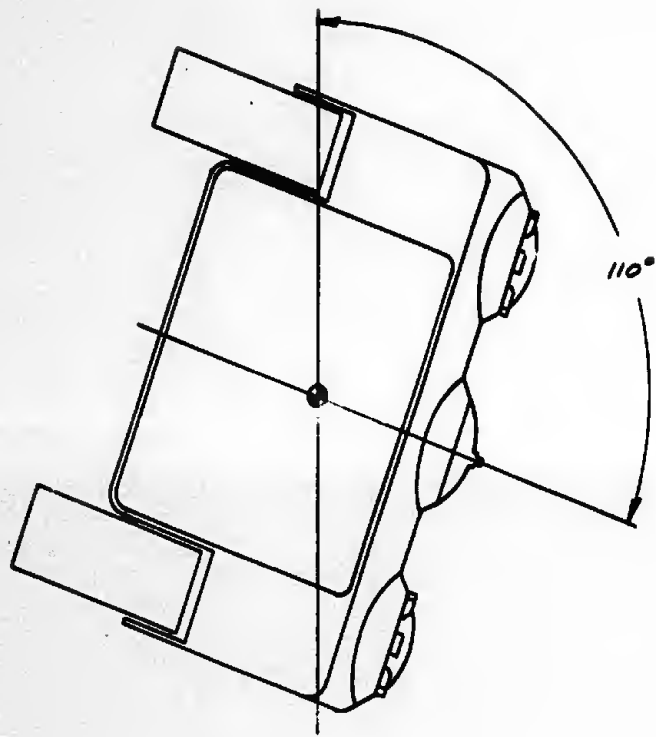


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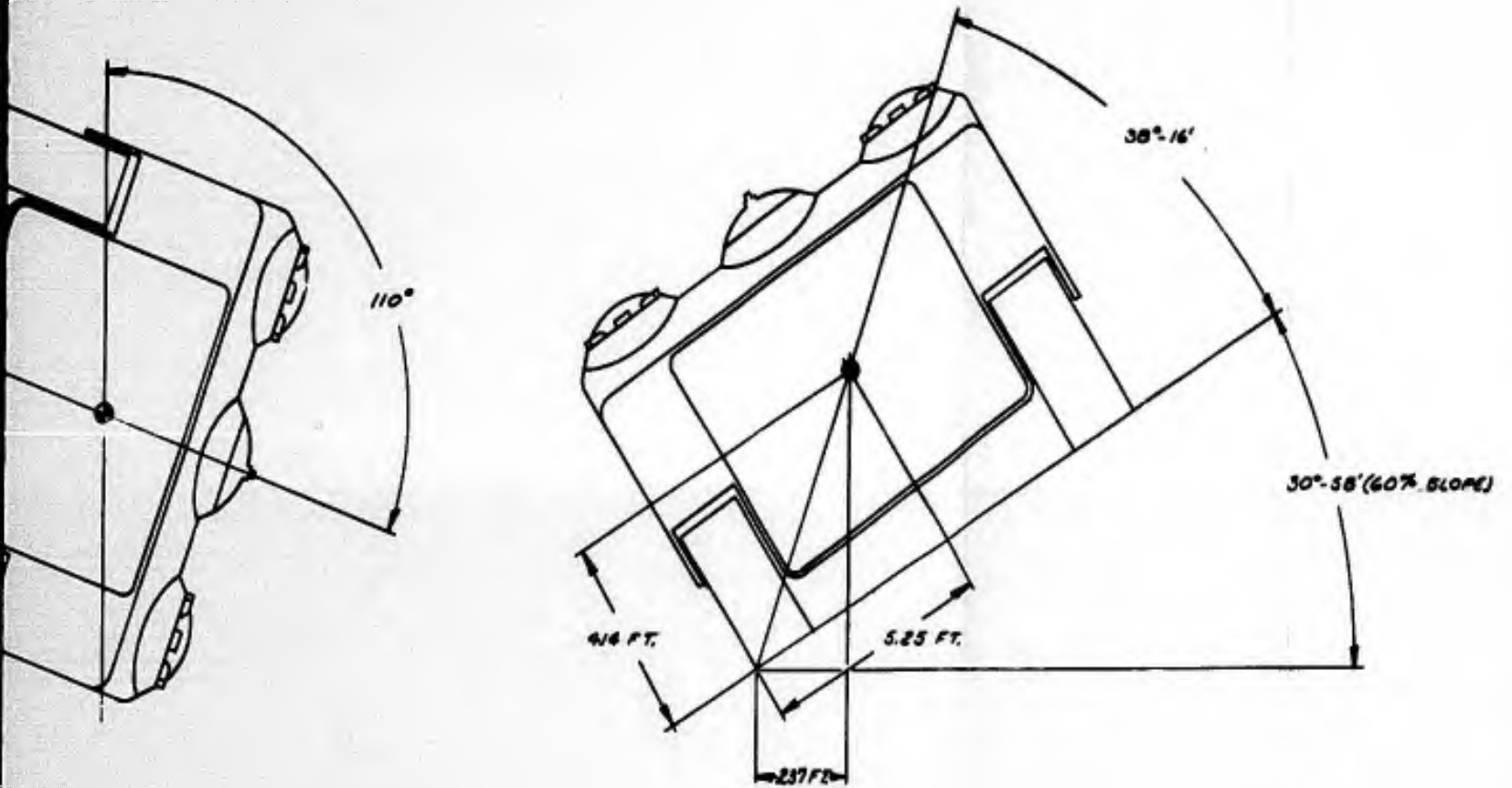


DESIGNER	J.D. [unclear]	APPROVED	[unclear]
CHECKED	[unclear]	DATE	[unclear]
PROJECT	VISION STUDY	NO.	15X-5190
SCALE	AS SHOWN	DATE	[unclear]
REVISIONS		BY	
1			
2			
3			
4			

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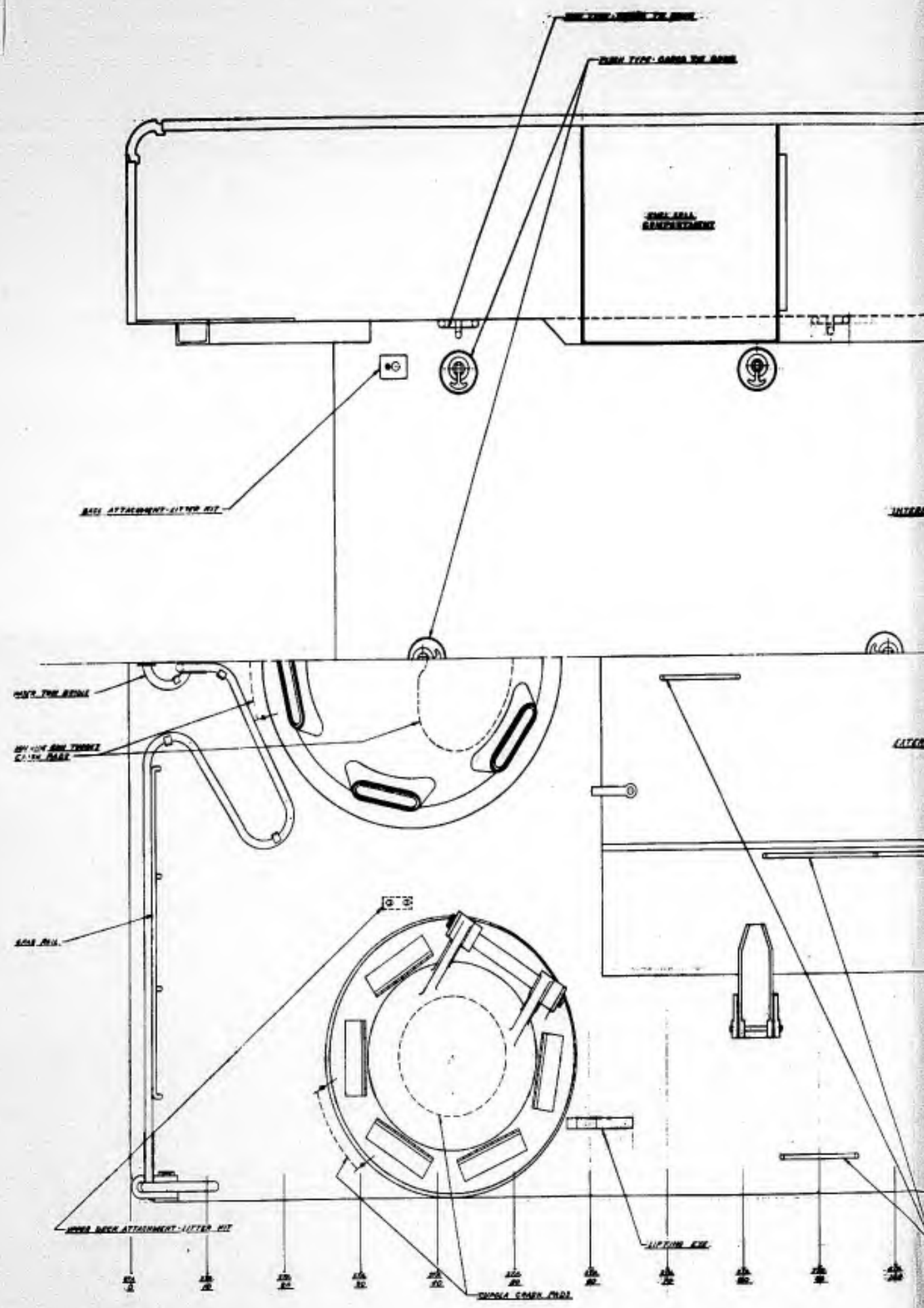


DATE: <del>          </del>	<i>R. Cosby</i>
DESIGNER: <del>          </del>	H. STREB
HEAT-TREAT: <del>          </del>	CHECKED: <del>          </del>
SURFACE FINISH EXCEPT AS NOTED: <input checked="" type="checkbox"/>	APPROVED: <i>[Signature]</i>
TOLERANCES: ORIGINAL ± FRACTIONAL ±	SCALE: NONE
ANGULAR ±	WEIGHT: <del>          </del>
UNLAK CORNERS TO UNLESS OTHERWISE SPECIFIED	CAN ACT: <del>          </del>

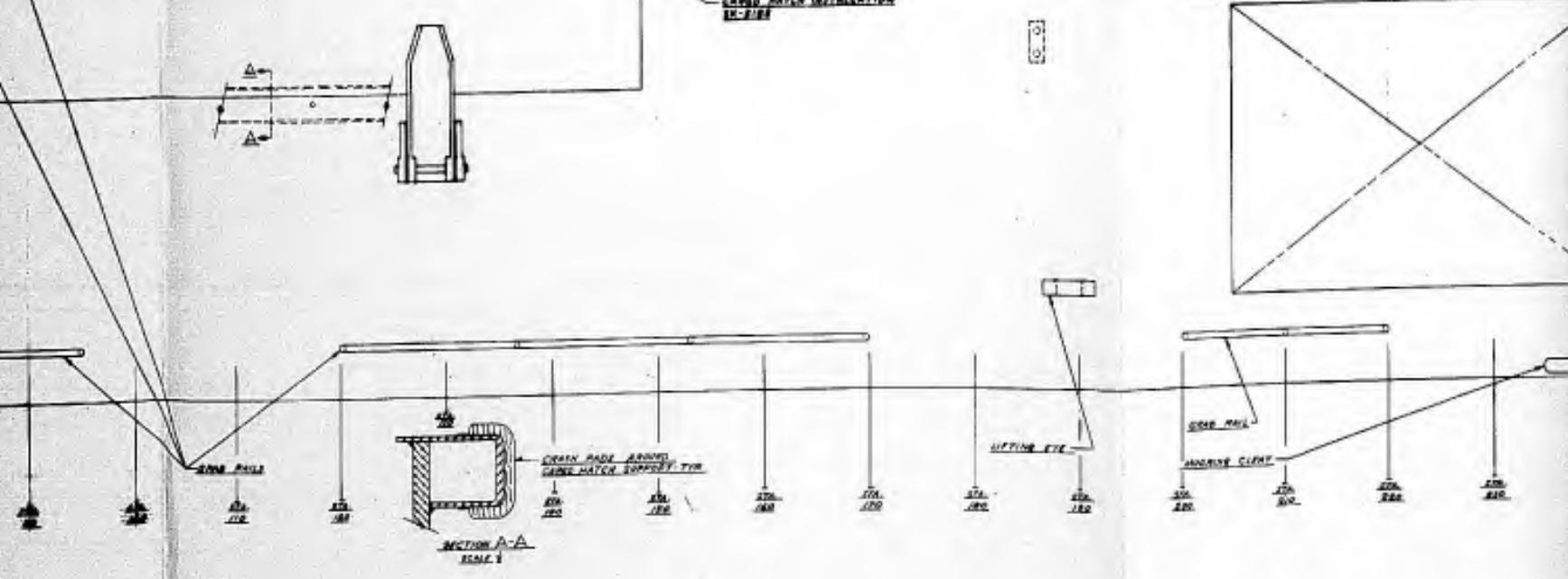
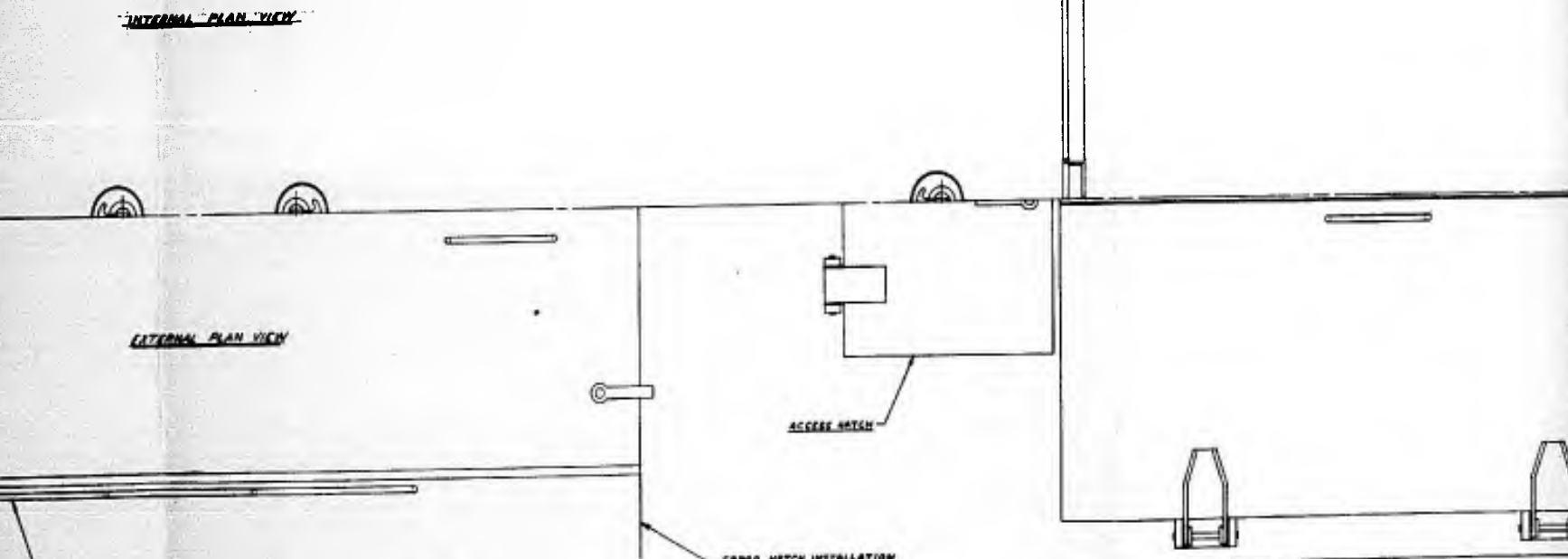
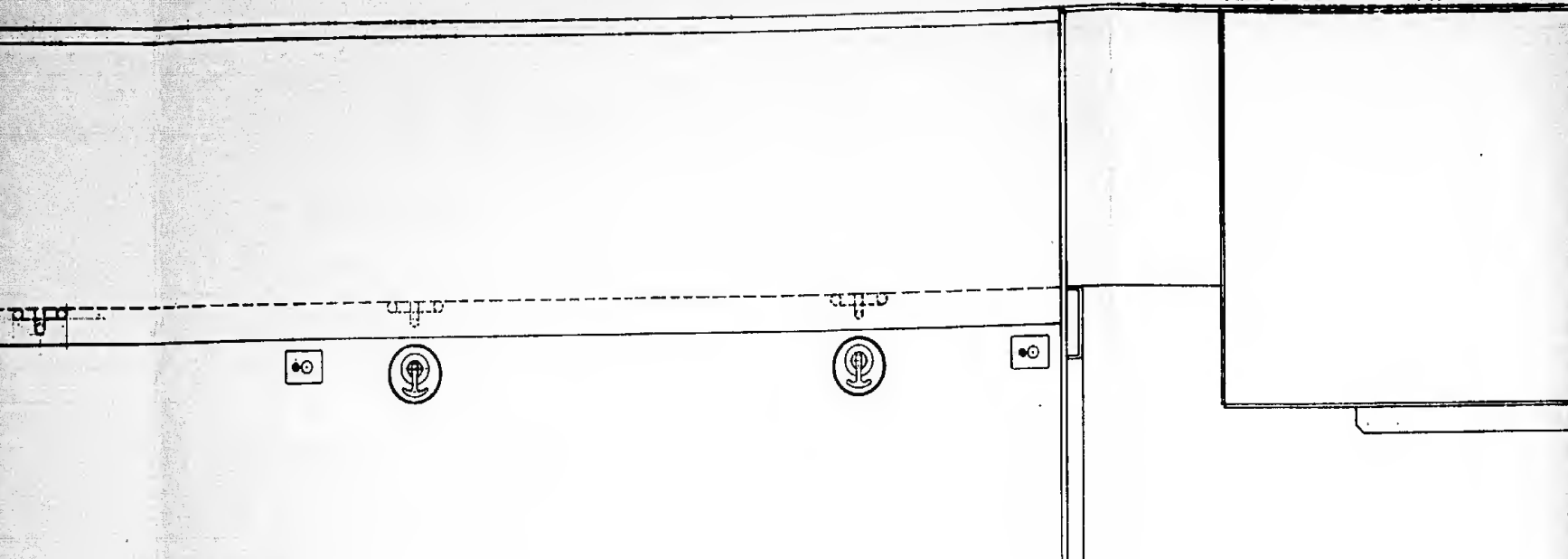


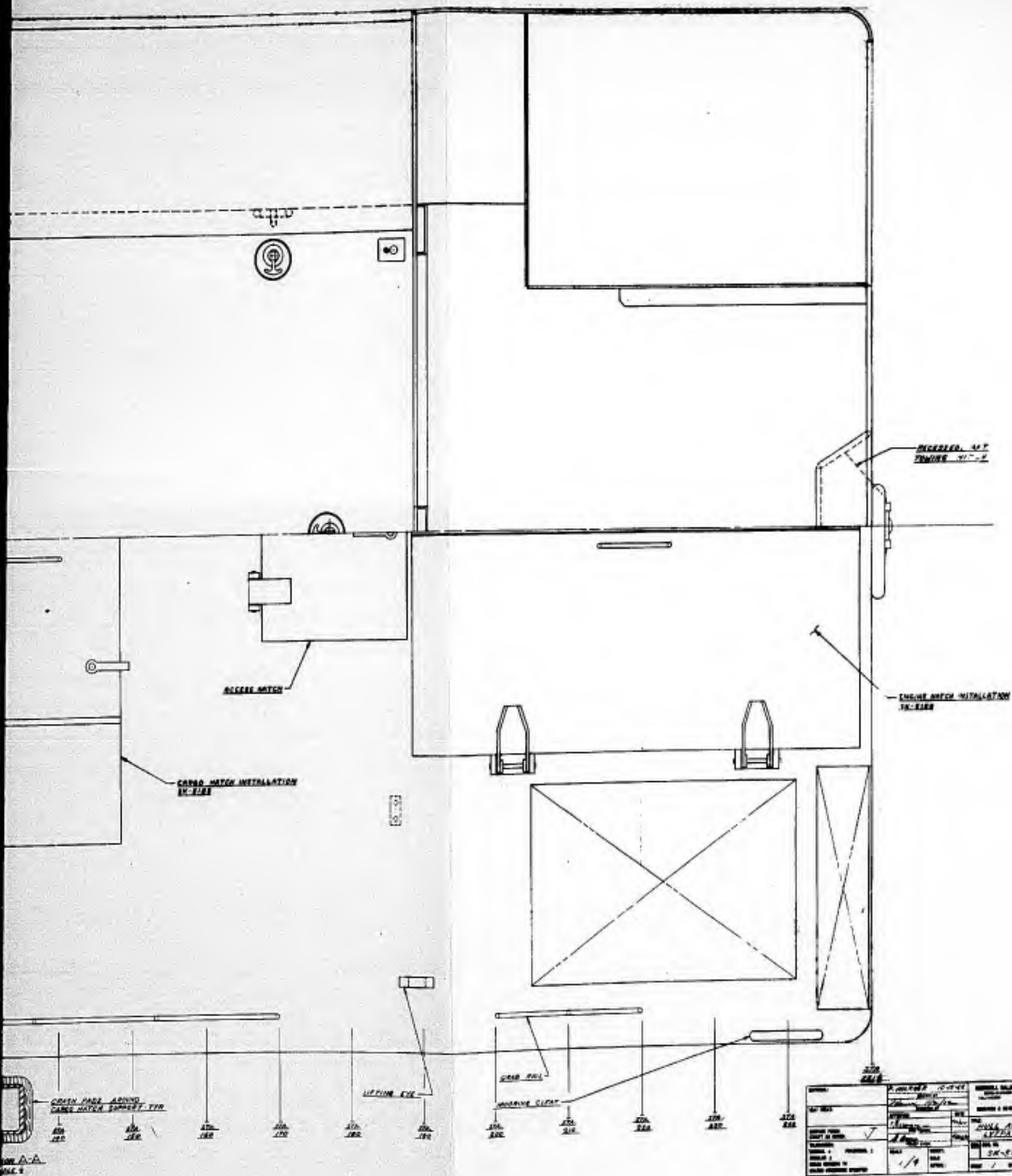
<del>MATERIAL:</del>	R. COSBY 10-15-62		INGERSOLL, KALAMAZOO DIVISION BORD-WARNER CORPORATION KALAMAZOO, MICHIGAN
	DRAWN BY		
<del>HEAT TREAT:</del>	H. STRES 10-16-62		RESEARCH & DEVELOPMENT SECTION
	CHECKED BY		
SURFACE FINISH EXCEPT AS NOTED: <input checked="" type="checkbox"/>	APPROVED	DATE	TITLE: LVTPXII LAND + WATER STABILITY
	<i>Chas. J. ...</i>	11/2/62	
TOLERANCES: ORIGINAL ±    FRACTIONAL ± ANGULAR ± BREAK CORNERS TO UNLESS OTHERWISE SPECIFIED	PROJ. ENGR.	DATE	DWG. NO. C 5K 5191
	<i>A. ...</i>	11/4/62	
	SCALE: NONE	WEIGHT: CALC: ACTUAL:	SHEET 1 OF 1 SHEETS

1



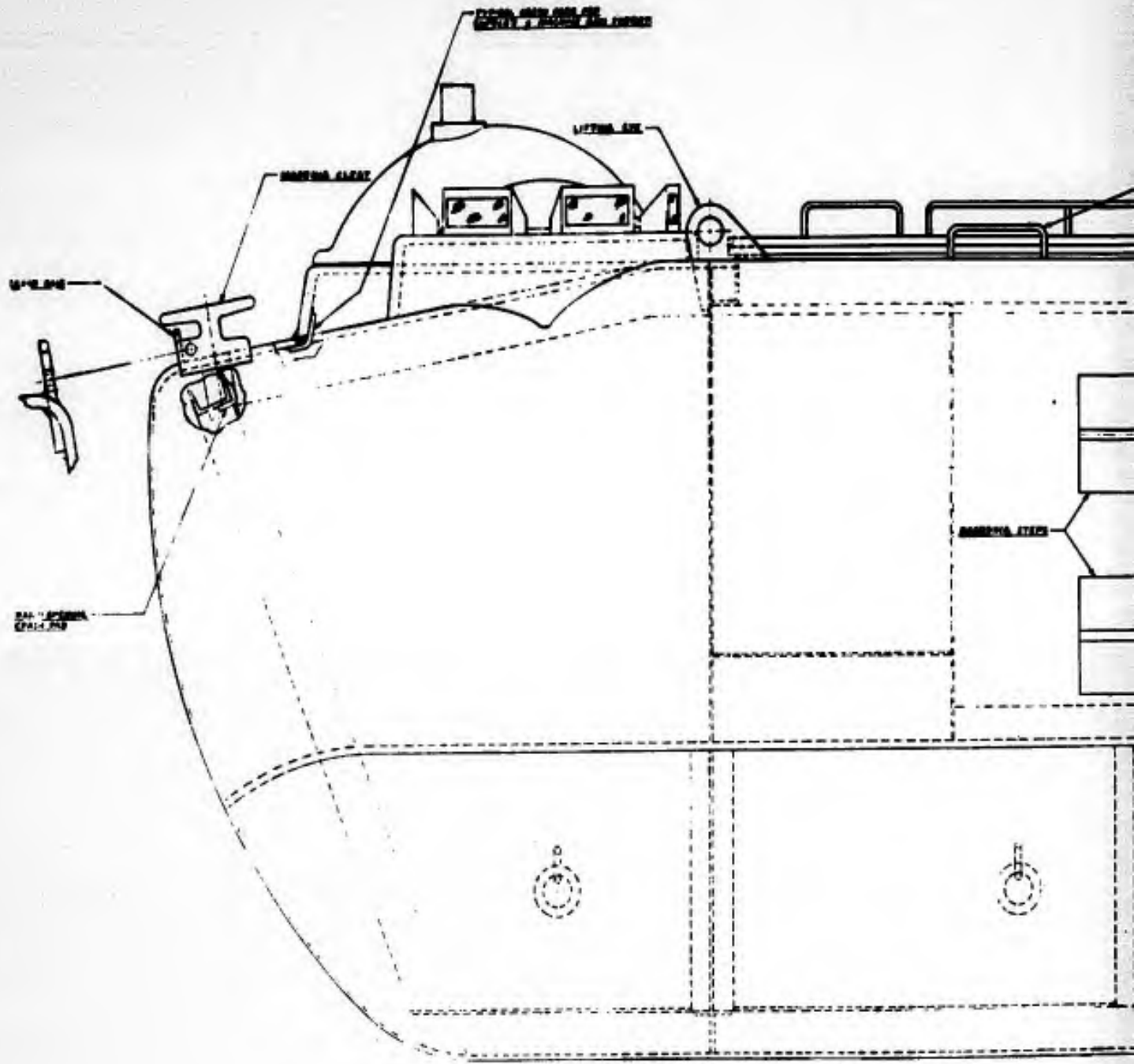
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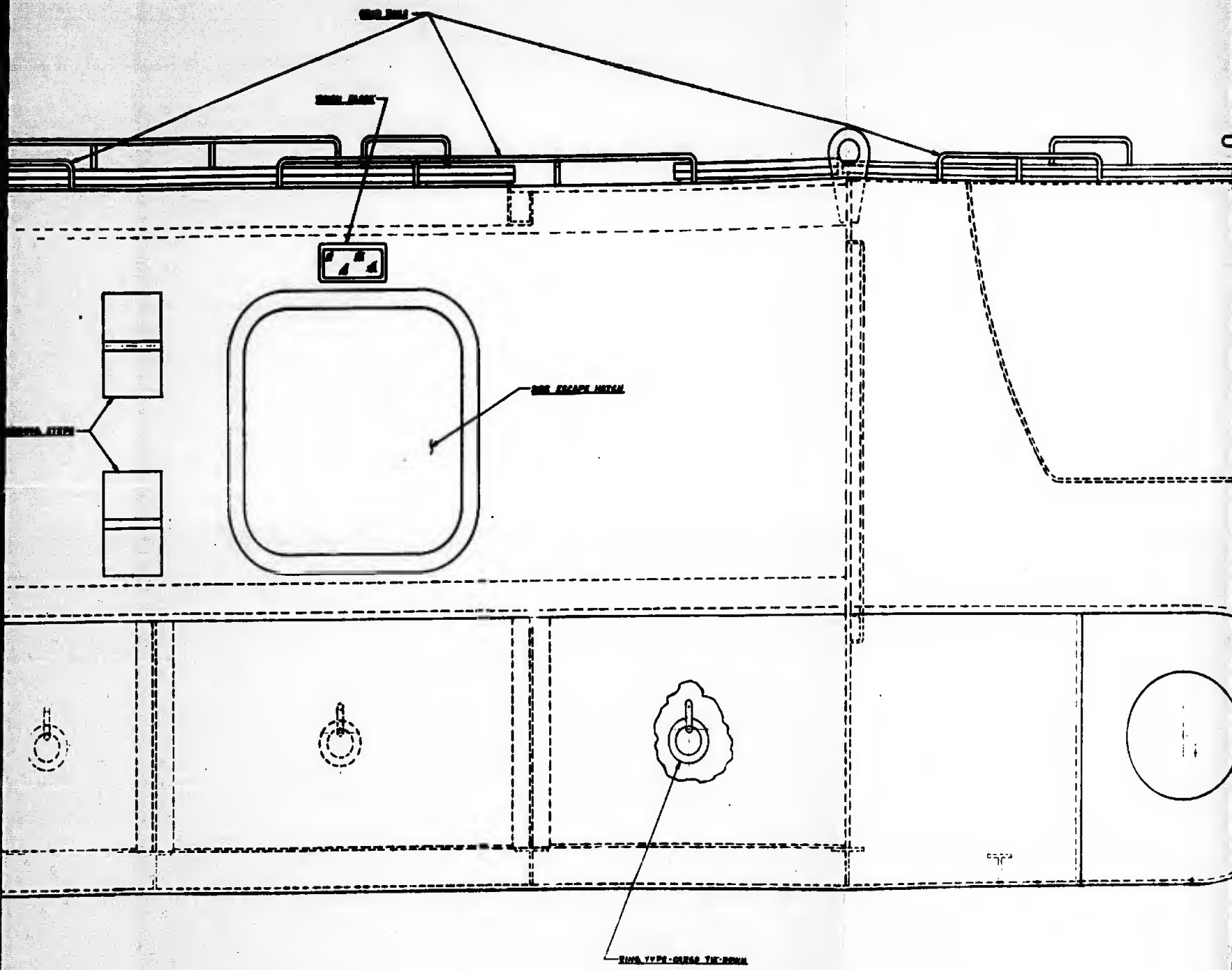


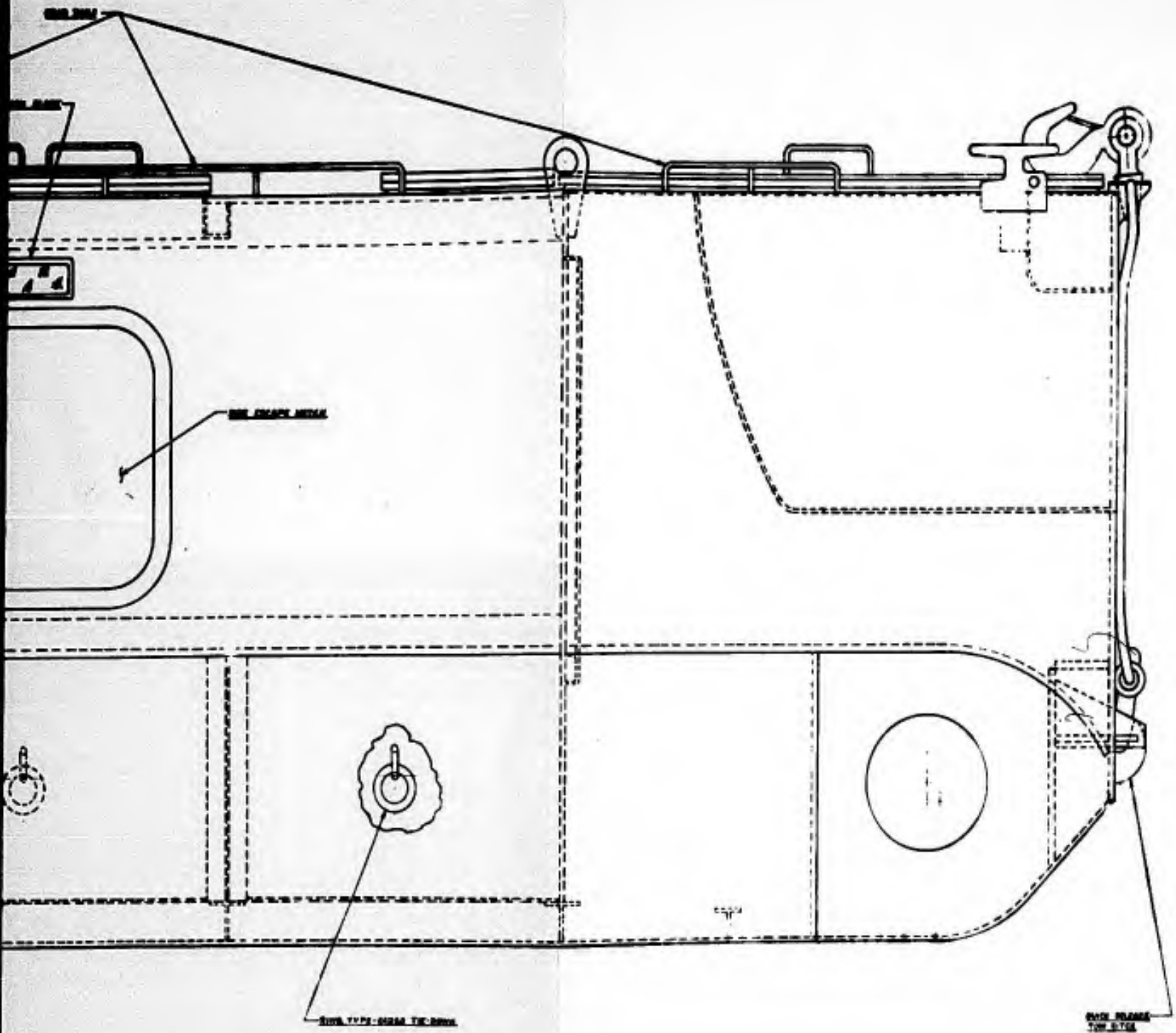
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REV. 4	REV. 4	DATE 10/1/54	BY J. W. B.
REV. 5	REV. 5	DATE 10/1/54	BY J. W. B.
REV. 6	REV. 6	DATE 10/1/54	BY J. W. B.
REV. 7	REV. 7	DATE 10/1/54	BY J. W. B.
REV. 8	REV. 8	DATE 10/1/54	BY J. W. B.
REV. 9	REV. 9	DATE 10/1/54	BY J. W. B.
REV. 10	REV. 10	DATE 10/1/54	BY J. W. B.
REV. 11	REV. 11	DATE 10/1/54	BY J. W. B.
REV. 12	REV. 12	DATE 10/1/54	BY J. W. B.
REV. 13	REV. 13	DATE 10/1/54	BY J. W. B.
REV. 14	REV. 14	DATE 10/1/54	BY J. W. B.
REV. 15	REV. 15	DATE 10/1/54	BY J. W. B.
REV. 16	REV. 16	DATE 10/1/54	BY J. W. B.
REV. 17	REV. 17	DATE 10/1/54	BY J. W. B.
REV. 18	REV. 18	DATE 10/1/54	BY J. W. B.
REV. 19	REV. 19	DATE 10/1/54	BY J. W. B.
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REV. 22	REV. 22	DATE 10/1/54	BY J. W. B.
REV. 23	REV. 23	DATE 10/1/54	BY J. W. B.
REV. 24	REV. 24	DATE 10/1/54	BY J. W. B.
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REV. 26	REV. 26	DATE 10/1/54	BY J. W. B.
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REV. 31	REV. 31	DATE 10/1/54	BY J. W. B.
REV. 32	REV. 32	DATE 10/1/54	BY J. W. B.
REV. 33	REV. 33	DATE 10/1/54	BY J. W. B.
REV. 34	REV. 34	DATE 10/1/54	BY J. W. B.
REV. 35	REV. 35	DATE 10/1/54	BY J. W. B.
REV. 36	REV. 36	DATE 10/1/54	BY J. W. B.
REV. 37	REV. 37	DATE 10/1/54	BY J. W. B.
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REV. 72	REV. 72	DATE 10/1/54	BY J. W. B.
REV. 73	REV. 73	DATE 10/1/54	BY J. W. B.
REV. 74	REV. 74	DATE 10/1/54	BY J. W. B.
REV. 75	REV. 75	DATE 10/1/54	BY J. W. B.
REV. 76	REV. 76	DATE 10/1/54	BY J. W. B.
REV. 77	REV. 77	DATE 10/1/54	BY J. W. B.
REV. 78	REV. 78	DATE 10/1/54	BY J. W. B.
REV. 79	REV. 79	DATE 10/1/54	BY J. W. B.
REV. 80	REV. 80	DATE 10/1/54	BY J. W. B.
REV. 81	REV. 81	DATE 10/1/54	BY J. W. B.
REV. 82	REV. 82	DATE 10/1/54	BY J. W. B.
REV. 83	REV. 83	DATE 10/1/54	BY J. W. B.
REV. 84	REV. 84	DATE 10/1/54	BY J. W. B.
REV. 85	REV. 85	DATE 10/1/54	BY J. W. B.
REV. 86	REV. 86	DATE 10/1/54	BY J. W. B.
REV. 87	REV. 87	DATE 10/1/54	BY J. W. B.
REV. 88	REV. 88	DATE 10/1/54	BY J. W. B.
REV. 89	REV. 89	DATE 10/1/54	BY J. W. B.
REV. 90	REV. 90	DATE 10/1/54	BY J. W. B.
REV. 91	REV. 91	DATE 10/1/54	BY J. W. B.
REV. 92	REV. 92	DATE 10/1/54	BY J. W. B.
REV. 93	REV. 93	DATE 10/1/54	BY J. W. B.
REV. 94	REV. 94	DATE 10/1/54	BY J. W. B.
REV. 95	REV. 95	DATE 10/1/54	BY J. W. B.
REV. 96	REV. 96	DATE 10/1/54	BY J. W. B.
REV. 97	REV. 97	DATE 10/1/54	BY J. W. B.
REV. 98	REV. 98	DATE 10/1/54	BY J. W. B.
REV. 99	REV. 99	DATE 10/1/54	BY J. W. B.
REV. 100	REV. 100	DATE 10/1/54	BY J. W. B.

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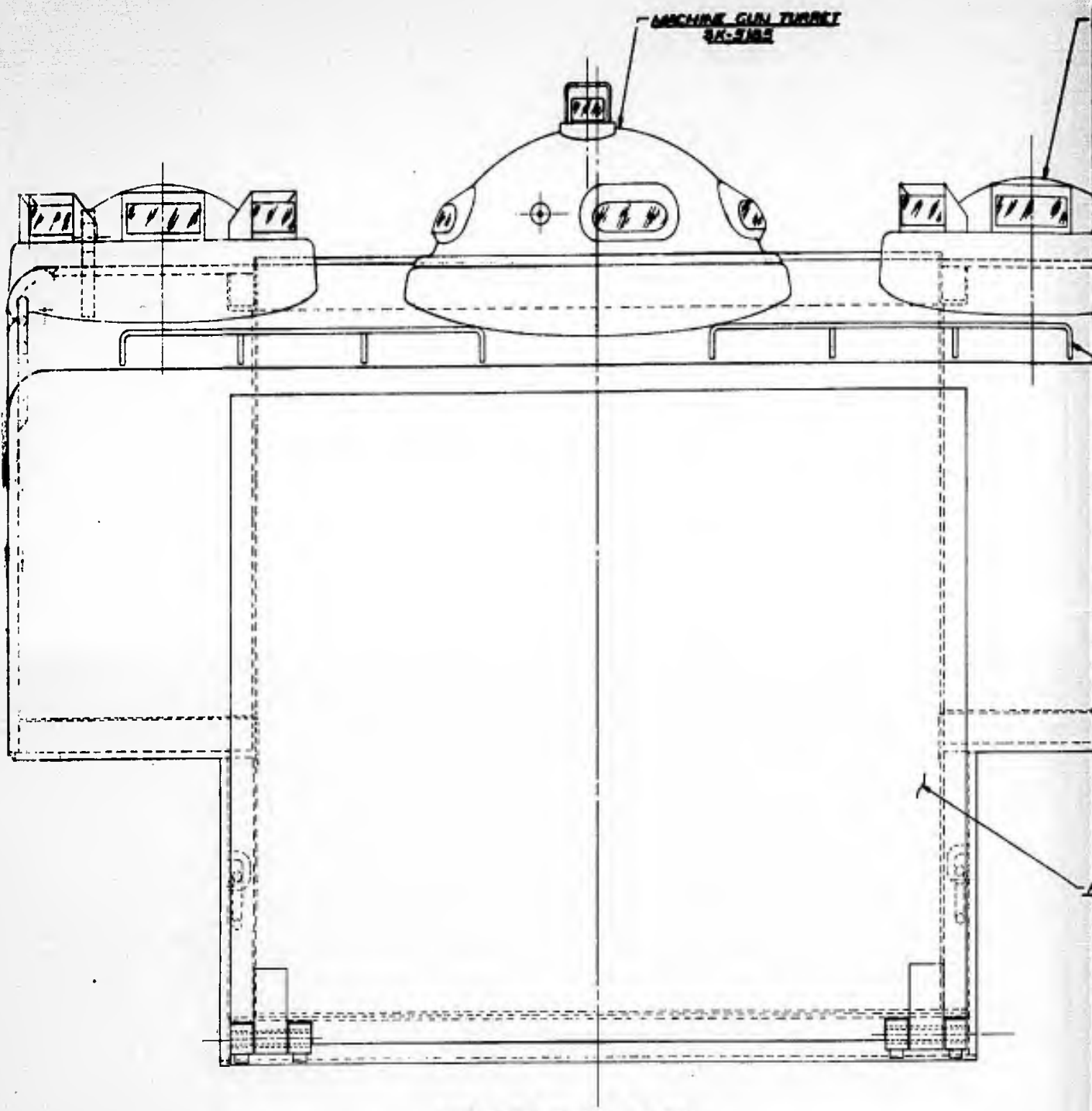
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DATE	10/1/76	REVISION	1
BY	J. J. [Signature]	CHKD	[Signature]
APP'D	[Signature]	DATE	10/1/76
DESCRIPTION	SIDE FRAME TOP 3-76		
PROJECT	SK-5192		
SCALE	1/4"		
DRWING NO.	1		
REV.	1		
DATE	10/1/76		
BY	J. J. [Signature]		
CHKD	[Signature]		
APP'D	[Signature]		
DATE	10/1/76		

1



EXTERIOR VIEW OF BOW

2

DRIVERS CUPOLA  
SX-5102

MOORING CLEAT

GRAB RAIL

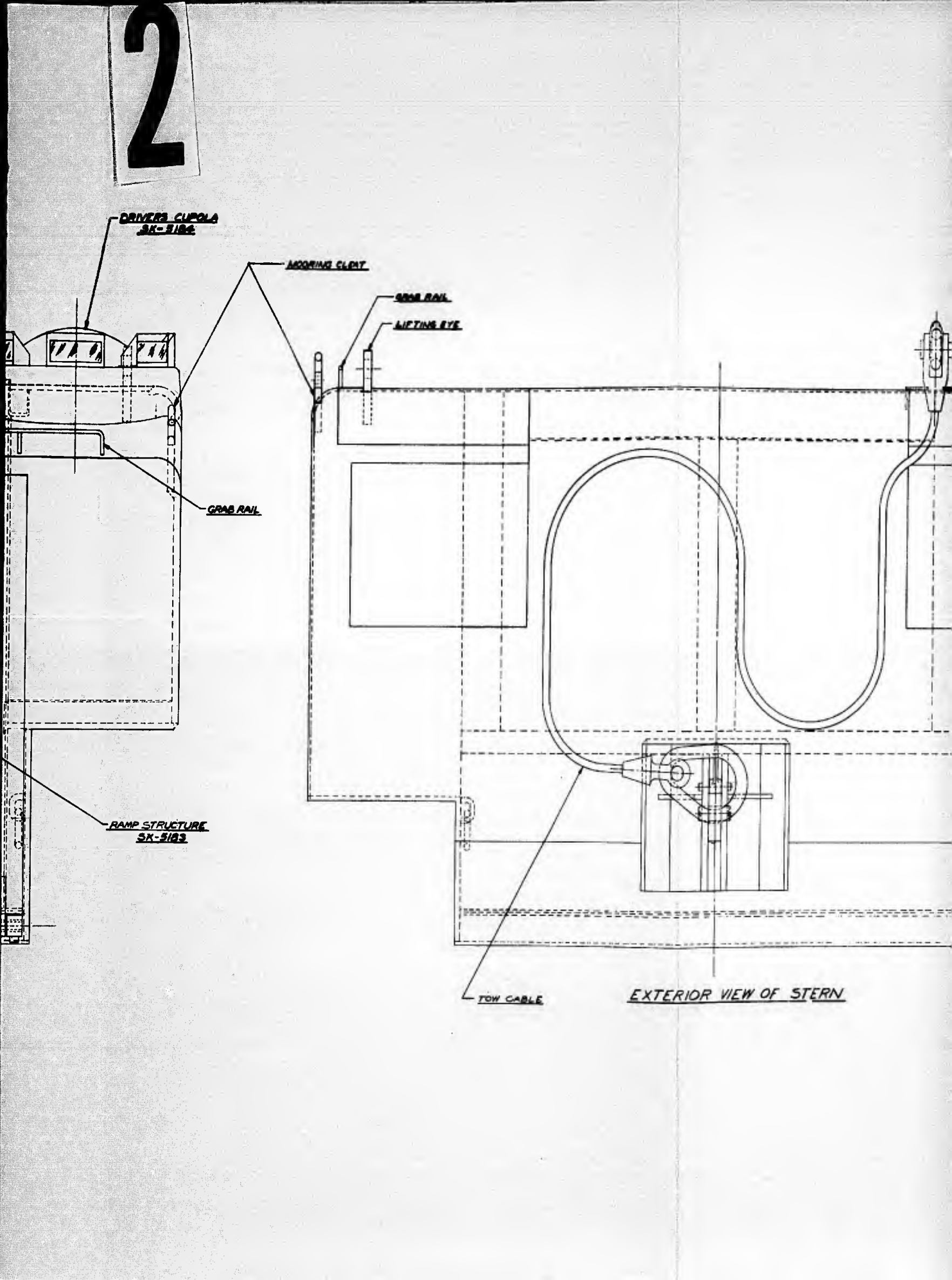
LIFTING EYE

GRAB RAIL

RAMP STRUCTURE  
SX-5103

TOW CABLE

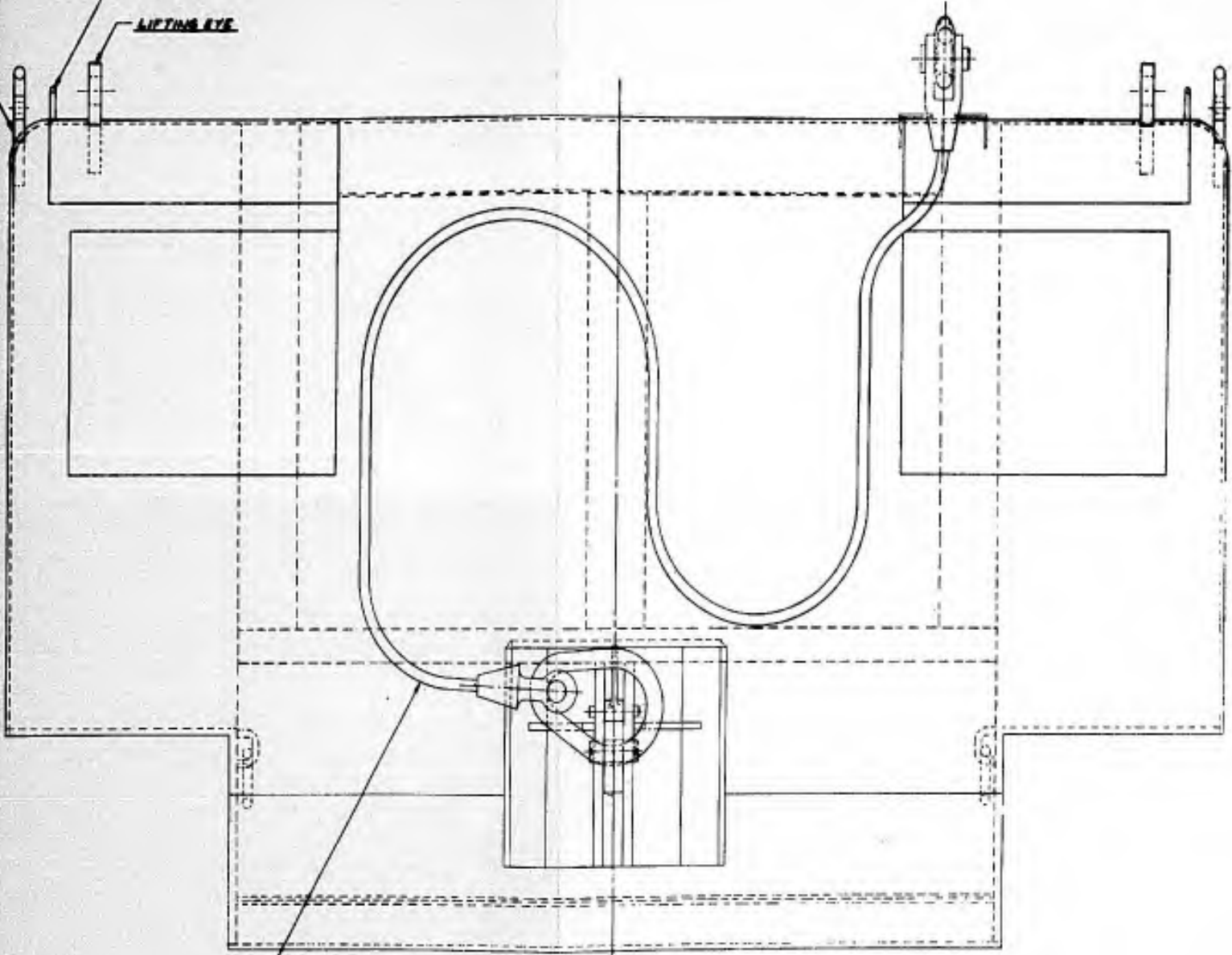
EXTERIOR VIEW OF STERN



ORING CLAMP

ORING RAIL

LIFTING EYE

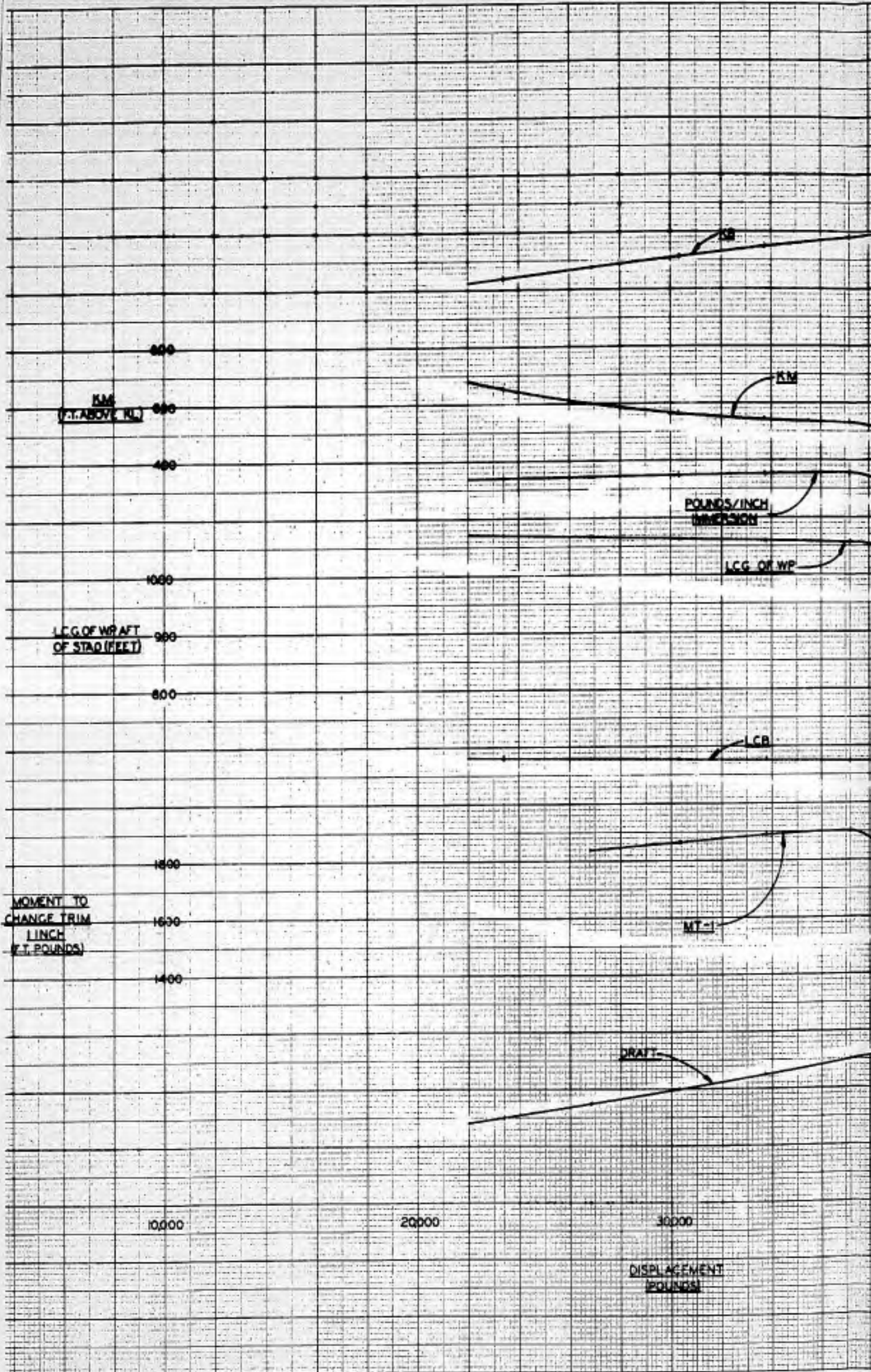


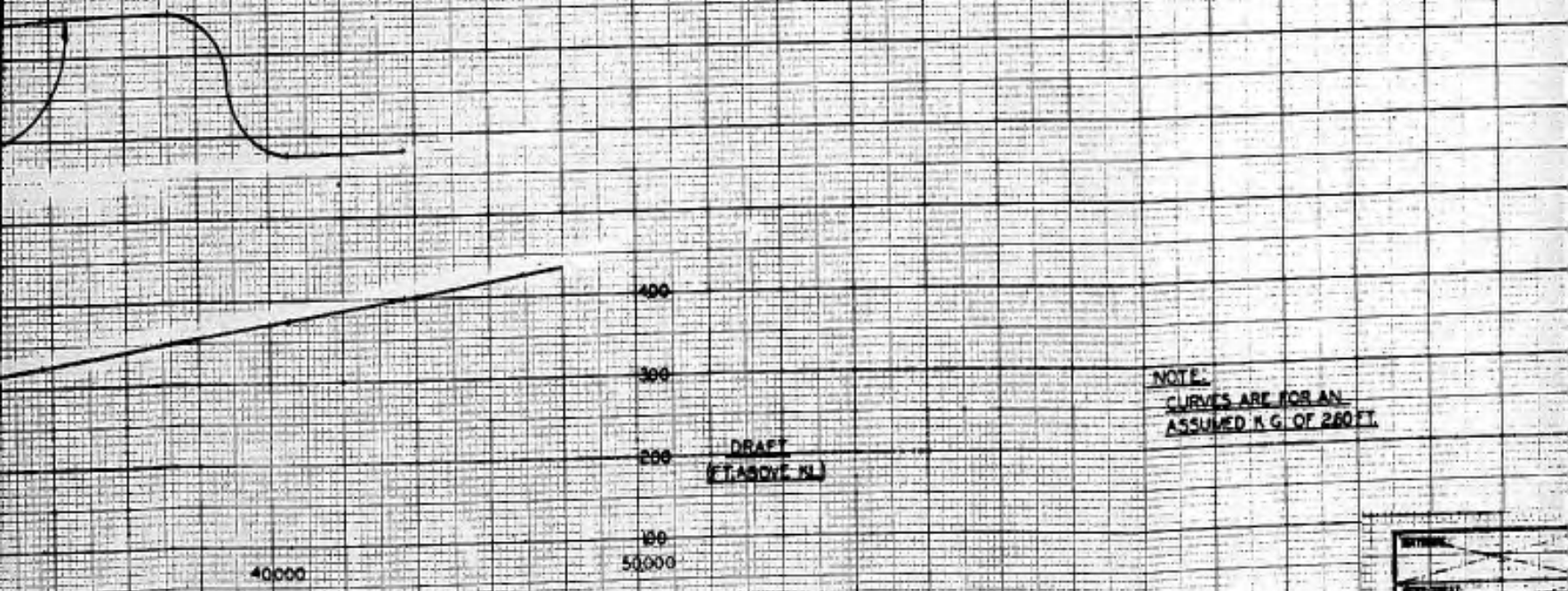
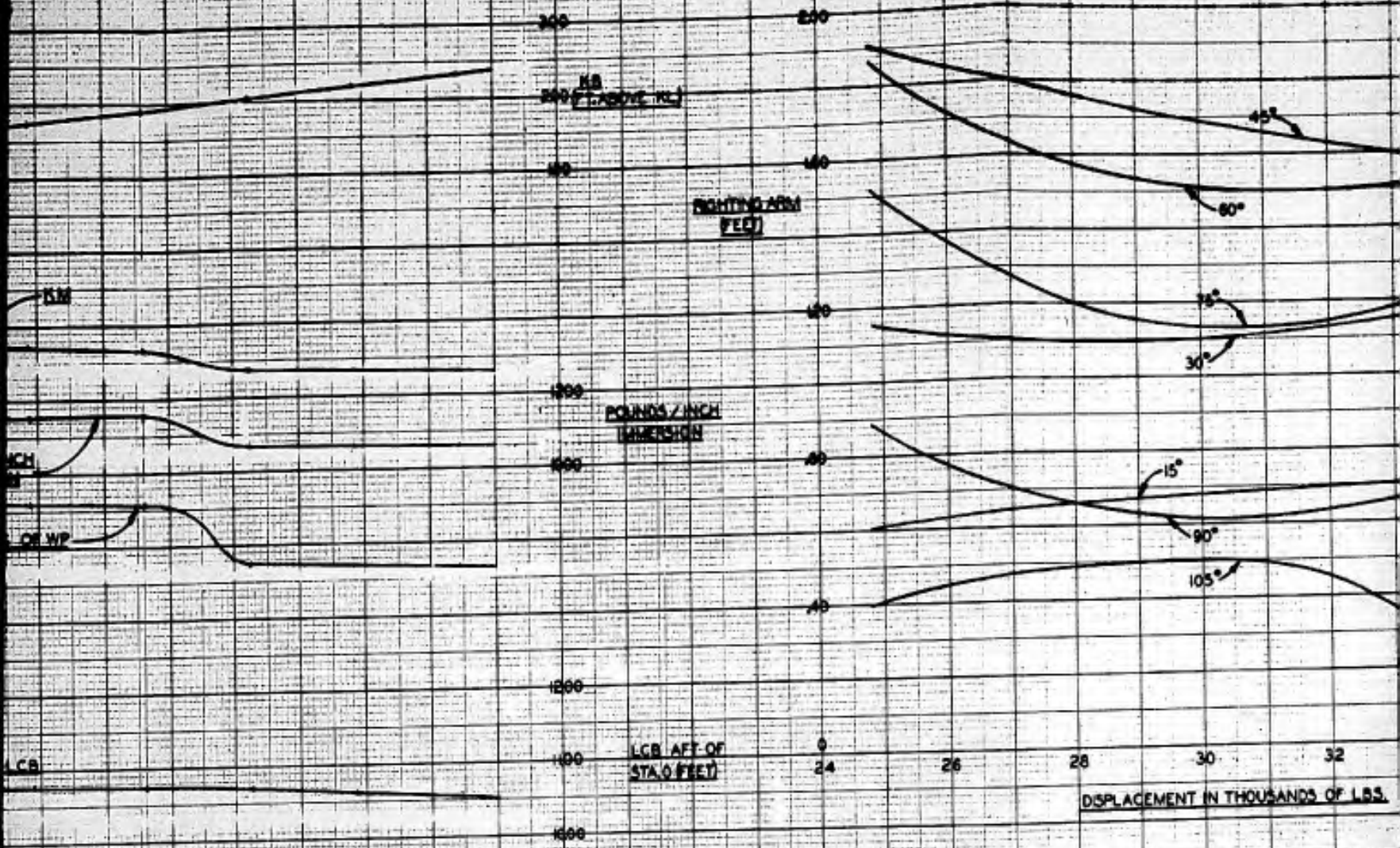
TON CABLE

EXTERIOR VIEW OF STERN

DATE:	21. August 1952	DESIGNER:	W. J. ...	SCALE:	1/4"	NO.:	3
BY:	...	CHECKED:	...	DATE:	...	BY:	...
APPROVED:	✓	DESIGNED:	...	DATE:	...	BY:	...
REVISIONS:		APPROVED:	...	DATE:	...	BY:	...
NO. 1 FACTORY:		SCALE:	1/4"	NO.:	3	OF:	3
NO. 2:		DATE:	...	NO.:	...	OF:	...
NO. 3:		DATE:	...	NO.:	...	OF:	...
NO. 4:		DATE:	...	NO.:	...	OF:	...

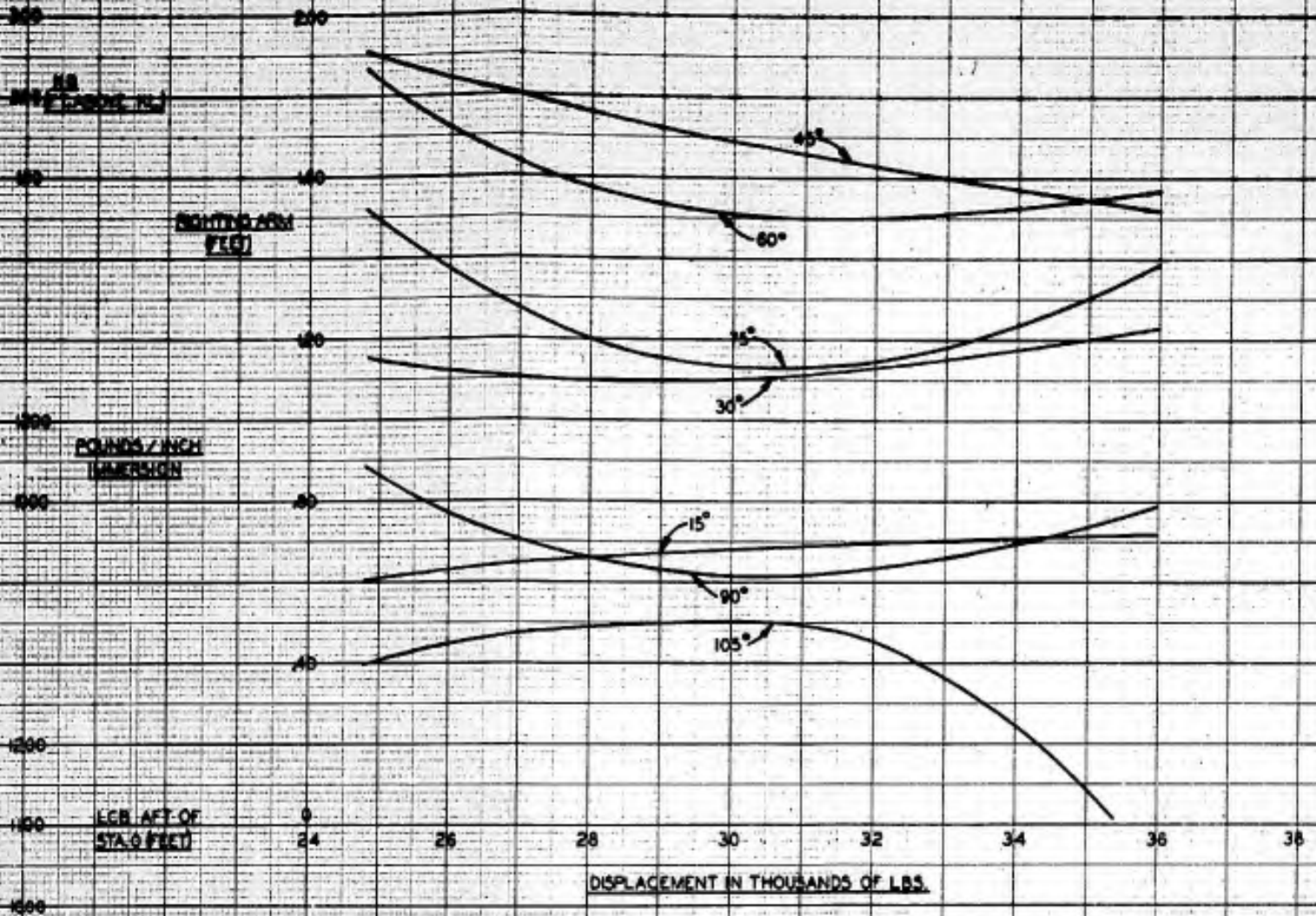
# 1





NOTE:  
CURVES ARE FOR AN  
ASSUMED K.G. OF 260 FT.

ENTIRE	
REMAINING	
SURFACE FINISH	
DRAFT AS NOTED	
PERMANENT	PERMANENT
TEMPORARY	TEMPORARY
SHEAR CORRECTION TO	
UNLESS OTHERWISE SPECIFIED	



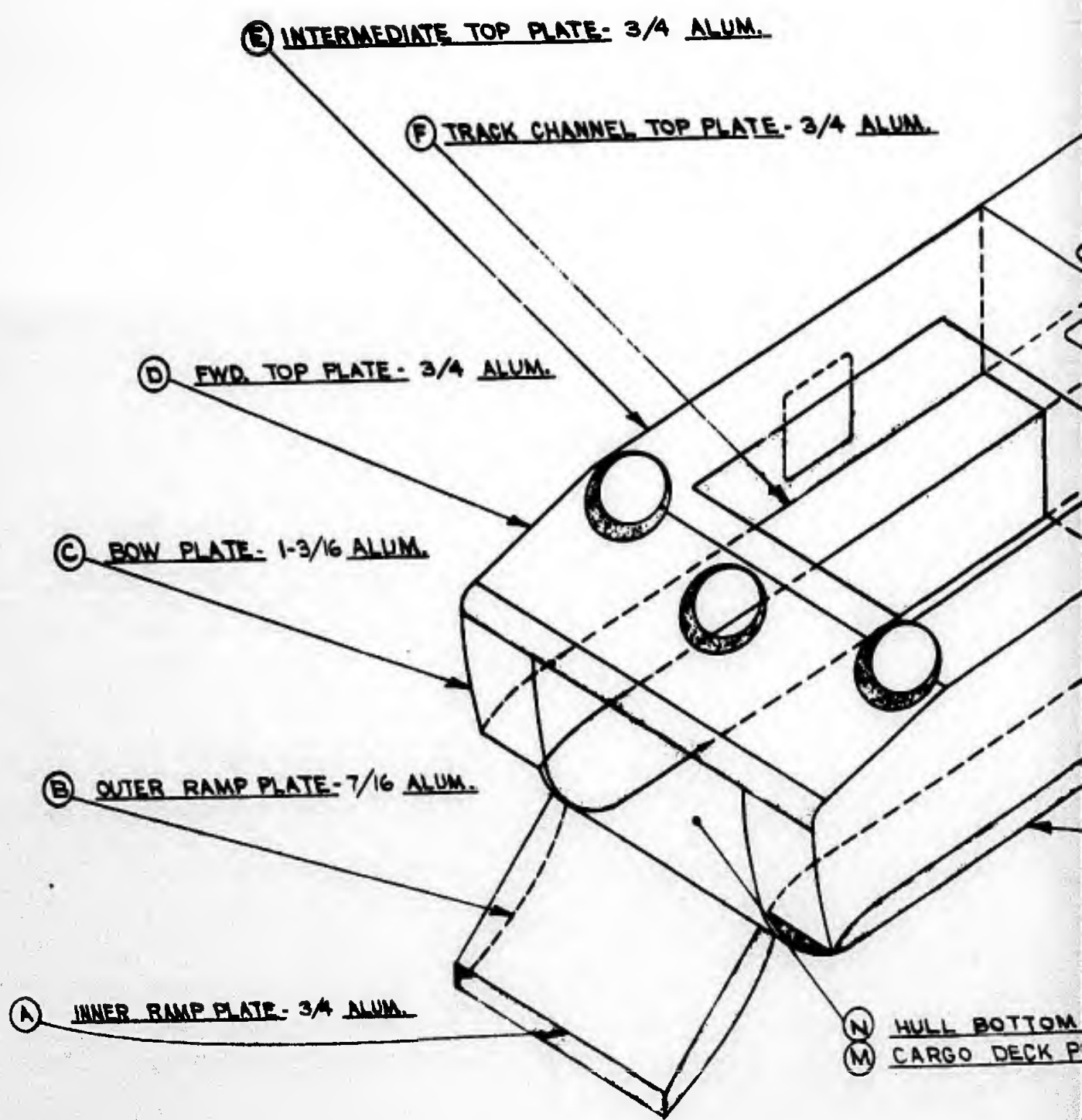
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DRAFT  
(TABLE KL)

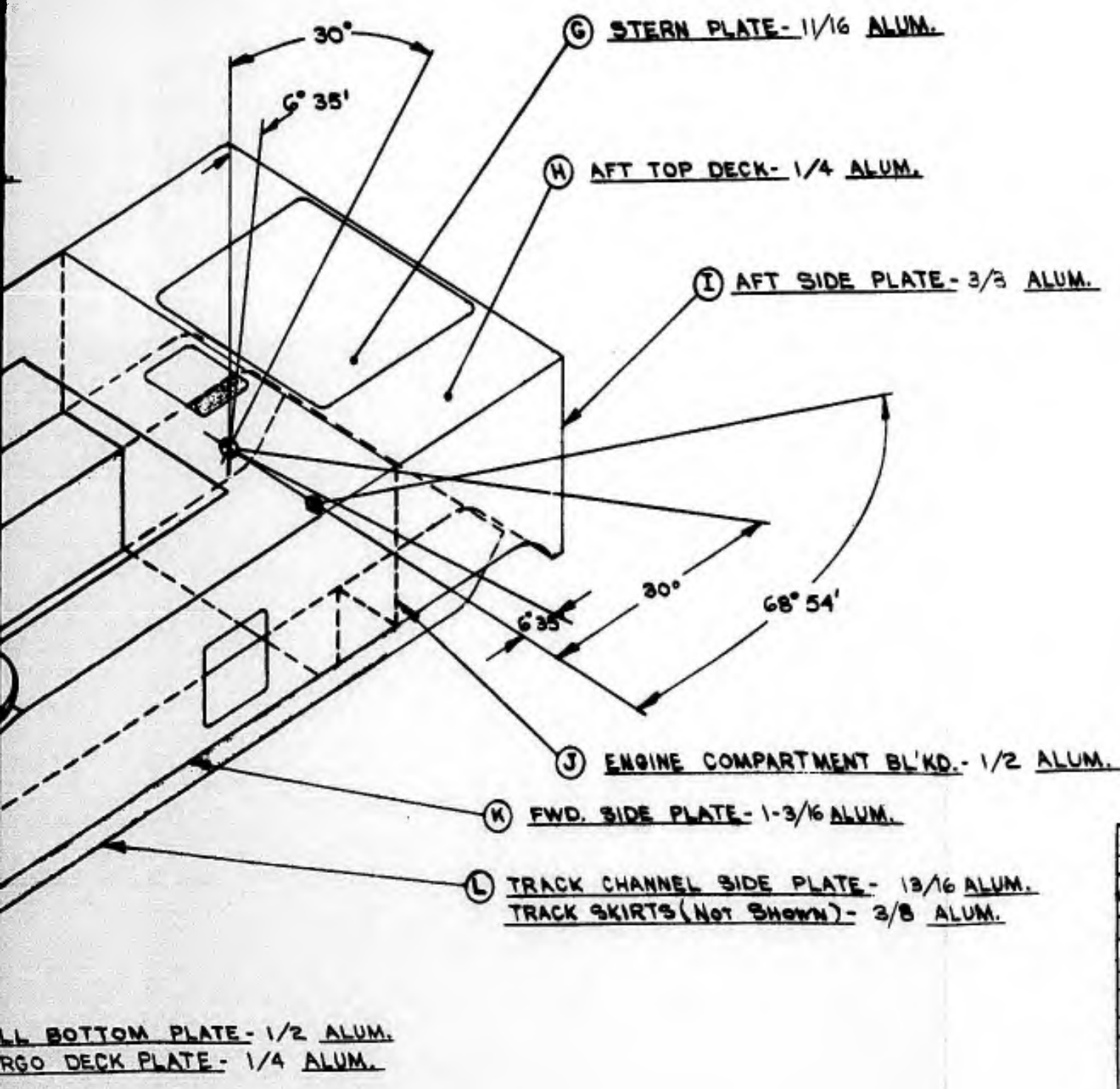
**NOTE:**  
CURVES ARE FOR AN  
ASSUMED K.G. OF 260 FT.

DESIGNED BY <i>[Signature]</i>	DATE 11/20/60	ENGINEER H. STEIN	SCALE 1" = 10' L.S.	REVISIONS
CHECKED BY <i>[Signature]</i>	DATE	APPROVED BY <i>[Signature]</i>	DATE	
SURFACE FINISH EXCEPT AS NOTED: <input checked="" type="checkbox"/>		PROJECT NO. 1120-00		
DESIGNED BY	DATE	SCALE	PROJECT	NO. OF SHEETS
CHECKED BY	DATE	SCALE	PROJECT	
APPROVED BY	DATE	SCALE	PROJECT	
TITLE CALIBRATION DIVISION ALL CURVES CHECKED		SHEET NO. 5K-5/75		

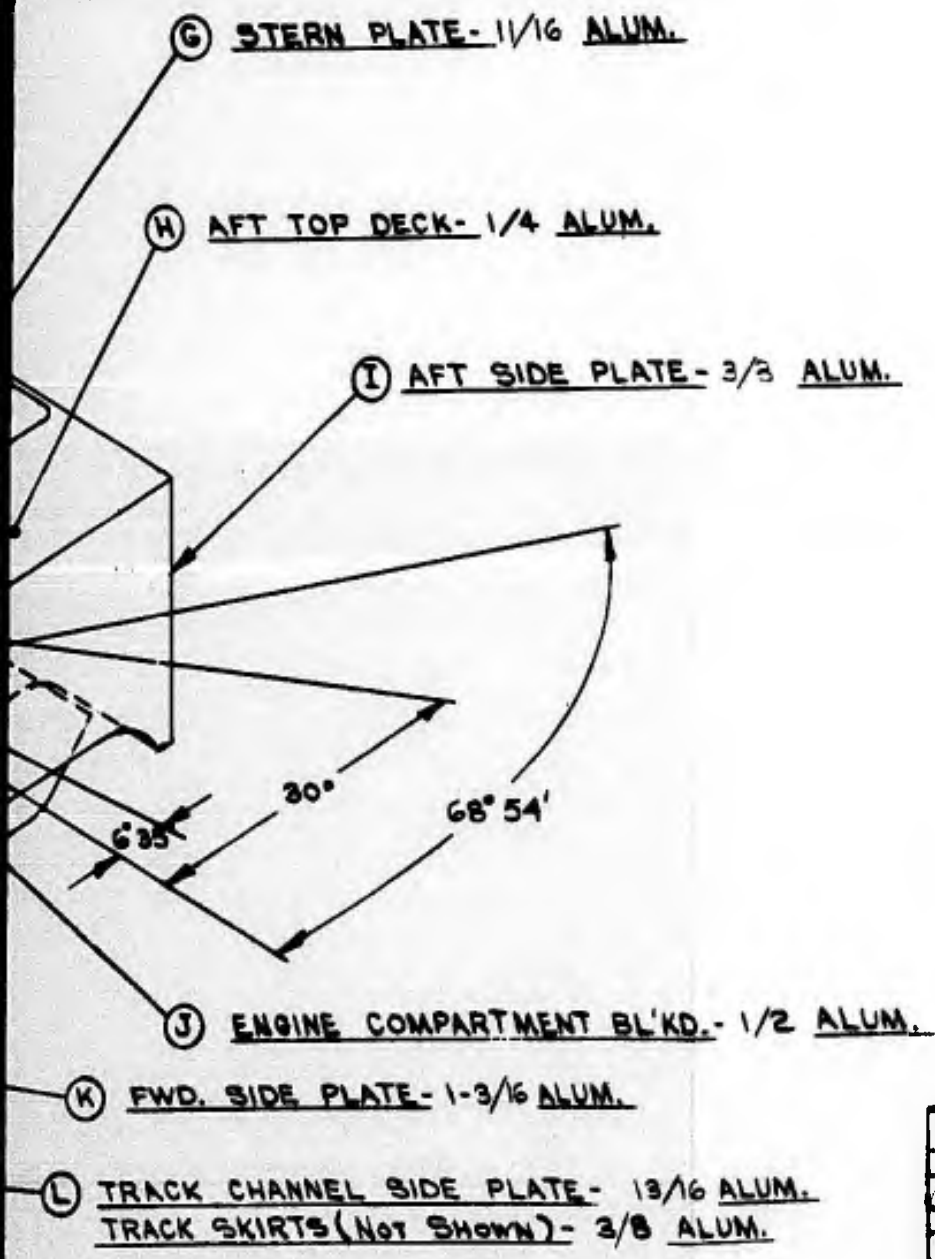
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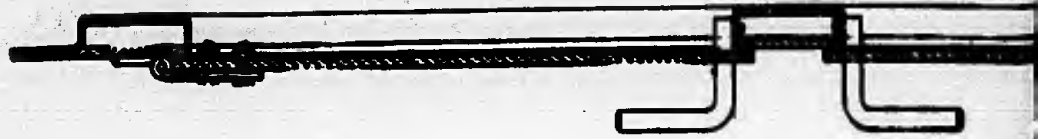
H. STREB 8-	
DRAWN BY	
<i>Williams</i>	
CHECKED BY	
APPROVED	
<i>Boyer</i>	
PROJ. ENGR.	
<i>Boyer</i>	
CHIEF ENGR.	
SCALE:	WEIGHT:
	CALC:
	ACTUAL:



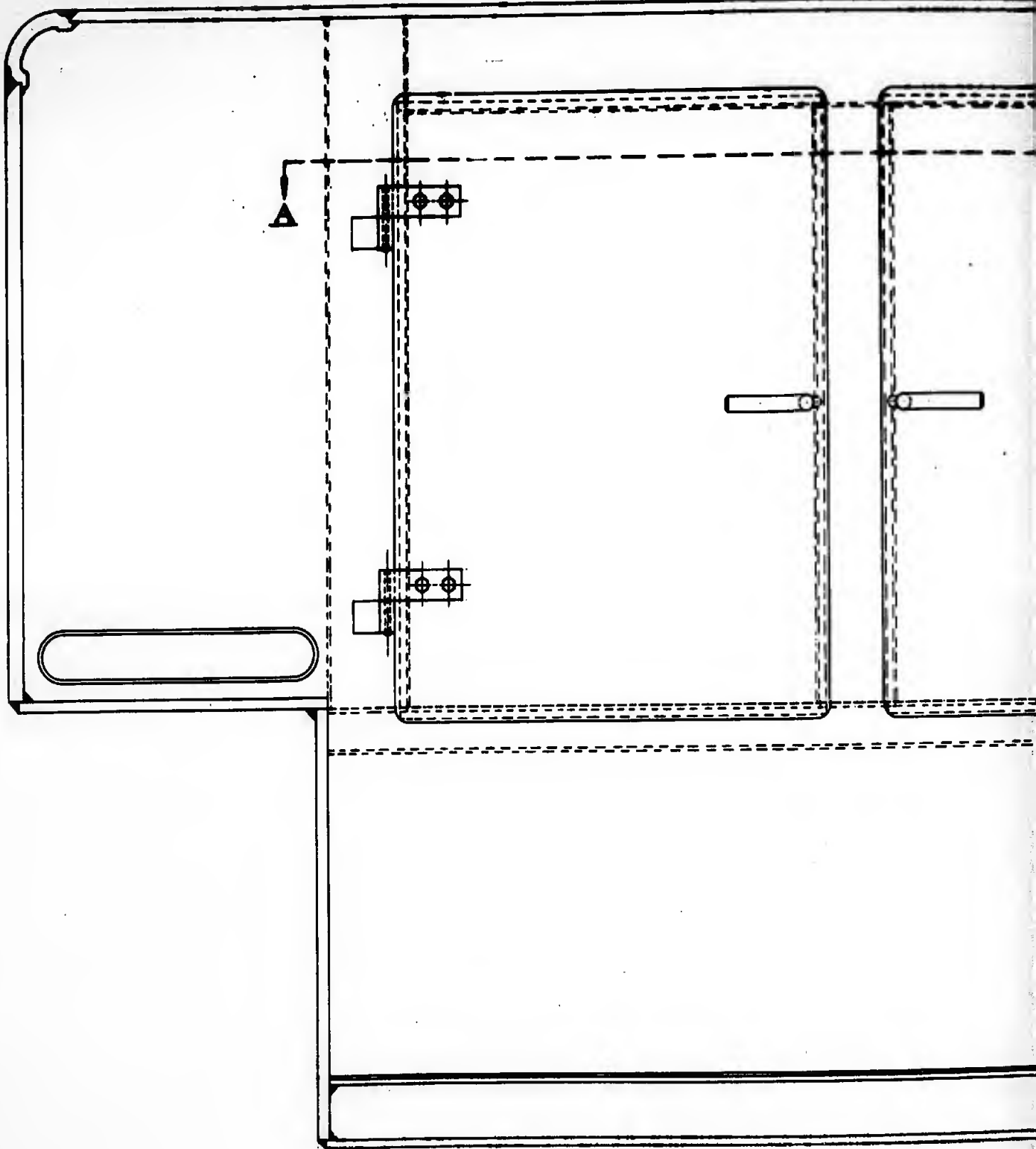
CONTRACT 4561

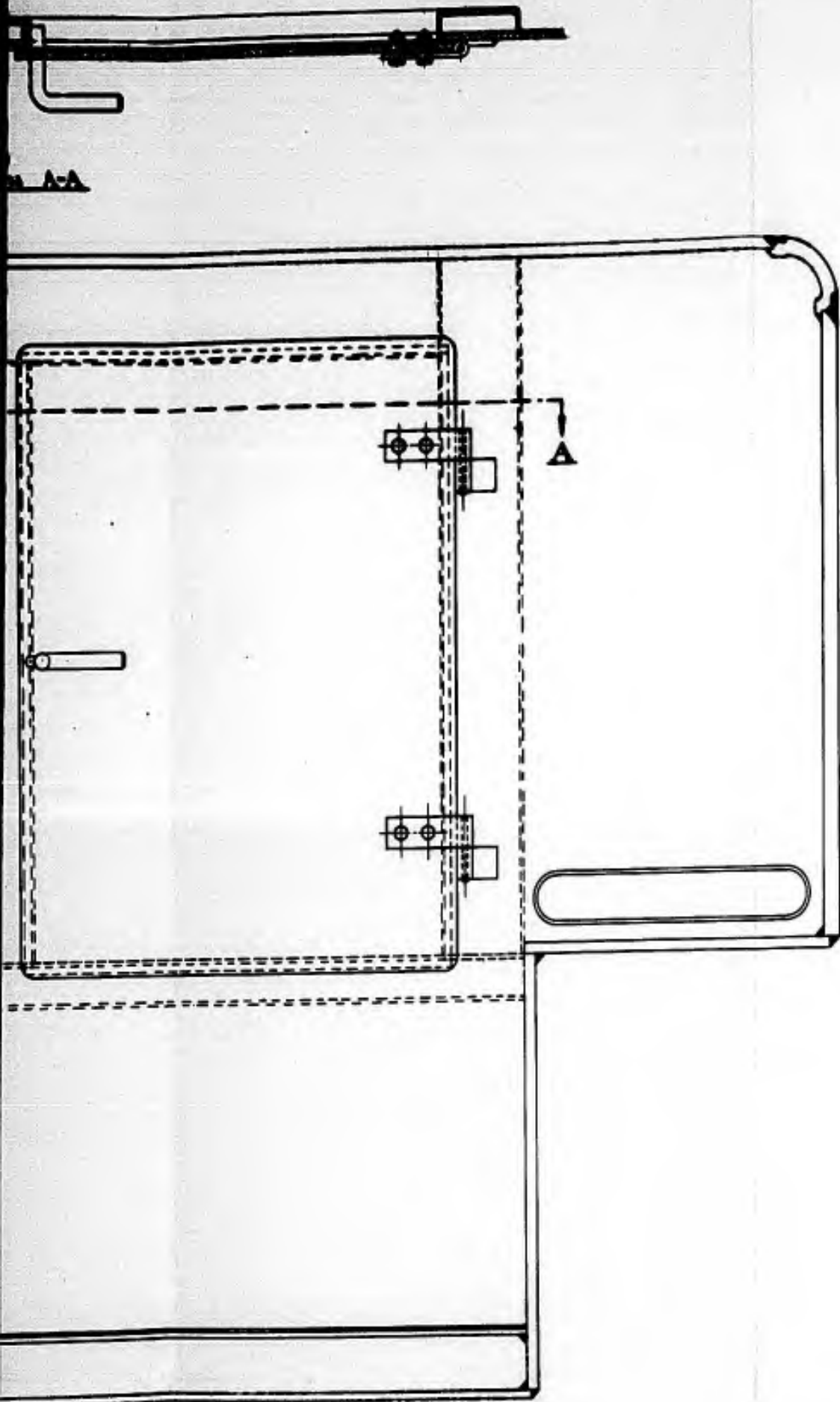
H. STREB 8-21-62		INGERSOLL KALAMAZOO DIVISION	
DRAWN BY		BOGOWARNER CORPORATION	
<i>William</i> 11/2/62		KALAMAZOO MICHIGAN	
CHECKED BY		RESEARCH & DEVELOPMENT SECTION	
APPROVED	DATE	TITLE: <u>LVTPXII</u> <u>HULL PLATES</u>	
<i>Keenan</i> PROF. ENGR.	11/2/62		
<i>Boyer</i> CHIEF ENGR.	11/2/62	DWG. NO. SK-5194	
SCALE:	WEIGHT: CALC: ACTUAL:	SHEET 1 OF 1 SHEETS	

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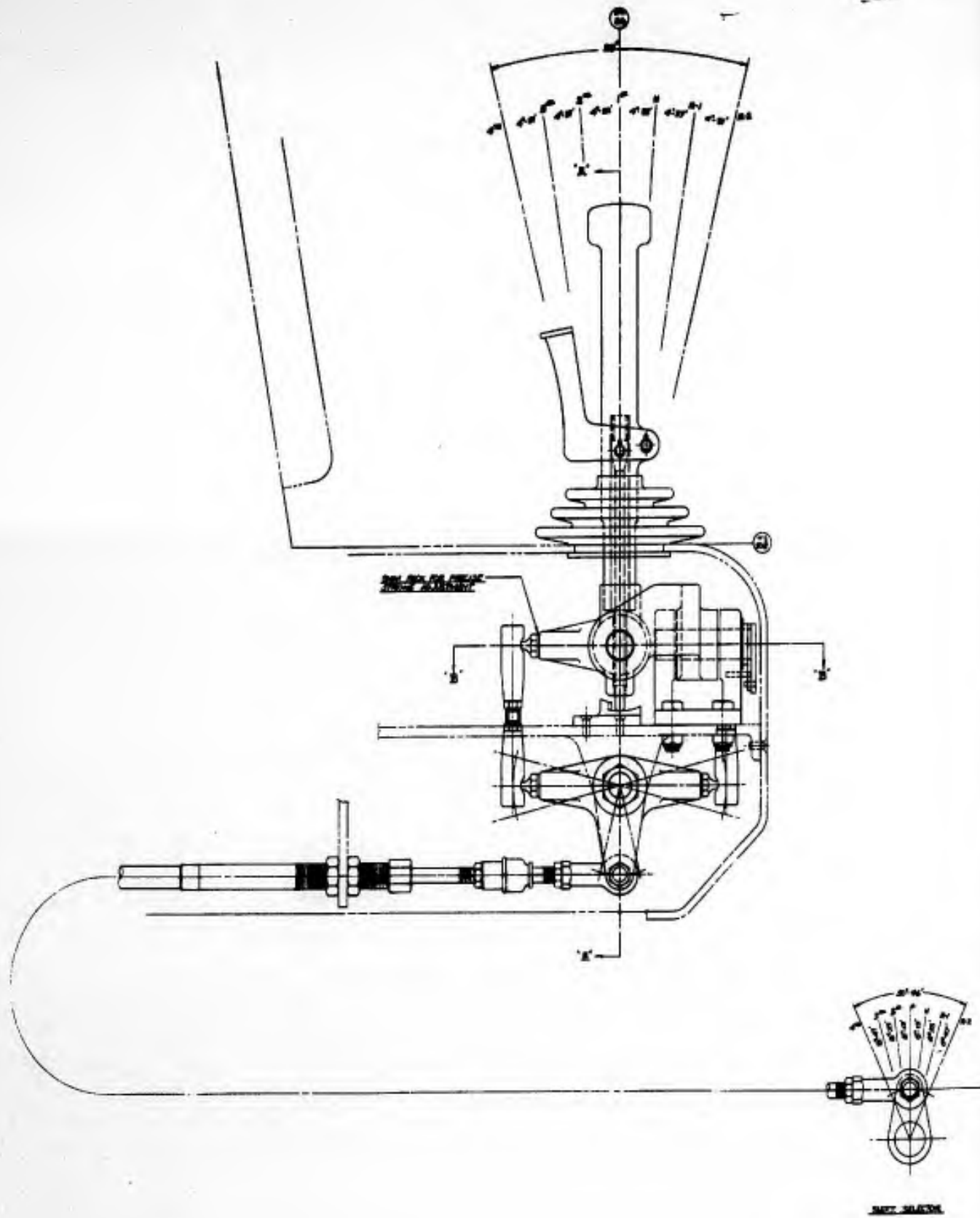
SECTION A-A



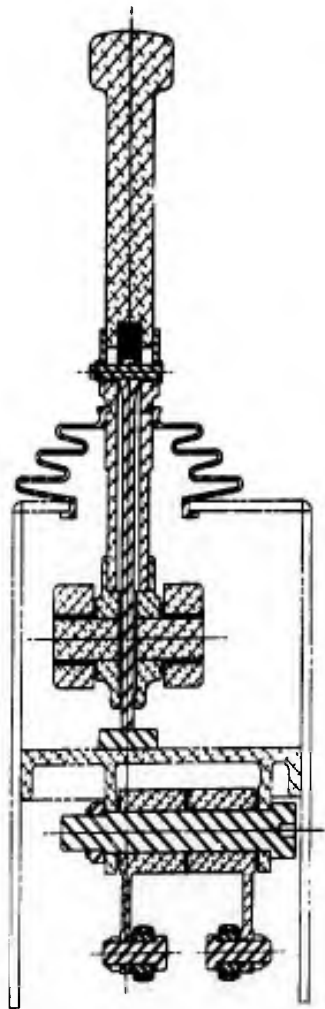
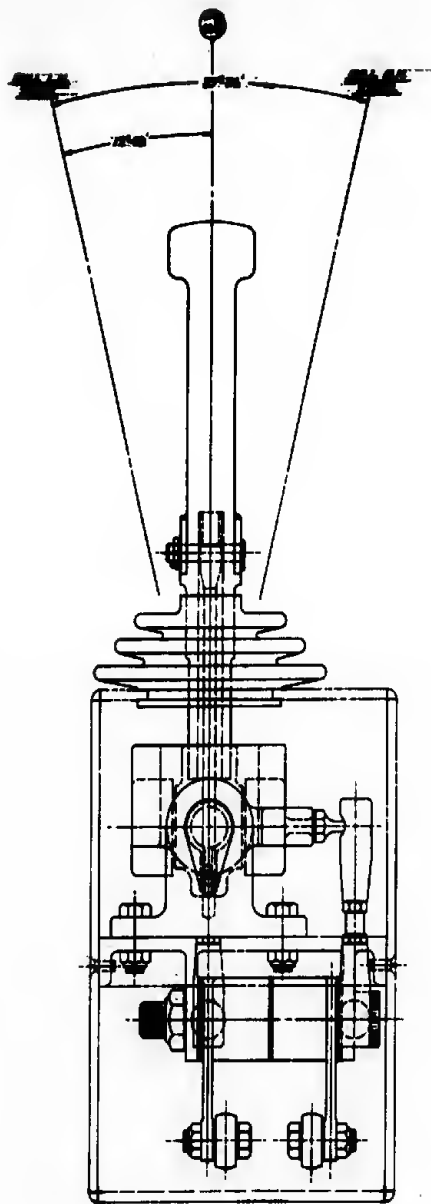


REVISED:	DATE: 10-22-62	DESIGNED BY: WTB	DRIVEN BY: WTB	APPROVED: WTB	DATE: 10/22/62	HUBBELL BALABACK DIVISION WESTINGHOUSE CORPORATION PITTSBURGH, PENNSYLVANIA RESEARCH & DEVELOPMENT SECTION
SURFACE FINISH EXCEPT AS NOTED: <input checked="" type="checkbox"/>		TITLE: WTPXII		ENGINEERING: WTB		DRAWING NO.: 15K-5195
TOLERANCES: DECIMAL: FRACTIONAL: 1/16 ANGLES: 10' 30" UNLESS OTHERWISE SPECIFIED	SCALE: 1/4"	WEIGHT: GROSS: NET:	SHEET 1 OF 1 SHEETS			

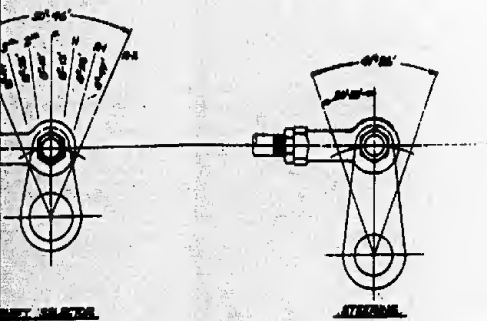
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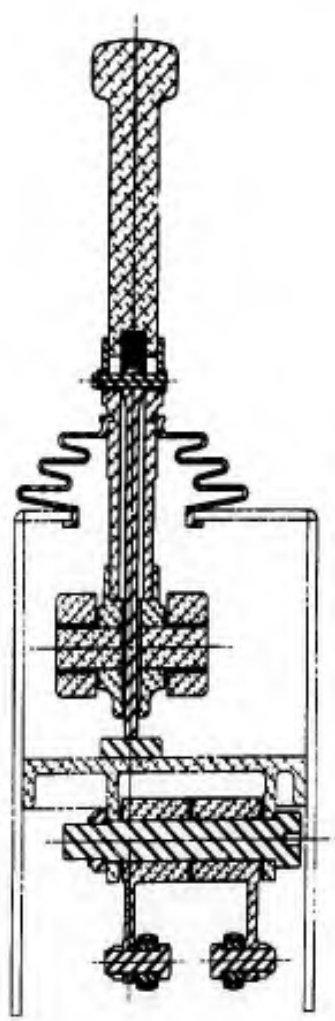
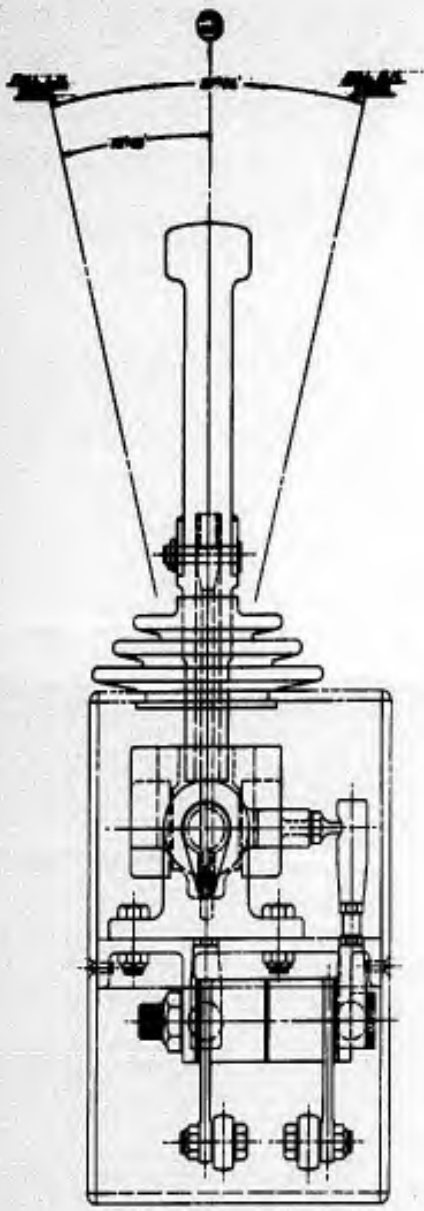


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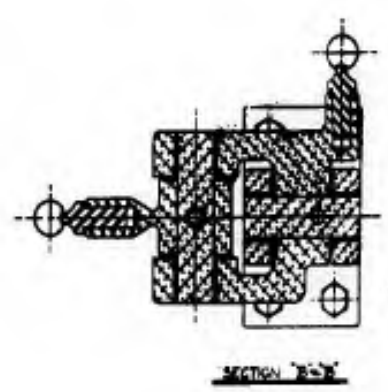


SECTION A-A





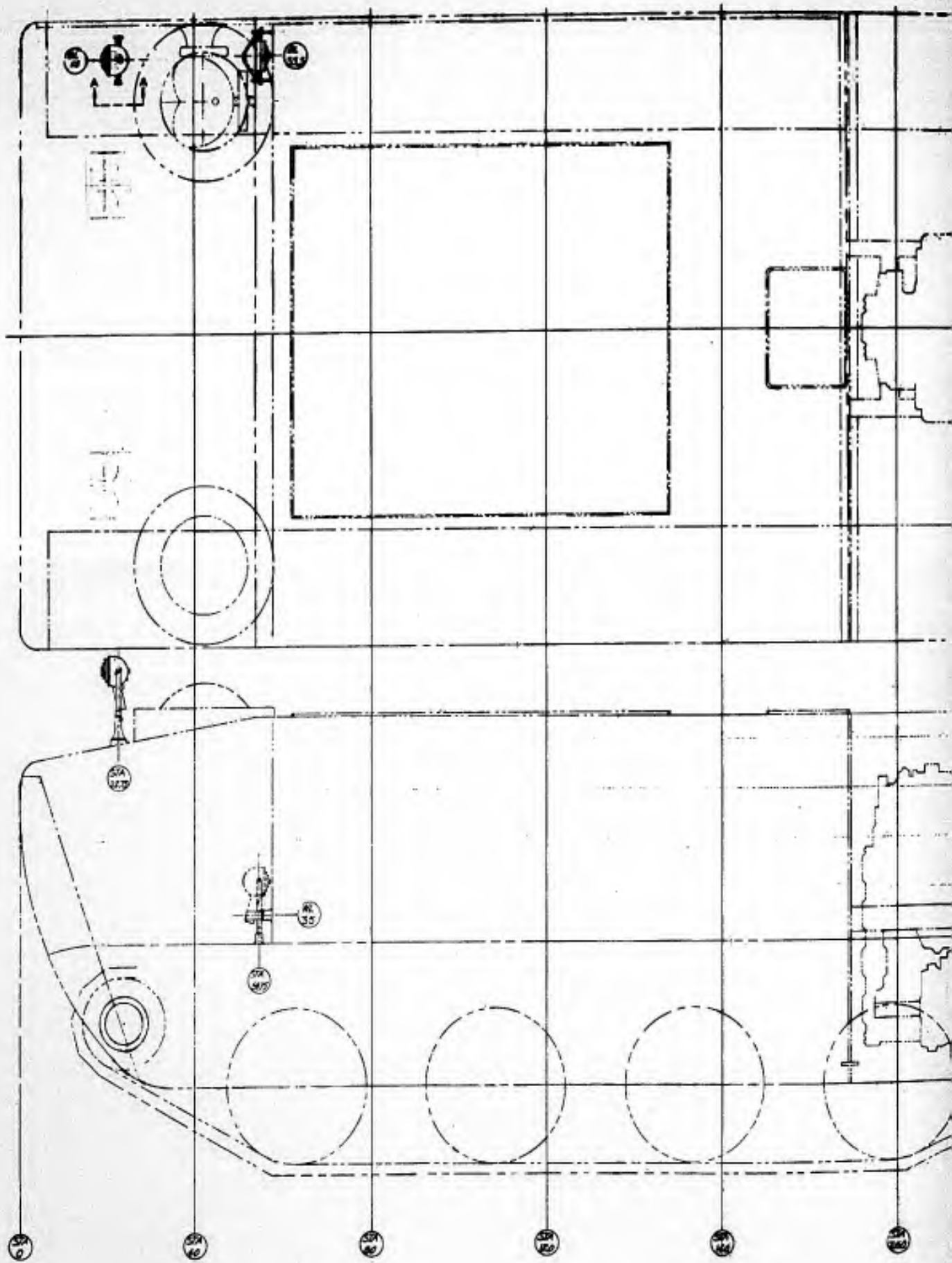
SECTION A-A

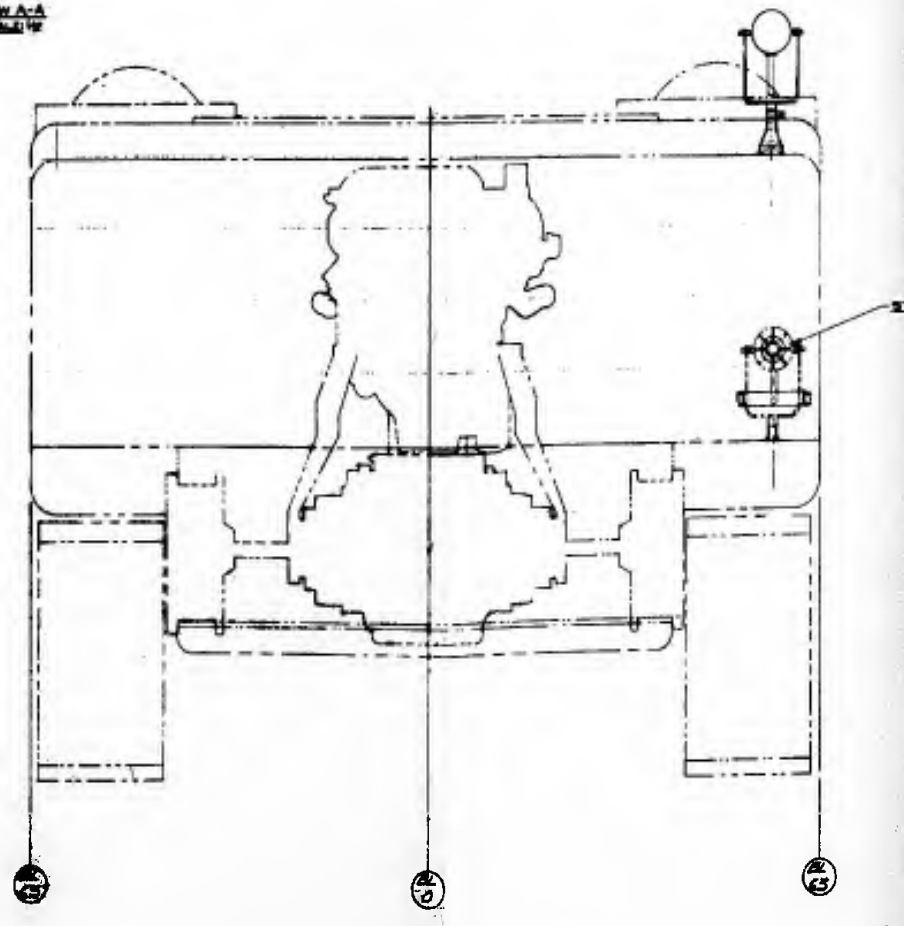
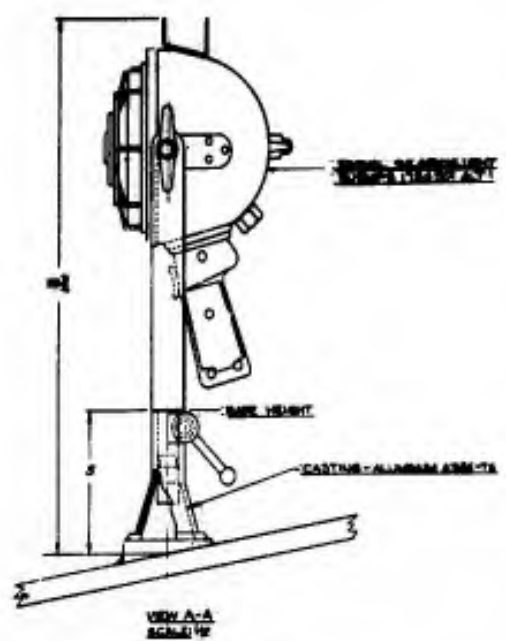
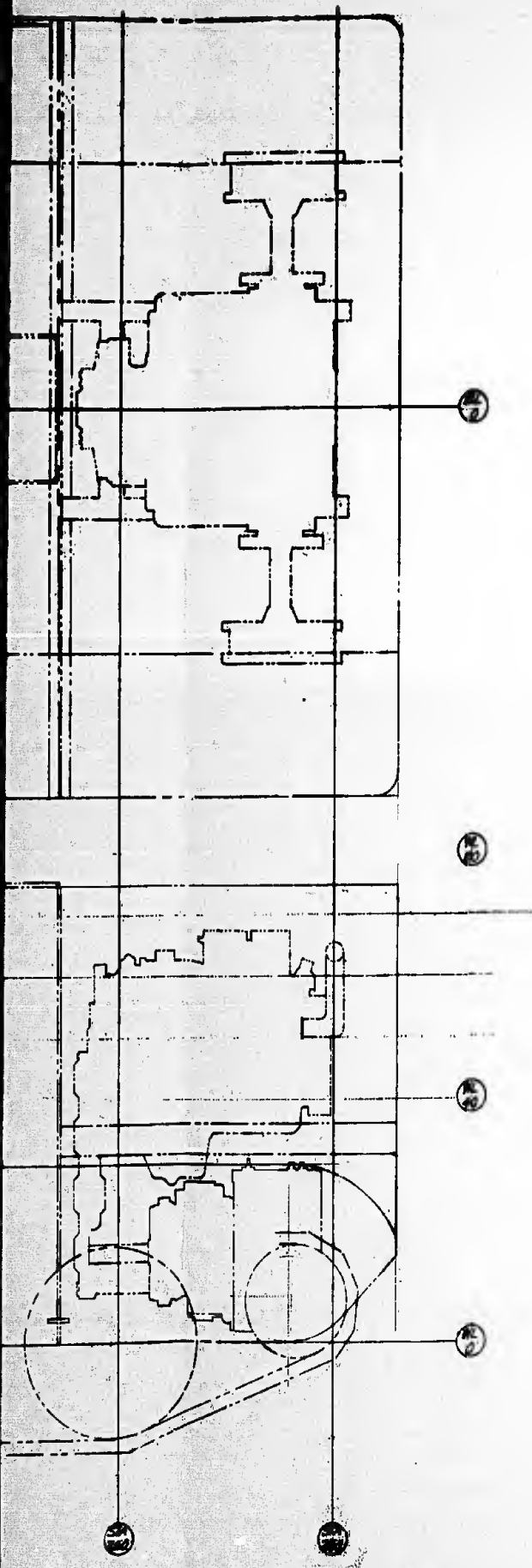


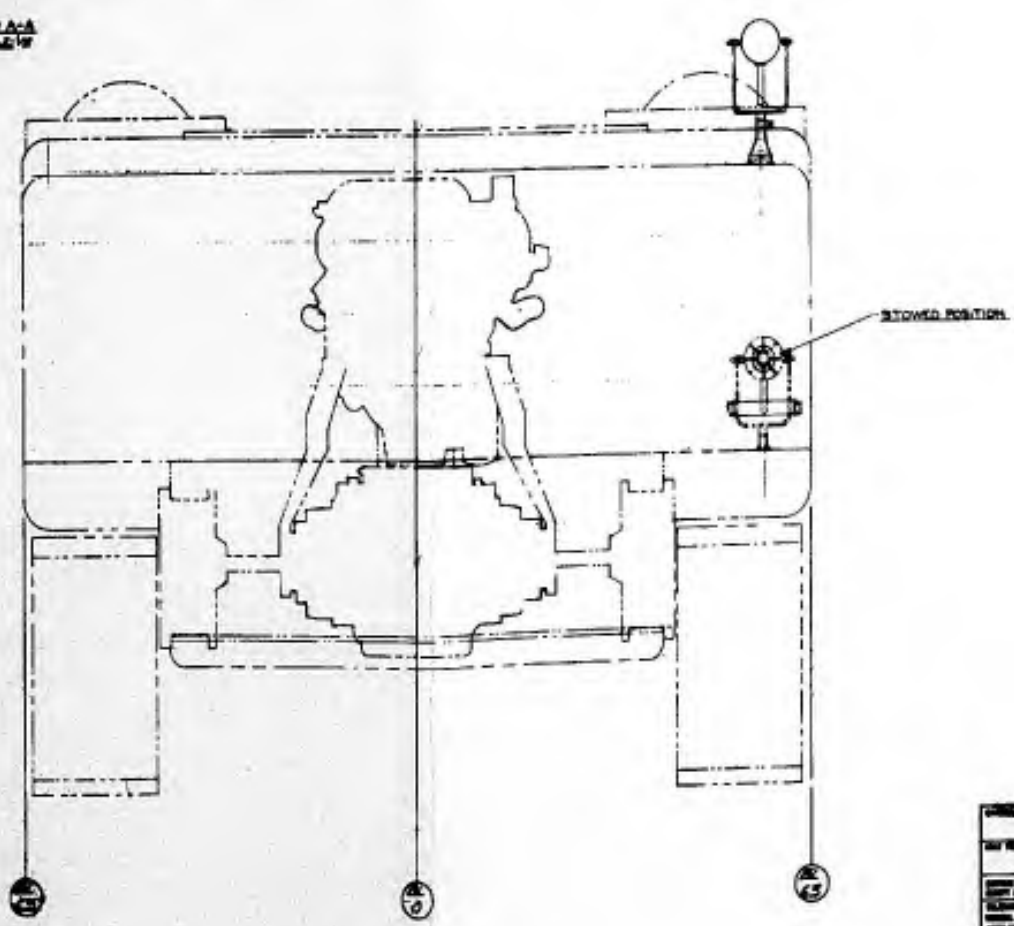
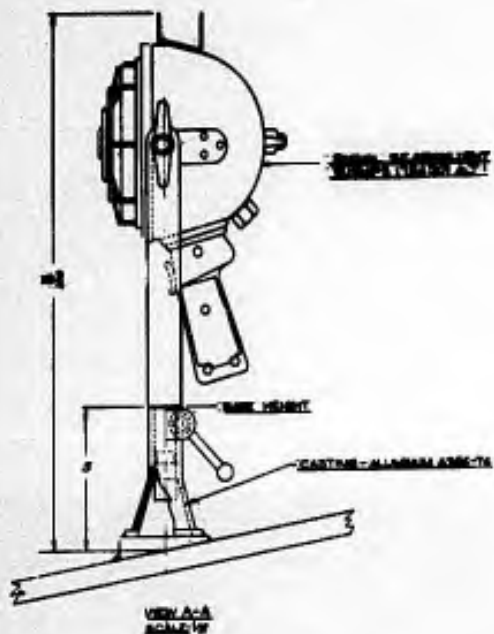
SECTION B-B

DATE	10-20-56	DESIGNER	J. SK-5196
BY	J. SK-5196	CHECKED	J. SK-5196
APPROVED	J. SK-5196	DATE	10 / 20 / 56
REVISIONS			
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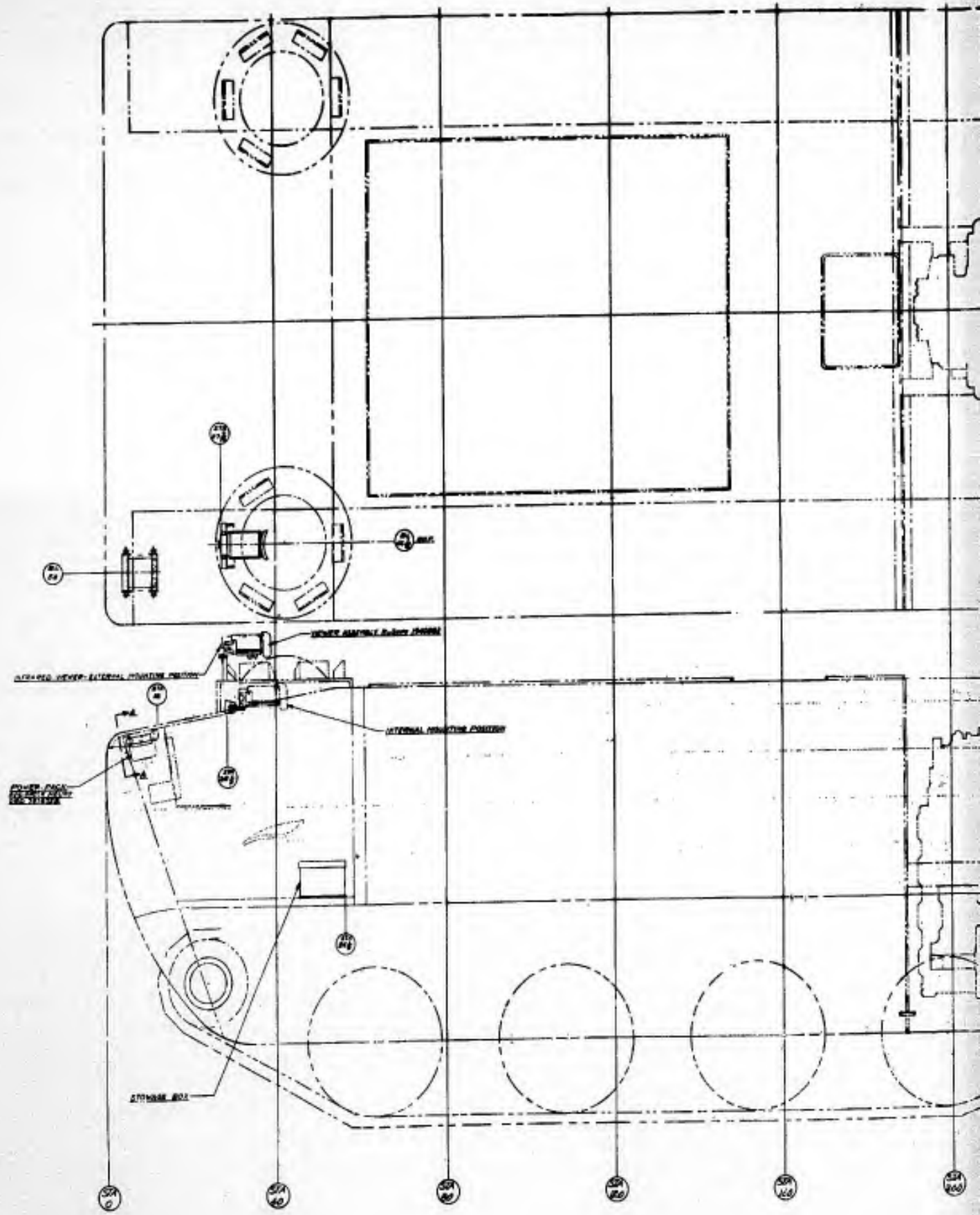




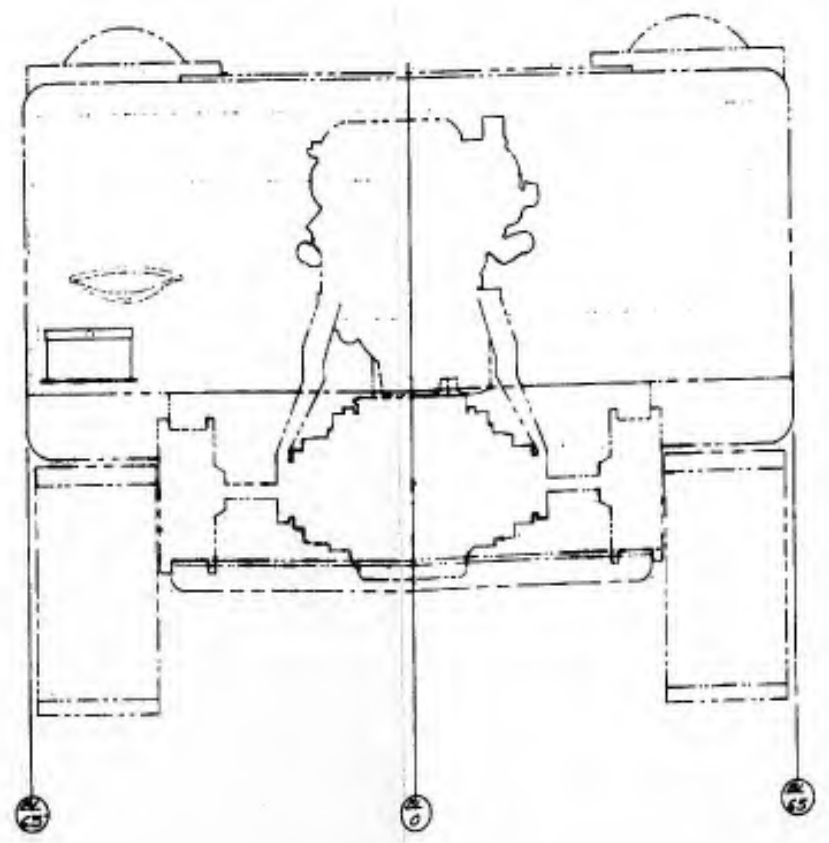
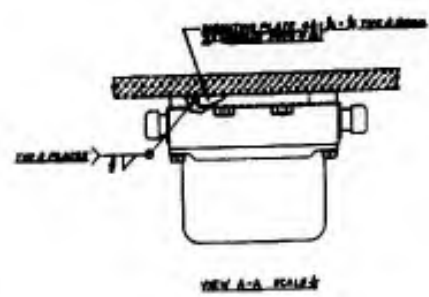
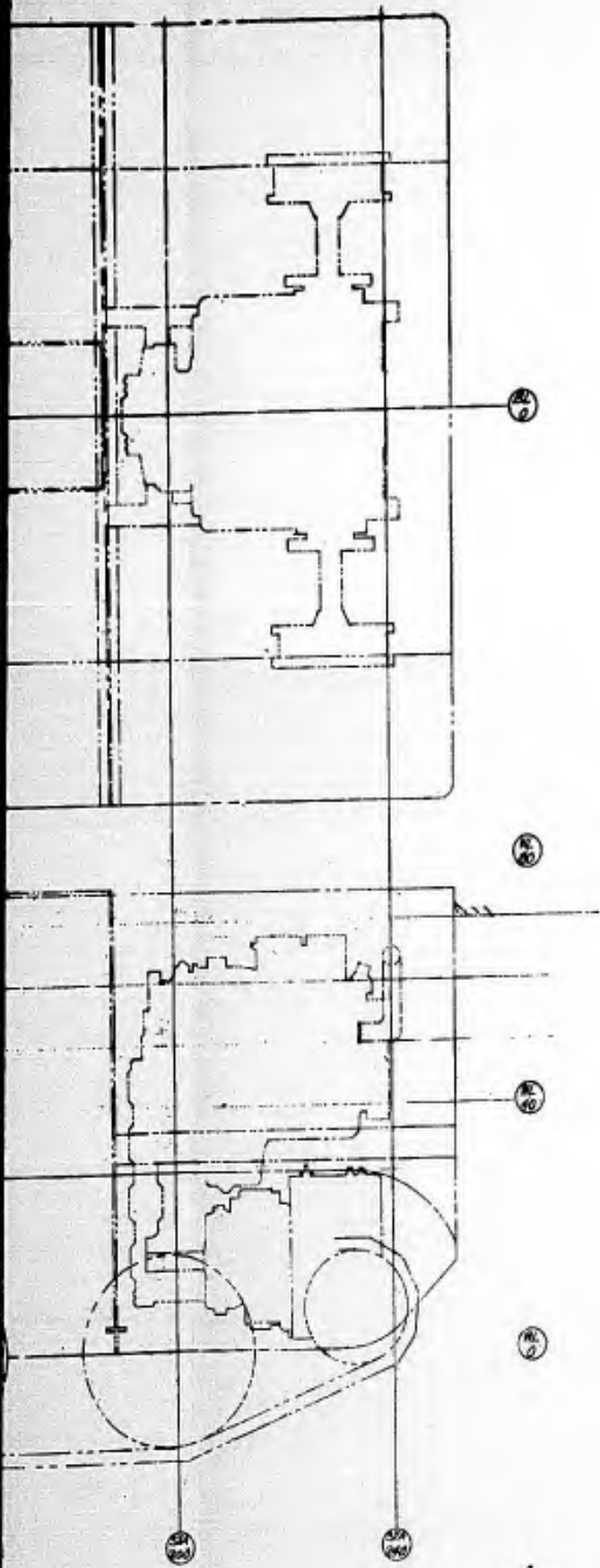


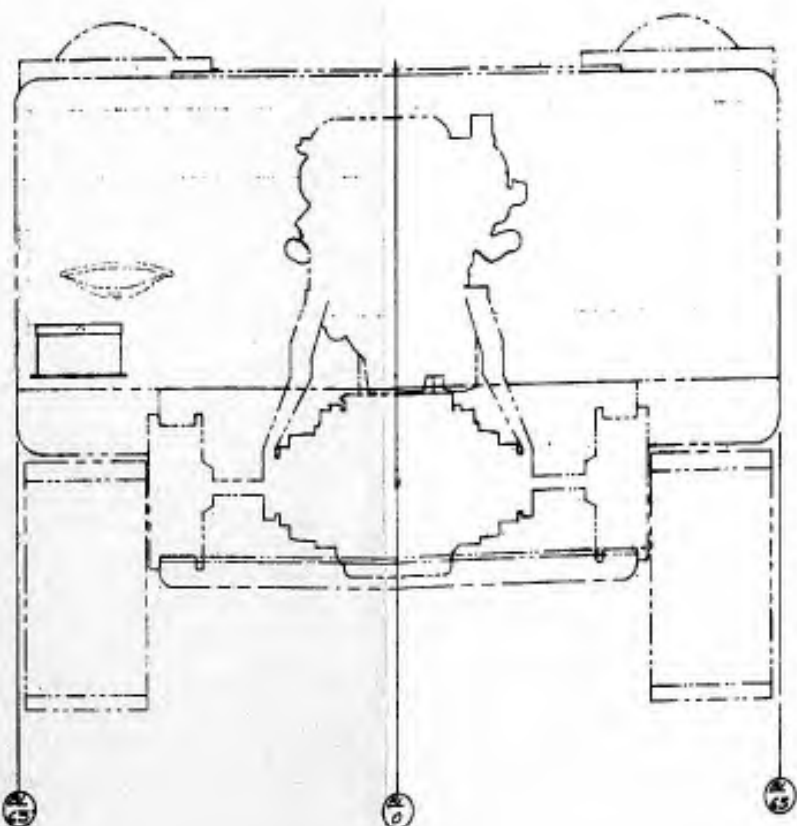
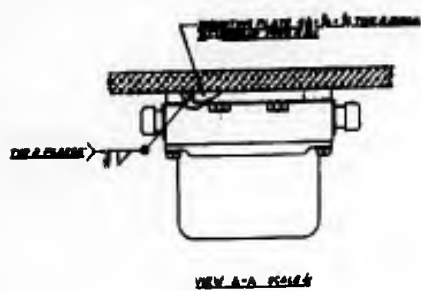
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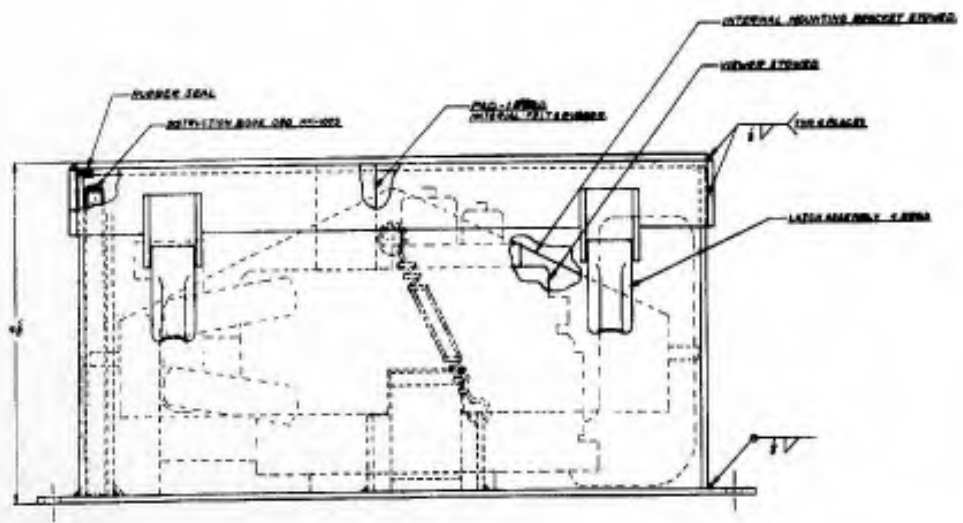
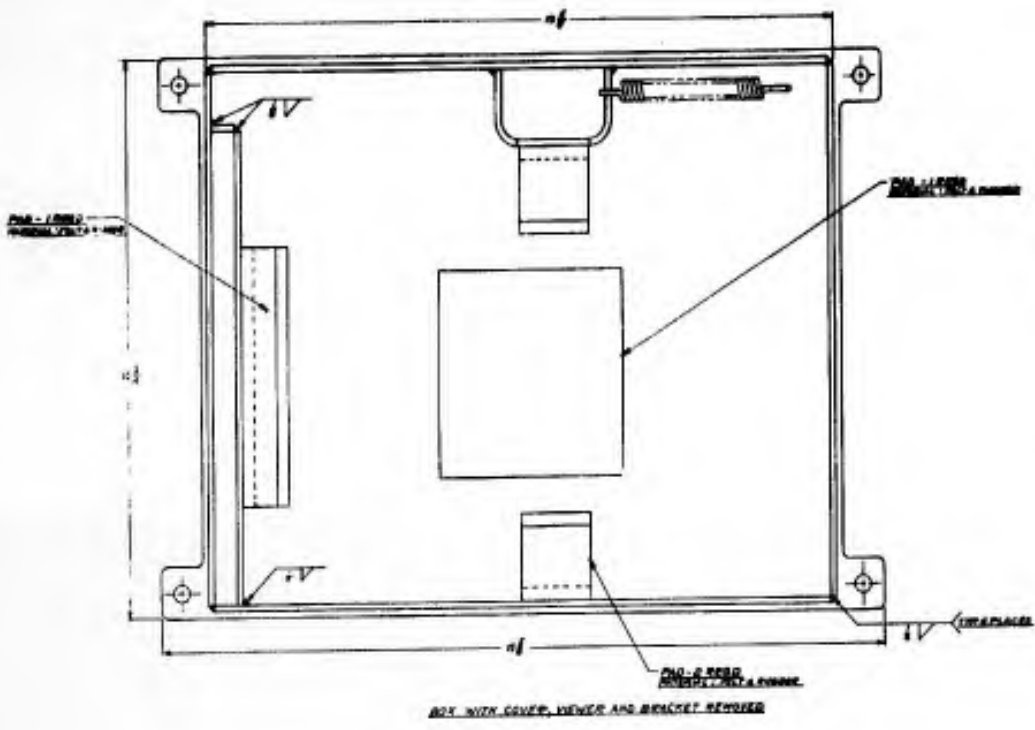
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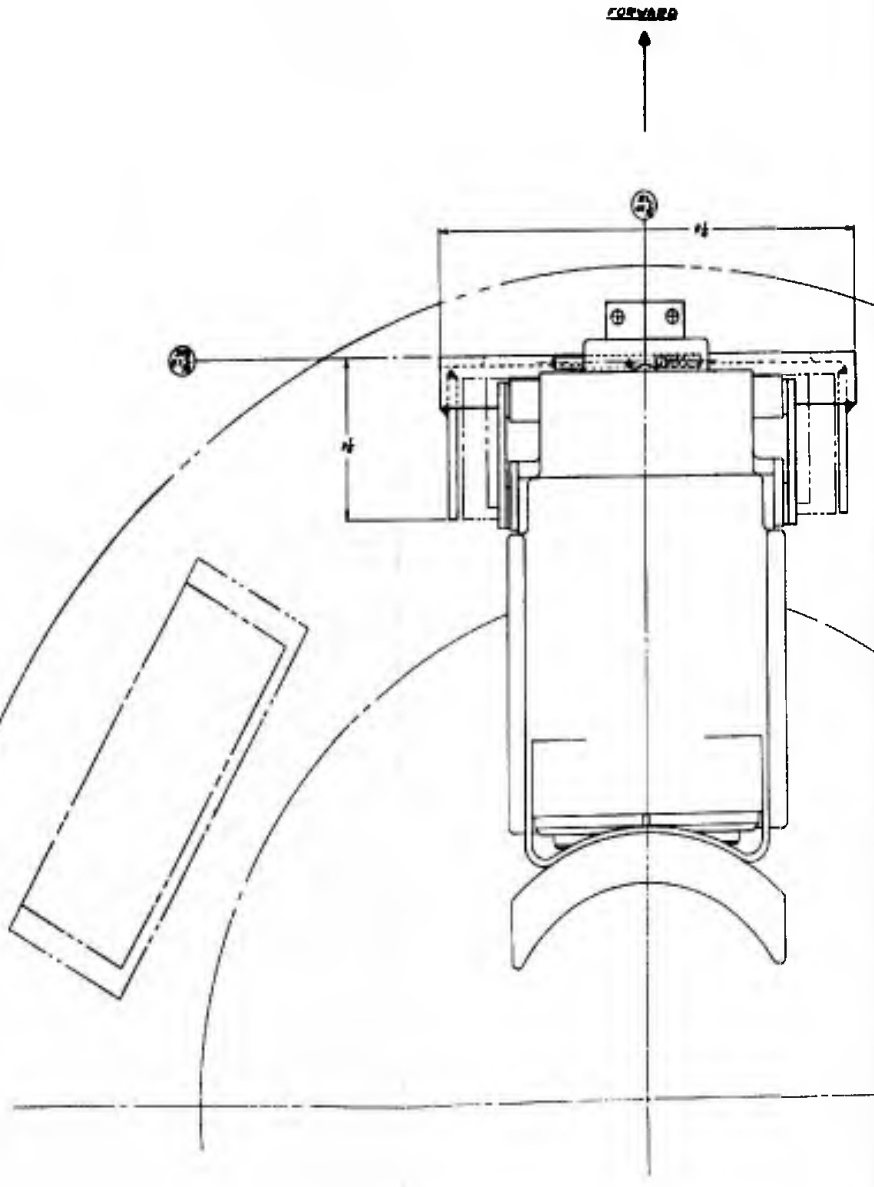
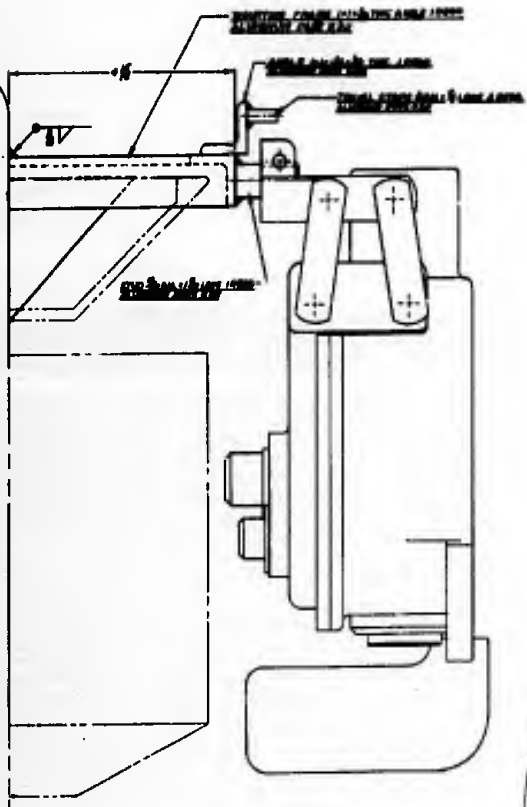
DATE	10-2-82	REVISION	1
DESIGNER	J. J. [Signature]	CHECKED	[Signature]
APPROVED	[Signature]	DATE	10-2-82
PROJECT	SK-3198	DESCRIPTION	INSTALLATION APPROVED HEVER AND STORAGE BOX.
SCALE	1/2"	FIGURE	1 OF 3

1



STORAGE BOX ASSEMBLY - 1 PERG.  
ALUMINUM 7030 RAL 400

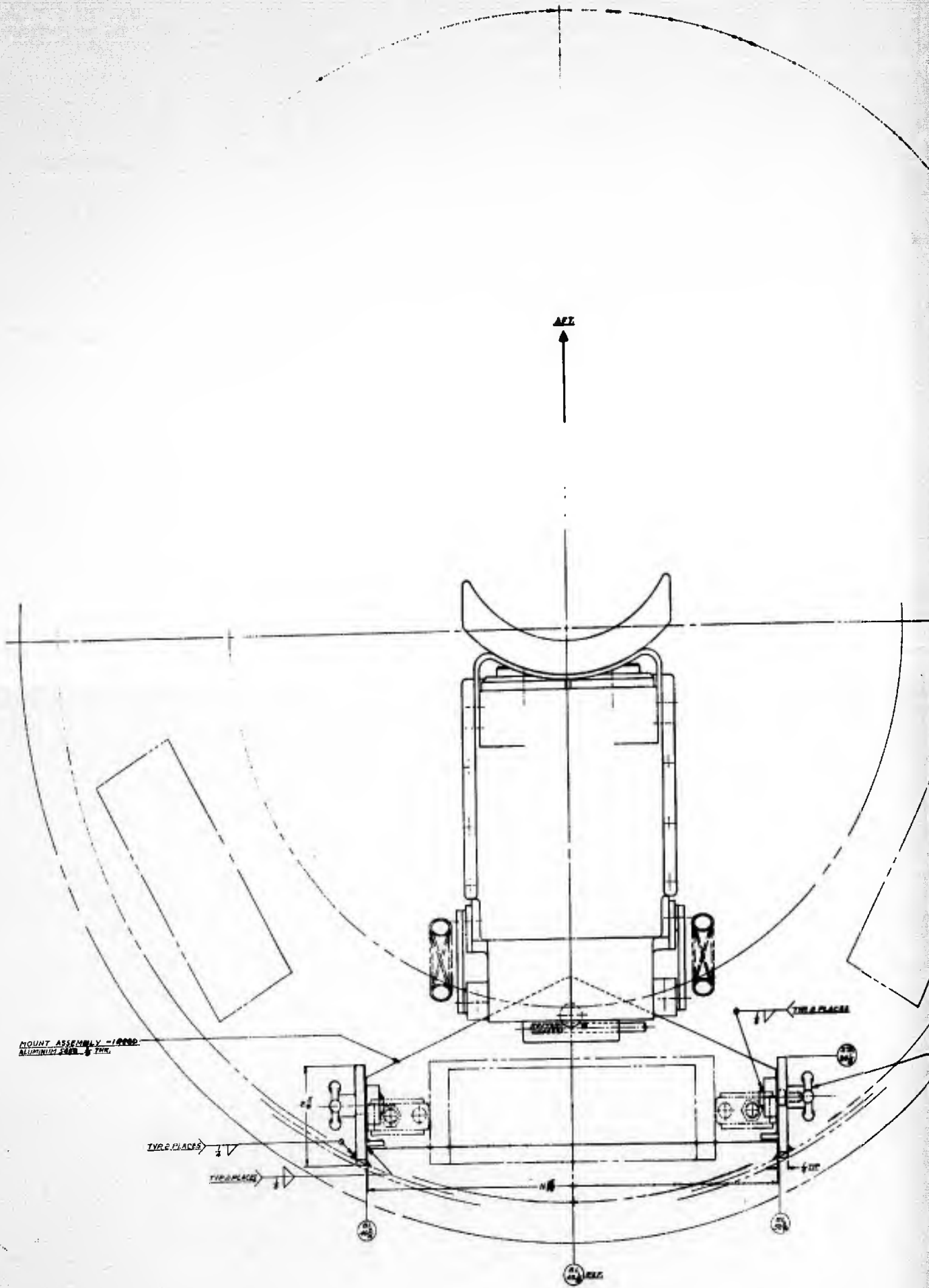
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TOP VIEW  
EXTERNAL MOUNTING



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AFT.

MOUNT ASSEMBLY - 10000  
ALIGNMENT MARK

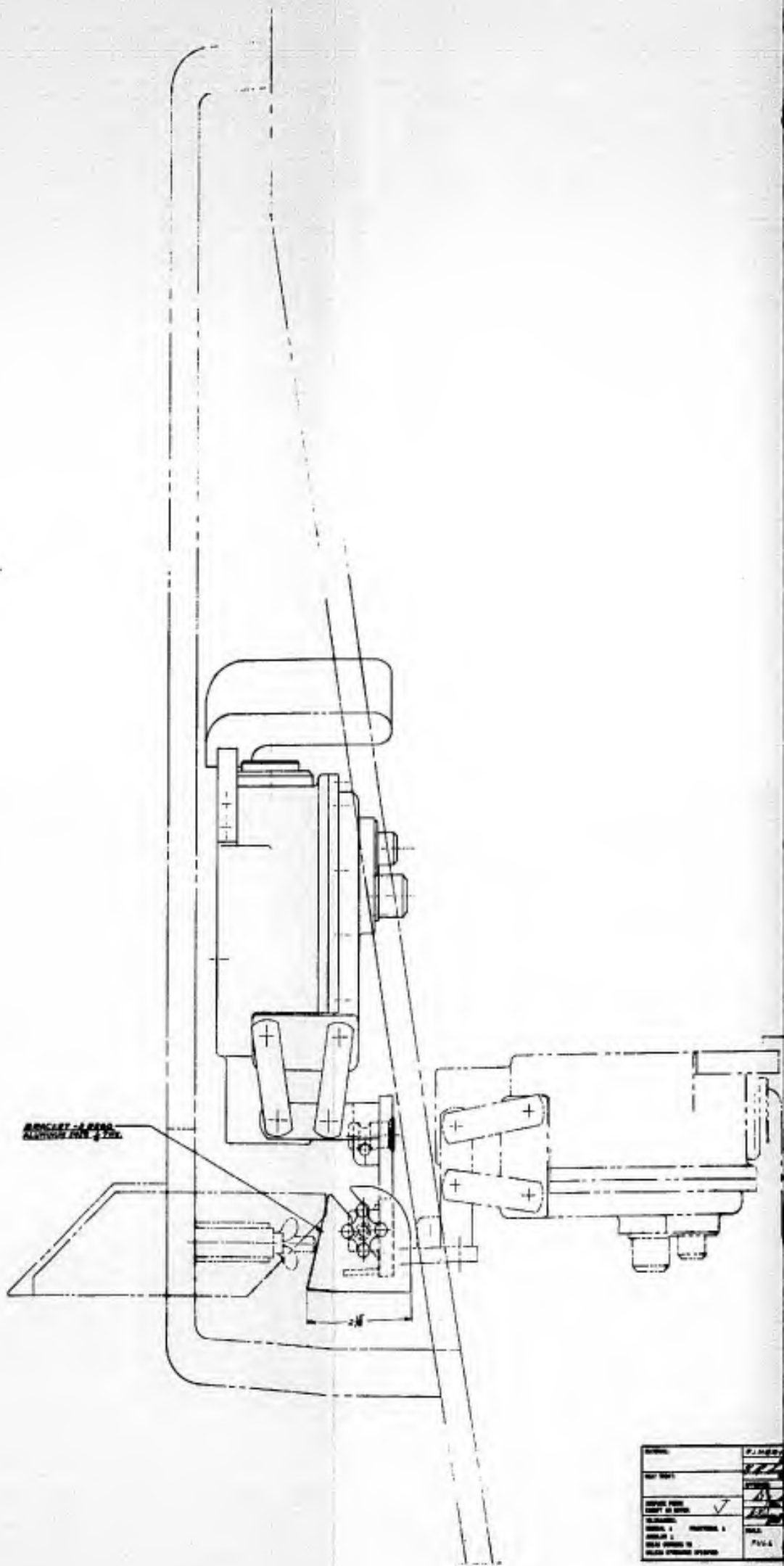
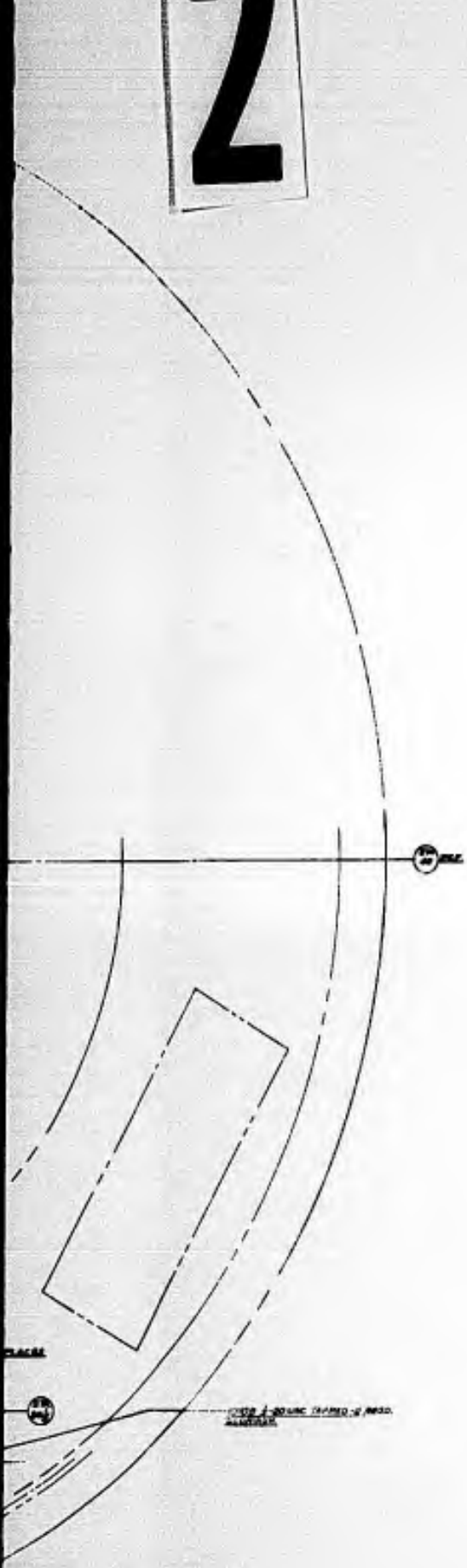
TYR. PLACES

TYR. PLACES

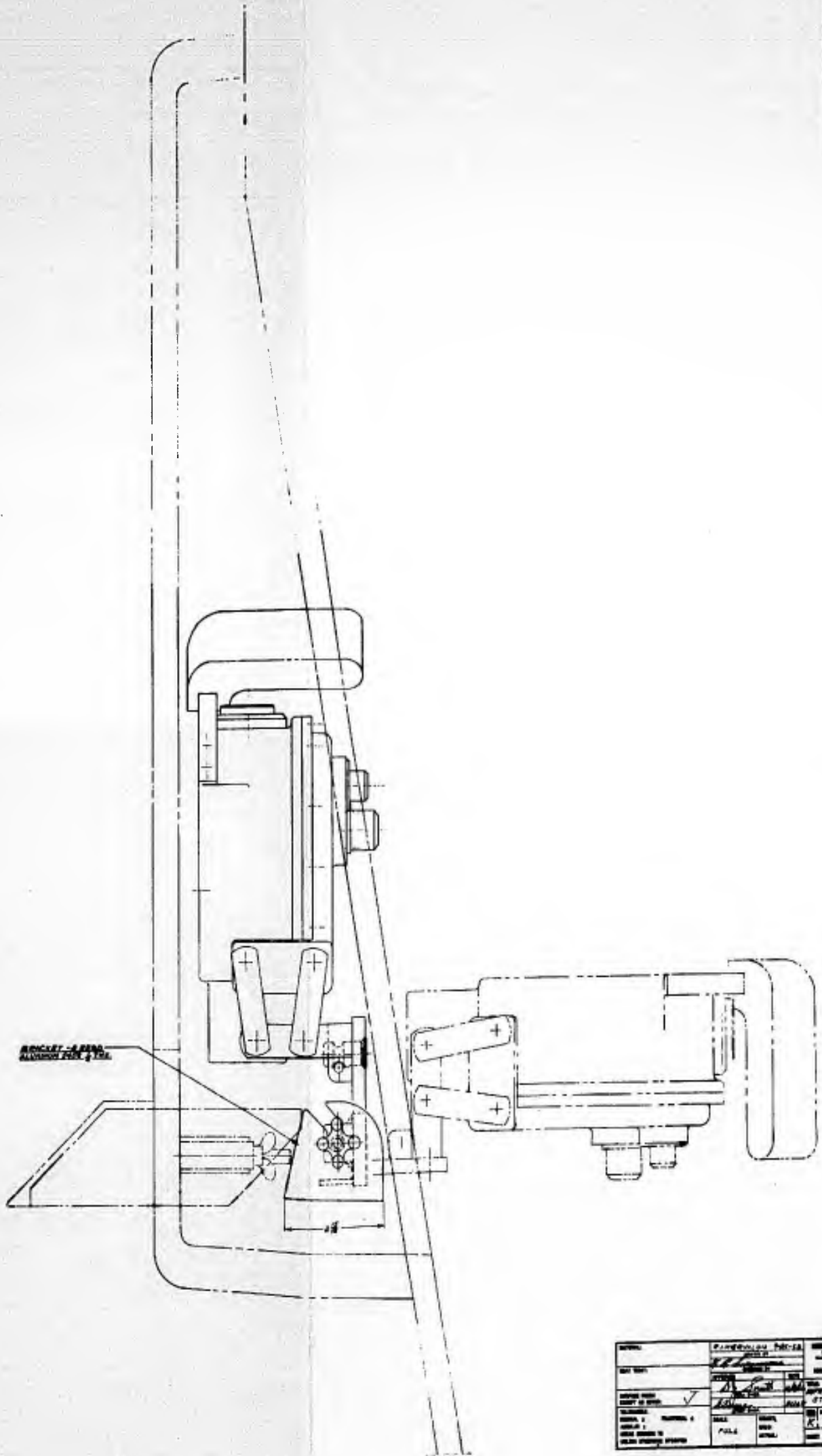
TYR. PLACES

TOP VIEW  
INTERNAL MOUNTING

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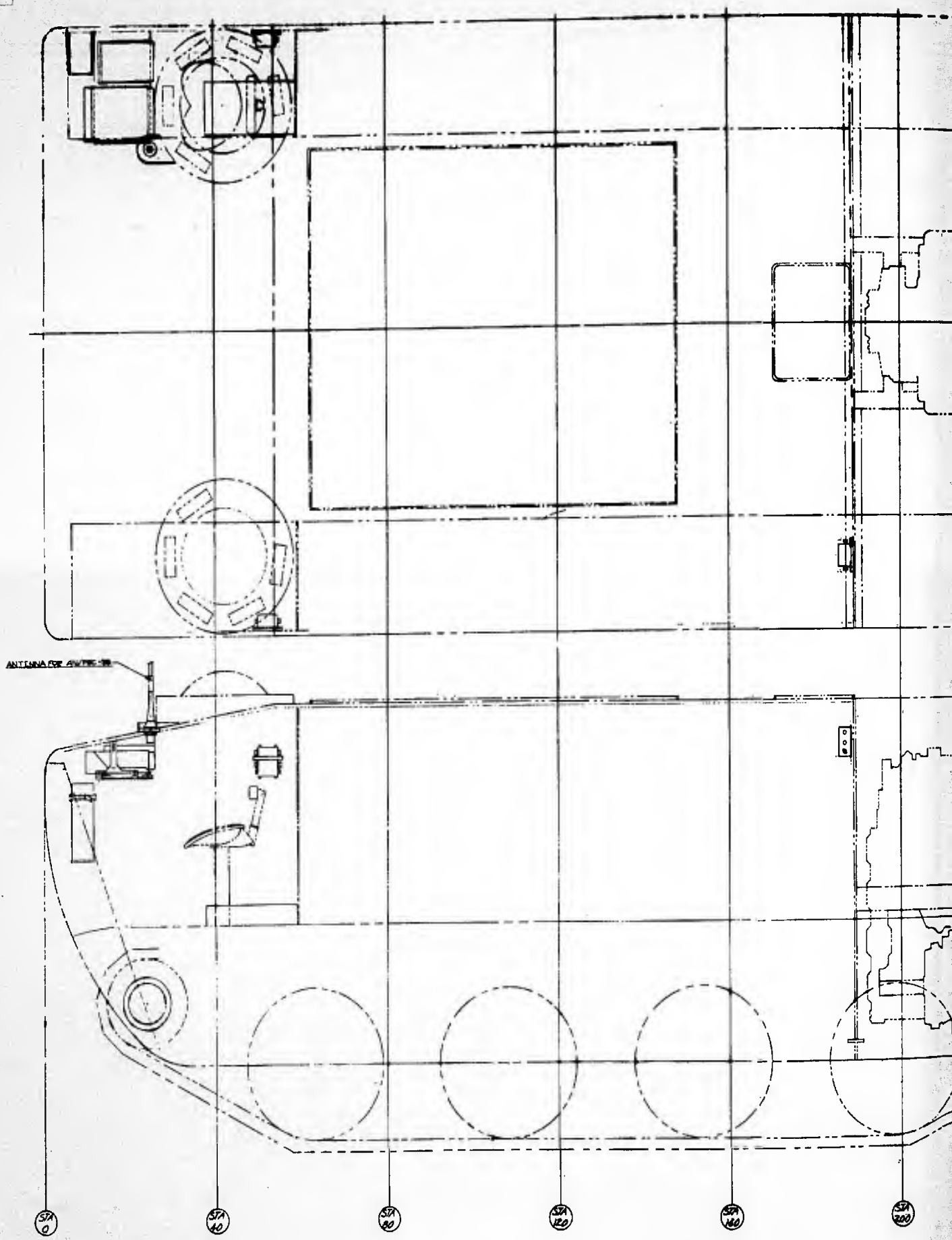


RECEIVER - 4.5mm  
ALUMINUM FOR 4.5mm

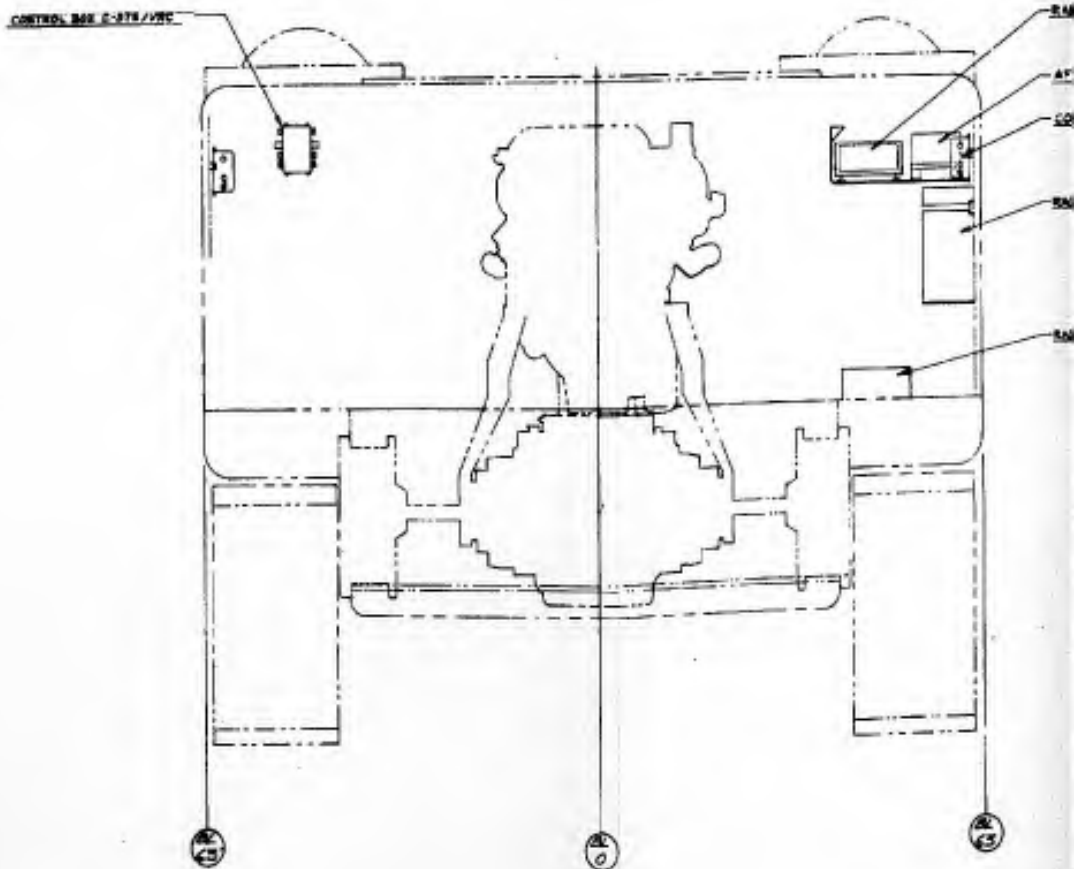
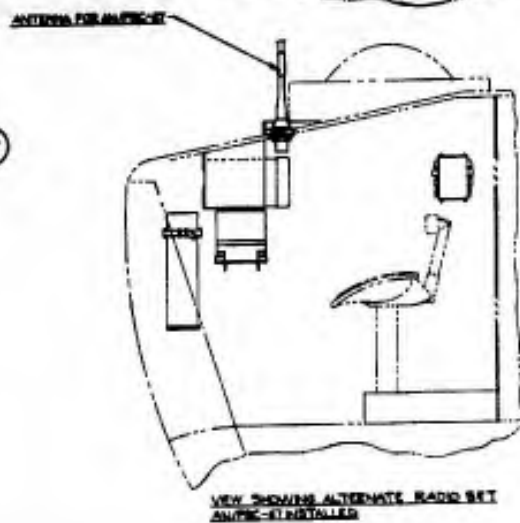
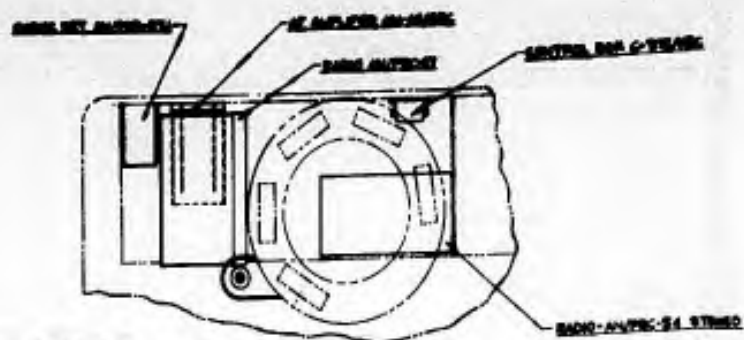
GROUP 2 AREA

DATE:	PROJECT: 4.5mm	REVISION: 1
BY: [Signature]	DESIGNER: [Signature]	DATE: 10/1/58
CHECKED: [Signature]	APP'D: [Signature]	NO. OF COPIES: 1
DATE: 10/1/58	SCALE: 1:1	NO. OF SHEETS: 1
TITLE: RECEIVER - 4.5mm	FILE: 5K-5198	NO. 2 OF 2 SHEETS

1

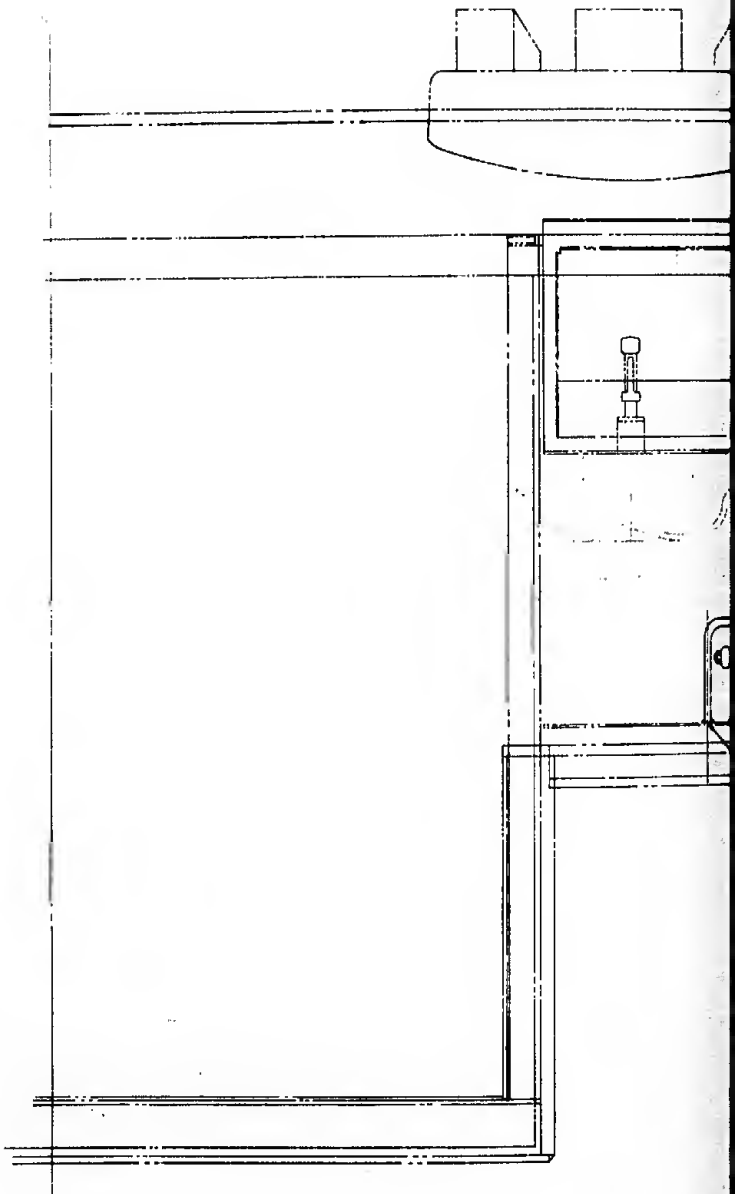
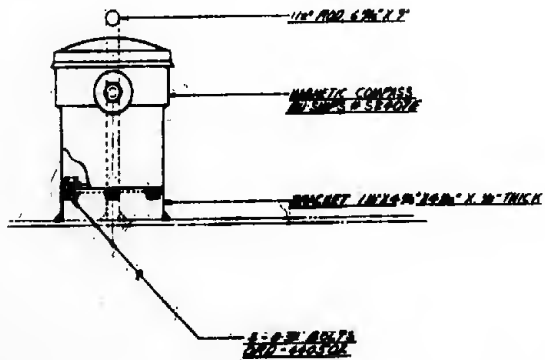
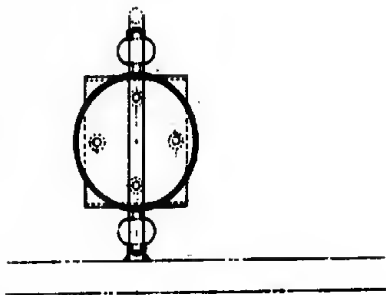


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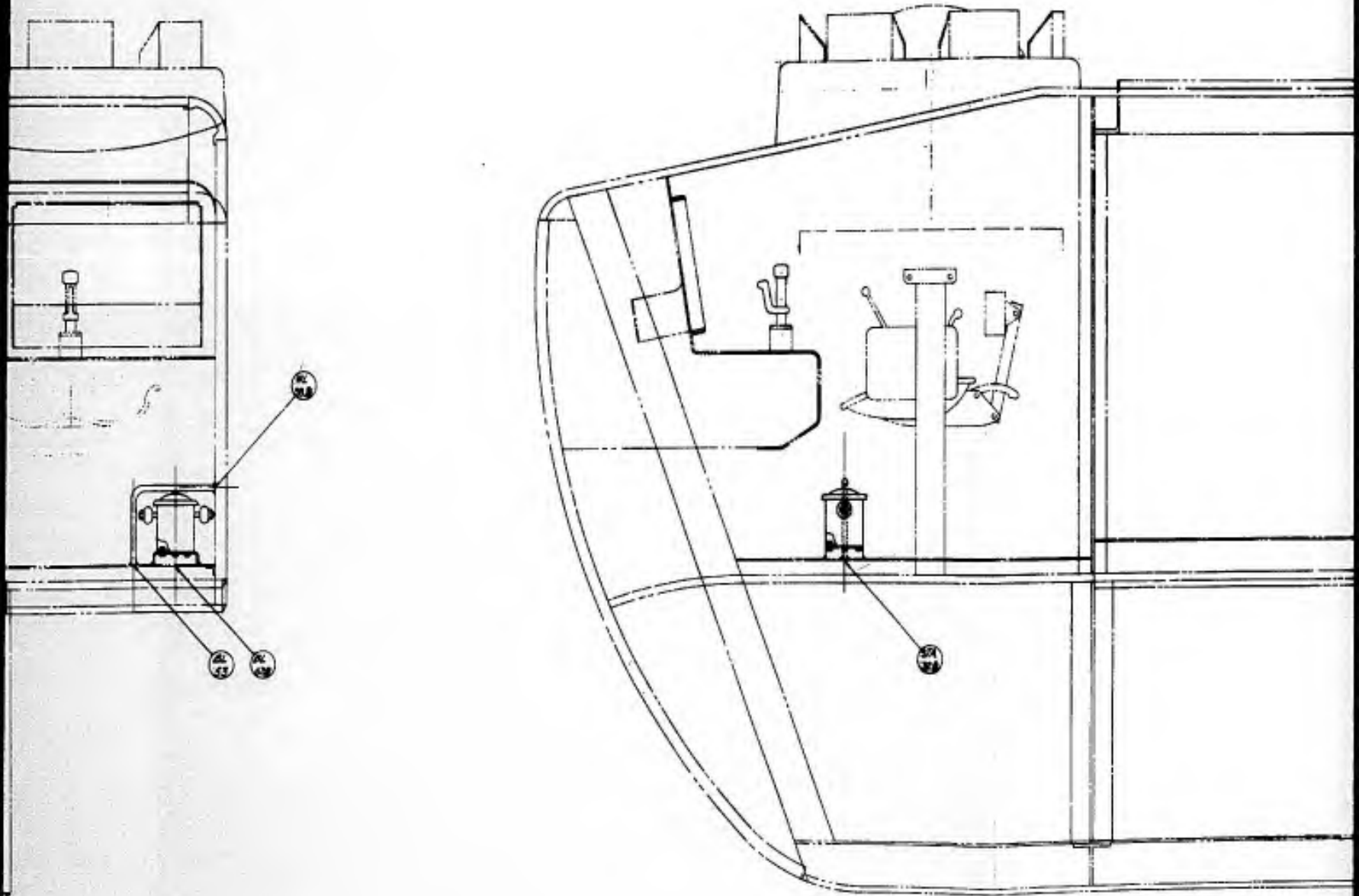




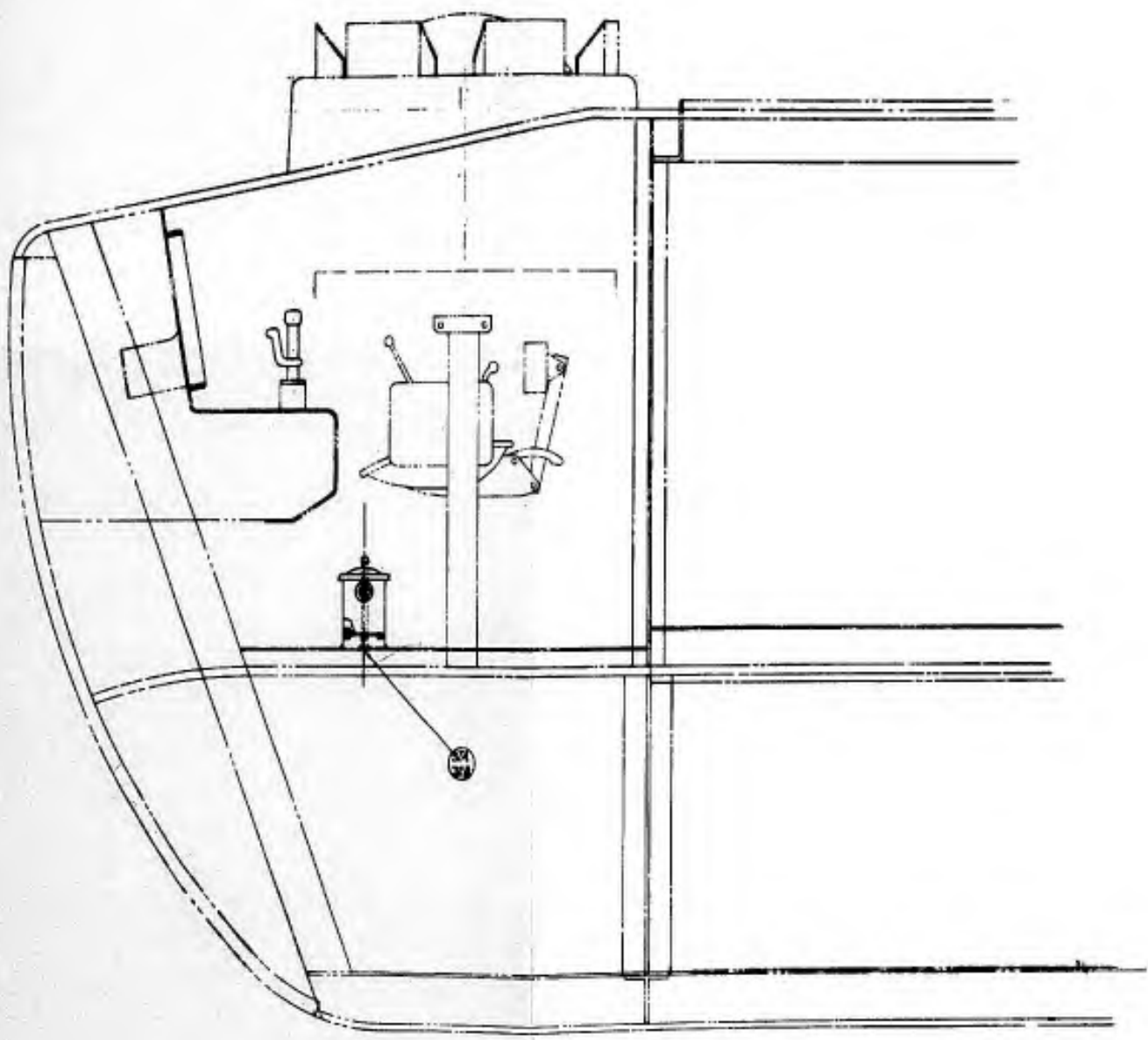
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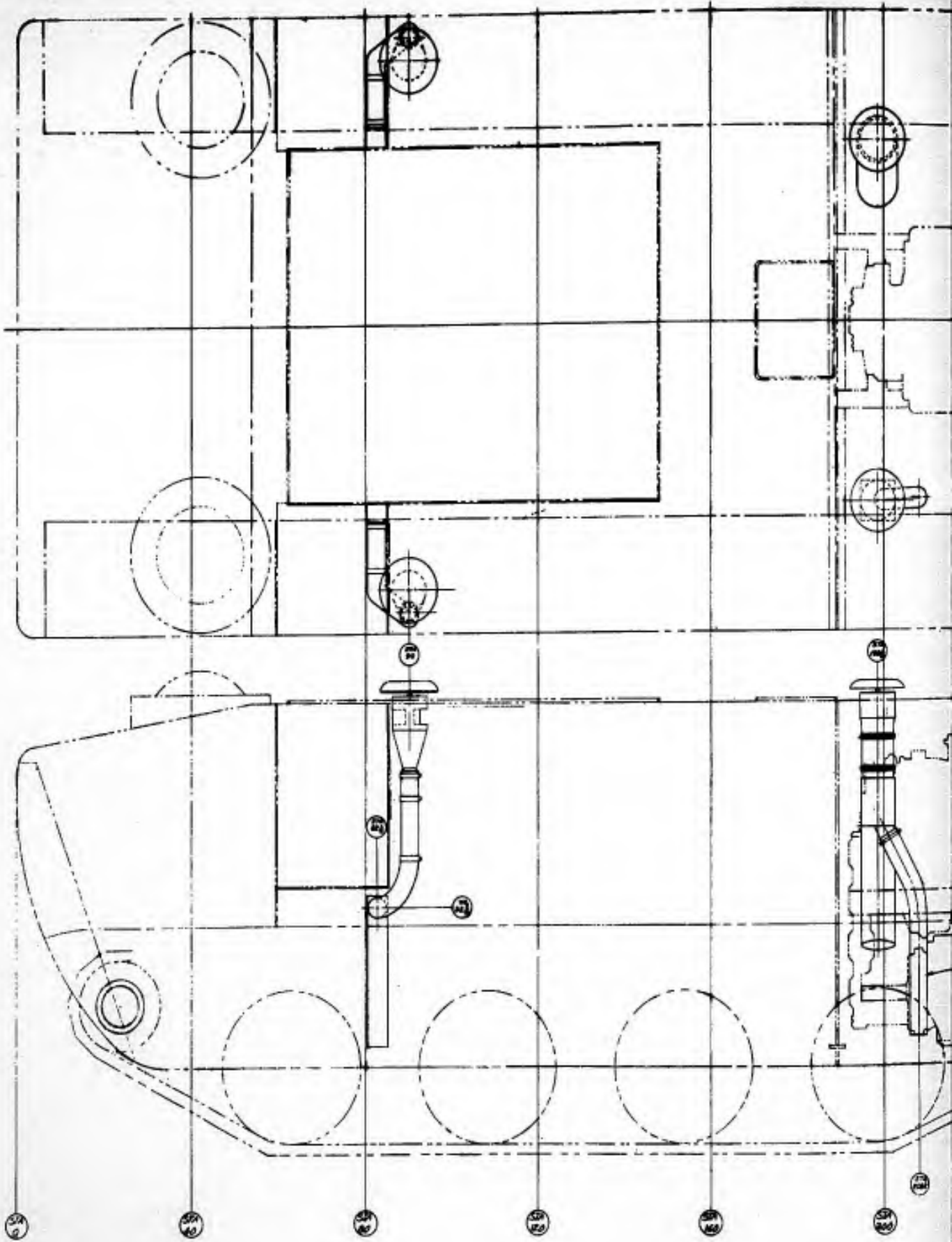


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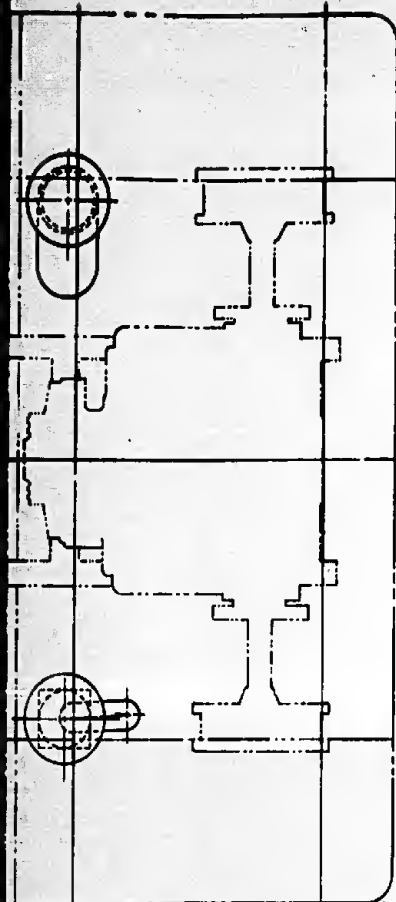


NO.	REV.	DATE	BY	CHKD.	APP.
1	1	10/10/50	J. L. ...	J. L. ...	J. L. ...
DESCRIPTION			SYNTHESIS MECHANISM		
PART NO.			SK-5200		
REV. NO.			1		
DATE			10/10/50		
BY			J. L. ...		
CHKD.			J. L. ...		
APP.			J. L. ...		

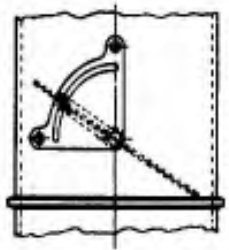
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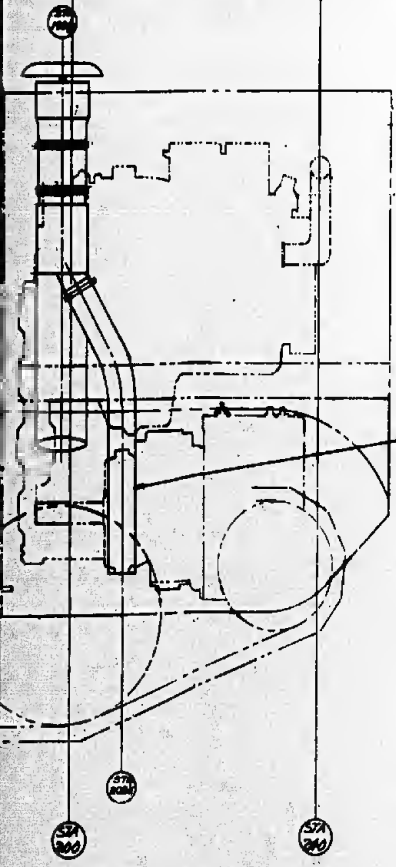
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21



VIEW A-A  
SCALE 1/2



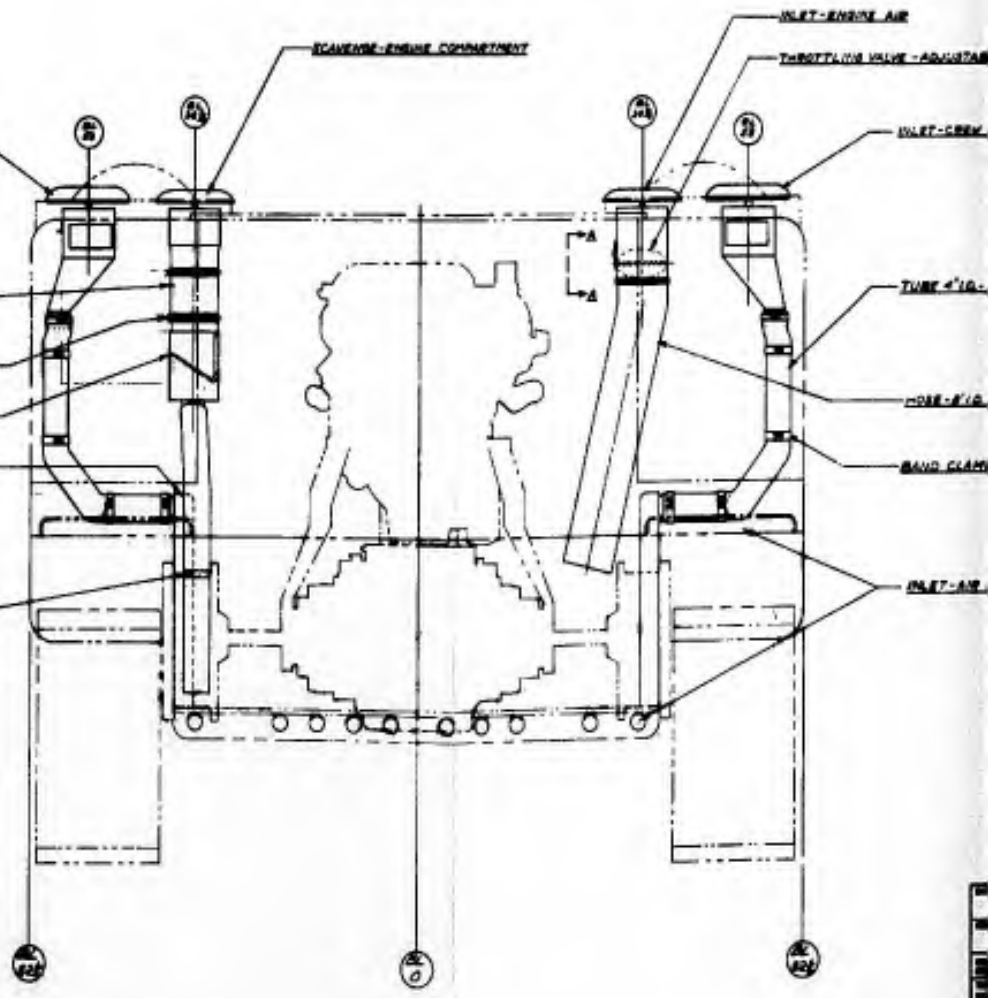
22

- INLET-CREW VENTILATION
- BLOWER ROD 5/16"
- COUPLING CLAMP
- DIVERTER
- DUCT - 4 THE ALUMINUM BLEN AIR

23

- HOSE - 4" I.D. ALUMINUM
- TAPPING AND SHAFT THE ALUMINUM FOR AIR

24



TO ENGINE-ENGINE COMPARTMENT

INLET-ENGINE AIR

THROTTLE VALVE-ADJUSTABLE

INLET-CREW

TUBE 4" I.D.

HOSE 4" I.D.

BAND CLAMP

INLET-AIR

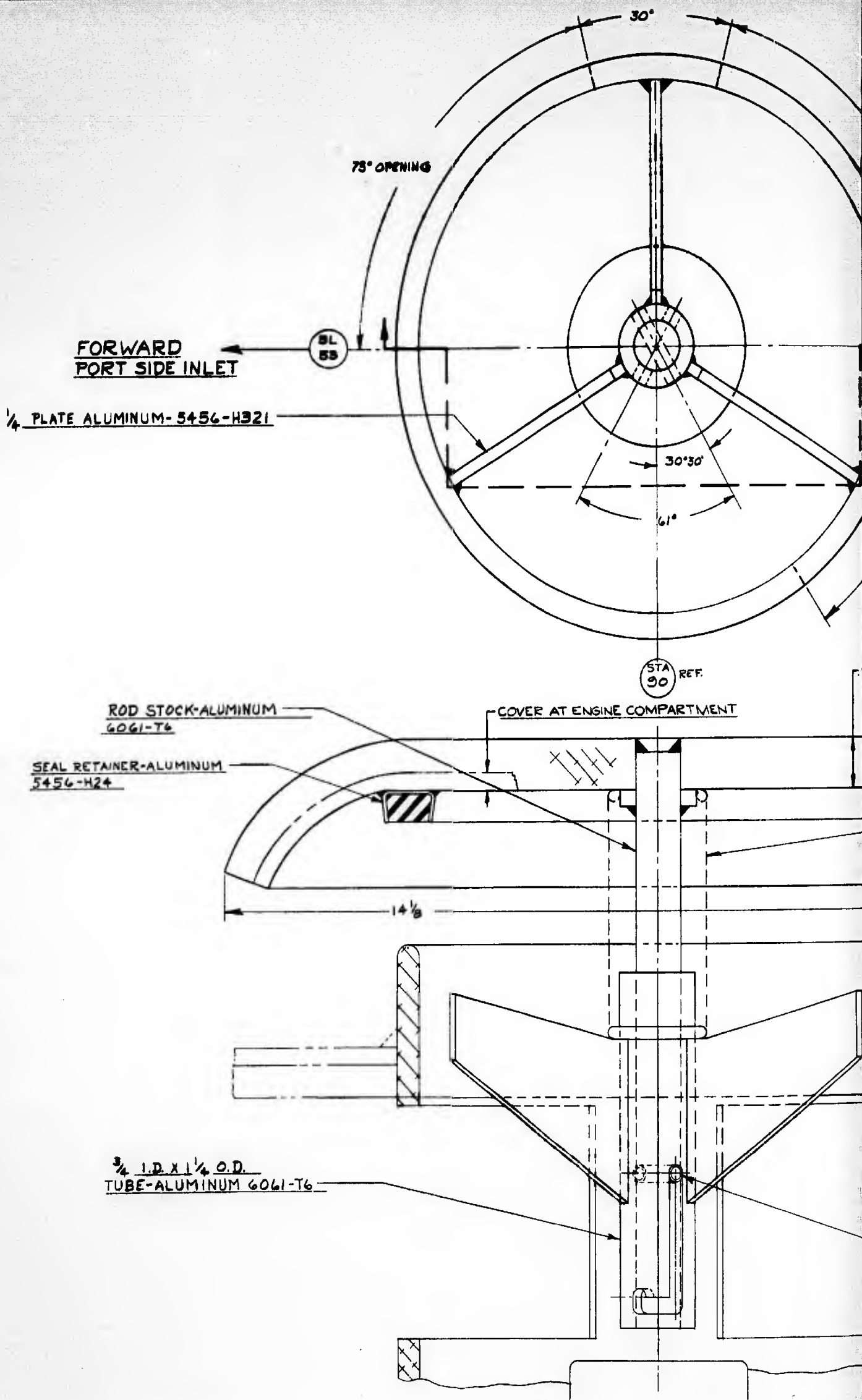
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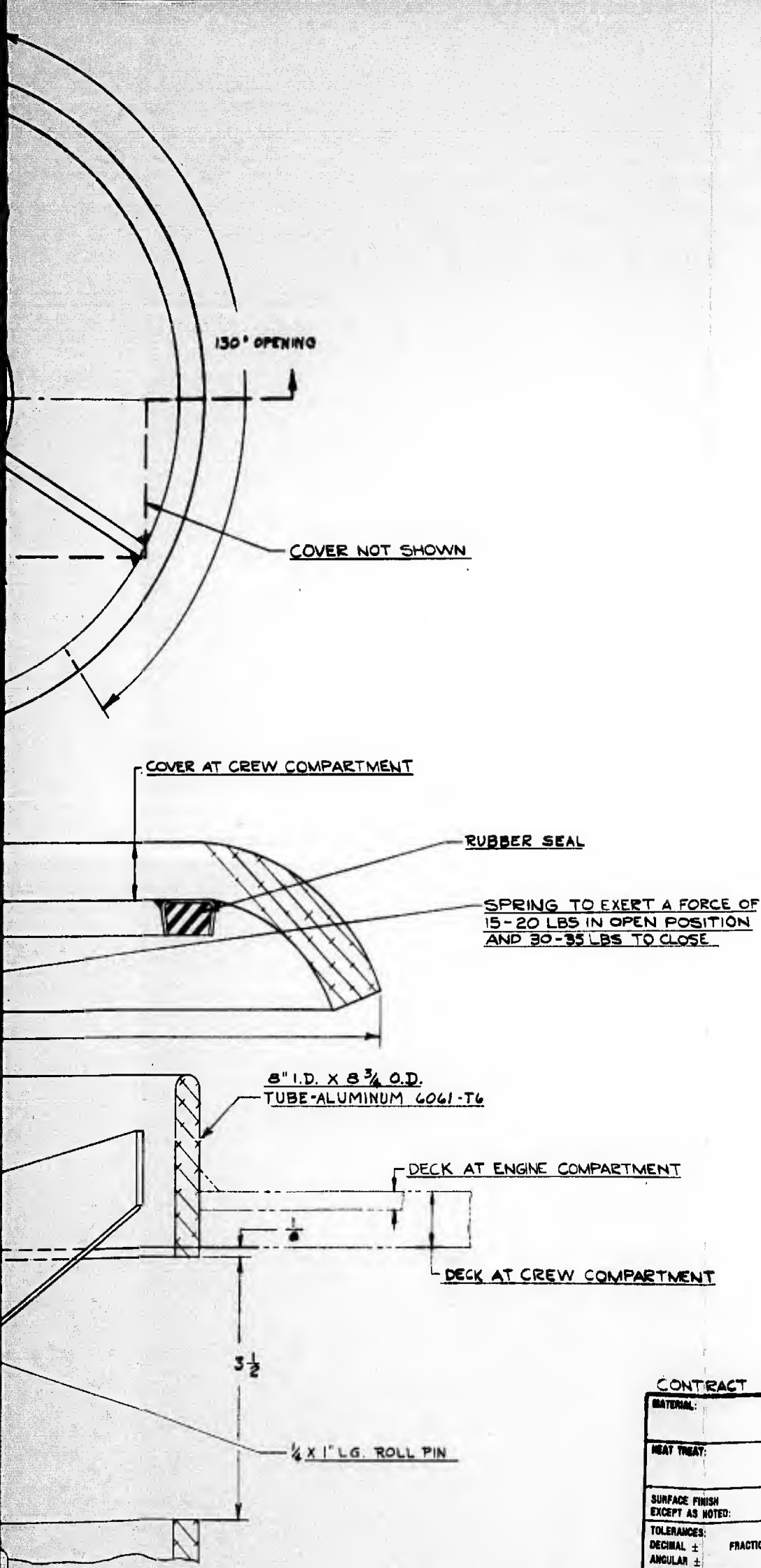
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27



1

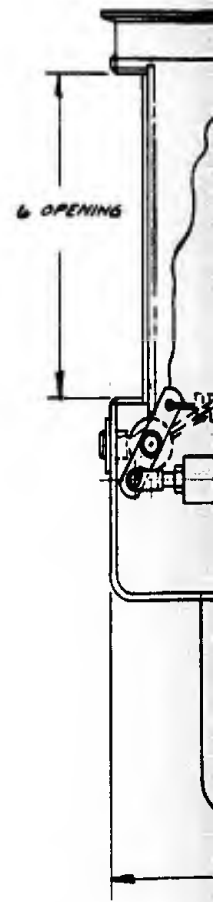
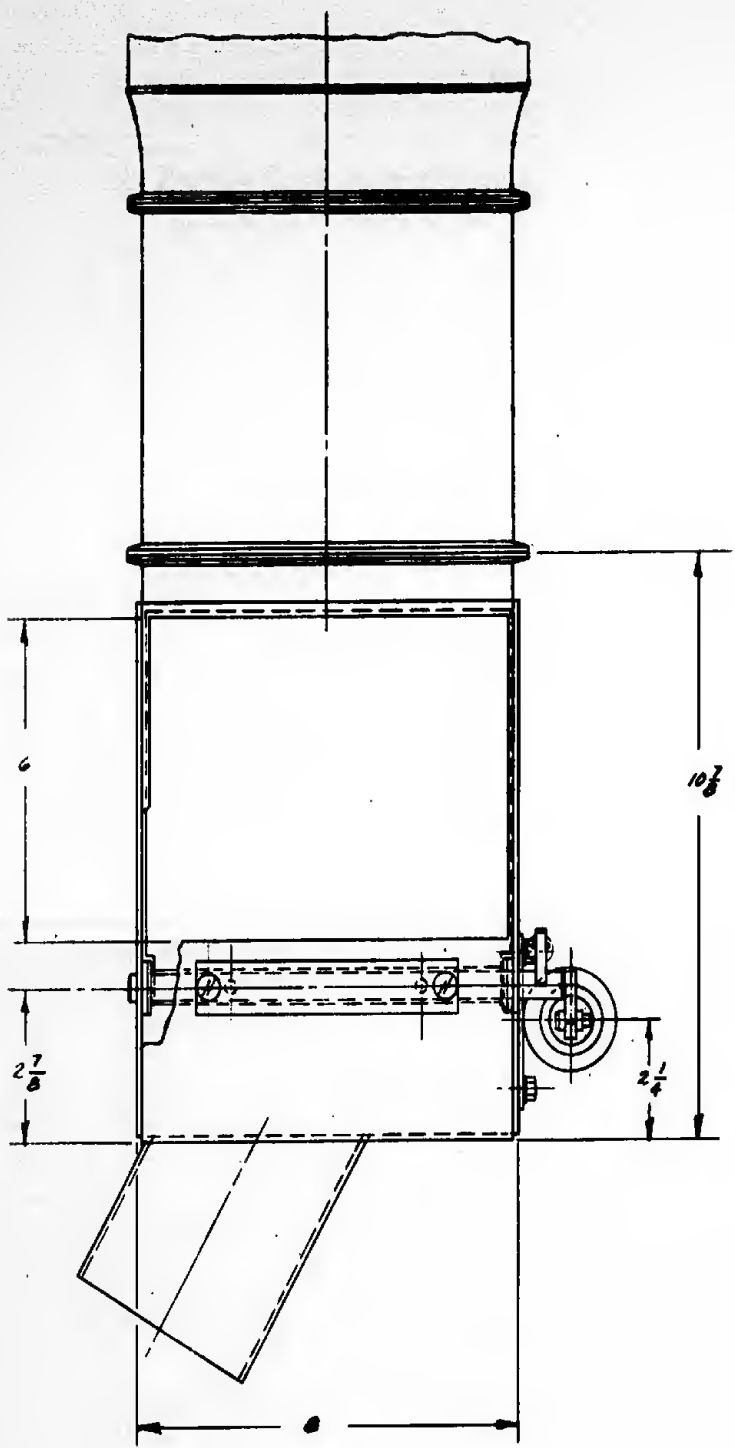


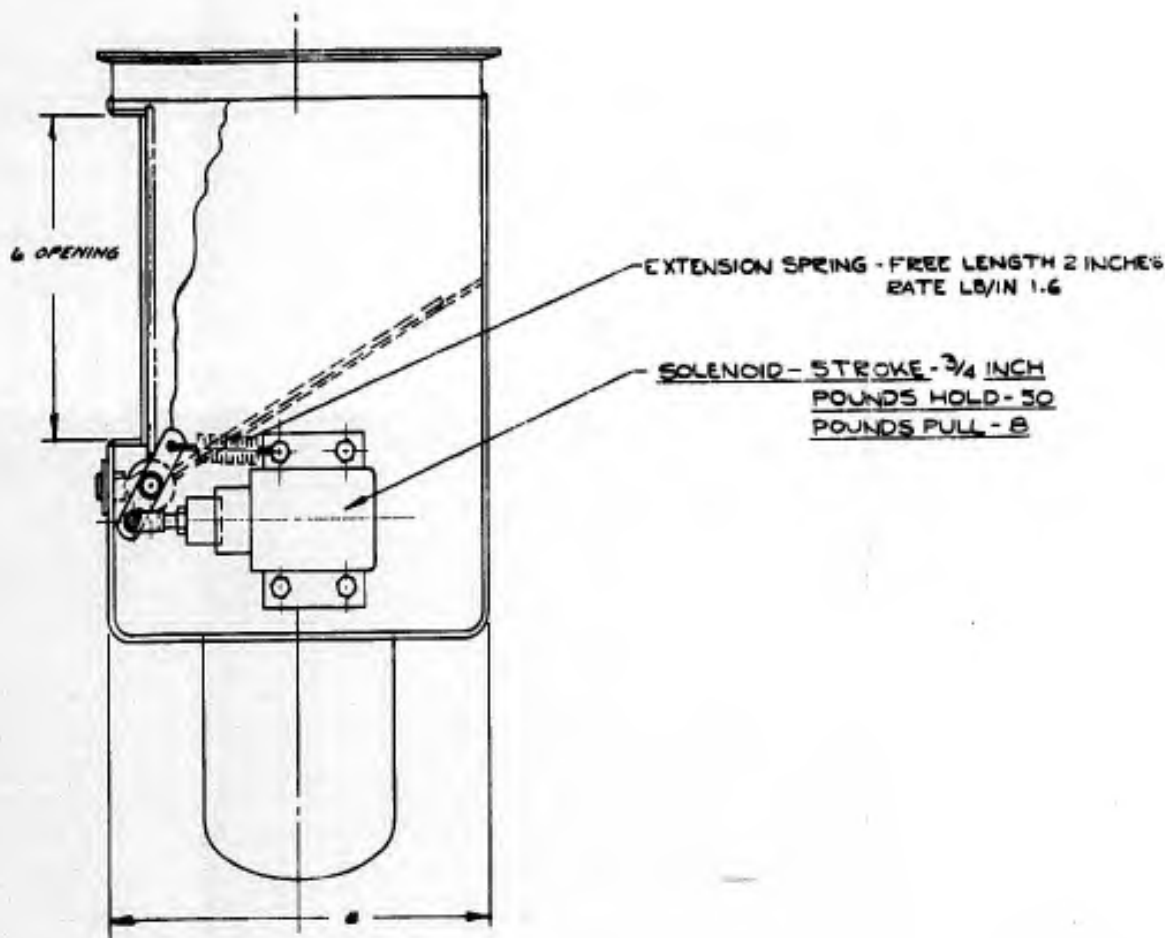


CONTRACT 4561-5

MATERIAL:	<i>M. Stoyanoff</i> 10-9-62	INGERSOLL KALAMAZOO DIVISION BORG-WARNER CORPORATION KALAMAZOO MICHIGAN
	DRAWN BY	
HEAT TREAT:	<i>A. J. Smith</i>	RESEARCH & DEVELOPMENT SECTION
	CHECKED BY	
SURFACE FINISH EXCEPT AS NOTED: <input checked="" type="checkbox"/>	APPROVED	DATE
	<i>A. J. Smith</i>	<i>4/17/62</i>
TOLERANCES: DECIMAL ±      FRACTIONAL ± ANGULAR ± BREAK CORNERS TO UNLESS OTHERWISE SPECIFIED	SCALE: <i>1/1</i>	WEIGHT: CALC: ACTUAL:
		TITLE: AIR SYSTEM INSTALLATION
		DWG. NO. <b>D5K-5204</b>
		SHEET 2 OF 3 SHEETS

1

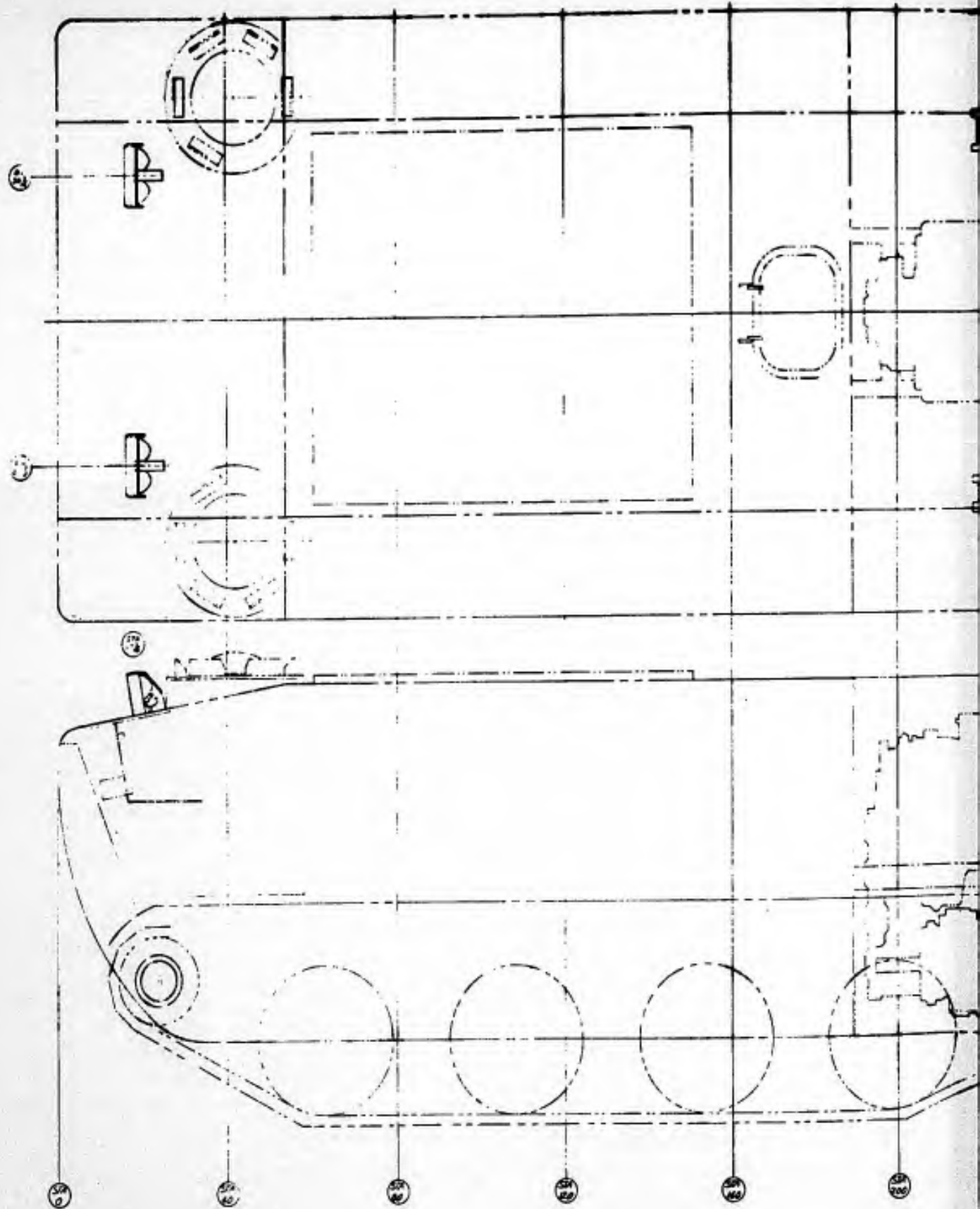




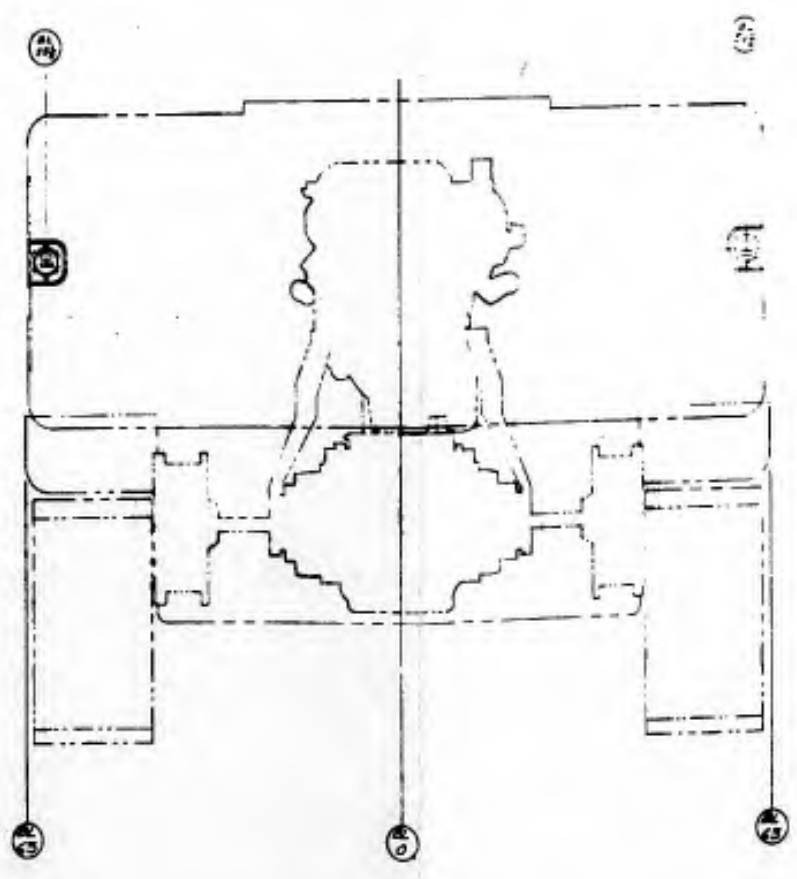
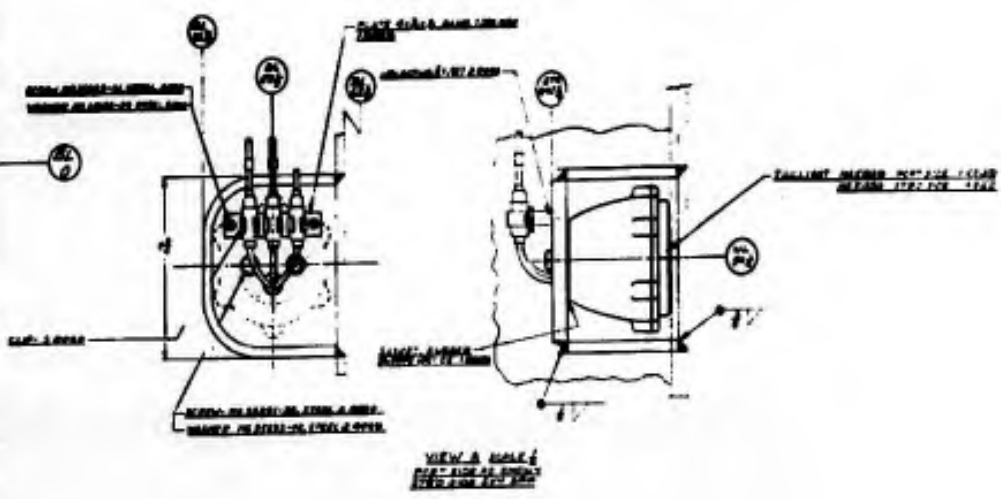
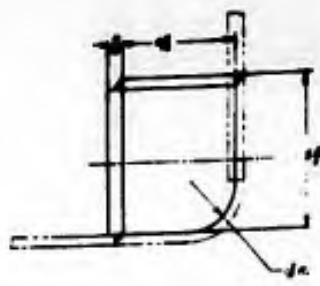
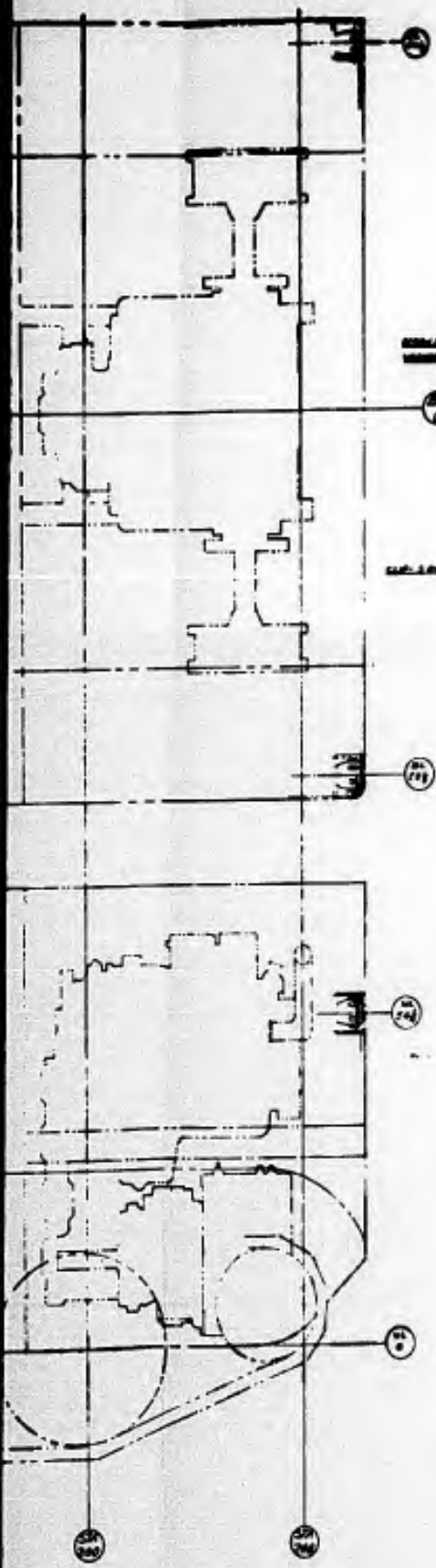
CONTRACT 4561-5

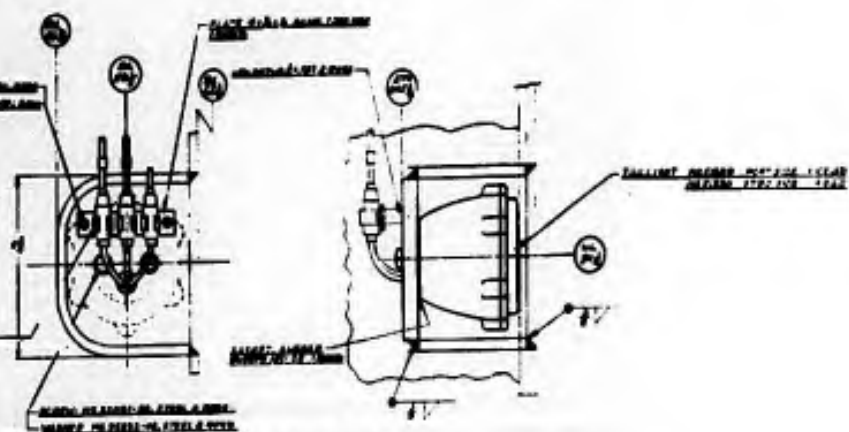
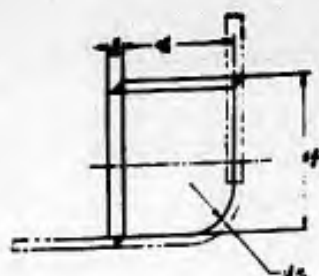
MATERIAL:	<i>10-9-63</i>	INGERSOLL KALAMAZOO DIVISION CORP-WARNER CORPORATION KALAMAZOO MICHIGAN
	<i>H. B. Lawrence</i>	
HEAT TREAT:	<i>H. B. Lawrence</i>	RESEARCH & DEVELOPMENT SECTION
SURFACE FINISH EXCEPT AS NOTED: <input checked="" type="checkbox"/>	APPROVED: <i>D. Smith</i>	DATE: <i>4/15/64</i>
	CHECKED BY: <i>H. B. Lawrence</i>	DATE: <i>4/17/64</i>
TOLERANCES: DECIMAL ± FRACTIONAL ± ANGULAR ± BREAK CORNERS TO UNLESS OTHERWISE SPECIFIED	SCALE: <i>1/2</i>	WEIGHT: CALC: ACTUAL:
		DWG. NO. <b>D, SK-5204</b>
		SHEET 3 OF 3 SHEETS

1

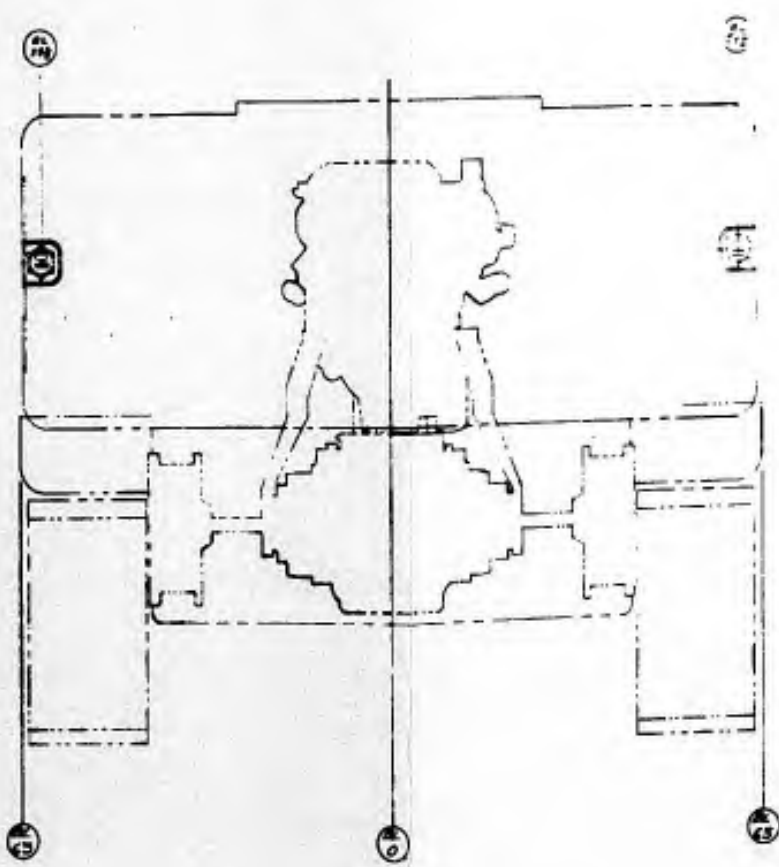


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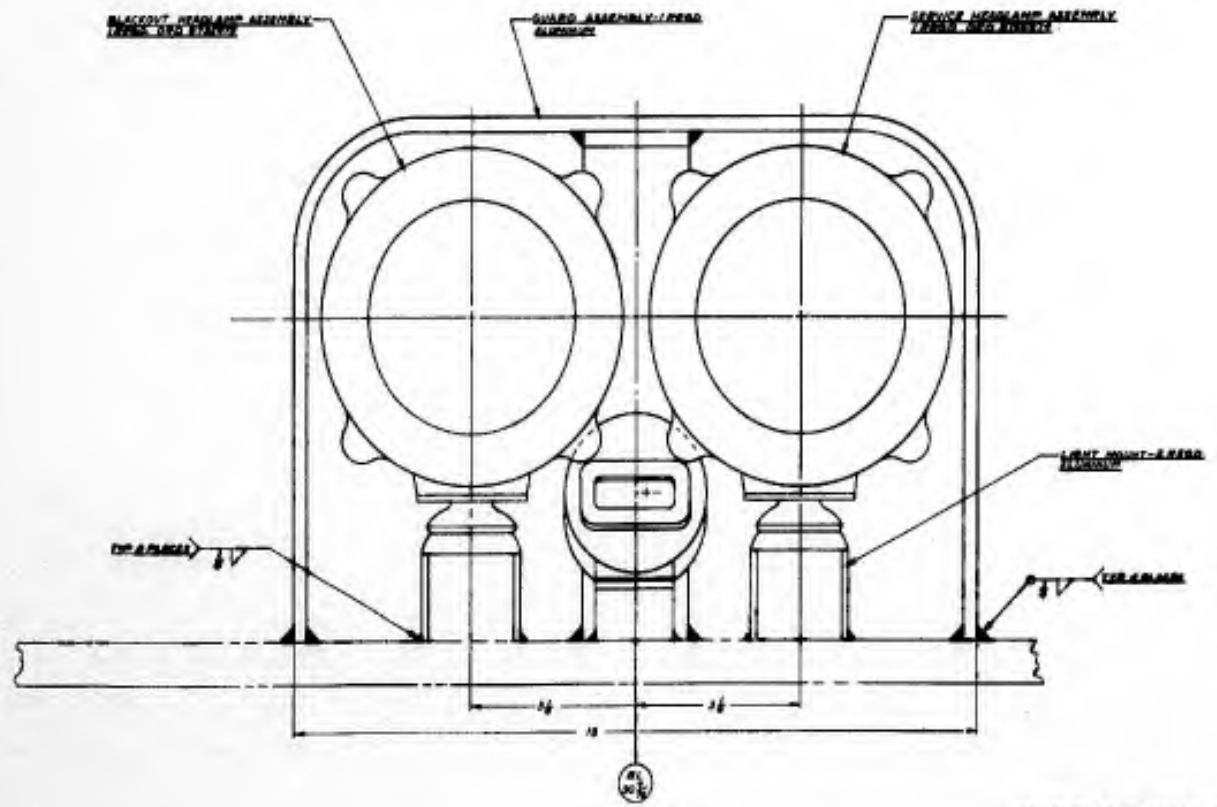


VIEW A SCALE  
1/8" = 1" (SEE FIG. 1)



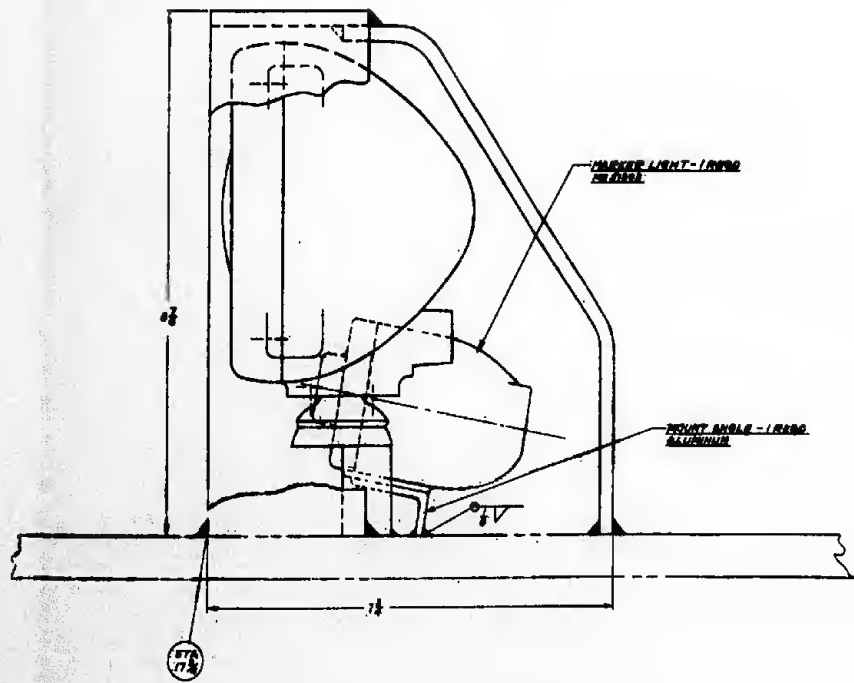
REV	DATE	BY	CHKD	APP'D
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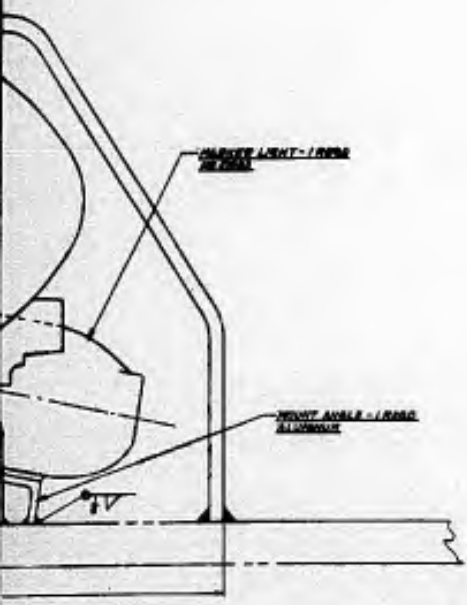
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HEADLIGHTS INSTALLATION  
LEFT SIDE ASSEMBLY  
VIEW FROM FRONT

2

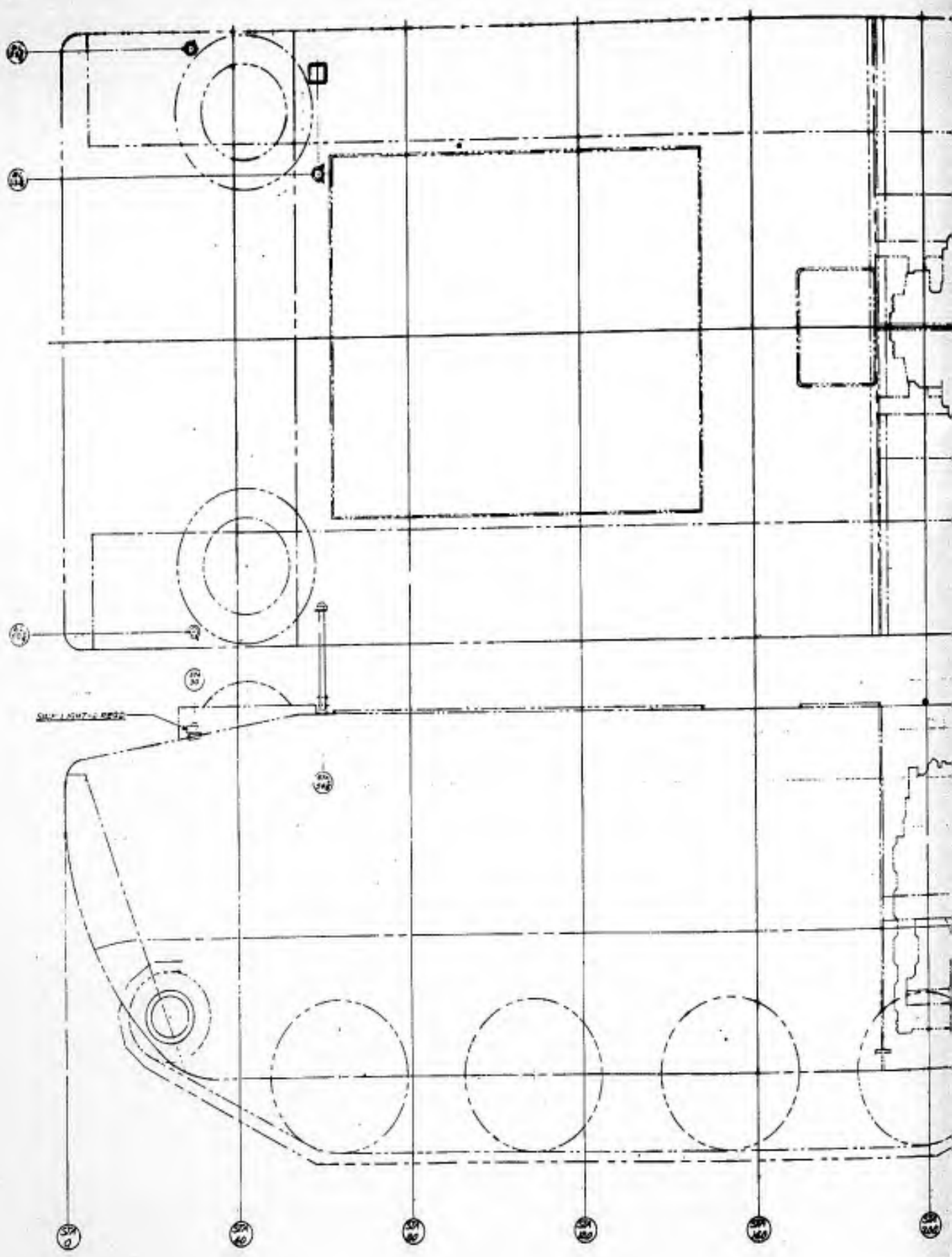




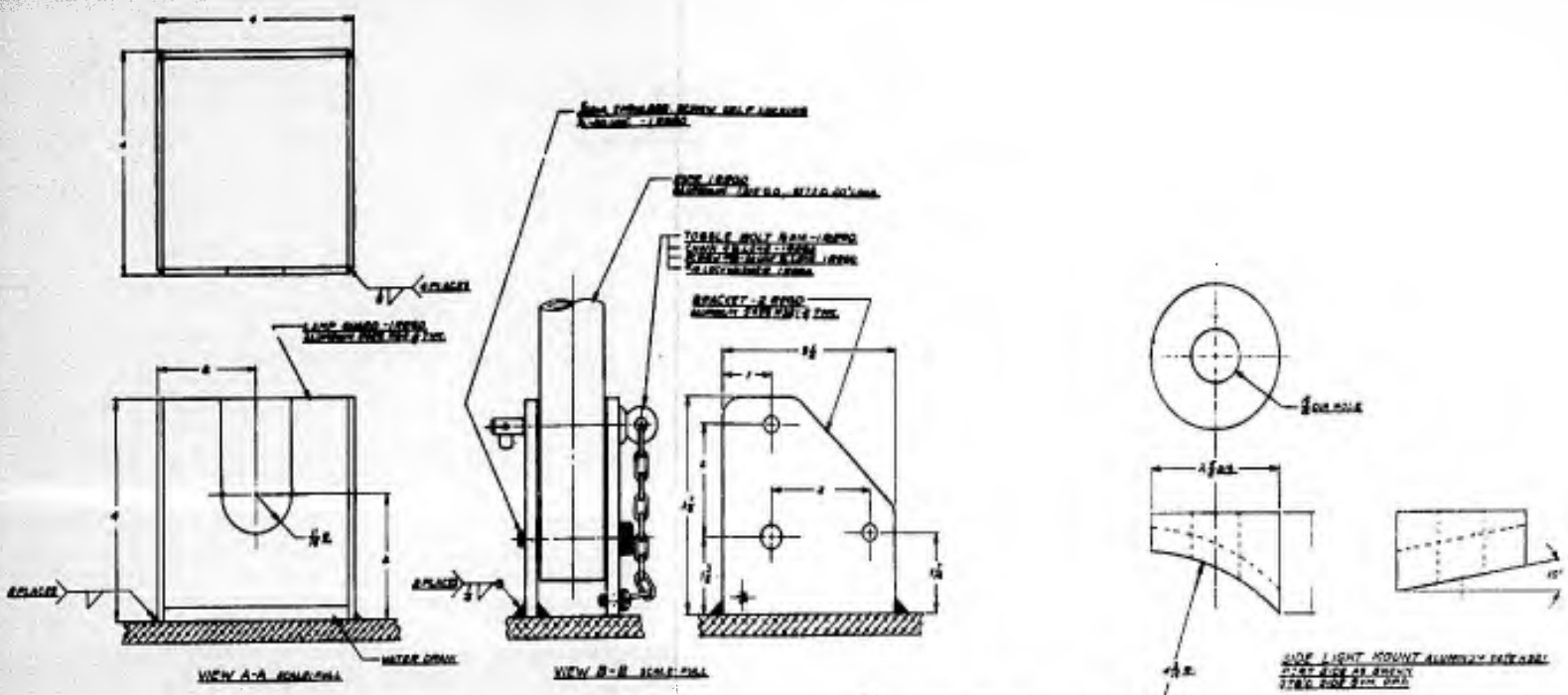
DATE:	BY: <i>[Signature]</i>	REVISIONS:
REV. NO.:	DESCRIPTION:	DATE:
APPROVED:	DATE:	BY:
DESIGNED:	DATE:	BY:
DRAWN:	DATE:	BY:
CHECKED:	DATE:	BY:
SCALE:	TITLE:	NO. OF SHEETS:
		2 OF 2

SM-5205

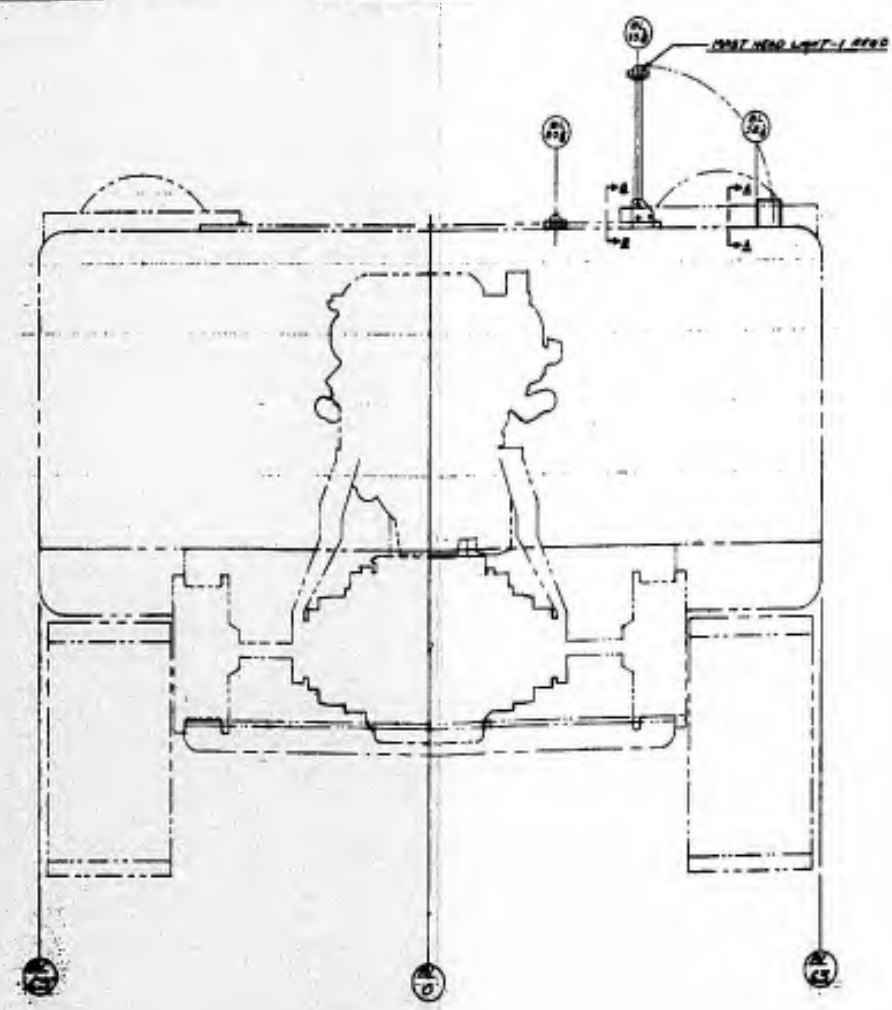
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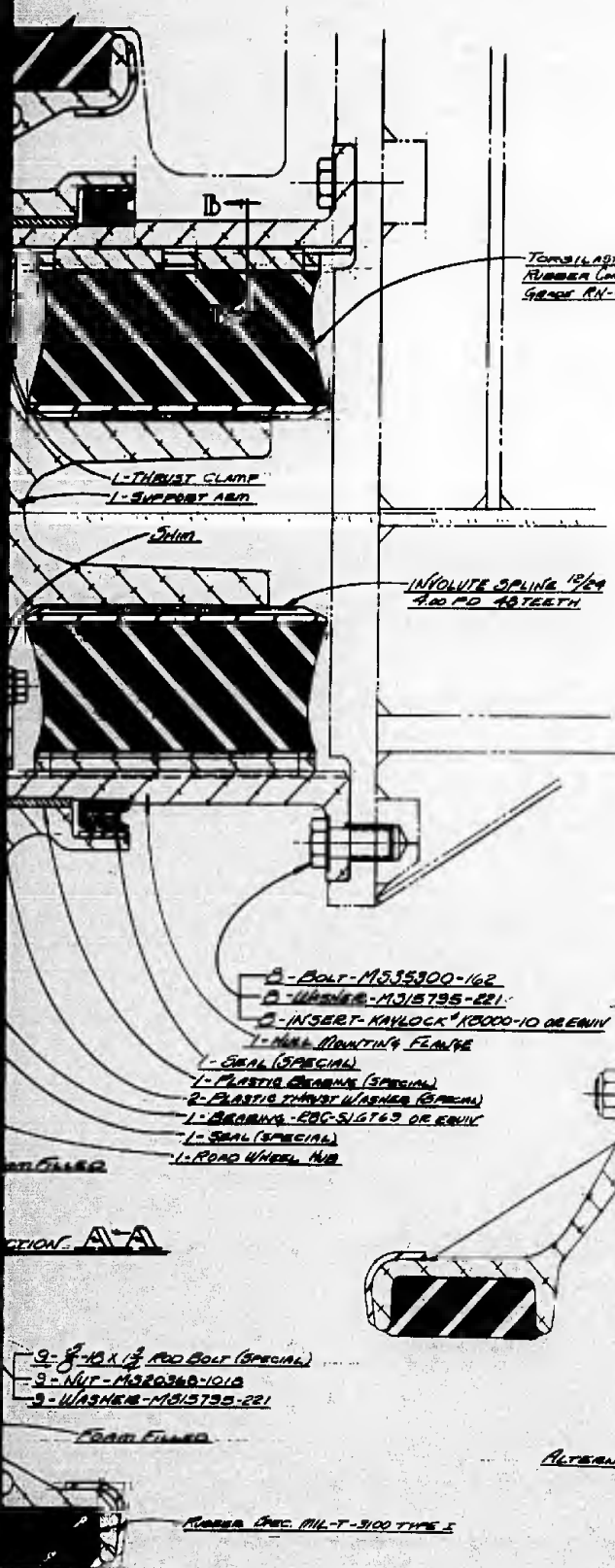
SIDE LIGHT MOUNT ALUMINUM EXTRUSION  
 1/2" DIA. AT 1/2" DIA.  
 1/2" DIA. AT 1/2" DIA.



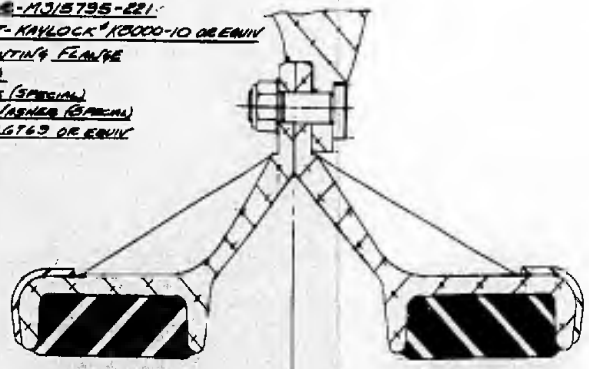
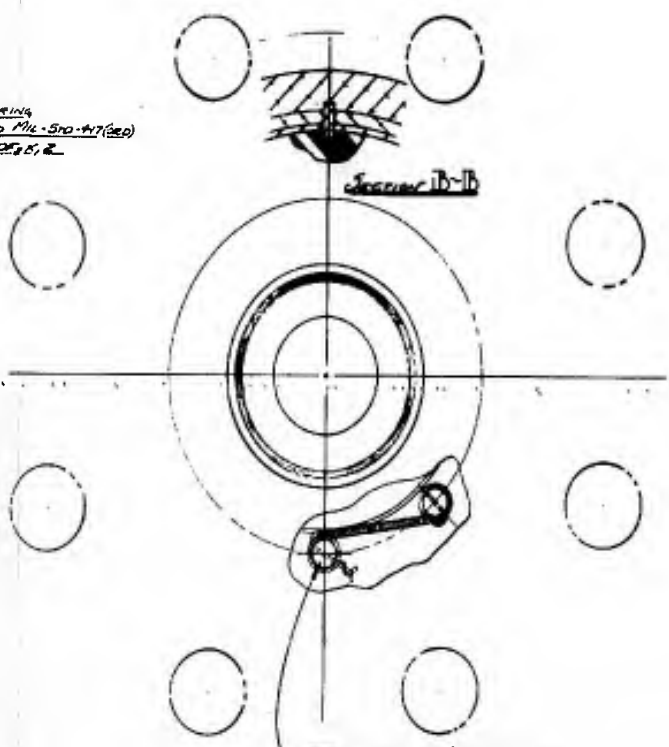
DESIGNED BY DRAWN BY CHECKED BY APPROVED BY	DATE SCALE SHEET NO. 4 OF 4	TITLE <b>INSTALLATION          ILLUSTRATION LIGHTS</b> <b>3X-2008</b>
--	--------------------------------------	---







TORSION PLASTIC SPRING  
 RUBBER COMPOUND MIL-SPO-417(2E)  
 GRADE RN-430 BPP'S, R



WEIGHT  
 ROAD WHEEL 20.3 lbs  
 BOLT/WASHER  
 Turnover Total 282.1 lbs

Cont. No. 454-23

DESIGNED BY	DATE	APPROVED BY	DATE
DRIVEN BY		TESTED BY	
TESTED BY		INSPECTED BY	
DATE		DATE	
REVISIONS		REVISIONS	
NO.	DESCRIPTION	NO.	DESCRIPTION
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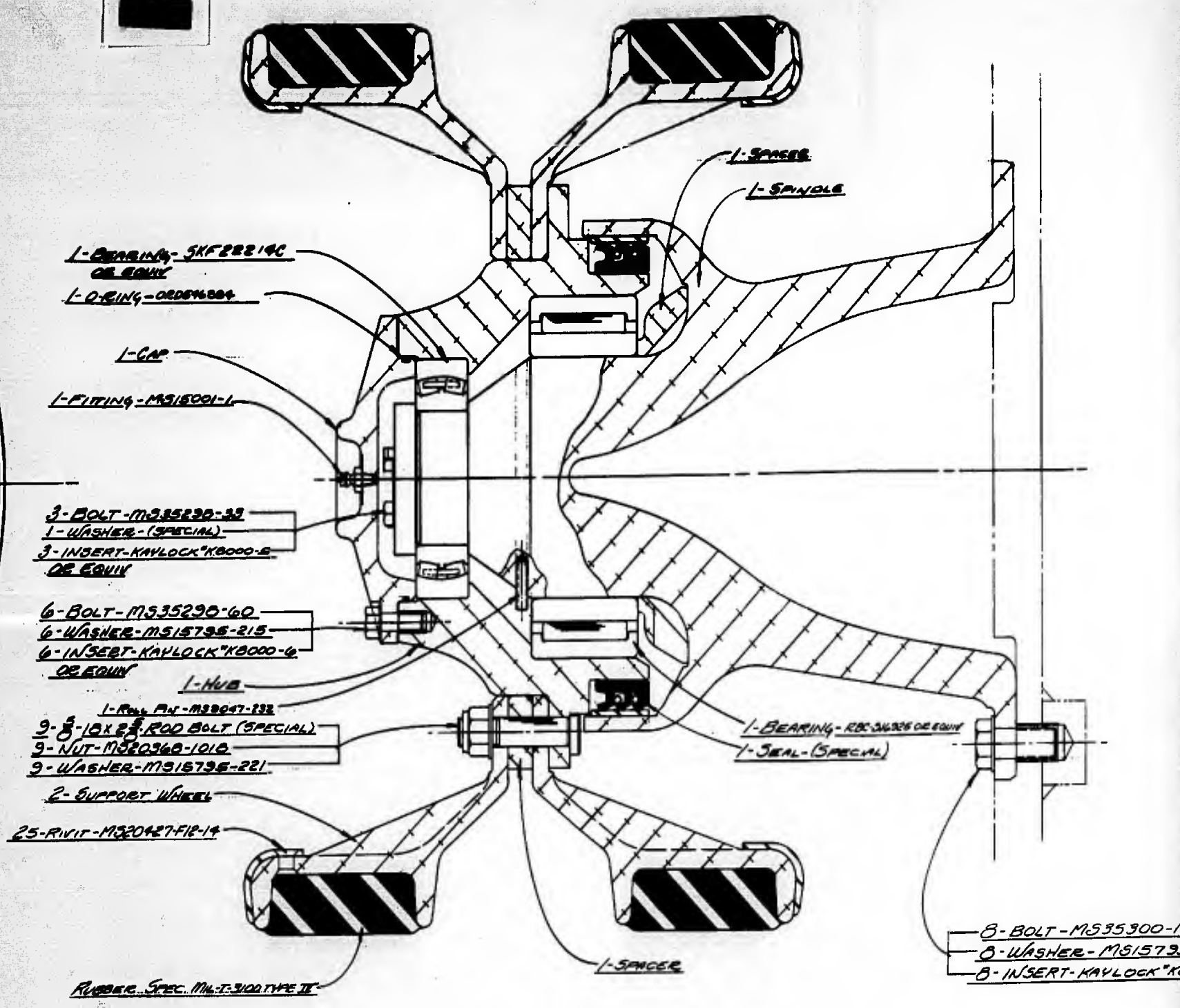
1



- 1-2
- 1-00
- 1-FIT
- 3-BOLT
- 1-WASH
- 3-INSE
- OR EQV
- 6-BOLT
- 6-WASH
- 6-INSE
- OR EQV
- 9-8-10K
- 9-NUT-M
- 9-WASH
- 2-SUP
- 25-RIVIT-M

ROB

# 2

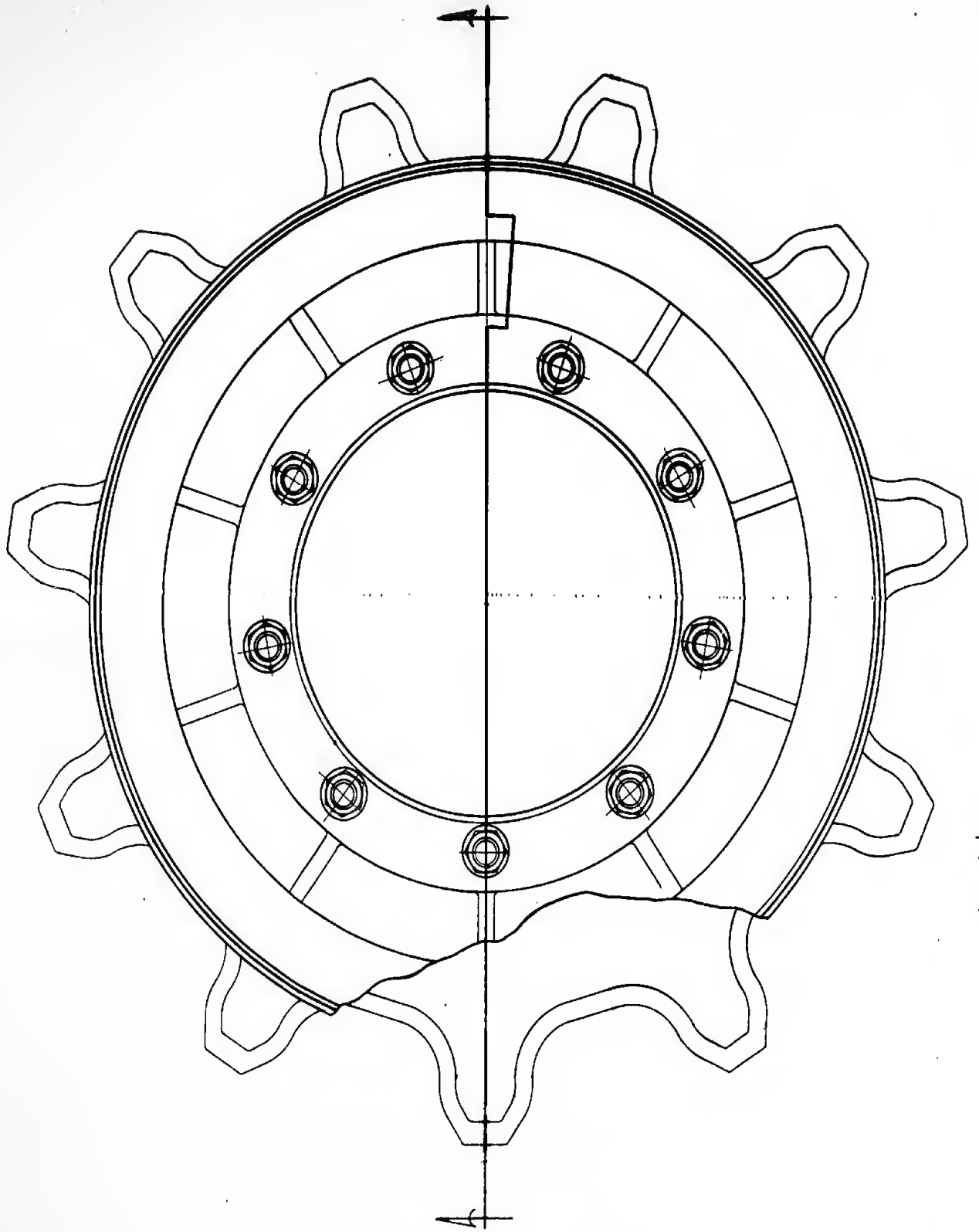


SECTION A-A

WEIGHT	
SUPPORT WHEELS	79.0 Lbs
SPACER	2.7 Lbs
<b>TOTAL ASBY</b>	<b>149.6 Lbs</b>

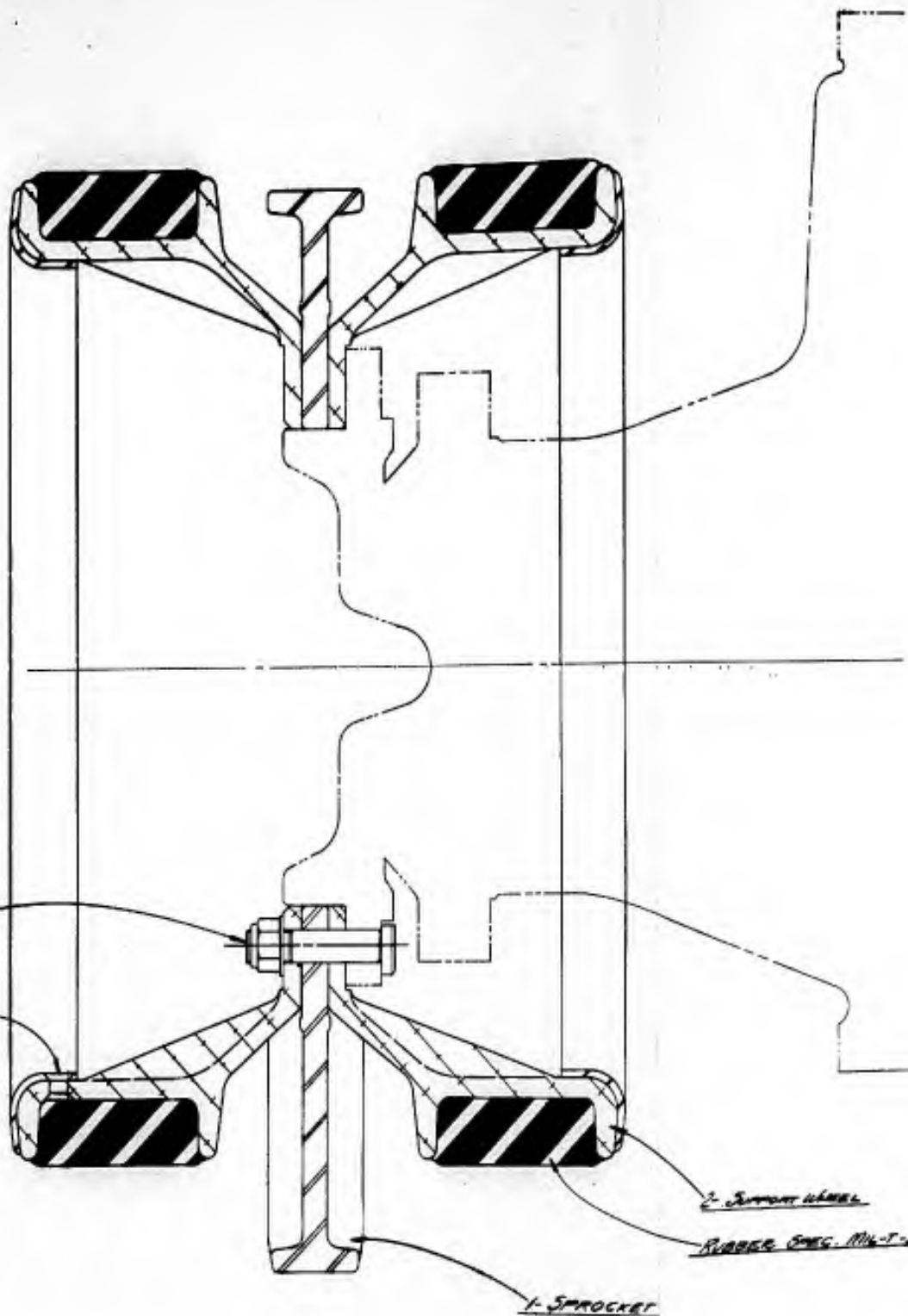


1



3-8-10  
3-NUT-10  
3-WASHER  
25-RIVET

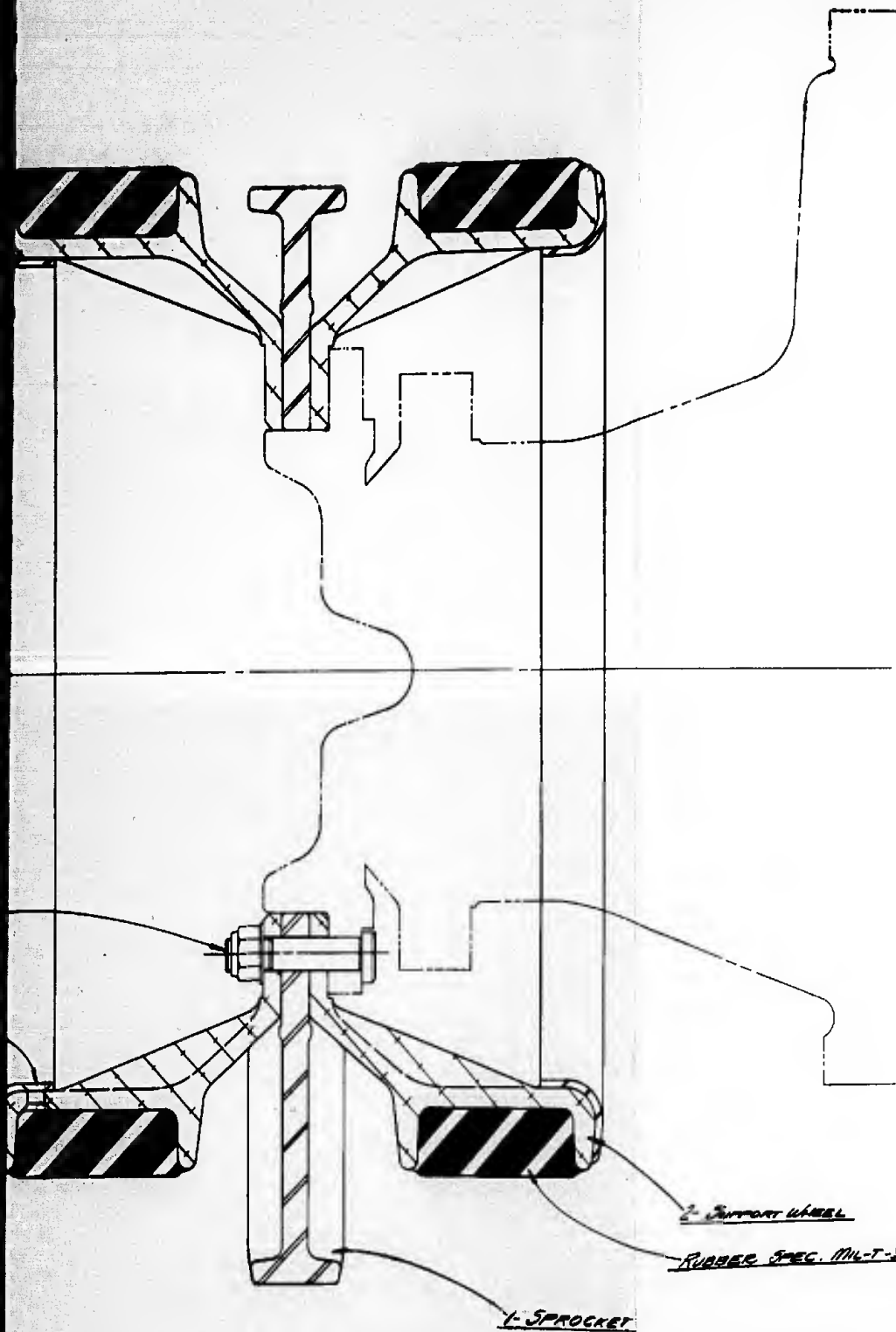
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- 3- 3/8" 10 X 3/4" ROD BOLT (GREEN)
- 2- NUT - M360360-1010
- 2- WASHER - M318738-221
- 25- RIVET - M360427-F1E-14

- 2- SUPPORT WHEEL
- RUBBER O-RING MIL-T-200 TYPE II
- 1- SPROCKET

<u>WEIGHT</u>	
SPROCKET	35.2 Lbs
SUPPORT WHEELS	73.0 Lbs
TOTAL ASSY 109.0 Lbs	



WEIGHT

SPROCKET 35.8 lbs  
SUPPORT WHEELS 73.0 lbs

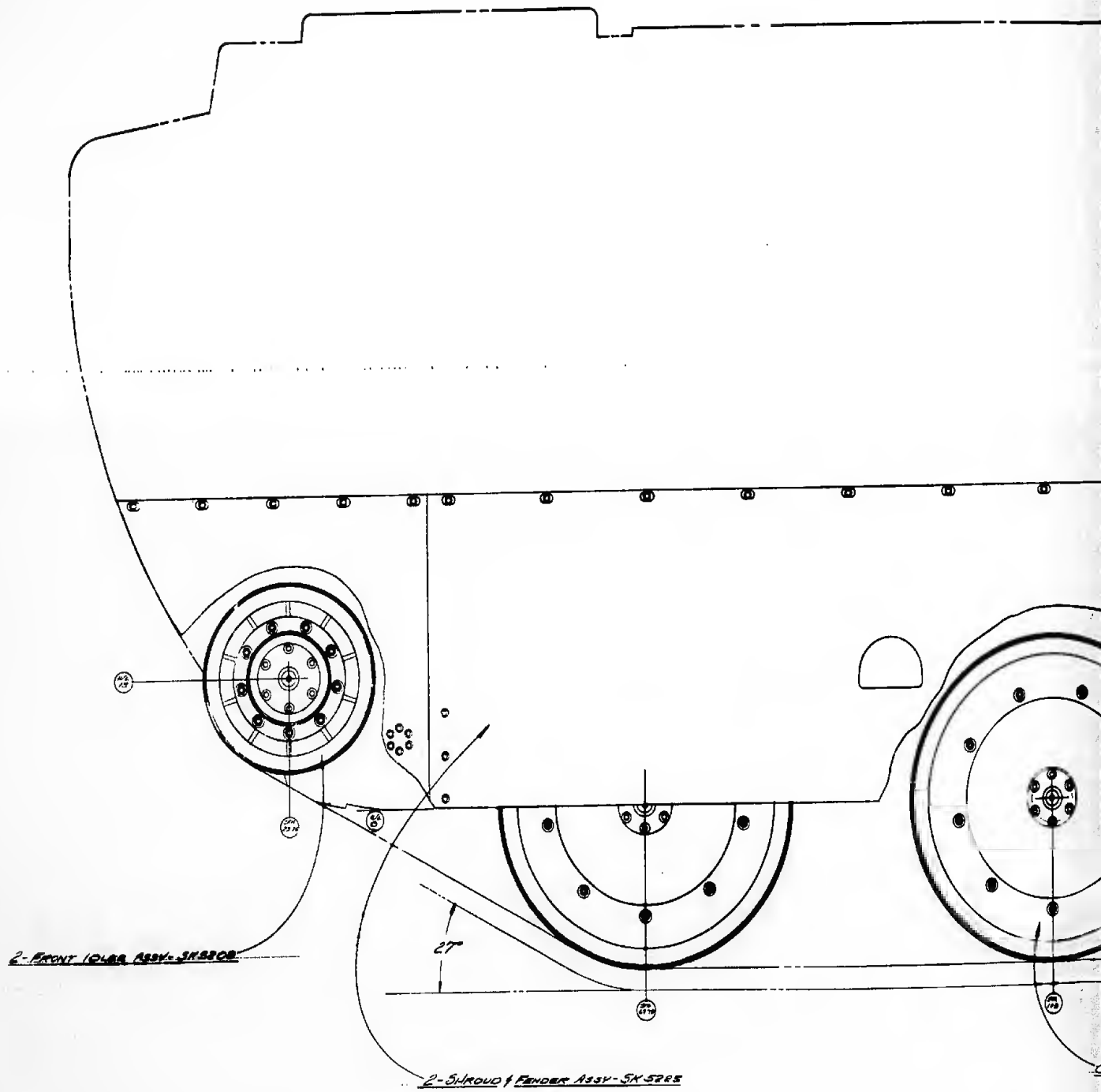
TOTAL ASSY 109.0 lbs

Part No. 4561-3-5

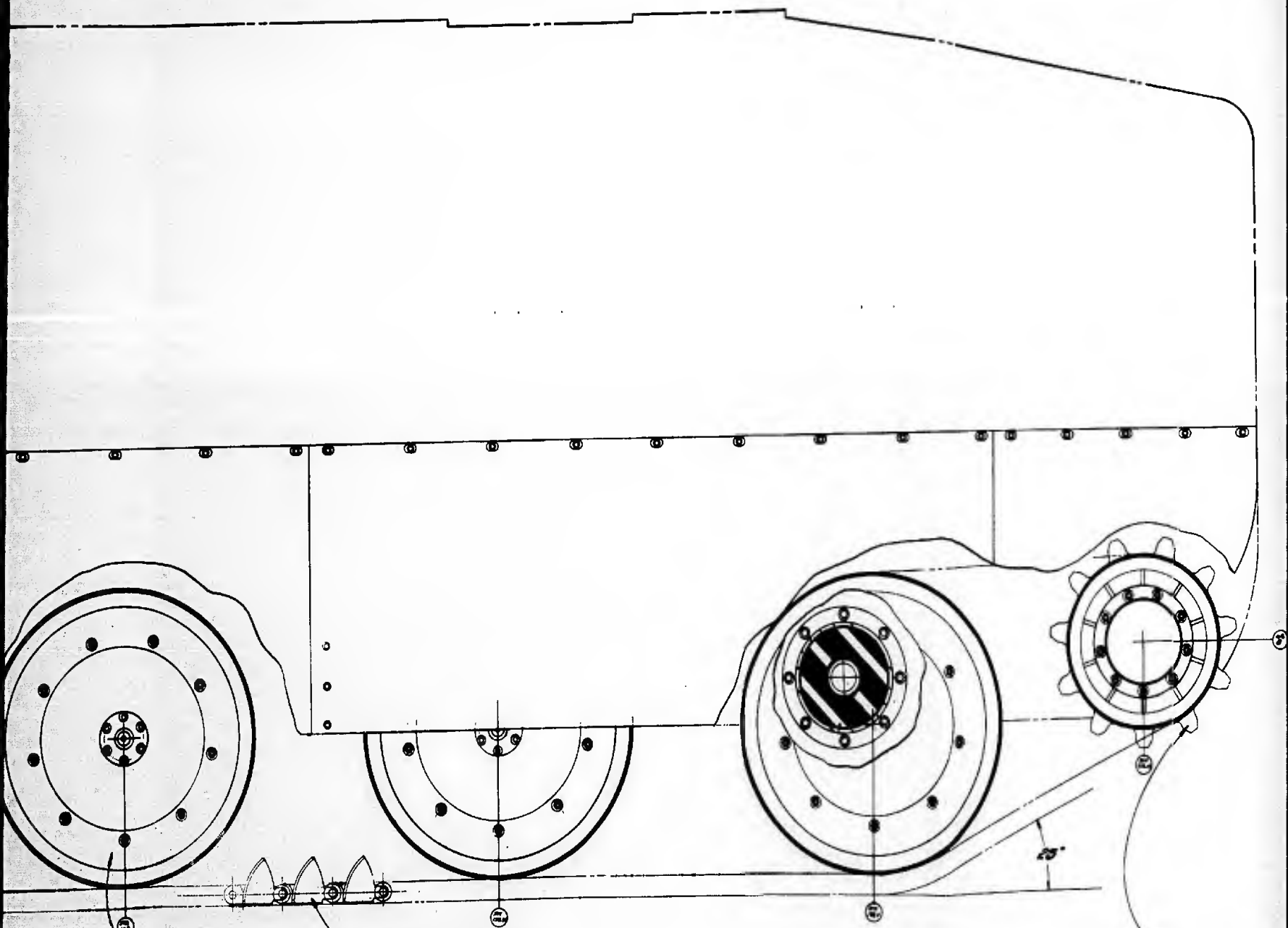
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--	--	---

358 3803

1



2



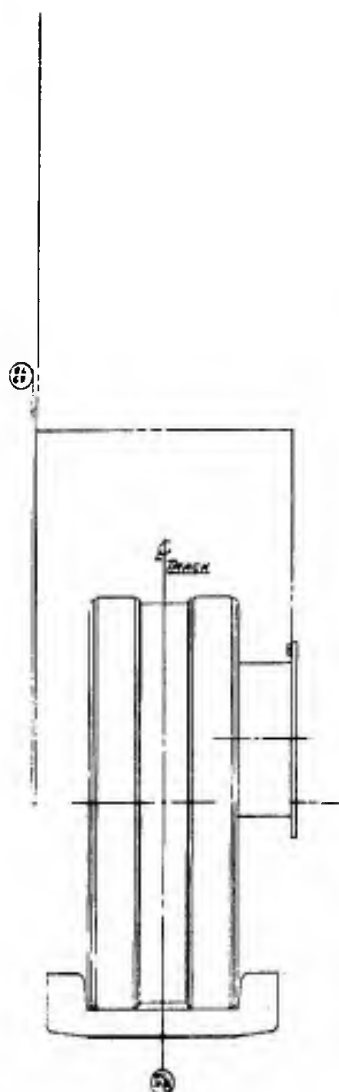
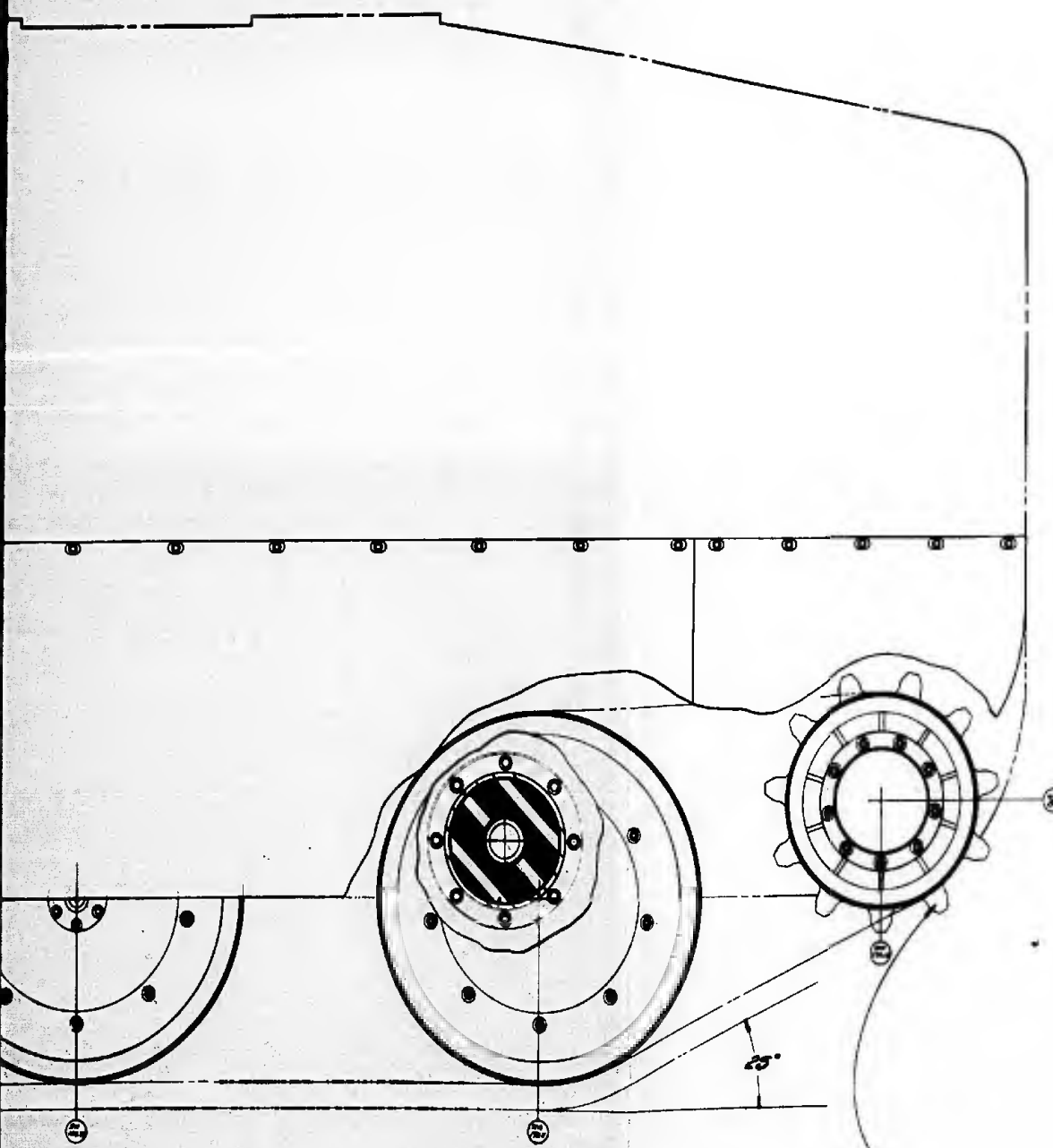
2 - TRACK ASSY - SK 5211  
3 - SUPPORT ARM / FRONT WHEEL ASSY - SK 5207

**WEIGHT**

2 - SUPPORT ARM & FRONT WHEEL ASSY - AT 232.5 LBS. - 1058.4 LBS.
2 - FRONT IDLER ASSY - AT 123.6 LBS. - 247.2 LBS.
2 - SPROCKET / SUPPORT WHEEL ASSY - AT 103.4 LBS. - 206.8 LBS.
2 - TRACK ASSY - AT 1327.4 LBS. - 2654.8 LBS.
2 - SHROUD & FENDER ASSY - AT 264.4 LBS. - 528.8 LBS.

TOTAL OPERATIONAL SYSTEM WEIGHT - 6757.6 LBS.

2 - SPROCKET & SHROUD



ASSY- 0K5211

**WEIGHT**

1-SUPPORT ARM & ROAD WHEEL ASSY-AT 236.5 LBS. 1059.0 LBS.  
 2-FRONT TRACK ASSY-AT 125.6 LBS. 523.0 LBS.  
 3-SPROCKET & SUPPORT WHEEL ASSY-AT 109.4 LBS. 518.0 LBS.  
 4-TRACK ASSY-AT 1587.4 LBS. 3854.0 LBS.  
 5-THRUST & PENDOR ASSY-AT 269.4 LBS. 528.0 LBS.

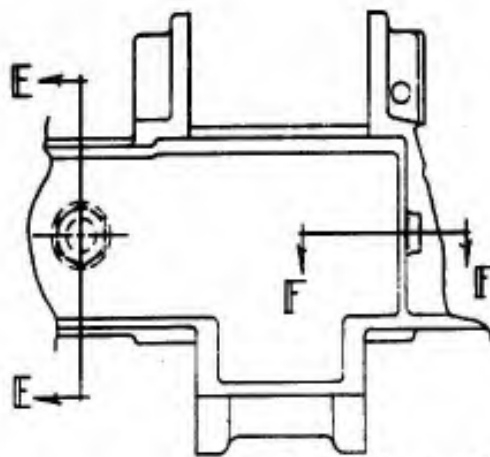
**TOTAL SUSPENSION SYSTEM WEIGHT- 6757.6 Lbs.**

2-SPROCKET & SUPPORT WHEEL ASSY- 5K5208

Part No. 0K5211-0

DESIGNED BY	DATE	REVISIONS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

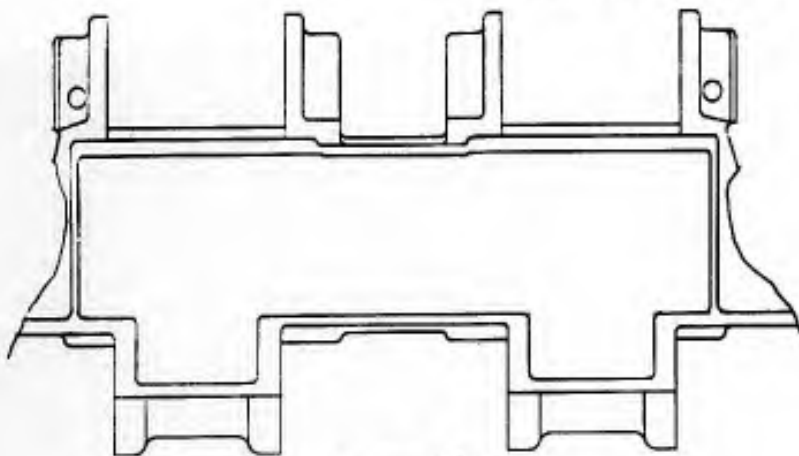
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*View Showing Bore of Pin*



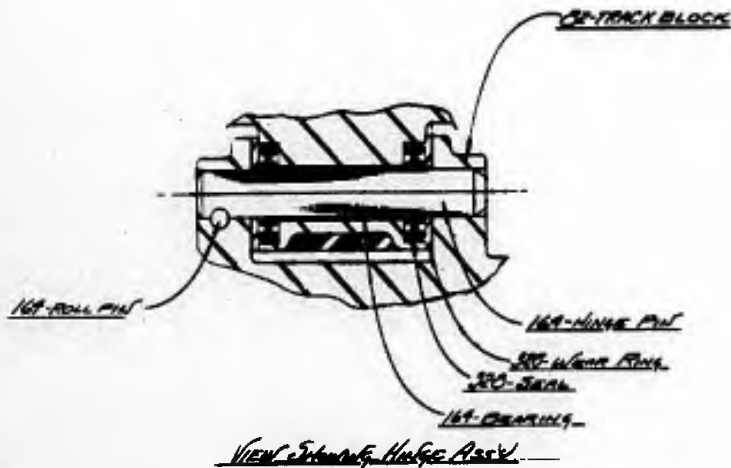
*SECTION E-E*



*Bottom View*



*SECTION B-B*

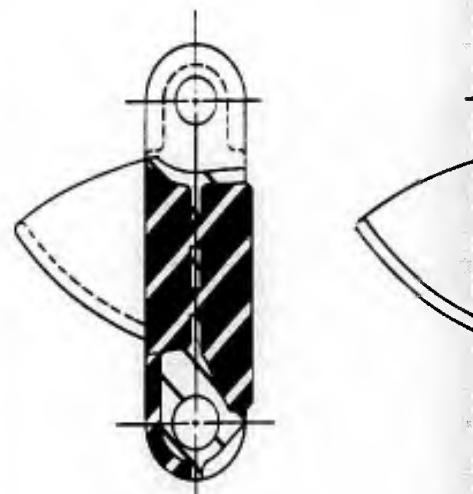
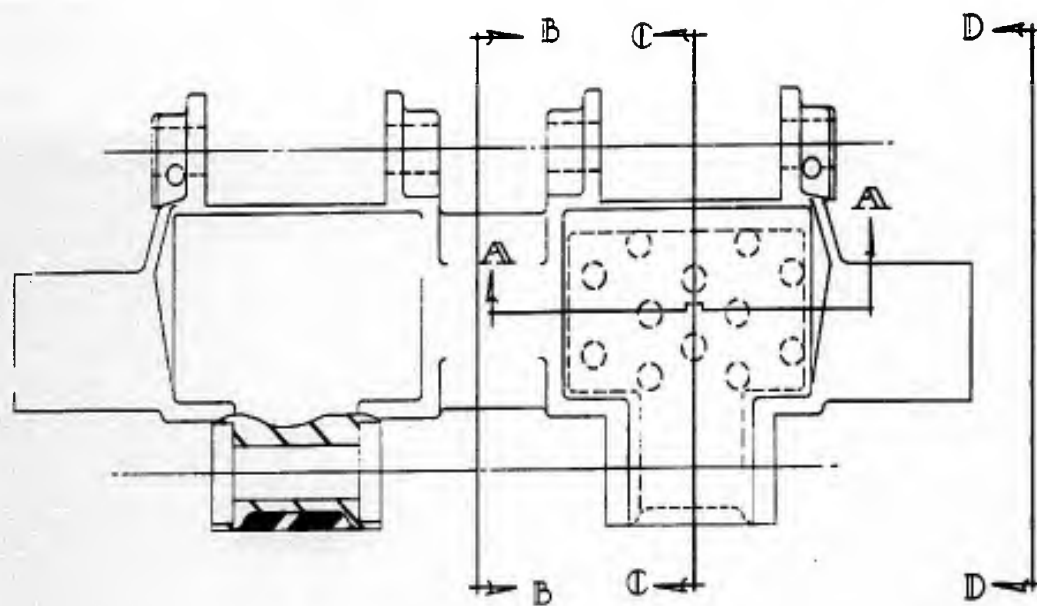


*View Showing Roller Assy*

2

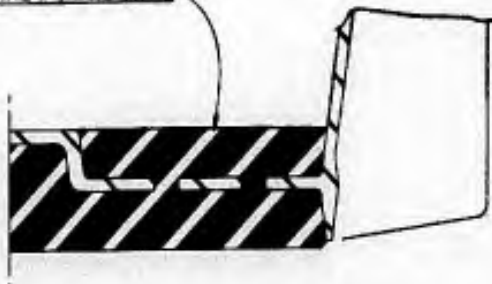


SECRET



SECTION C-C

FINISH SPEC. MIL-T-10318-TYPES



SECTION A-A

Weight (Approximate Values Only)

Per Part 235 lbs

Per Ft. 97 lbs

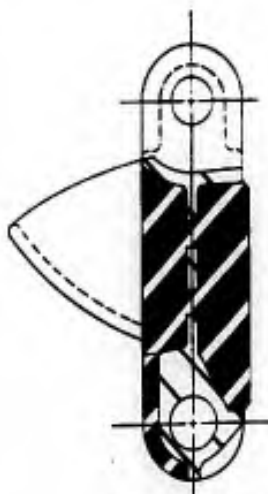
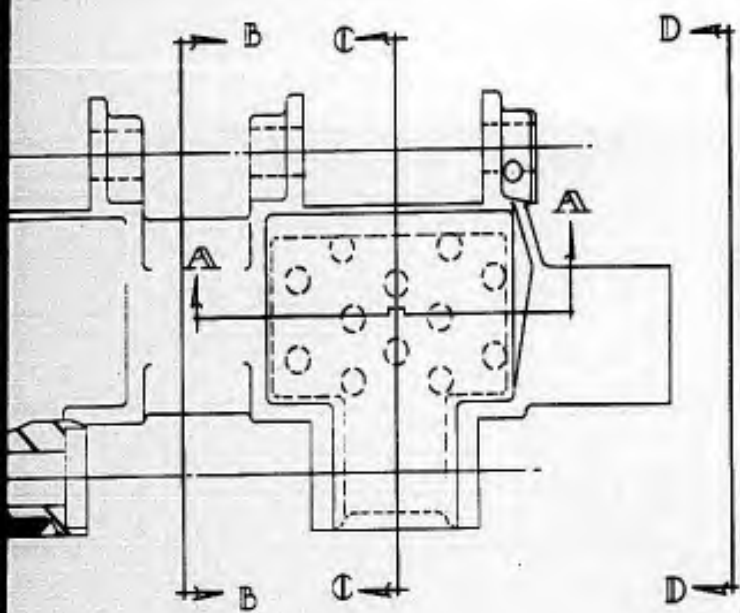
Per Assy 1327 lbs

Volume (Approximate Values Only)

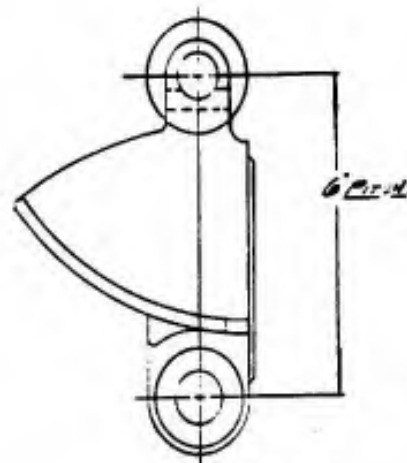
Per Part 25.60 cu in

Per Ft. 51.20 cu in

Per Assy 1327.00 cu in

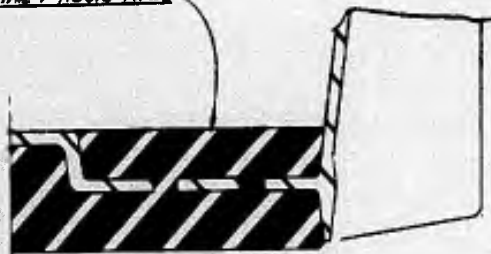


Section C-C



View D-D

RUBBER SPEC. MIL-T-11831E-TYPE 2



SECTION A-A

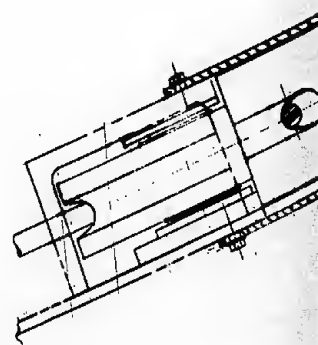
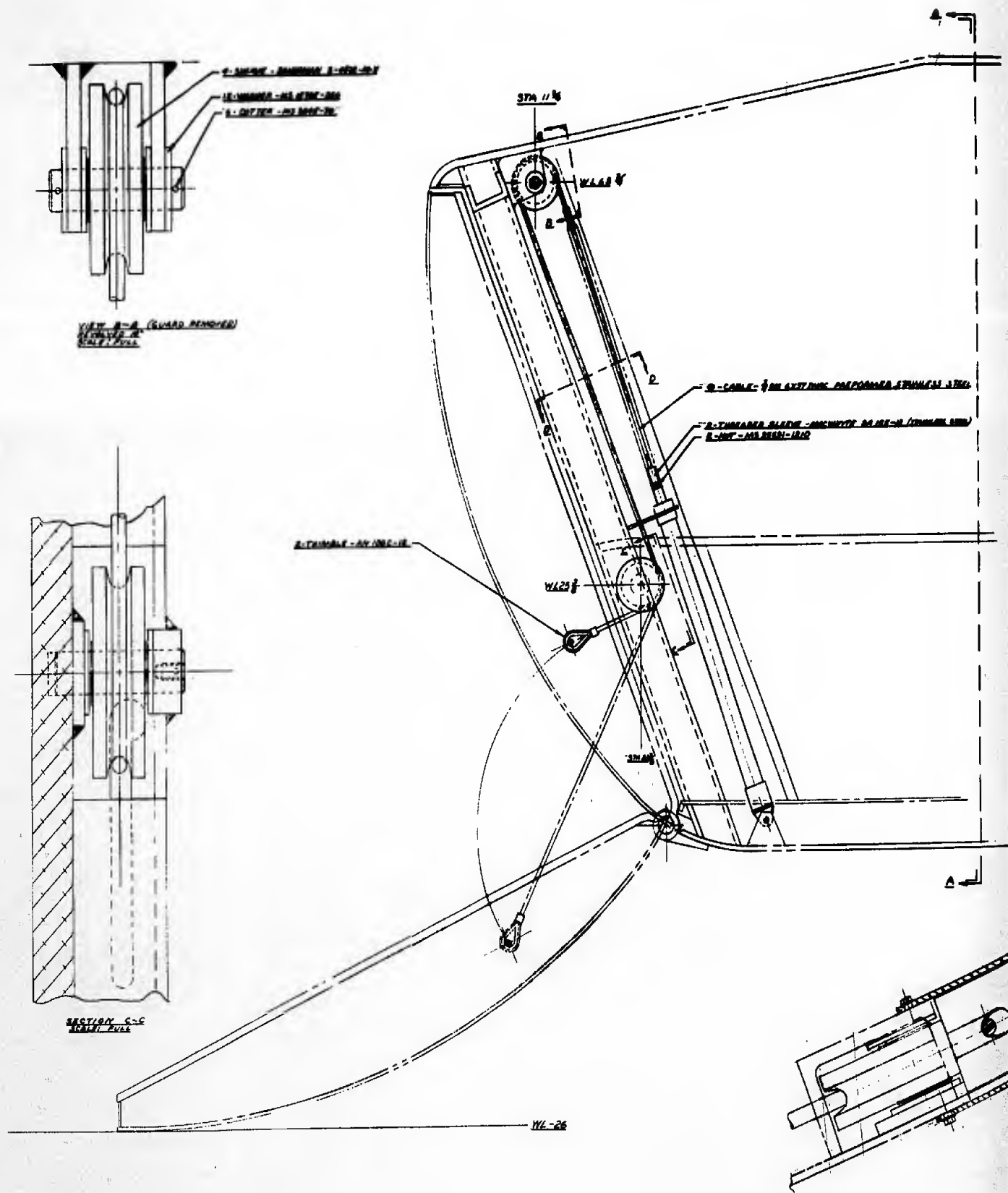
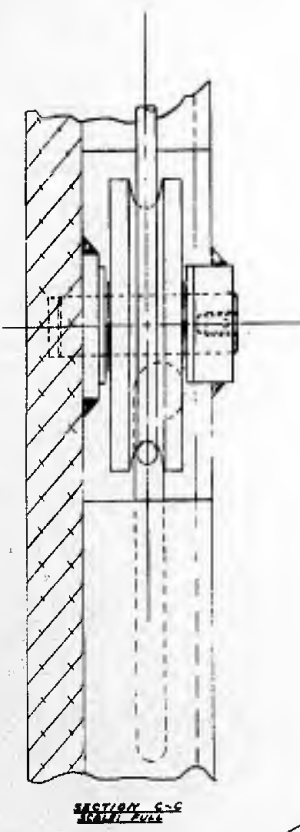
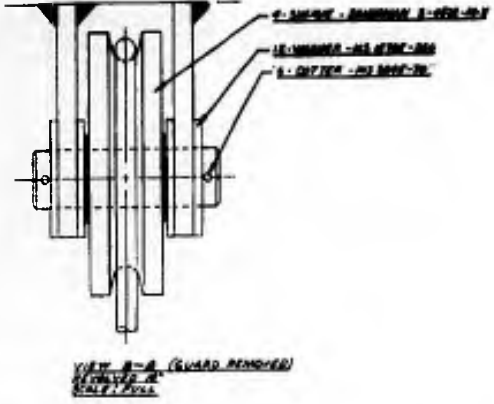
Weight (Approximate)  
 Per Piece 23.5 lbs  
 Per Ft 97 lbs  
 Per Assy 1387 lbs

Notes (Approximate)  
 Per Piece 23.5 lbs  
 Per Ft 97 lbs  
 Per Assy 1387 lbs

Case No. 4861-86

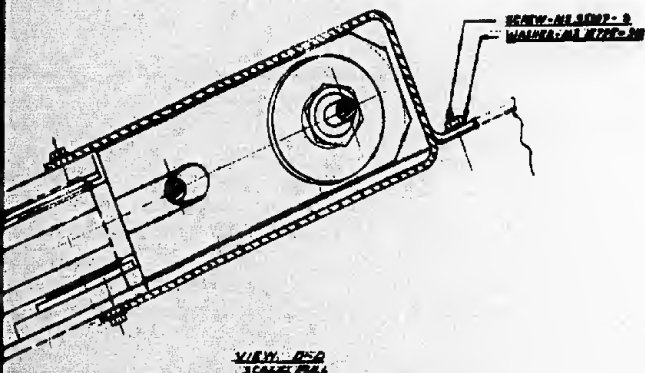
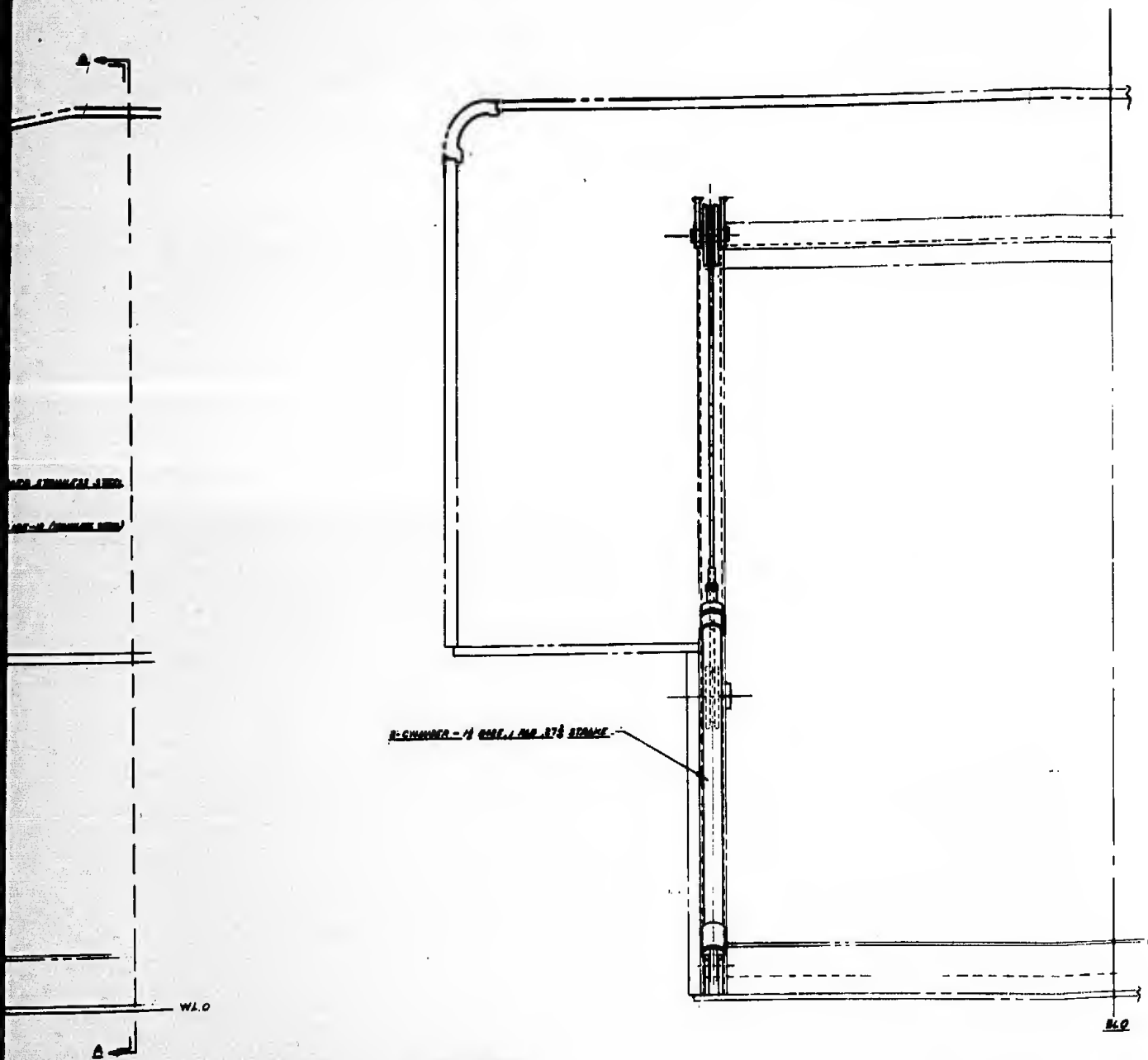
DATE	DESIGNED BY	APPROVED BY
	WORKS	
	BY	WORK ASSY
	DATE	1/27/54
	FILE NO.	3K 5211
	REV.	1

# 1



WL-26

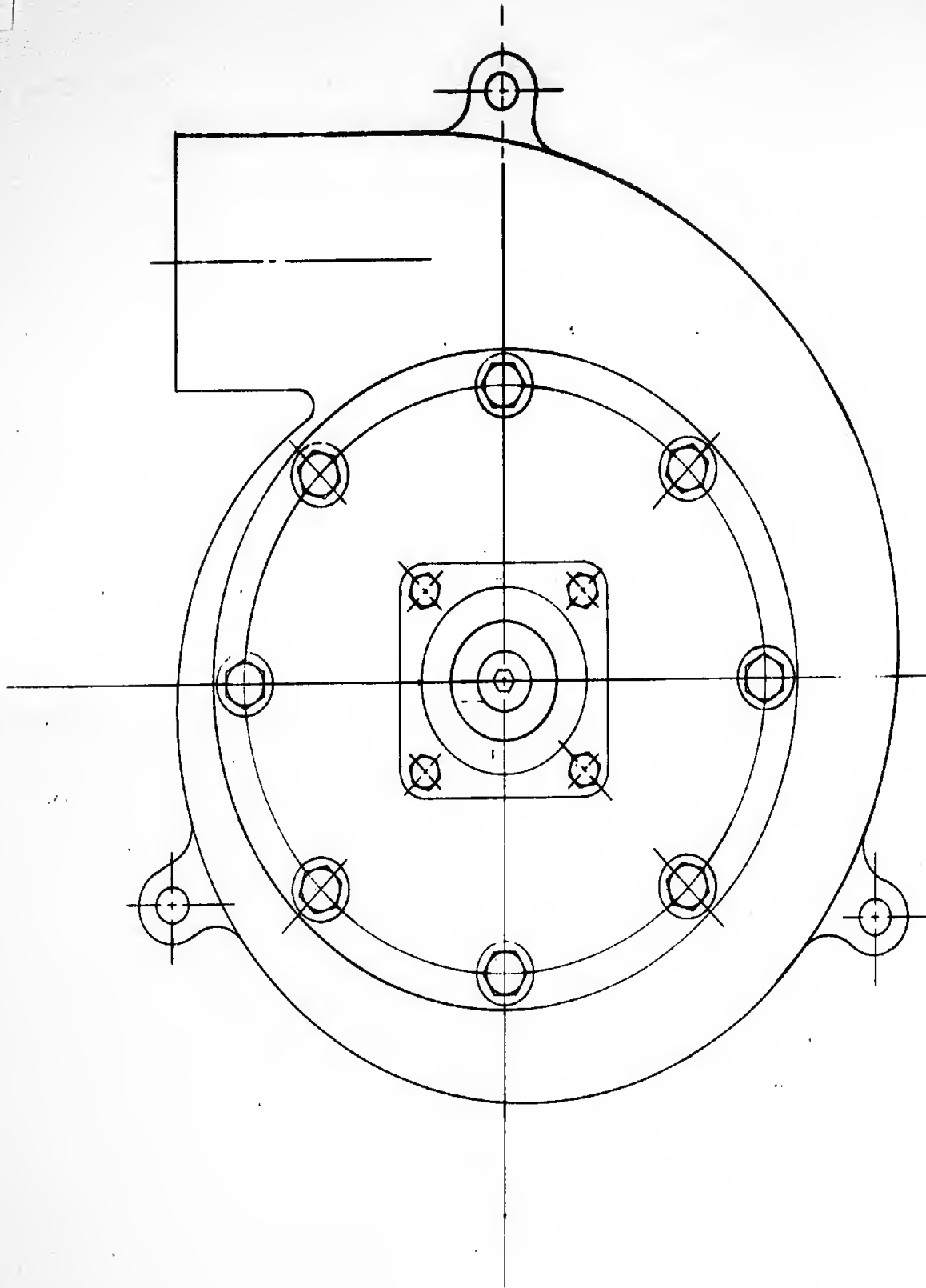
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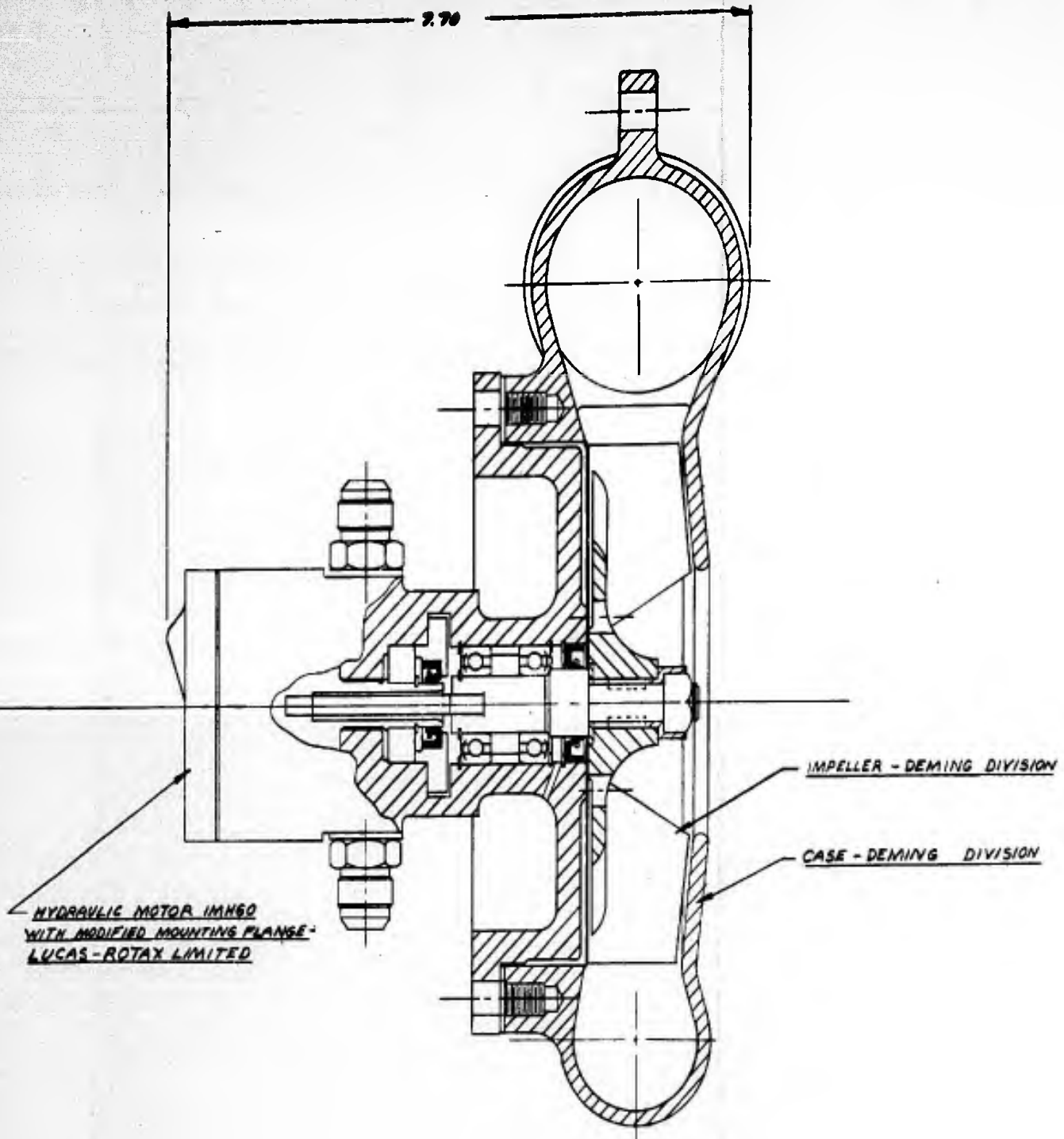
VIEW - B.C.  
SCALE 1:1



1



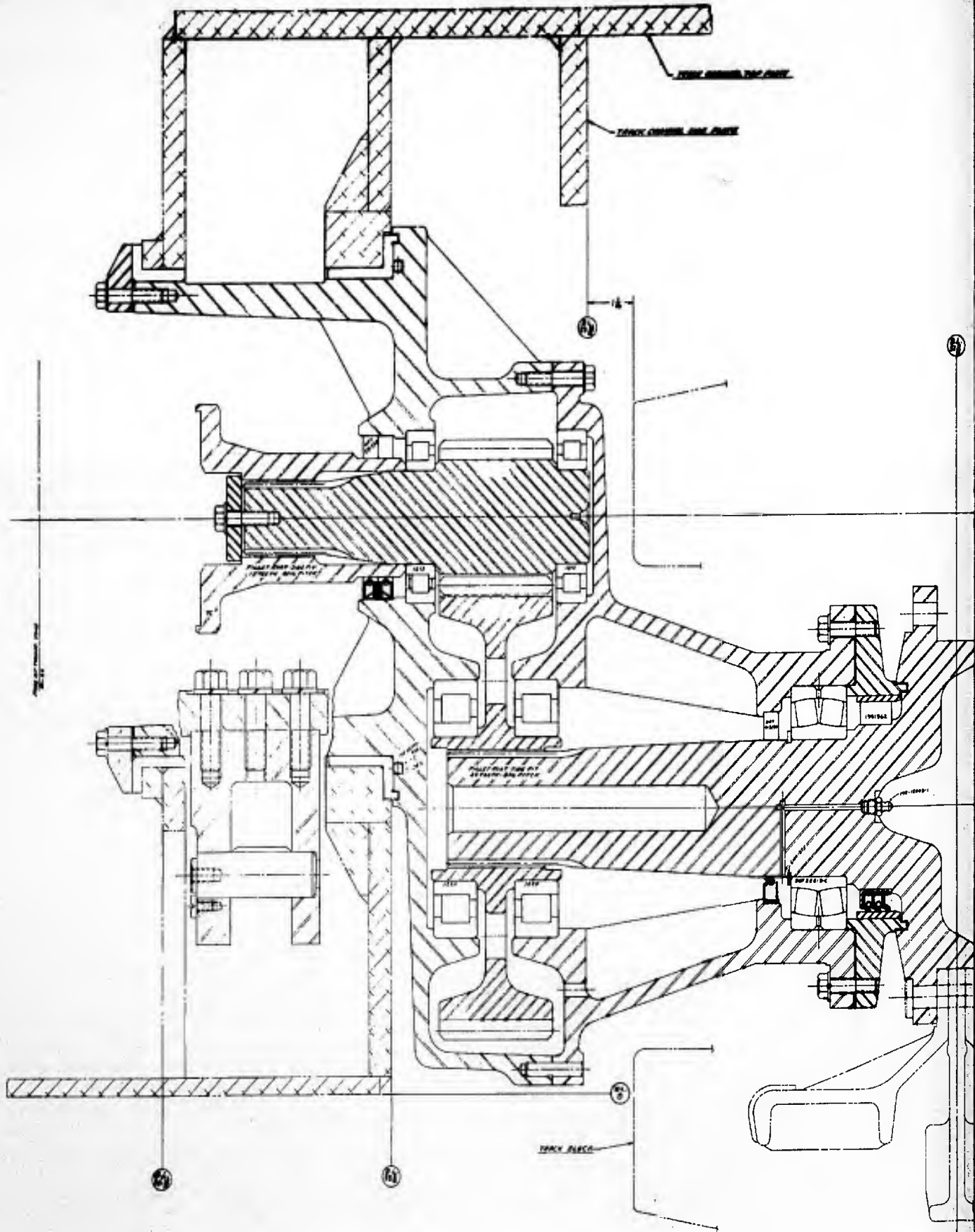
HYDRAULIC  
WITH MOD  
LUCAS - P



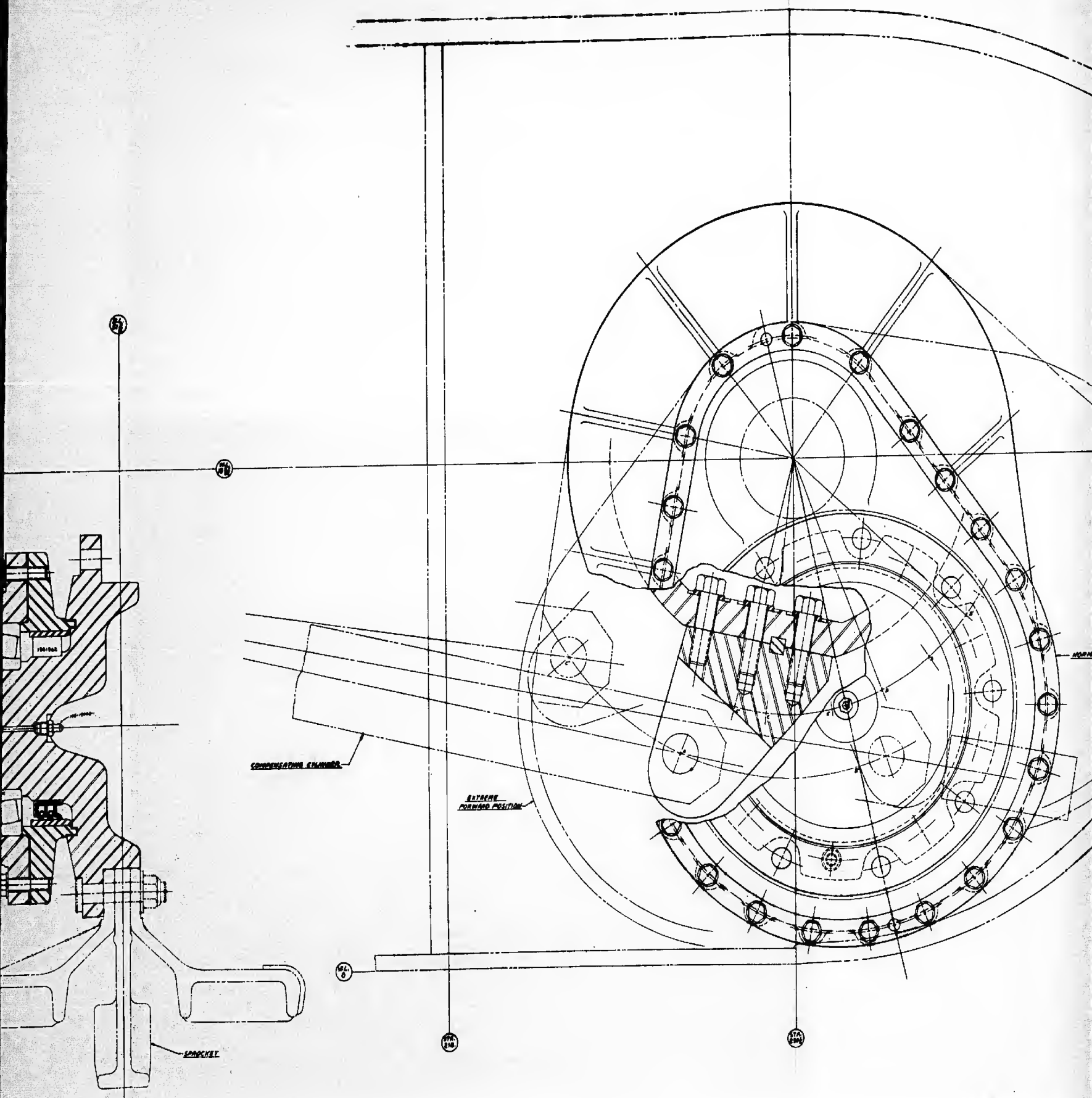
CONTRACT NO. 3 4561-6-6

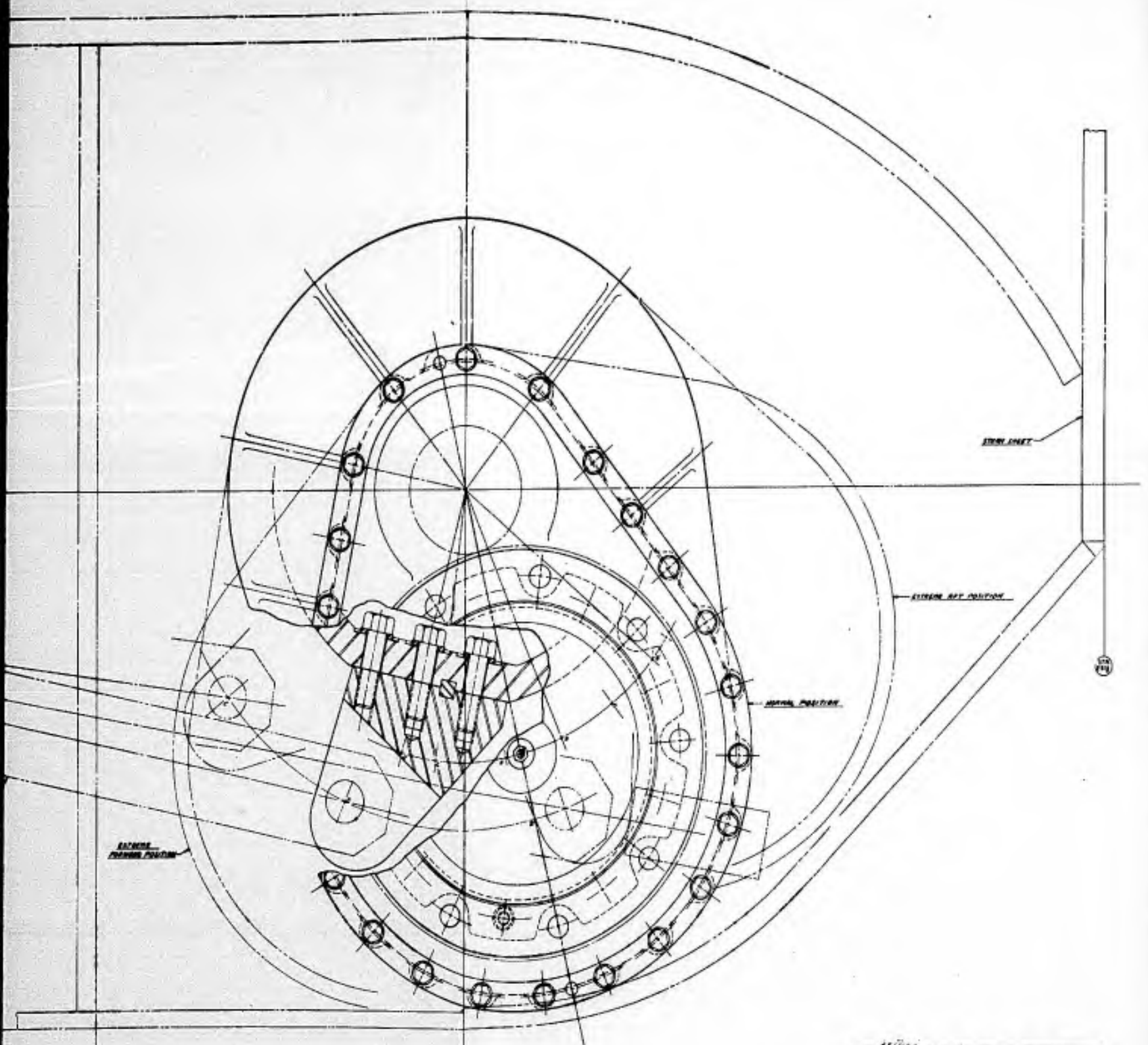
MATERIAL:	BISHOP 10-3-62		GERRARD KALABAZO DIVISION ROD-WARNER CORPORATION KALAMAZOO MICHIGAN
	DESIGNED BY		
HEAT TREAT:	CHECKED BY		RESEARCH & DEVELOPMENT CENTER
	APPROVED	DATE	
SURFACE FINISH EXCEPT AS NOTED:	F.R. [Signature]		TITLE: <b>BILGE PUMP ASSEMBLY</b>
	J. [Signature]		
TOLERANCES: DECIMAL ± ANGULAR ±	FRACTIONAL ±	SCALE:	DWN. NO. <b>D. 5K-5214</b>
		NONE	
BREAK CORNERS TO UNLESS OTHERWISE SPECIFIED	WEIGHT:	DWN. NO.	D. 5K-5214
	CALC:		
	ACTUAL:	SHEET 1 OF 1	

1



2

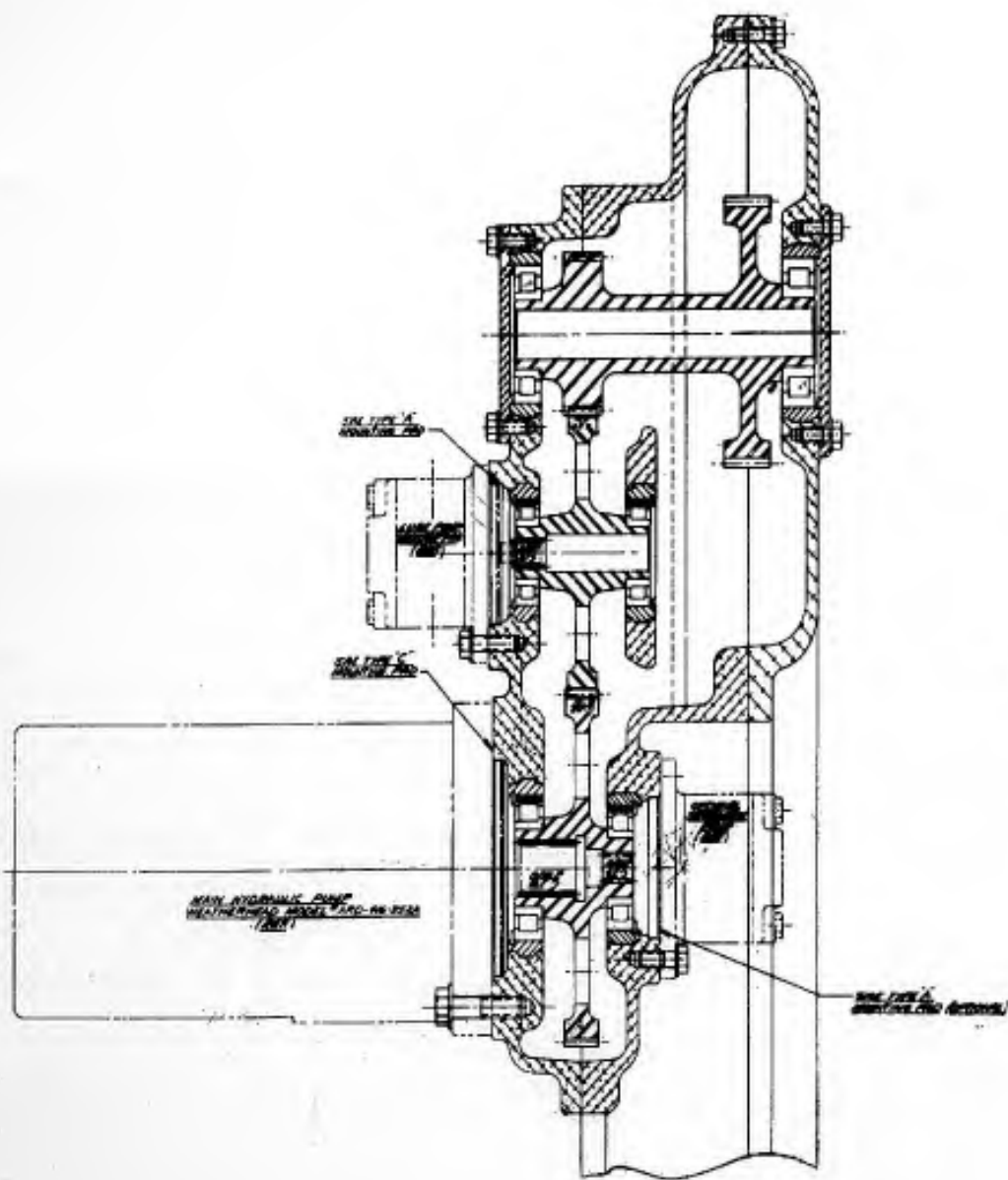




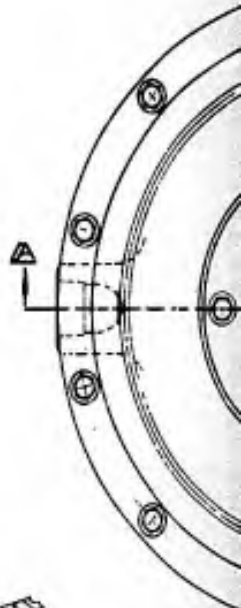
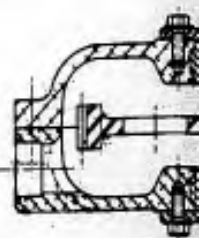
45700

DATE	APR 1954	DESIGNED BY	W. H. R. G. S. M.	APPROVED BY	W. H. R. G. S. M.
BY	W. H. R. G. S. M.	CHECKED BY	W. H. R. G. S. M.	REVISIONS	1. 100% 2. 100% 3. 100%
QUANTITY	1	DESCRIPTION	THE UPPER-FINAL DRIVE LAYOUT	DATE	APR 1954
ISSUED BY	W. H. R. G. S. M.	SCALE	1" = 1"	NO. OF SHEETS	3
ISSUED TO	W. H. R. G. S. M.	PROJECT	5K-5218	SHEET NO.	3
ISSUED FOR	W. H. R. G. S. M.	DATE	APR 1954		

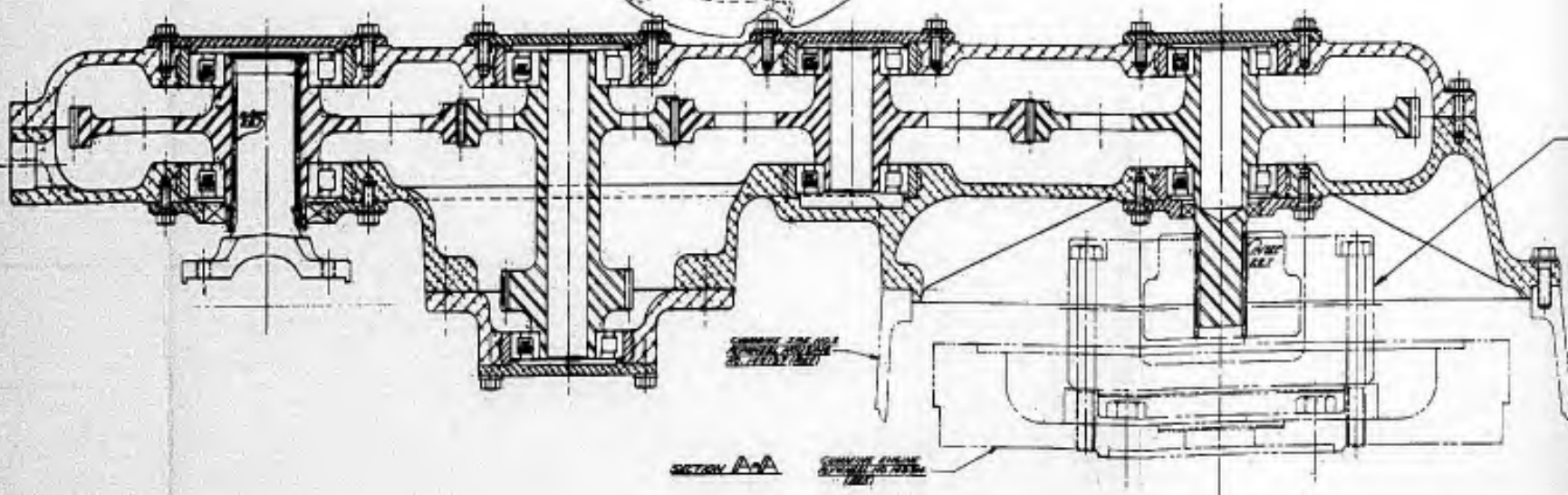
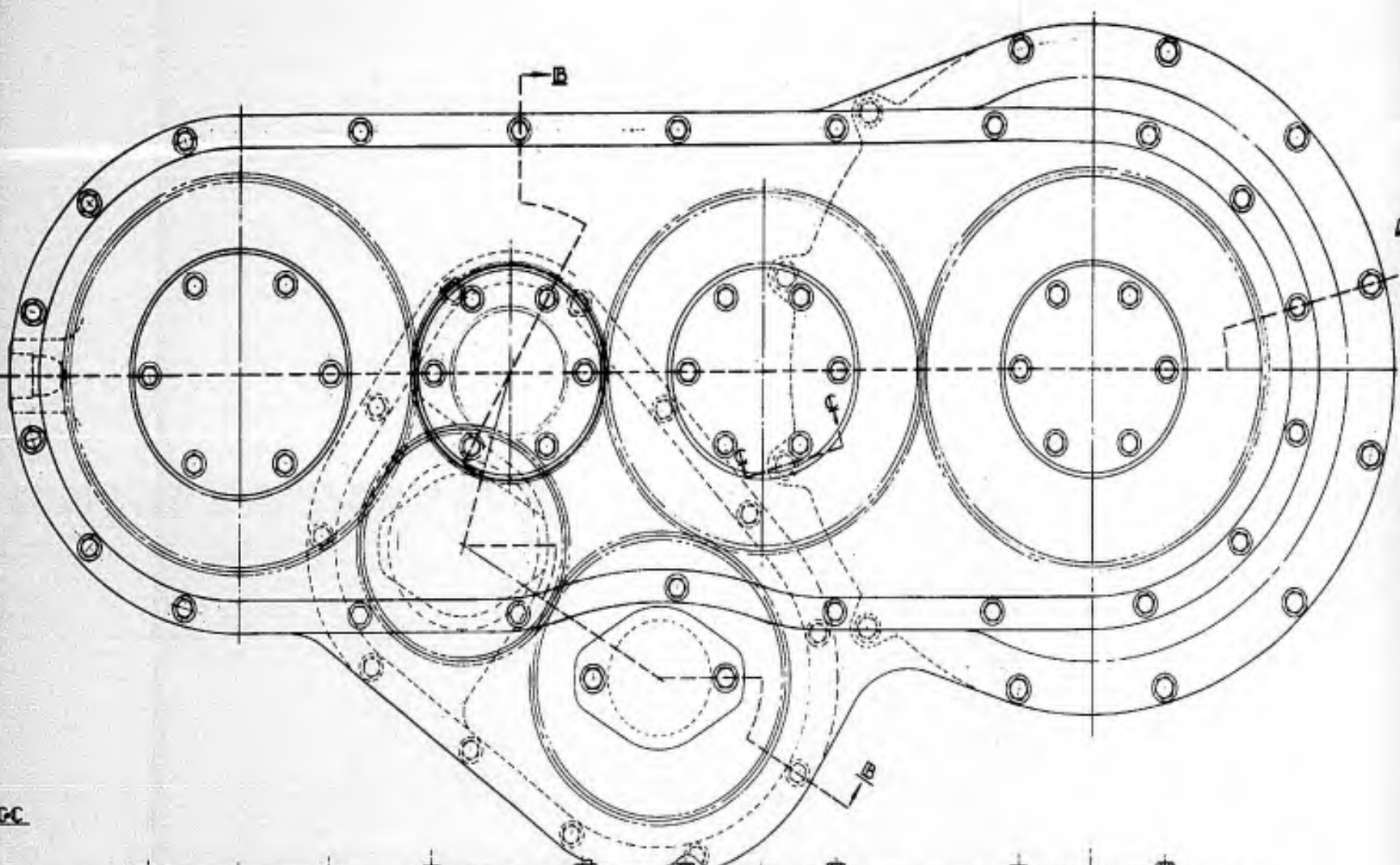
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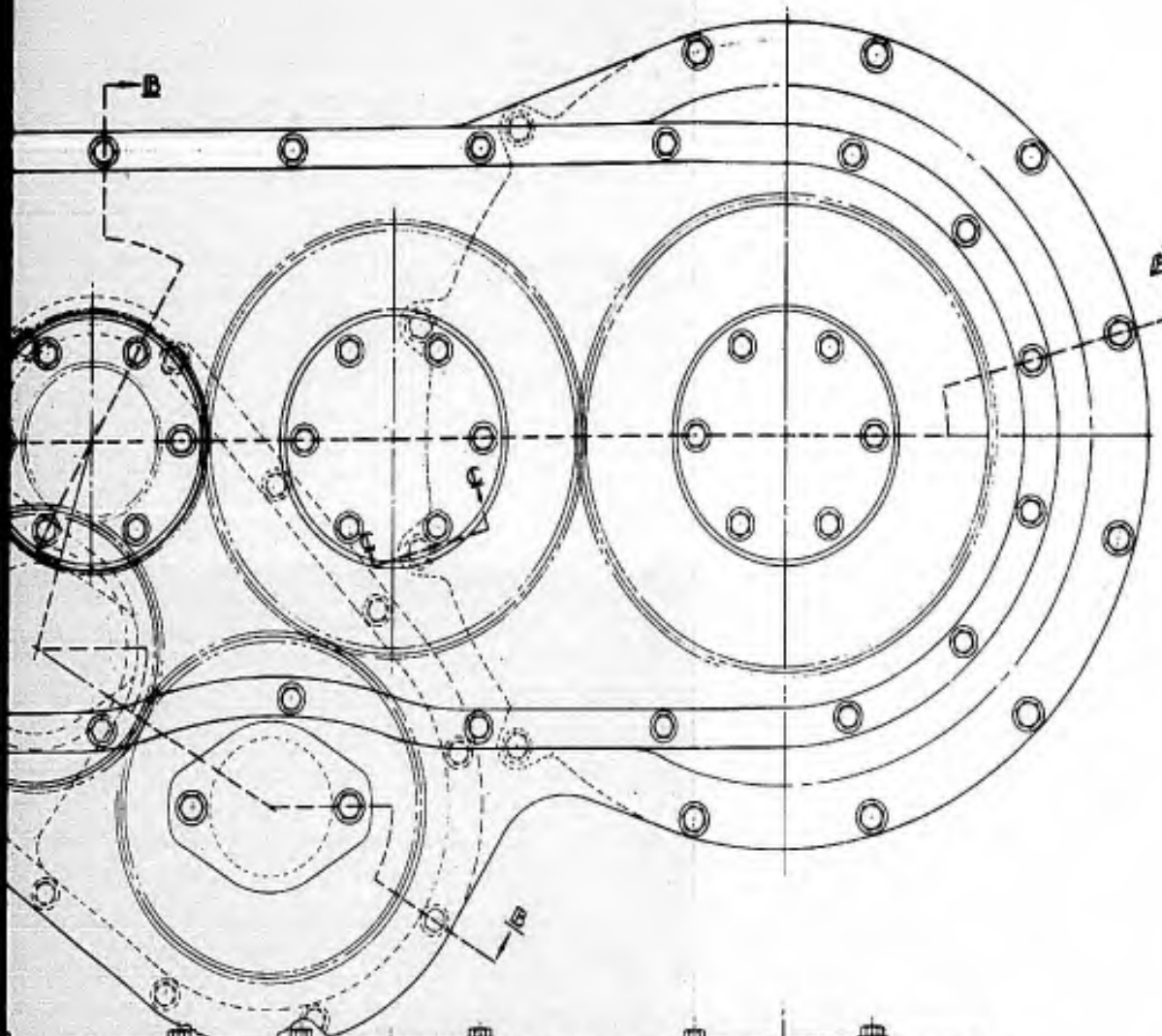


SECTION B-B



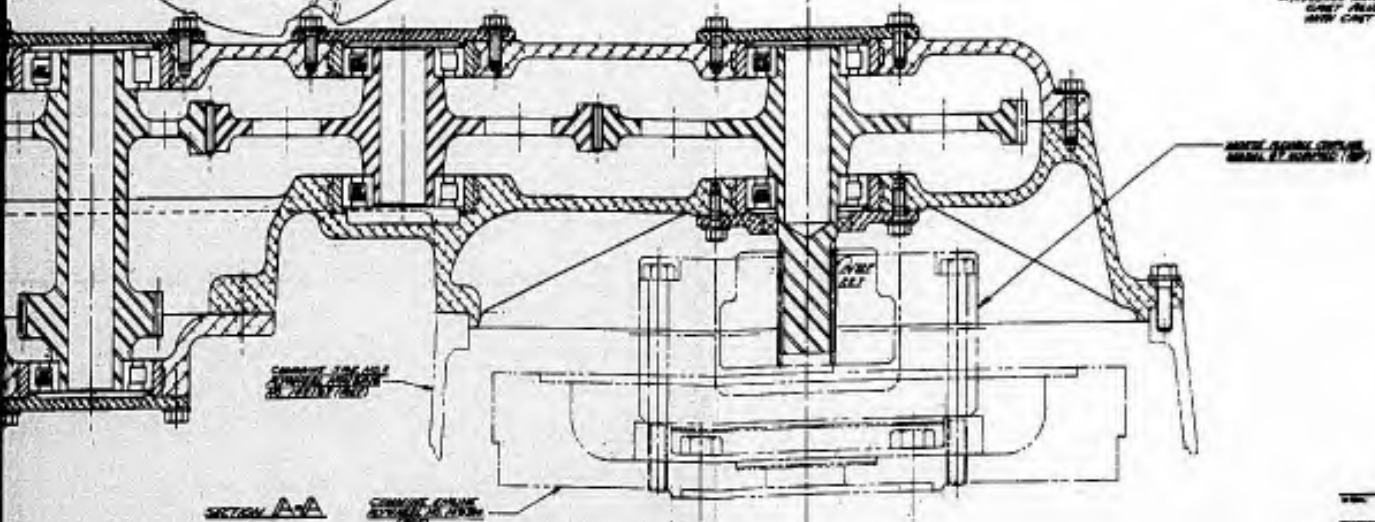
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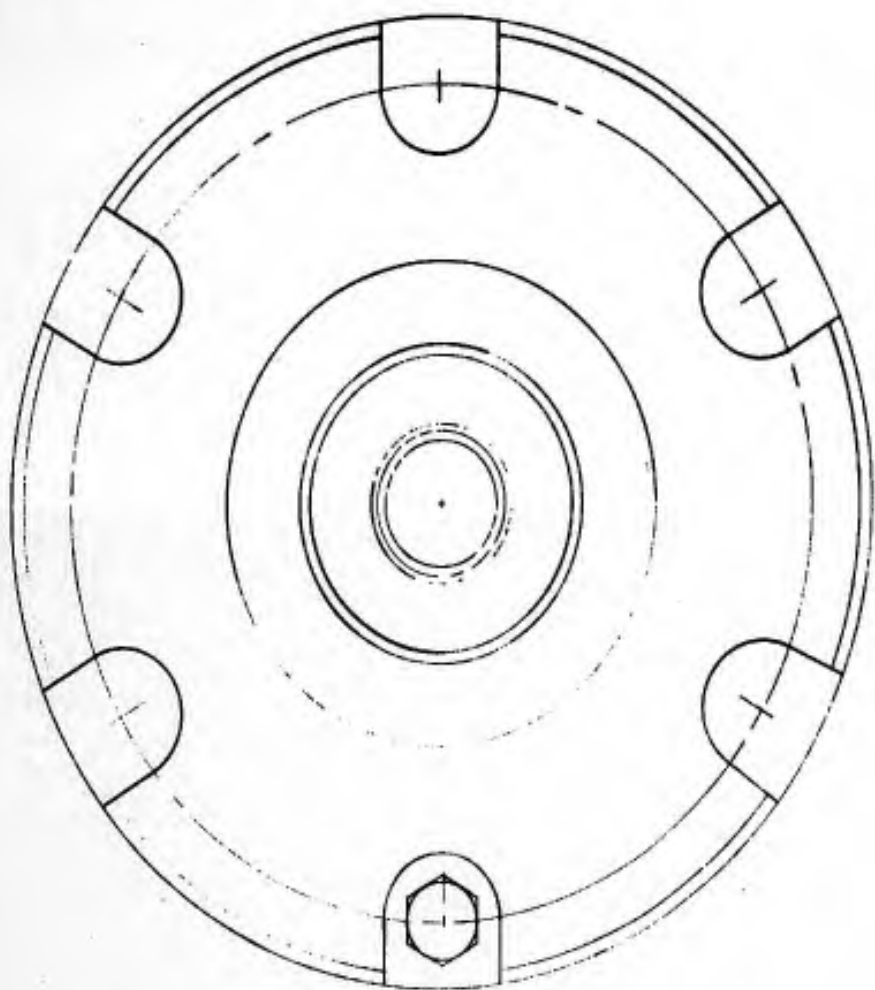
CONSTRUCTION NOTES  
 1. SEE SPECIFICATIONS  
 2. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES  
 3. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO BE TAKEN TO THE CENTER OF THE BOLT

4. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO BE TAKEN TO THE CENTER OF THE BOLT

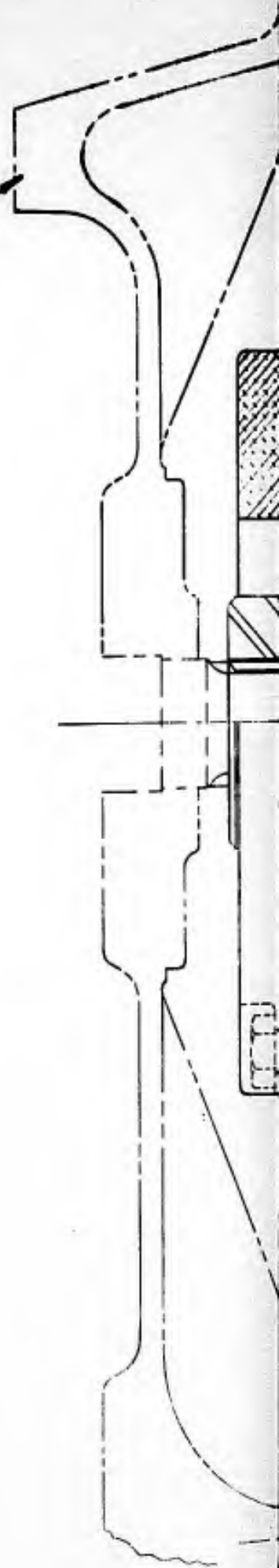


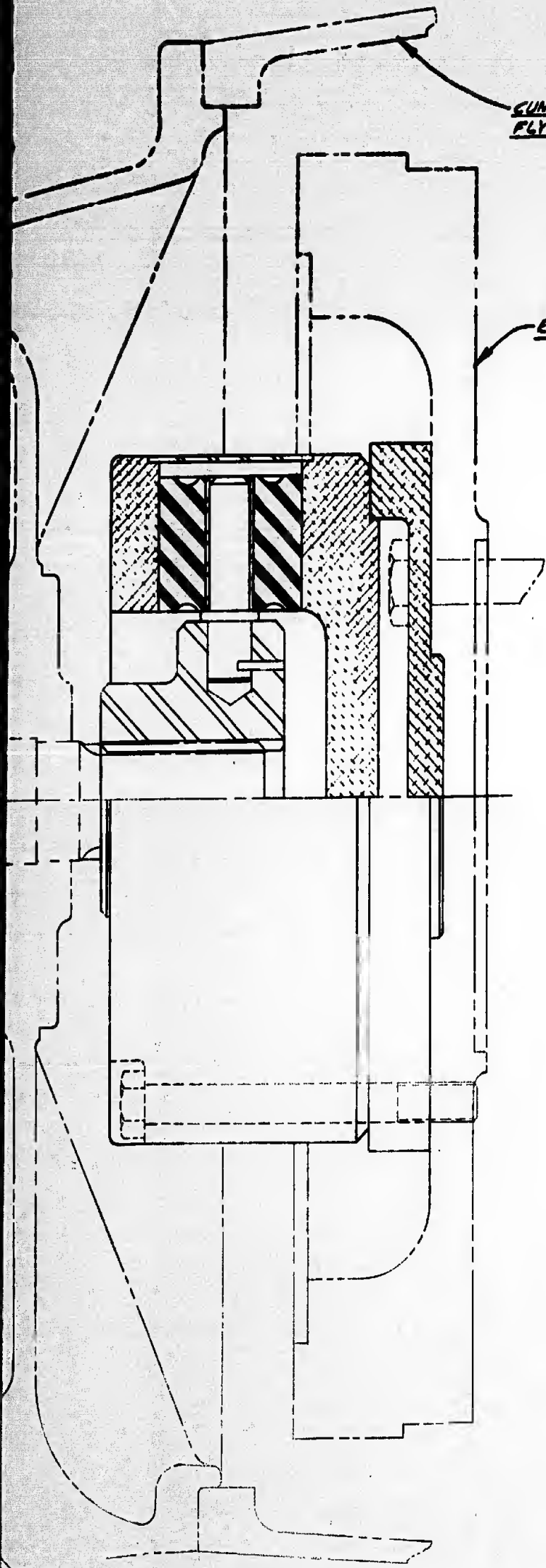
DATE	2-1-1954	DESIGNED BY	
BY		CHECKED BY	
APP'D		DATE	2-1-1954
REV		NO.	1
		QTY	1
		PRICE	
		TOTAL	

1



TRANSFER GEARBOX  
HOUSING (ECC)



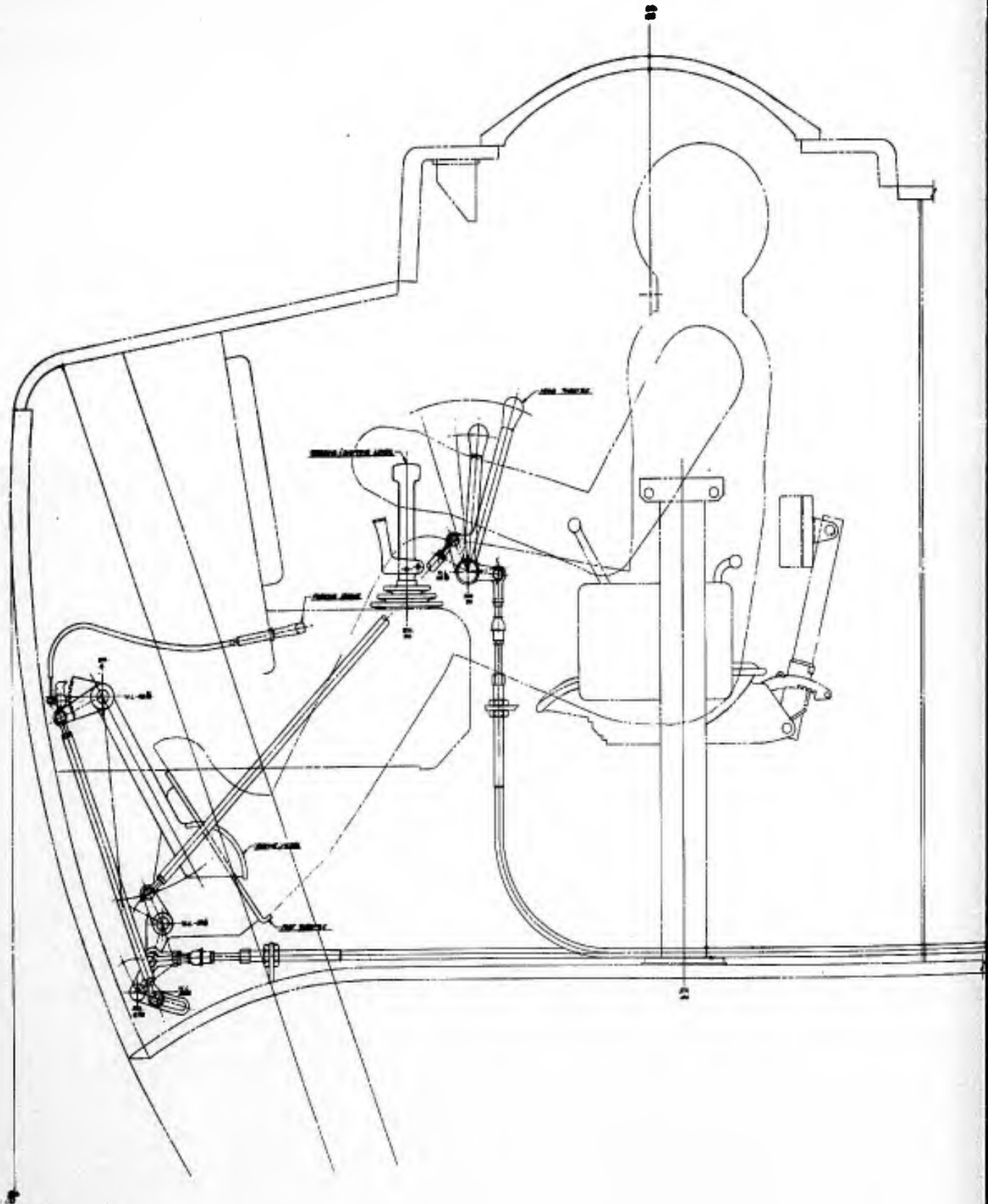


CUMMINS SAE NO. 2  
FLYWHEEL HOUSING (REF.)

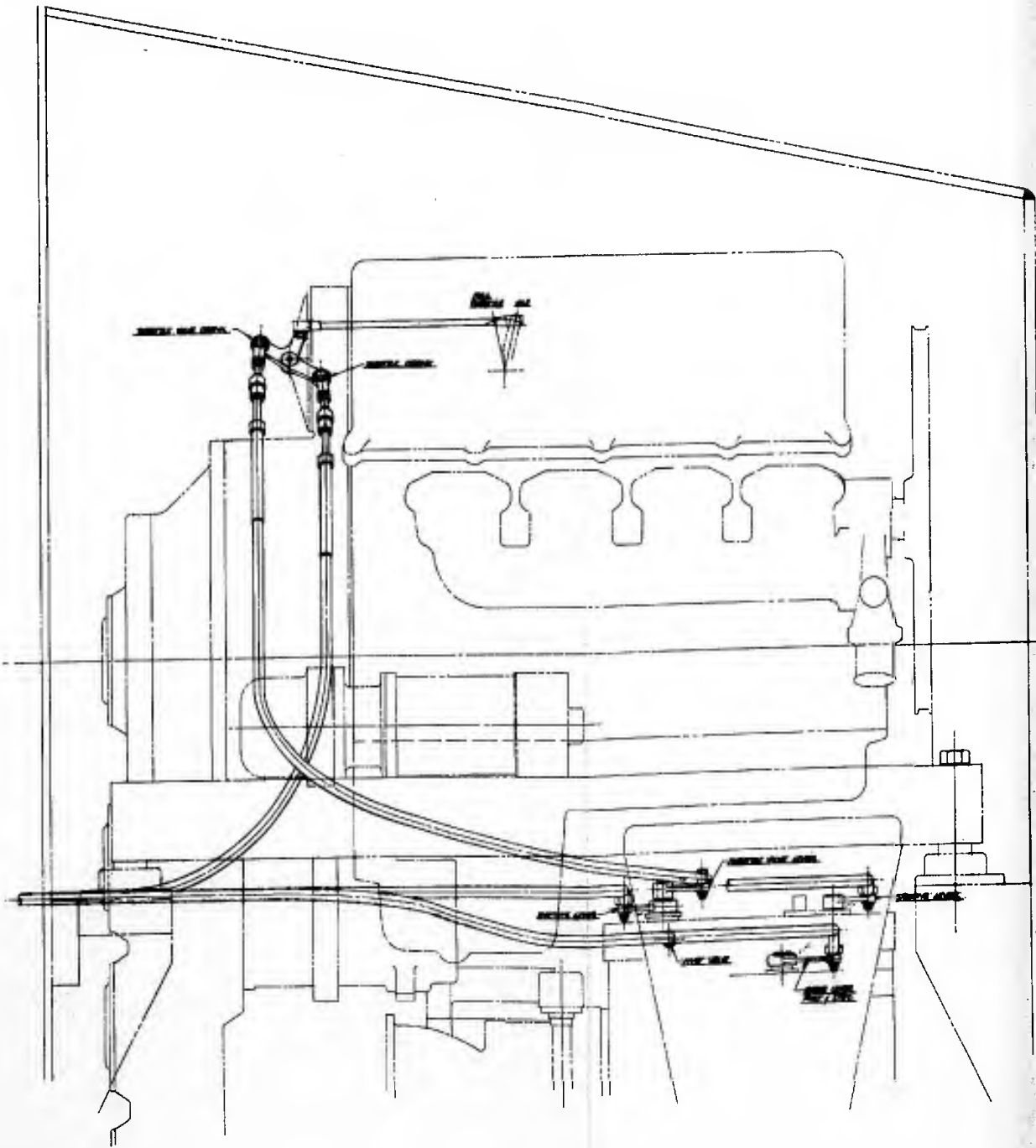
ENGINE FLYWHEEL (REF.)

MATERIAL:	R COSBY 1018-62	INGERSOLL KALAMAZOO DIVISION
HEAT TREAT:	DRAWN BY <i>R.P. Washburn</i>	BORG-WARNER CORPORATION
SURFACE FINISH EXCEPT AS NOTED: ✓	CHECKED BY <i>D. Perry</i>	KALAMAZOO MICHIGAN
TOLERANCES: DECIMAL ±      FRACTIONAL ±	APPROVED <i>D. Perry</i>	RESEARCH & DEVELOPMENT SECTION
ANGULAR ±	DATE 1/27/62	TITLE: LVTPXII FLEXIBLE COUPLING INSTALLATION
BREAK CORNERS TO UNLESS OTHERWISE SPECIFIED	CHIEF ENGR. <i>D. Perry</i>	DWG. NO. SK-5220
	SCALE:	DWG. NO. SK-5220
	WEIGHT: CALC: ACTUAL:	SHEET 1 OF 1 SHEETS

1

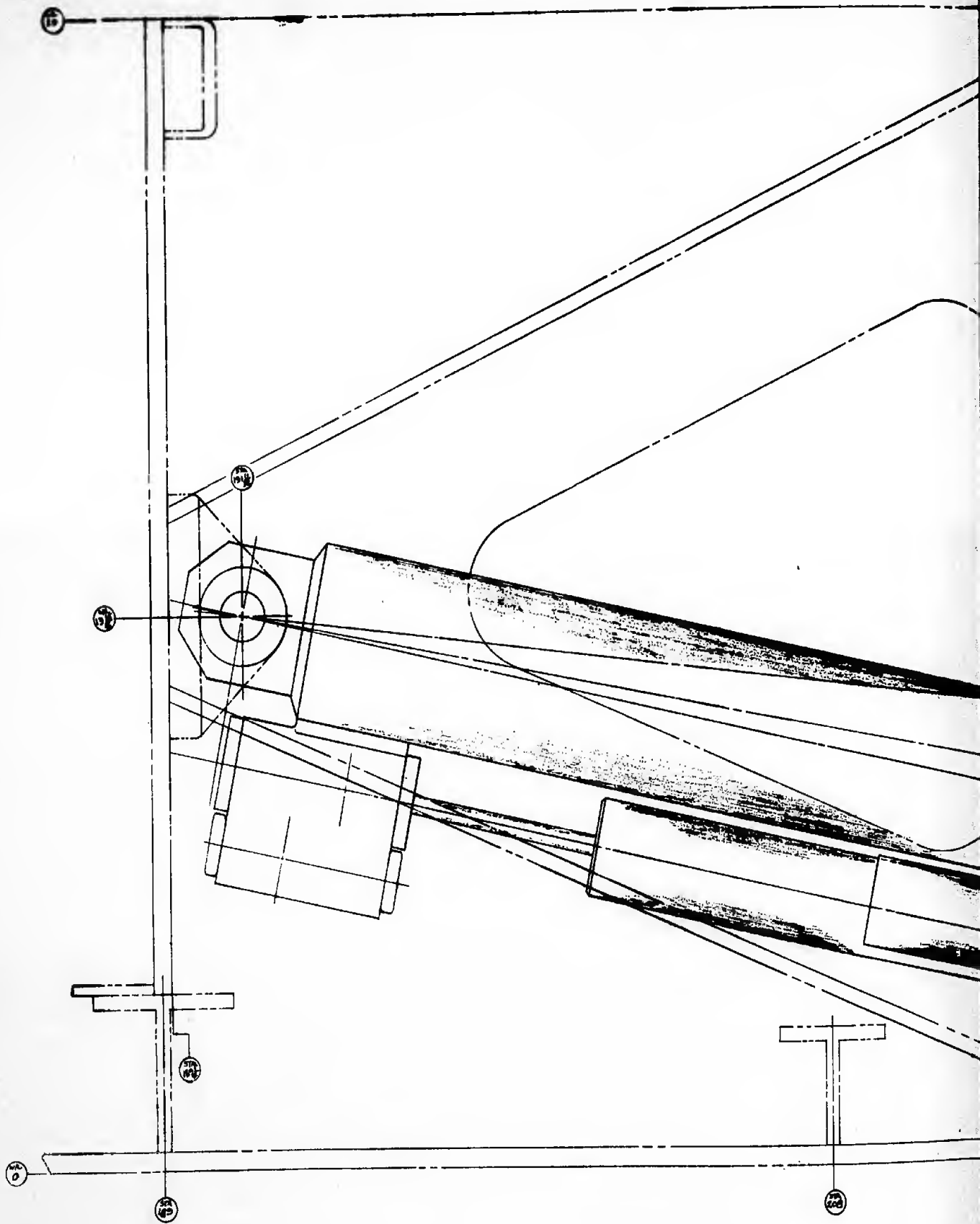


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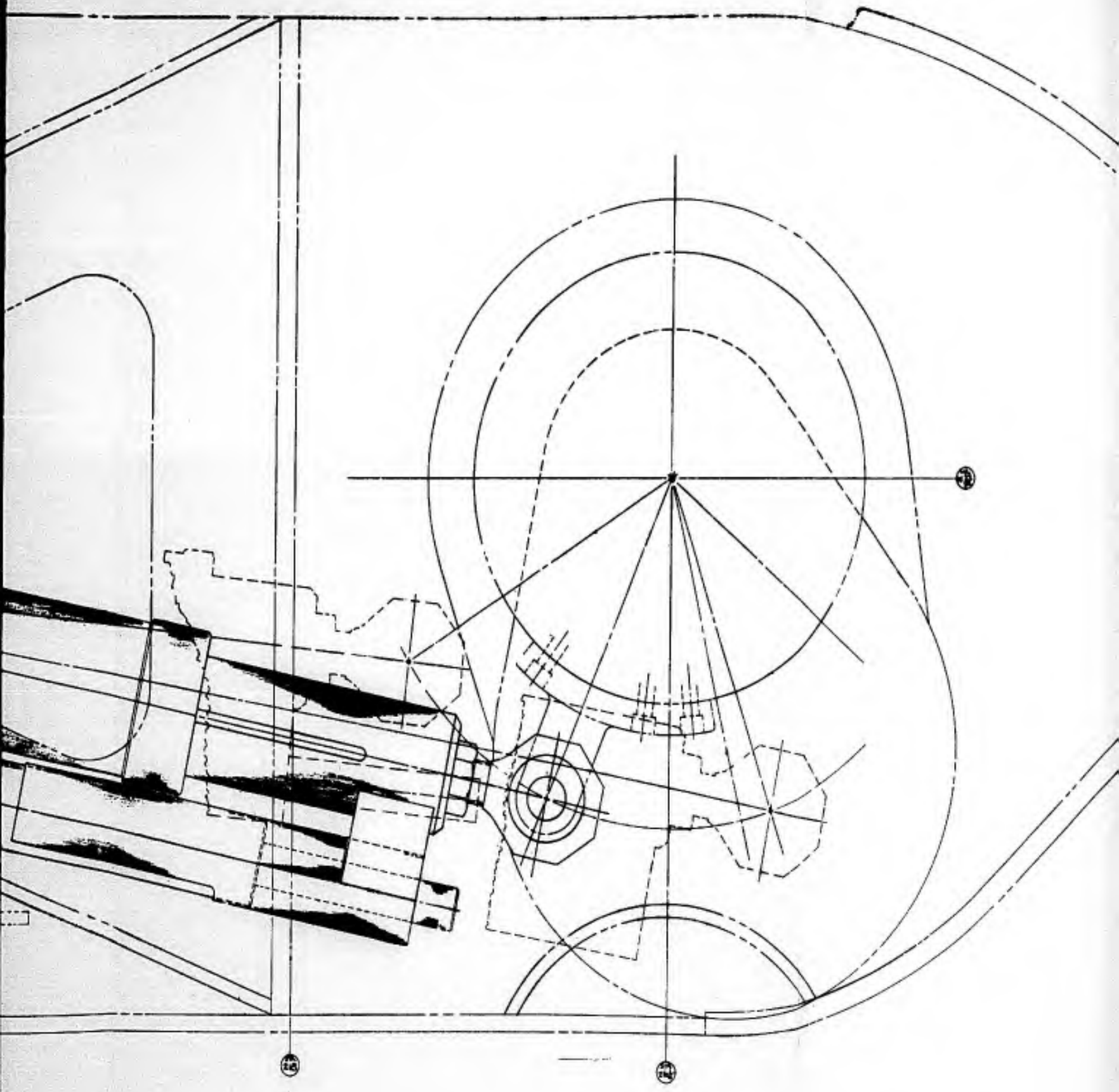




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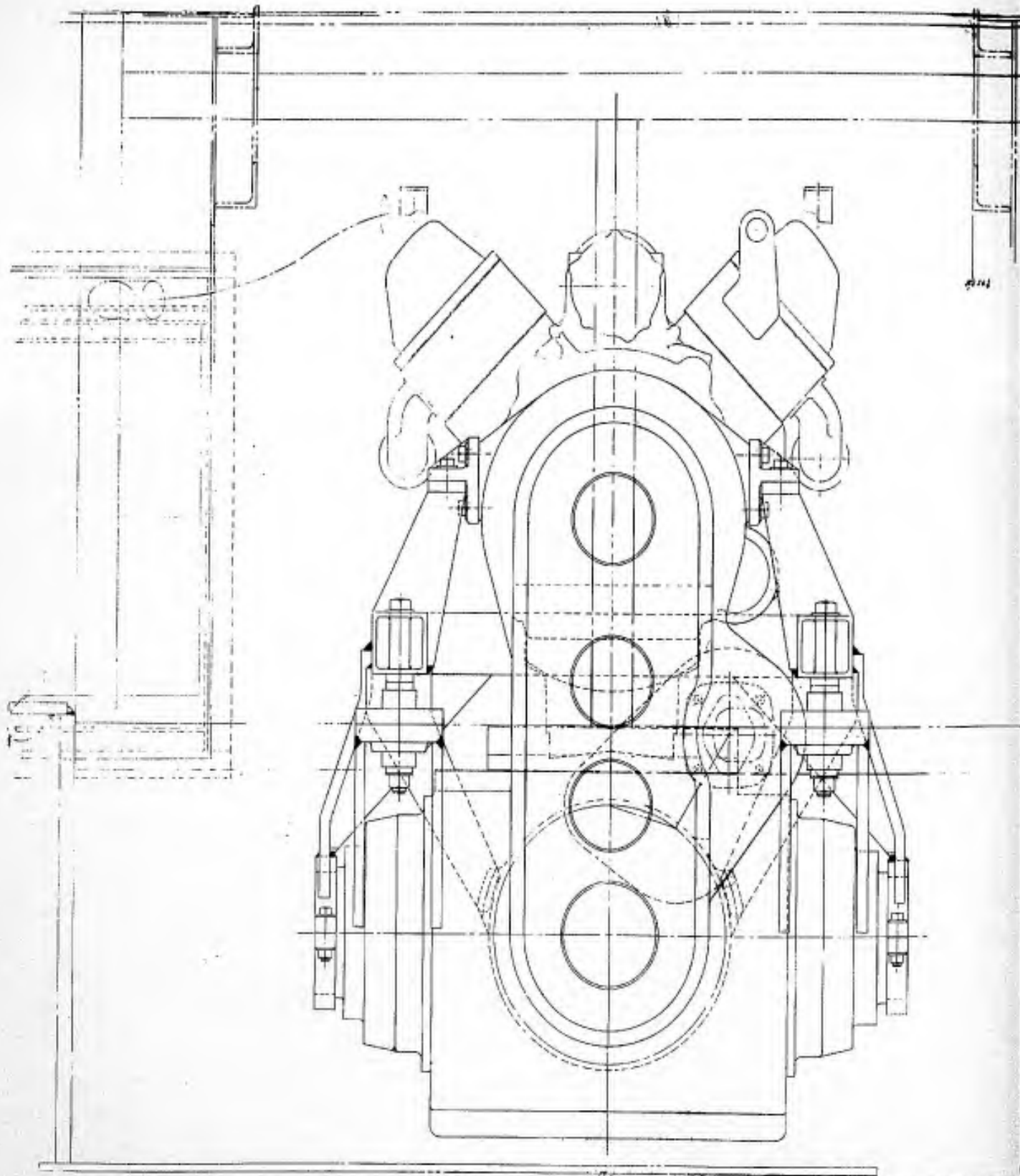


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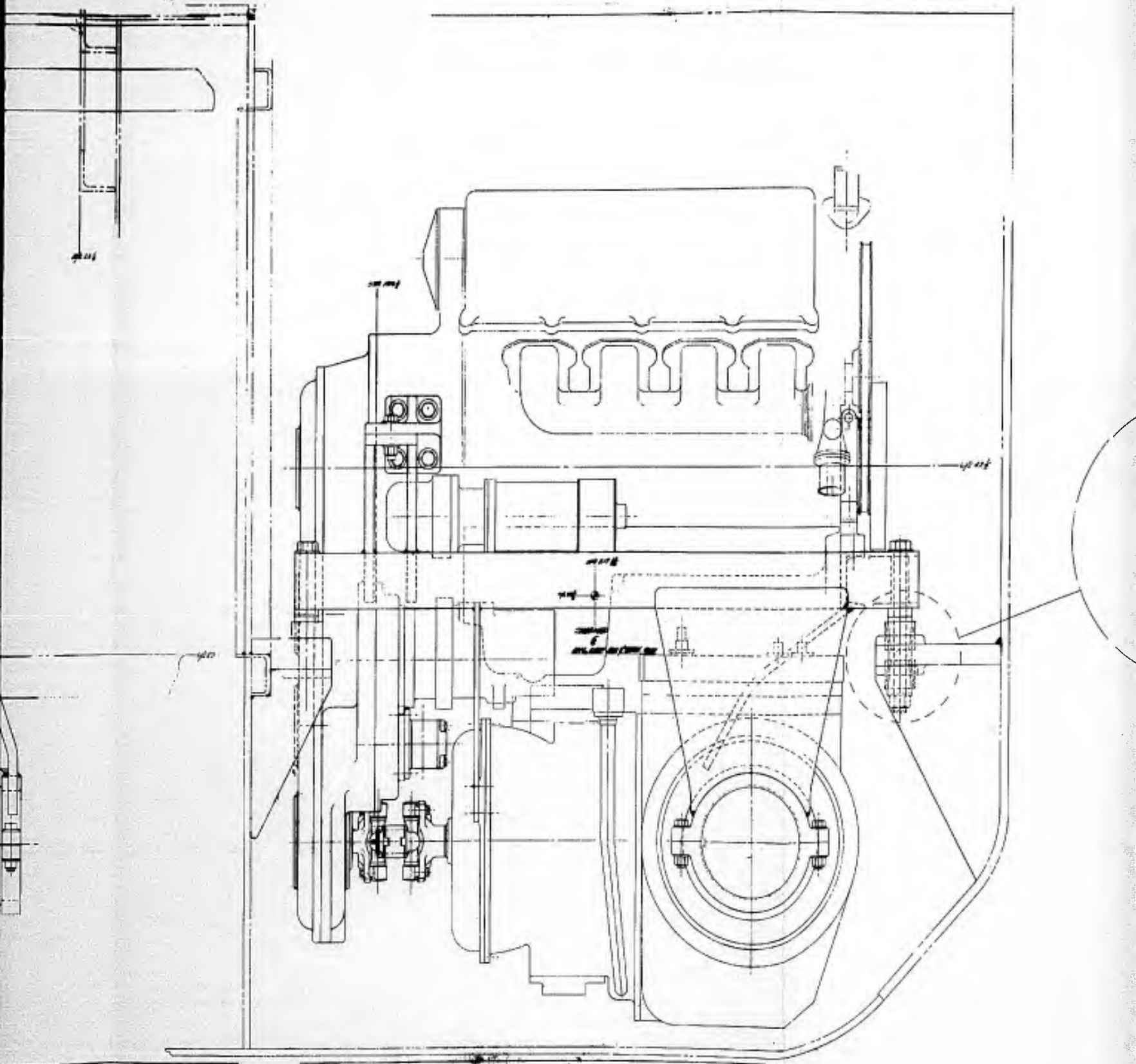


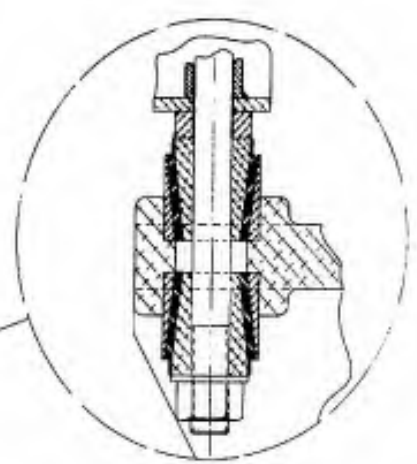
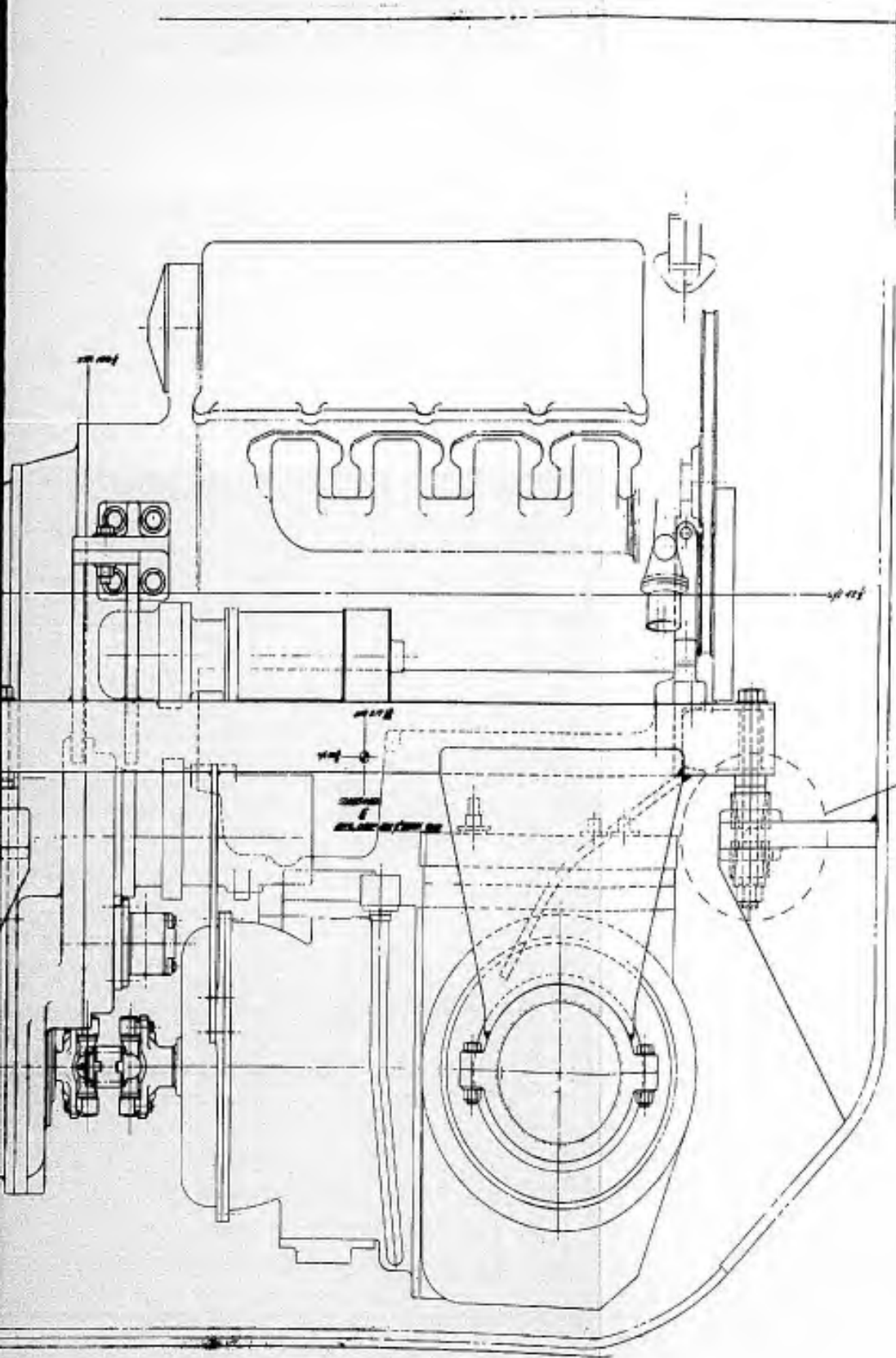


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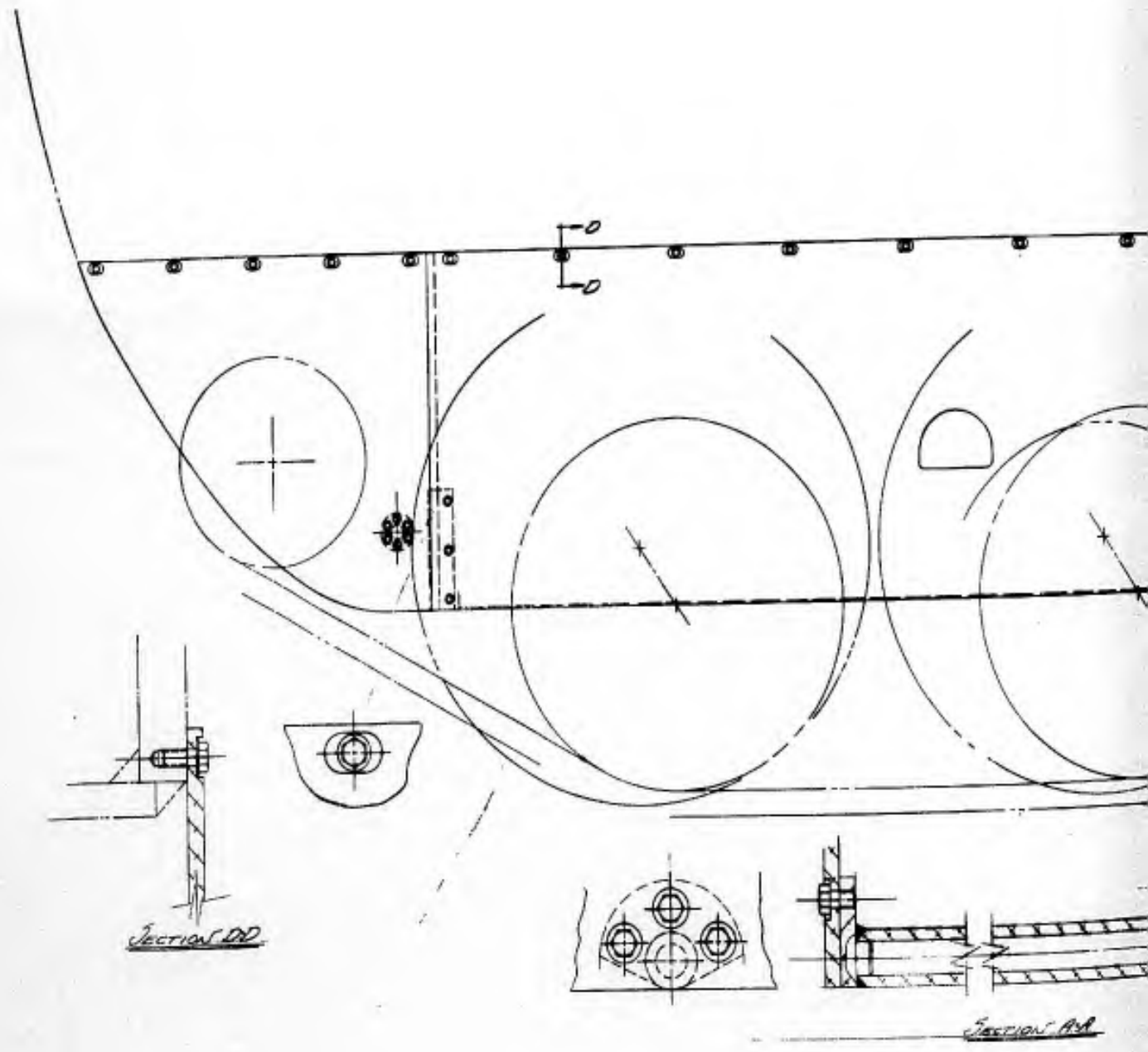
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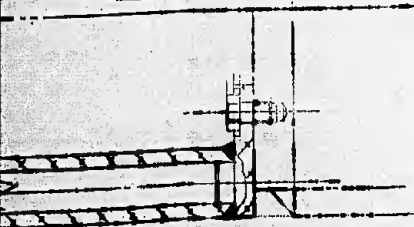
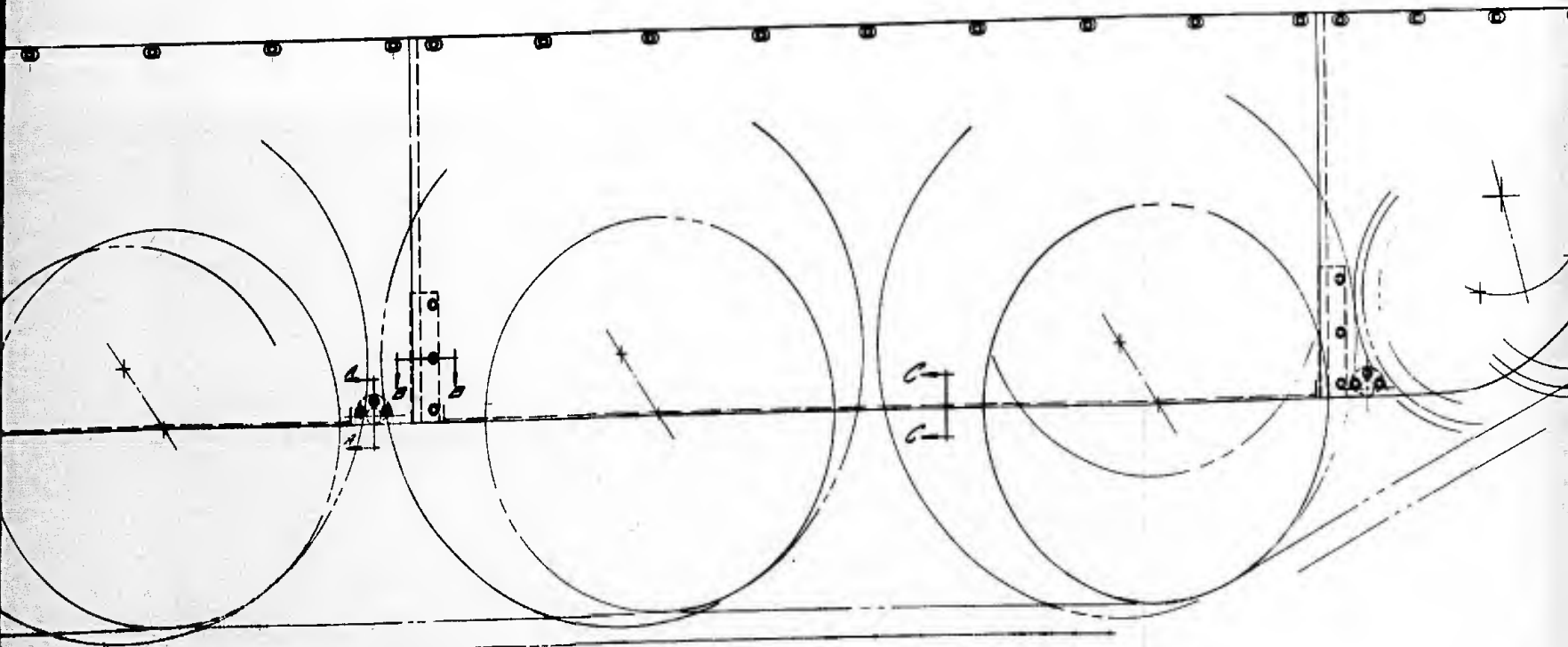


DATE	1/10/54	DESIGNED BY	W. J. B. 100
DRAWN BY	W. J. B. 100	CHECKED BY	W. J. B. 100
APPROVED BY	W. J. B. 100	DATE	1/10/54
REVISIONS			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

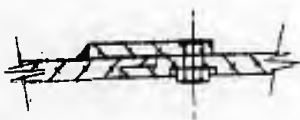
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2



SECTION A-A

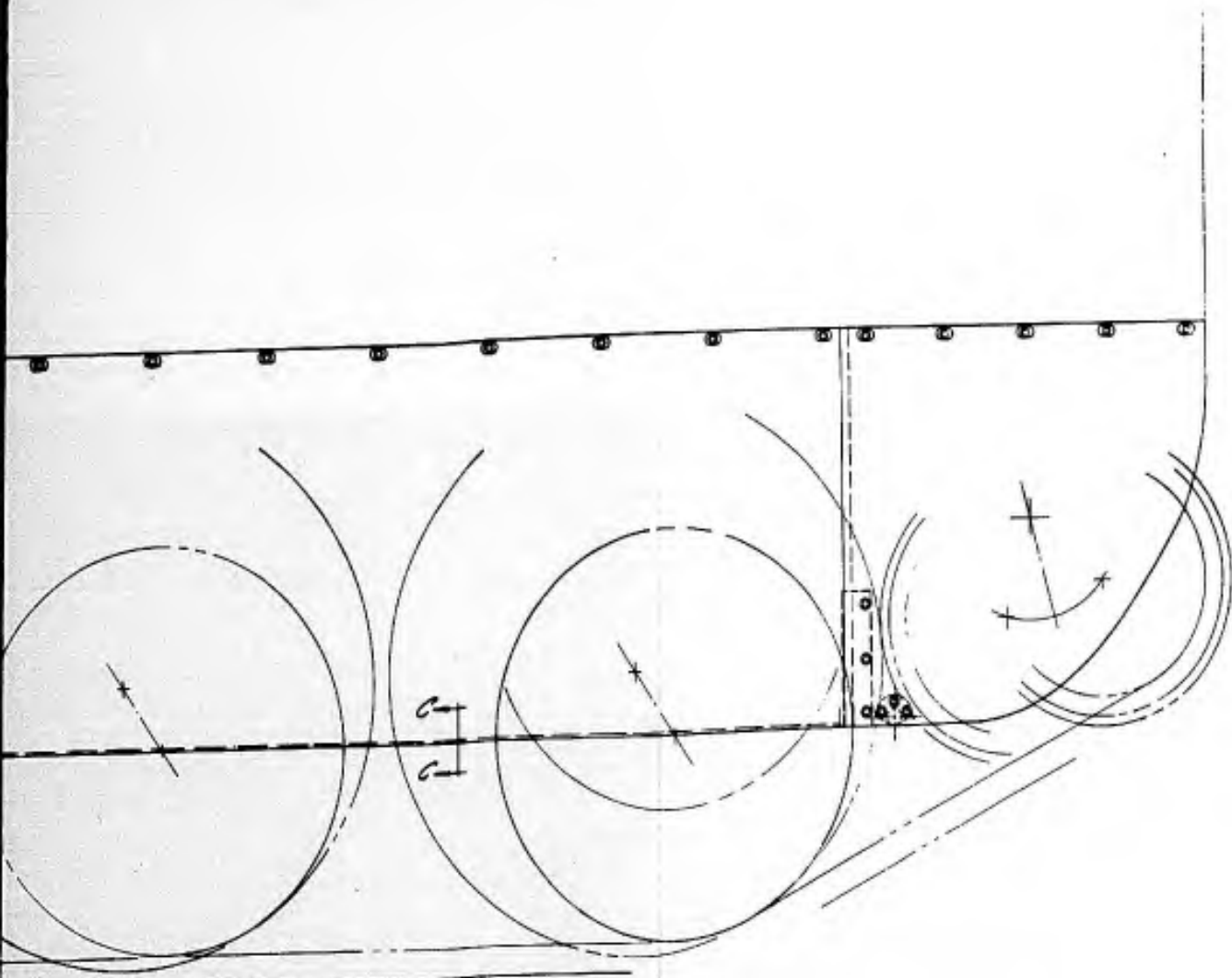


SECTION B-B



SECTION C-C

Handwritten notes and a reference number: *Handwritten notes*  
Formal Record No. 528



Section BB

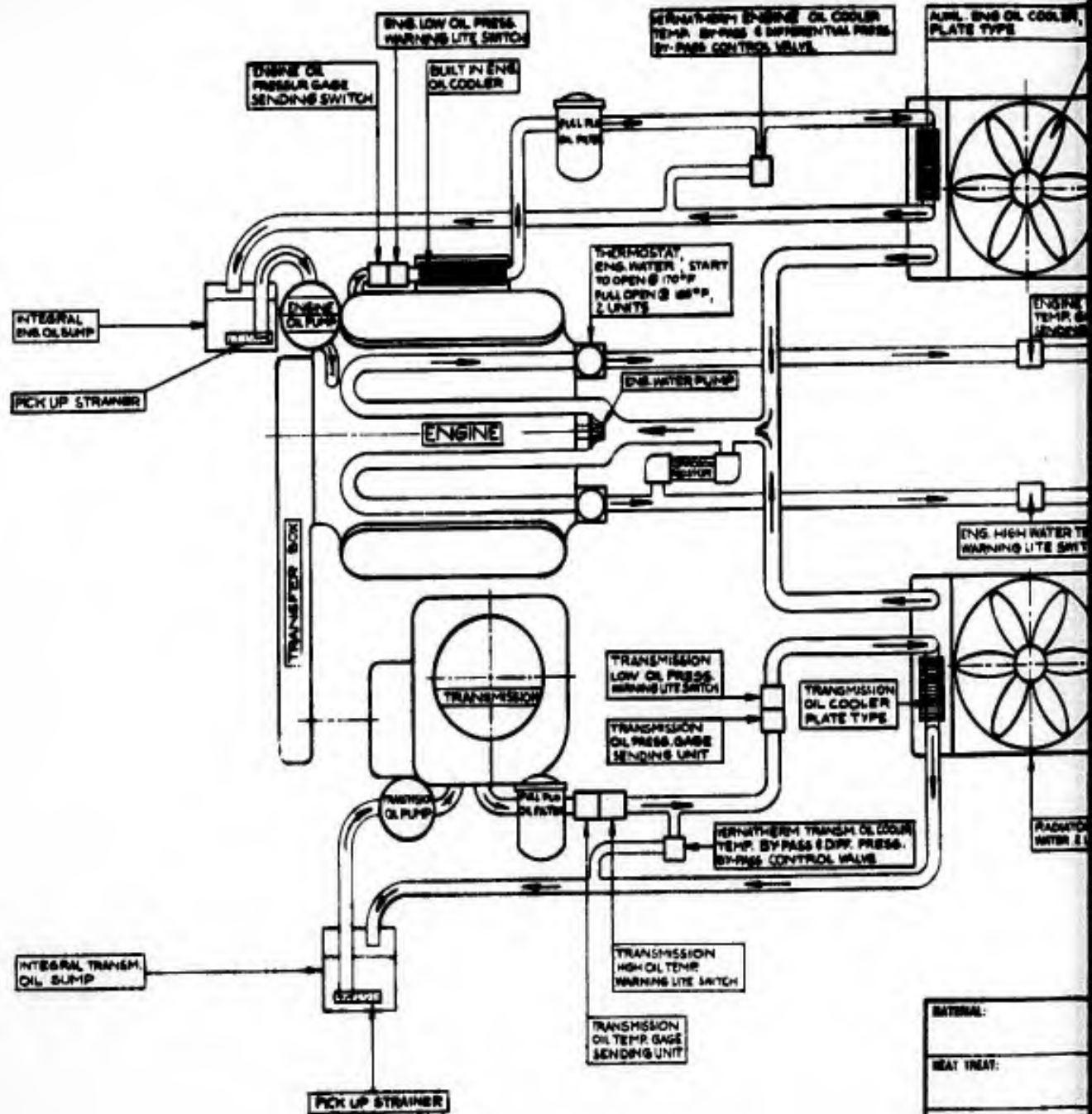


Section C-C

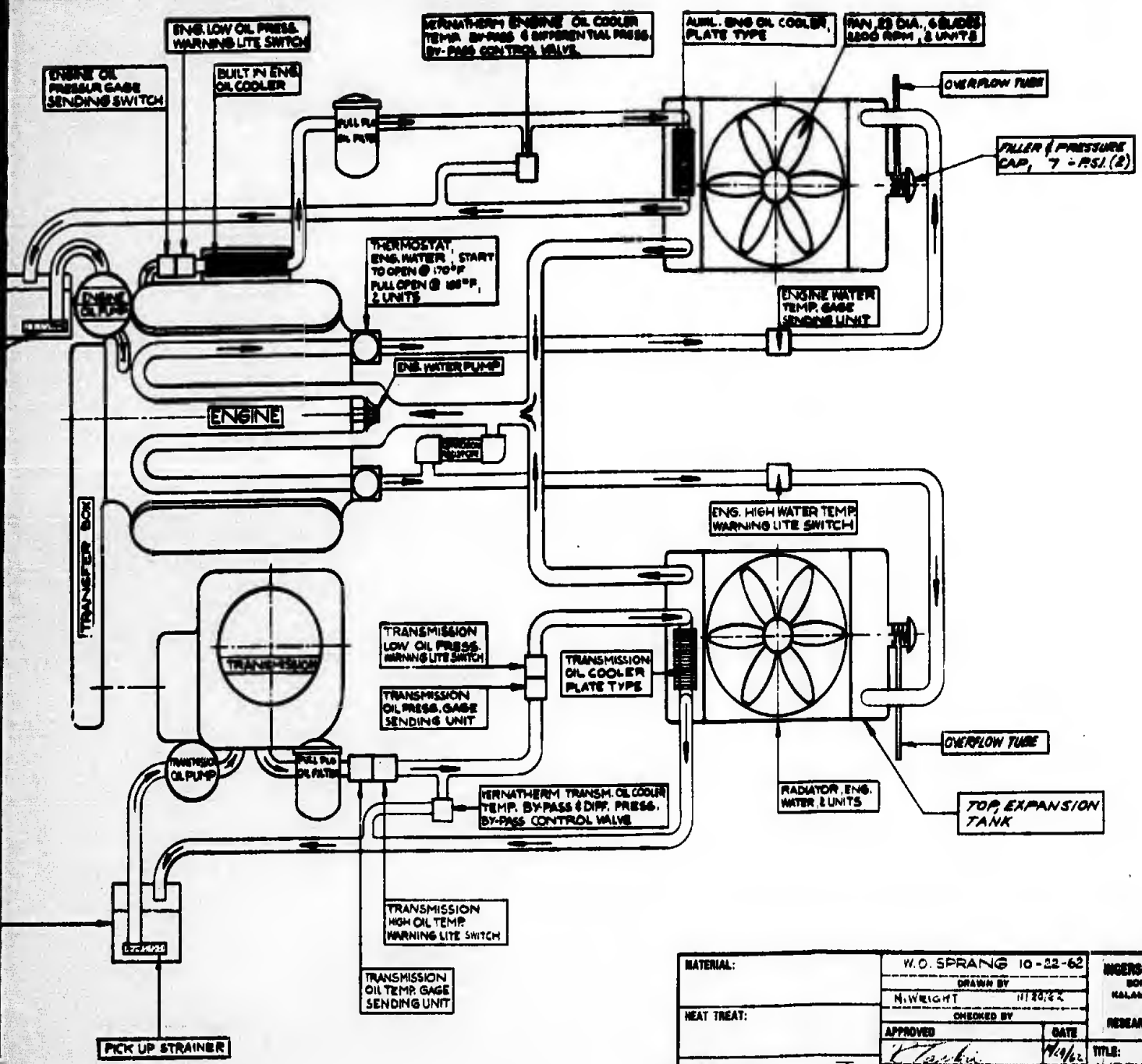
*about*  
TOTAL VOLUME  $46 \text{ m}^3$

NO.	12. 11. 1954	GENERAL DRAWING
DATE	12. 11. 1954	NO. 1
PROJECT	12. 11. 1954	NO. 1
DESIGNER	12. 11. 1954	NO. 1
CHECKED	12. 11. 1954	NO. 1
APPROVED	12. 11. 1954	NO. 1
SCALE	1:1	NO. 1
NO.	4	NO. 1

# 1

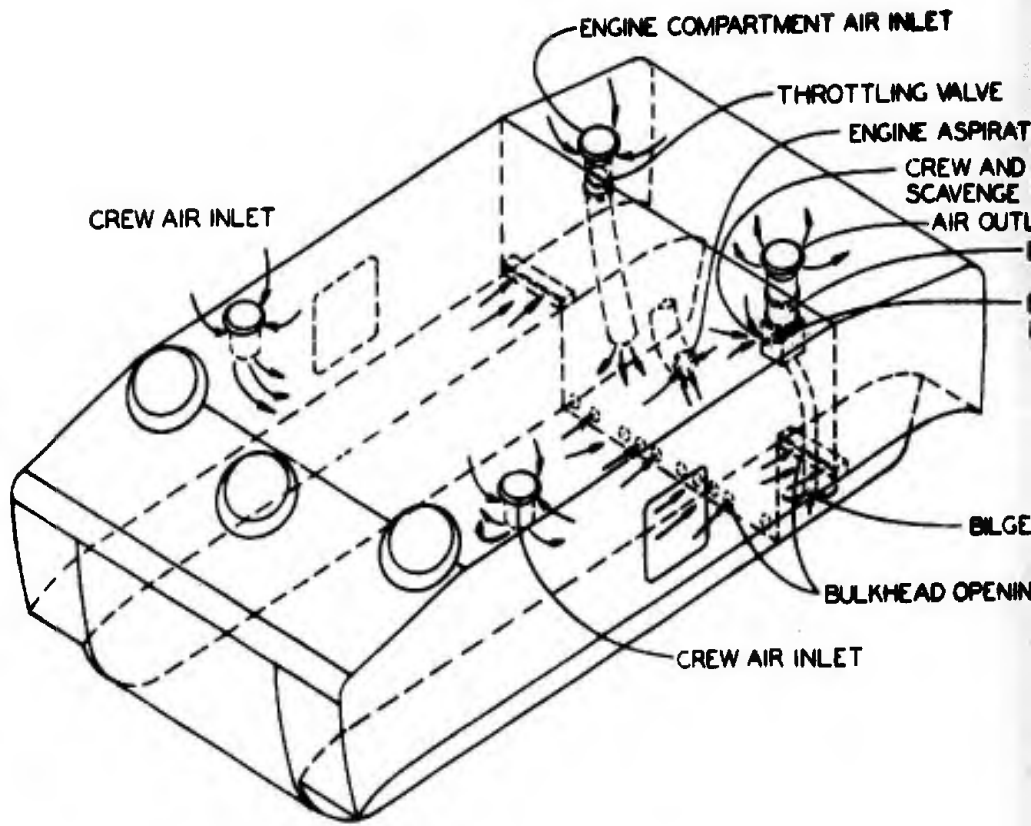


MATERIAL:	
HEAT TREAT:	
SURFACE FINISH EXCEPT AS NOTED:	
TOLERANCES:	
DECIMAL ±	FRACTIONAL ±
ANGULAR ±	
BREAK CORNERS TO UNLESS OTHERWISE SPECIFIED	

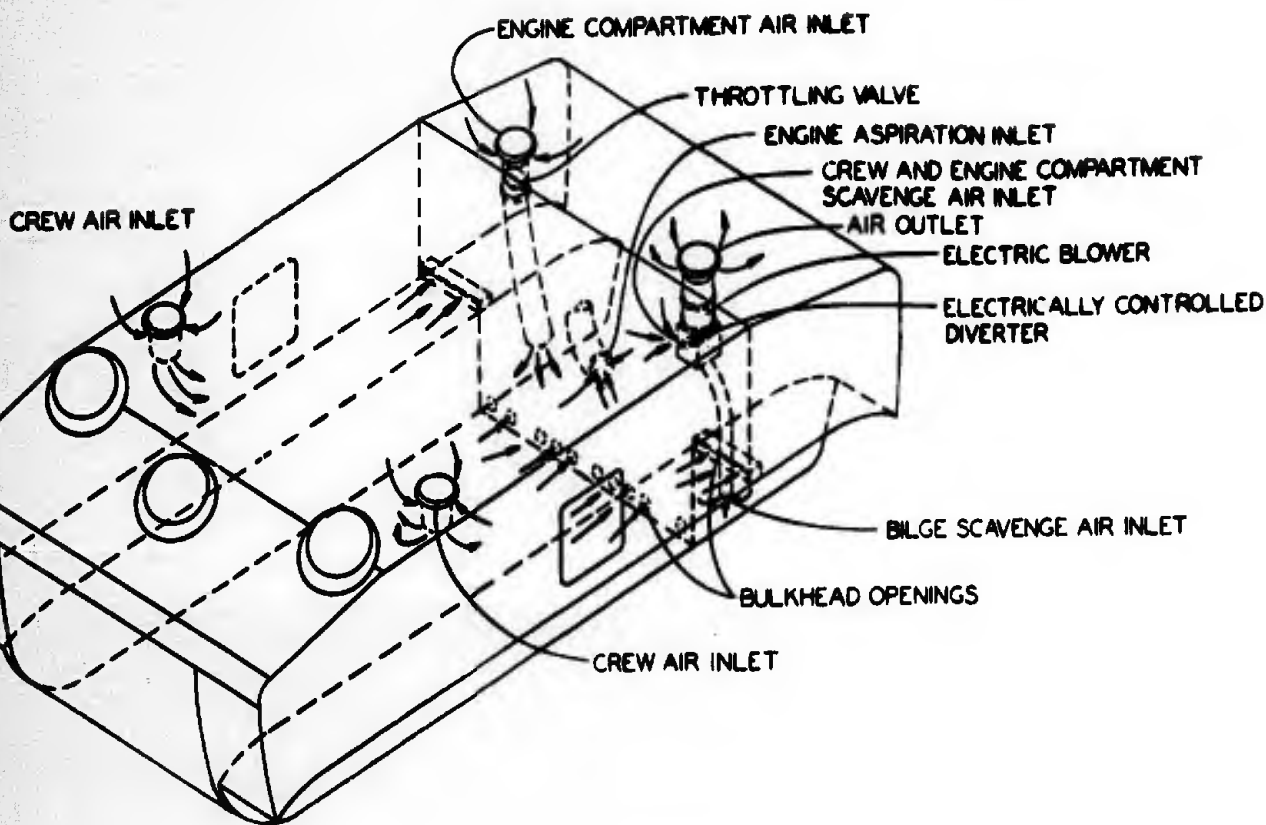


MATERIAL:	W.O. SPRANG 10-22-62	INGERSOLL KALAMAZOO DIVISION
HEAT TREAT:	DRAWN BY	BORG-WARNER CORPORATION
SURFACE FINISH EXCEPT AS NOTED: ✓	N.WEIGHT	KALAMAZOO
TOLERANCES: ORIGINAL ± FRACTIONAL ± ANGULAR ± BREAK CORNERS TO UNLESS OTHERWISE SPECIFIED	CHECKED BY	RESEARCH & DEVELOPMENT SECTION
	APPROVED	DATE
	<i>W. Sprang</i>	11/22/62
	PROJ. ENGR.	
	<i>A. Brown</i>	11/22/62
	CHIEF ENGR.	
	SCALE:	WEIGHT: CALC. ACTUAL:
		TITLE: LYT PX II COOLING SYSTEM SCHEMATIC DIAGRAM
		DWG. NO. C 5K 5226
		SHEET / OF / SHEETS

1



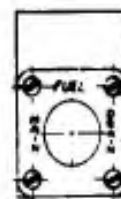
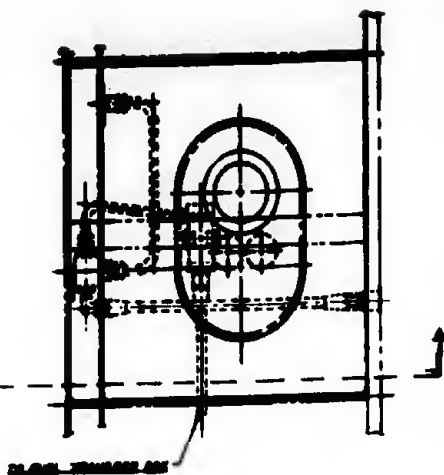
MATERIAL:
HEAT TREAT:
SURFACE FINISH EXCEPT AS NOTED
TOLERANCES: DECIMAL ± ANGULAR ± BREAK CORNERS UNLESS OTHERWISE SPECIFIED



MATERIAL:	L.O. MS 10-22-66	INGERSOLL KALABAZOO DIVISION
HEAT TREAT:	DRAWN BY <i>H.E. Linneman</i>	BORG-WARNER CORPORATION KALABAZOO MICHIGAN
SURFACE FINISH EXCEPT AS NOTED: ✓	CHECKED BY <i>H.E. Linneman</i>	RESEARCH & DEVELOPMENT SECTION
TOLERANCES: DECIMAL ± FRACTIONAL ± ANGULAR ± BREAK CORNERS TO UNLESS OTHERWISE SPECIFIED	APPROVED <i>H.E. Linneman</i> PROJ. ENGR. <i>H. J. ...</i> CHIEF ENGR.	DATE 2-7-68
	SCALE: NONE	WEIGHT: CALC: ACTUAL:
		DATE DWS NO. C, SK-5227
		SHEET 1 OF 1 SHEETS

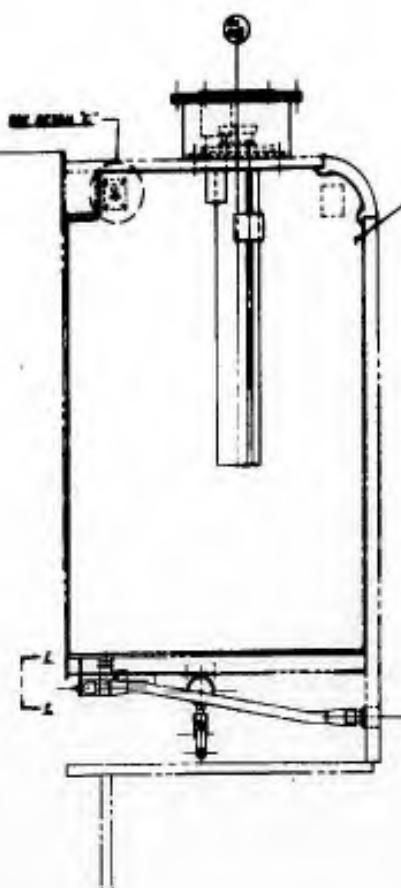


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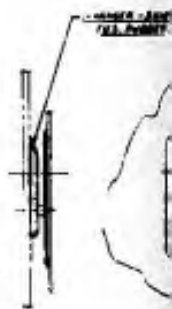


4 - SCREW - MS 3025 - 2  
 1 - IDENTIFICATION PLATE - PER  
 MS 3025 - 2

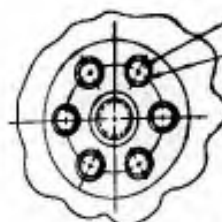
VIEW E-E, TOP & SIDES  
 SCALE: 1:1



1 - FUEL CELL MS 3025 - 2, TYPE W, CLASS 2



DETAIL  
 SCALE



6 - SCREW - MS 3025 - 2  
 6 - WASHER - MS 3027 - 2

VIEW D-D, TOP & SIDES  
 SCALE: 1:1

SECTION A-A

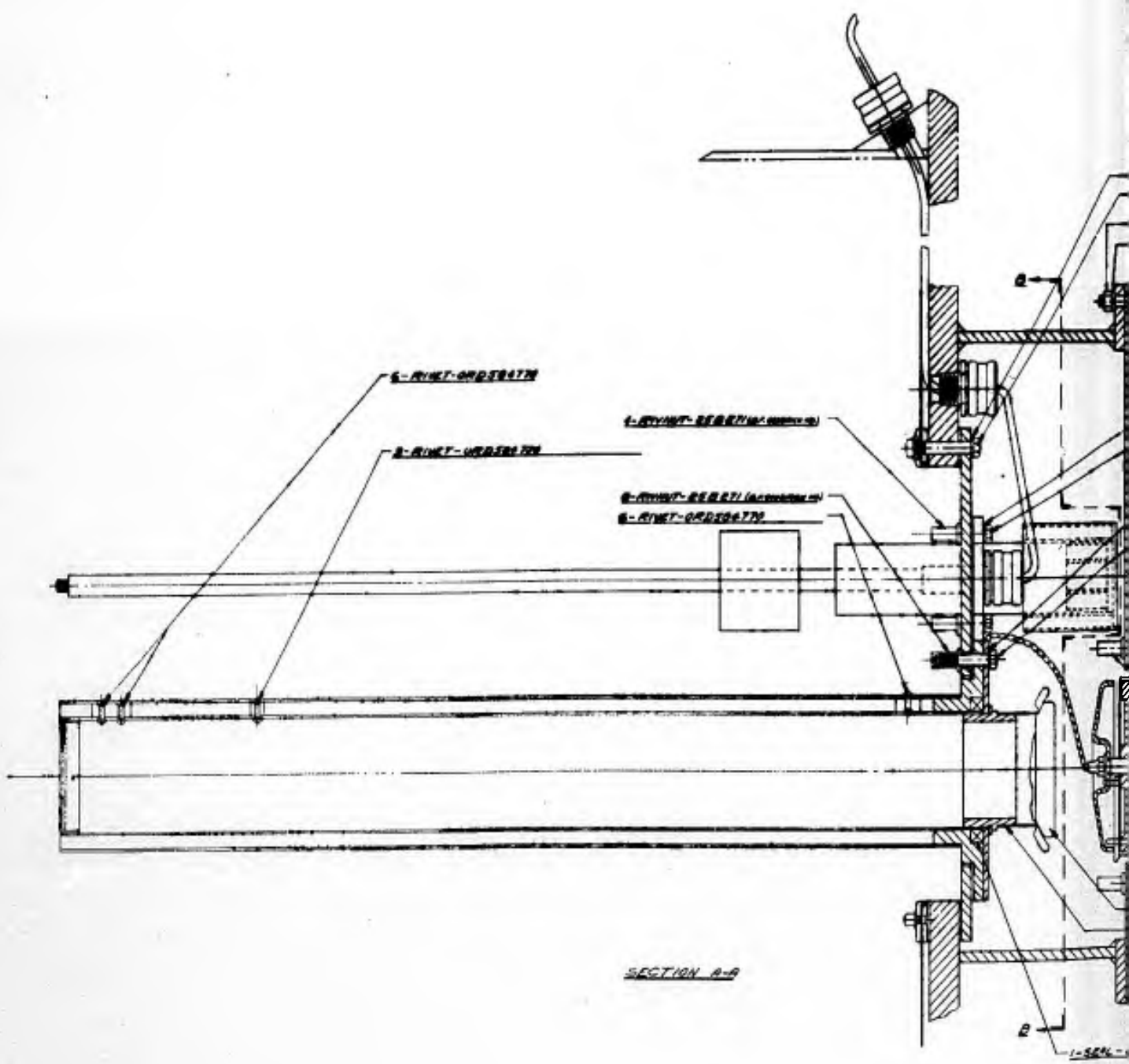
MS 3025 - 2  
 MS 3025 - 2  
 MS 3025 - 2  
 MS 3025 - 2  
 MS 3025 - 2

MS 3025 - 2  
 MS 3025 - 2  
 MS 3025 - 2

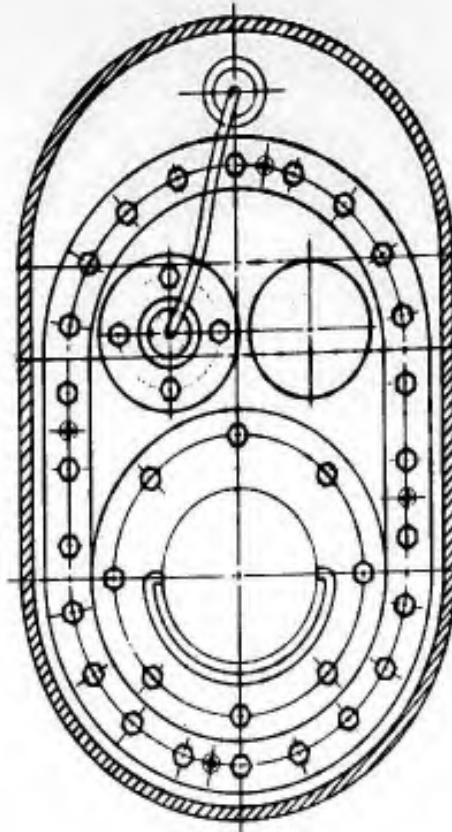
MS 3025 - 2



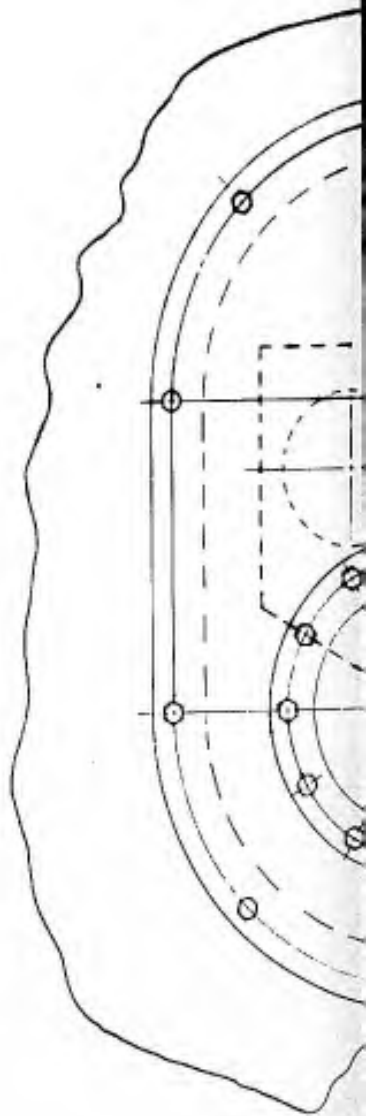
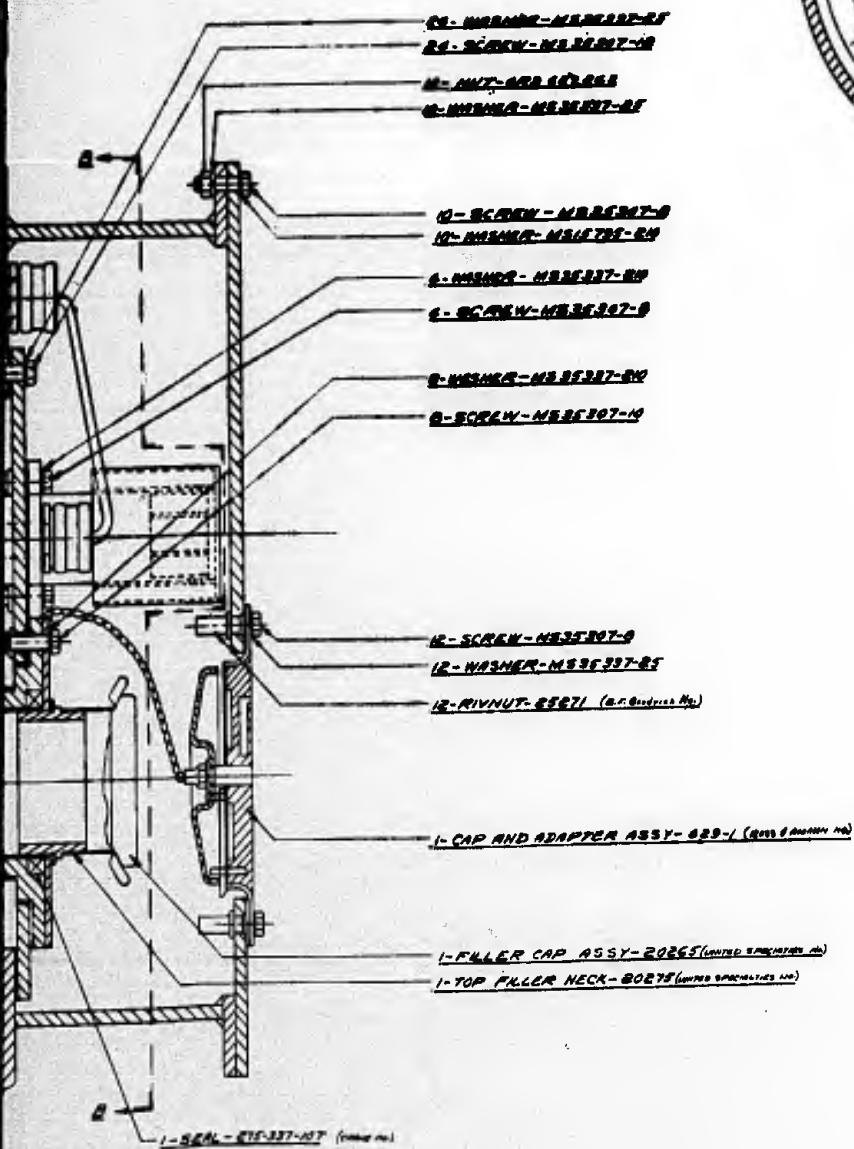
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2

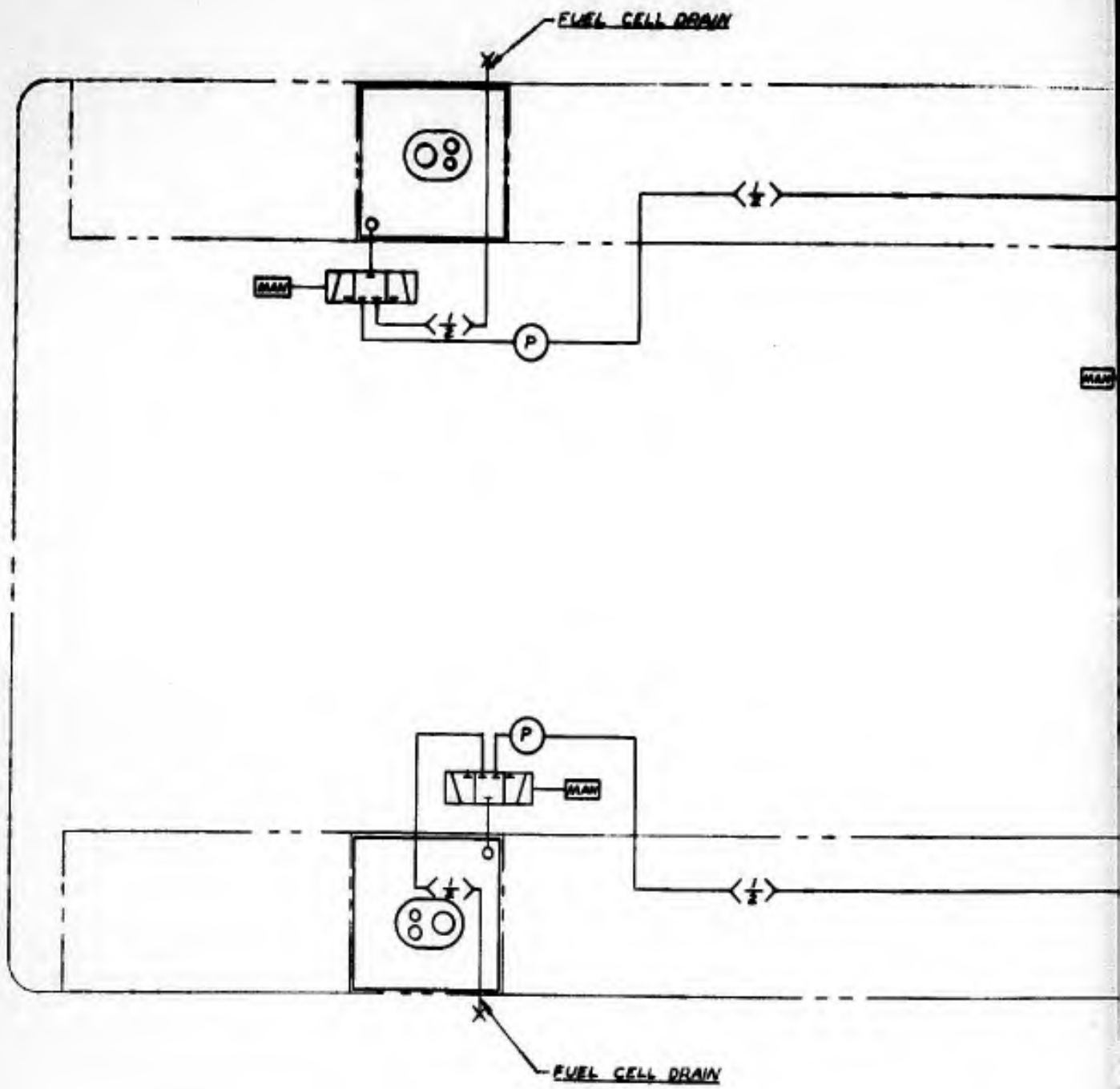


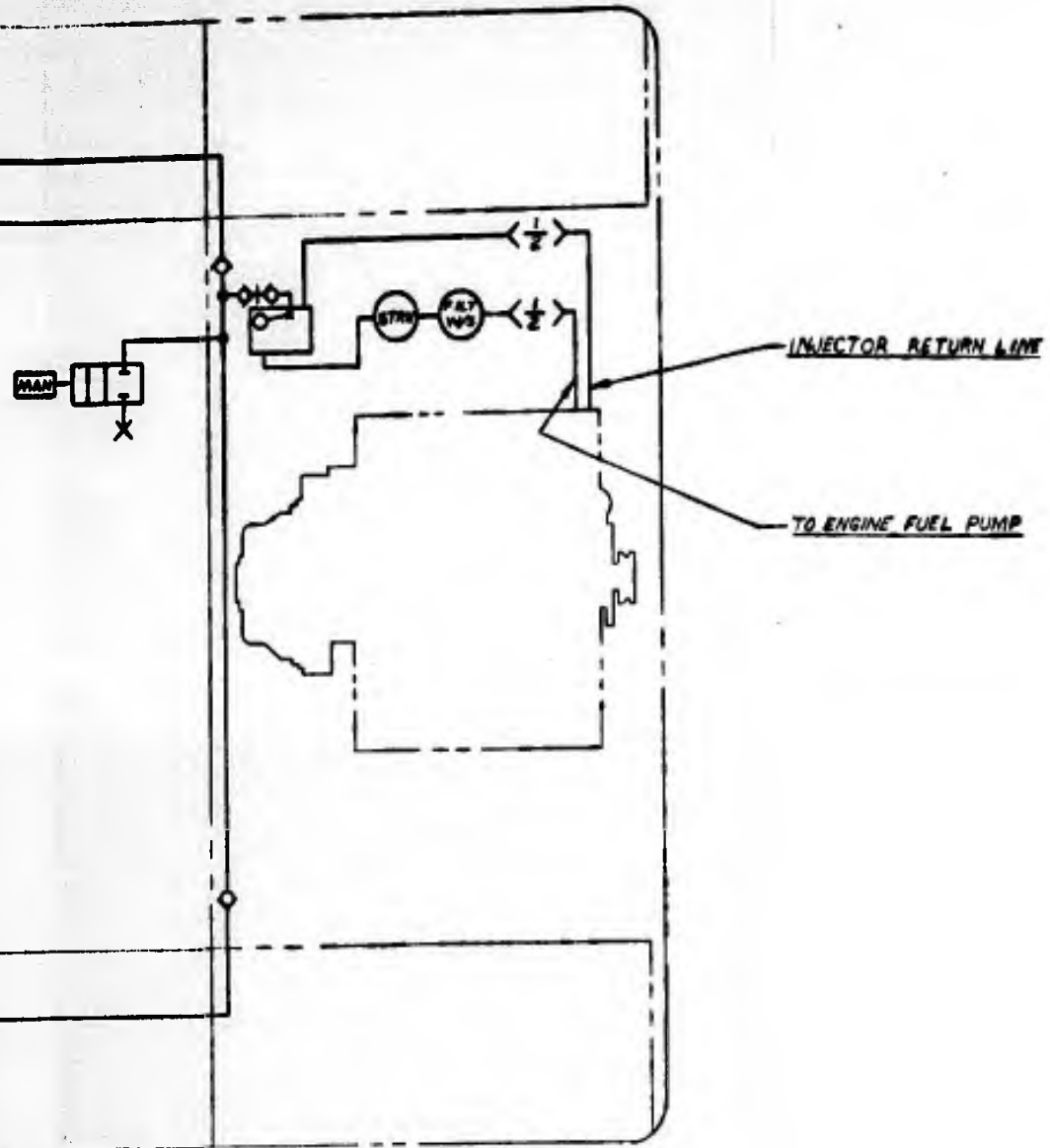
SECTION A-A





# 1

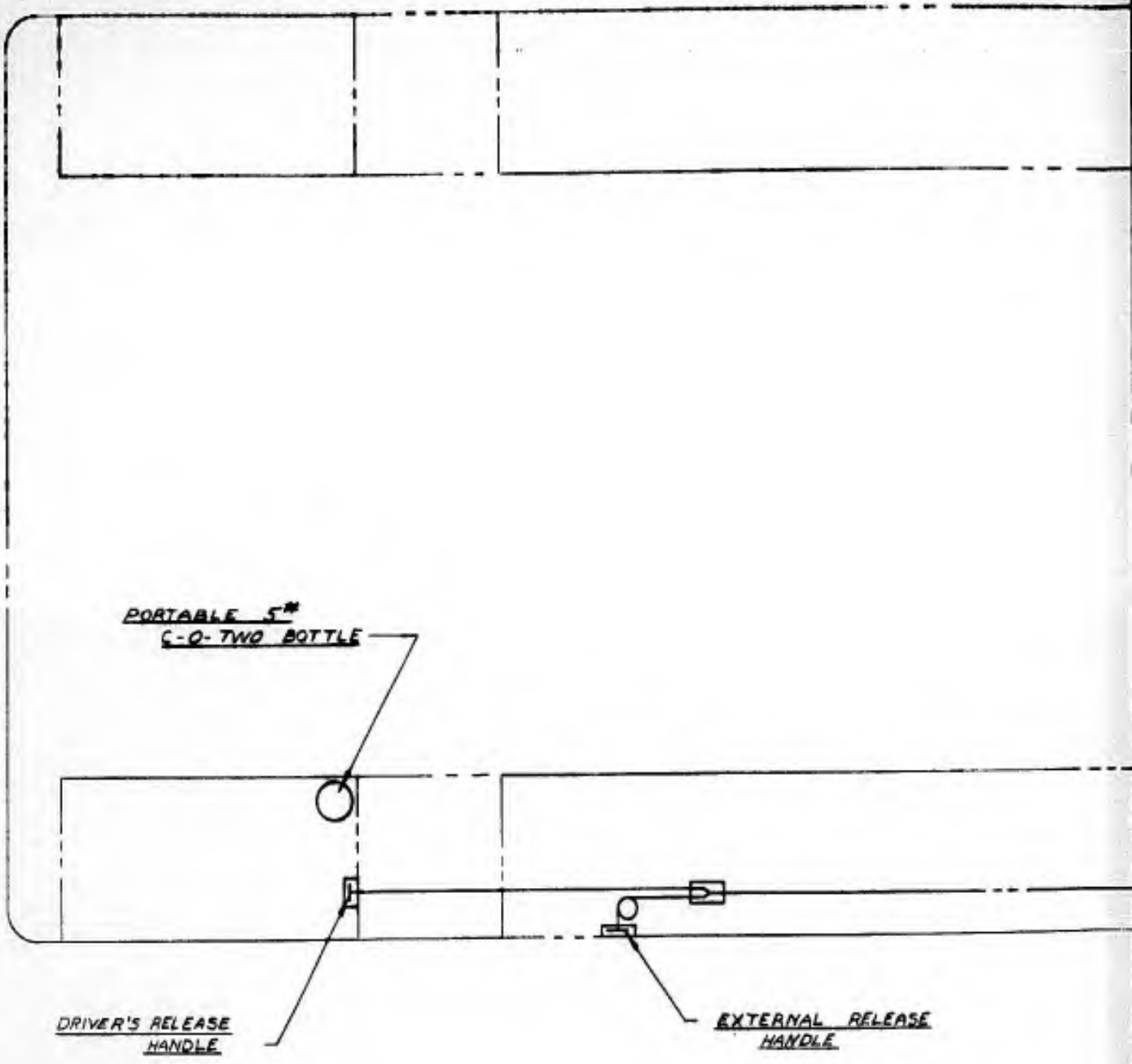




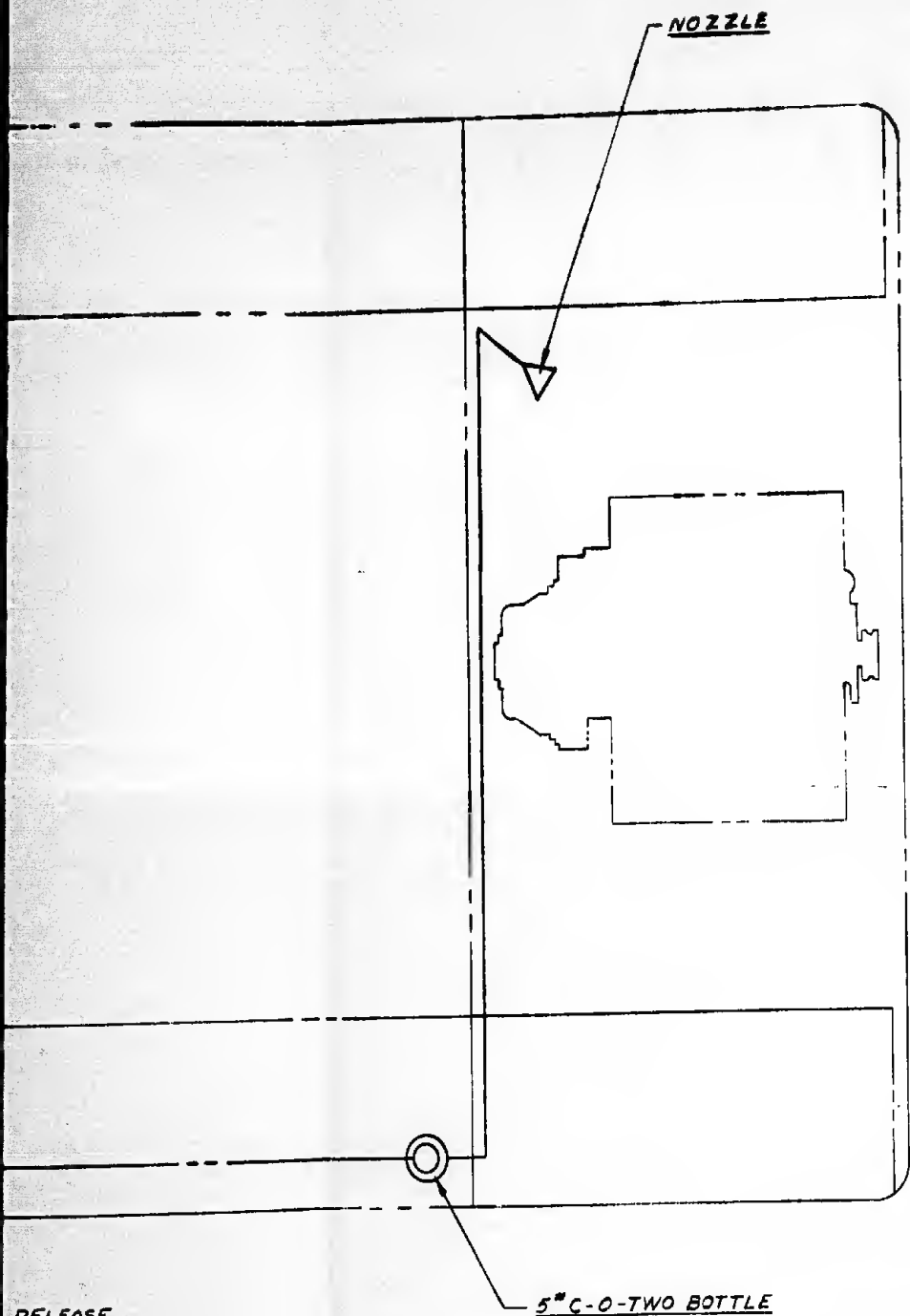
CONTRACT Nos 4561-4-3

MATERIAL:	R Cook 11-1-62		INGERSOLL KALAMAZOO DIVISION BORG-WARNER CORPORATION KALAMAZOO MICHIGAN
	DRAWN BY		
HEAT TREAT:	CHECKED BY		RESEARCH & DEVELOPMENT SECTION
	APPROVED	DATE	
SURFACE FINISH EXCEPT AS NOTED: <input checked="" type="checkbox"/>	4. R. Borgeson 11-1-62		TITLE
	PRINC. ENGR.		FUEL SYSTEM SCHEMATIC LYTPX11
TOLERANCES: DECIMAL ± FRACTIONAL ± ANGULAR ± BREAK CORNERS TO UNLESS OTHERWISE SPECIFIED	11-1-62		DWG. NO.
	SCALE:	WEIGHT: DIAL: ACTUAL:	D, SK-5233
			SHEET 1 OF 1 SHEETS

1



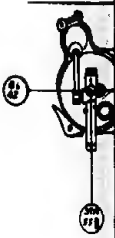
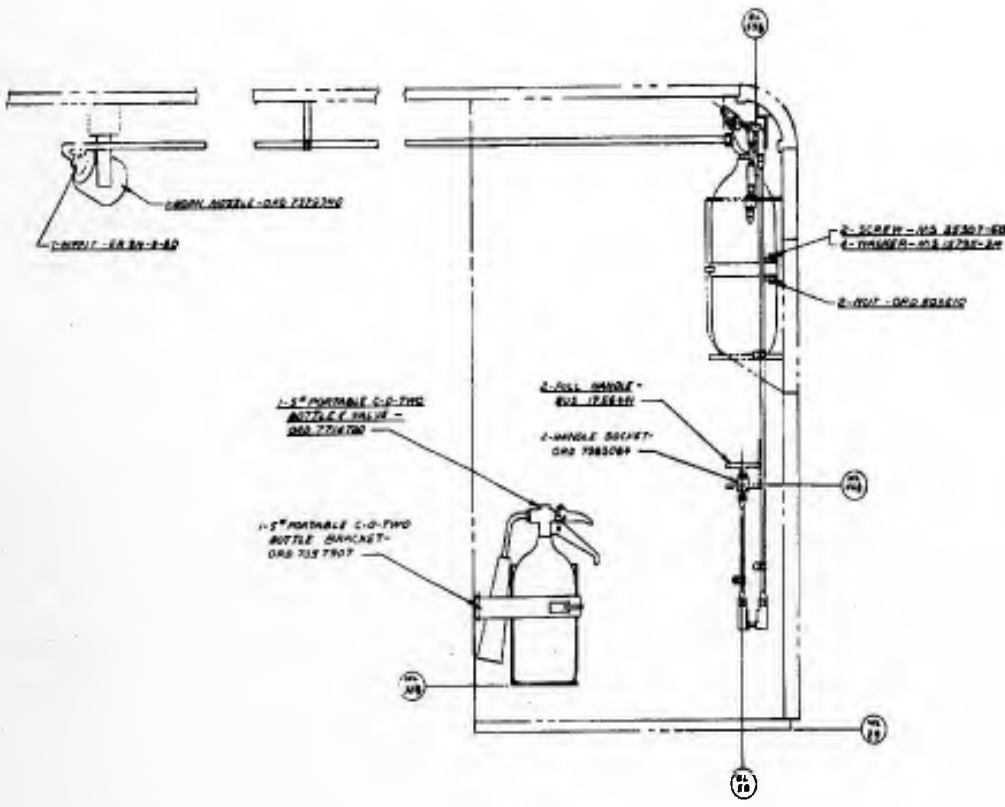
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CONTRACT No's 4561-41-4

MATERIAL:	R Carl 11-2-62		INGERSOLL KALAMAZOO DIVISION SONO-WARNER CORPORATION KALAMAZOO MICHIGAN RESEARCH & DEVELOPMENT SECTION
	DRAWN BY		
HEAT TREAT:	CHECKED BY		TITLE: C-O-TWO FIRE EXTINGUISHING SYSTEM SCHEMATIC-LVTPXII
	APPROVED	DATE	
SURFACE FINISH EXCEPT AS NOTED: ✓	F. R. [Signature]		Dwg. No. D, SK-5234
	CHIEF ENGINEER		
TOLERANCES:	DECIMAL ±	FRACTIONAL ±	SHEET 1 OF 1 SHEETS
	ANGULAR ±	BREAK CORNERS TO UNLESS OTHERWISE SPECIFIED	
	SOURCE:	WEIGHT: CALC: ACTUAL:	

1



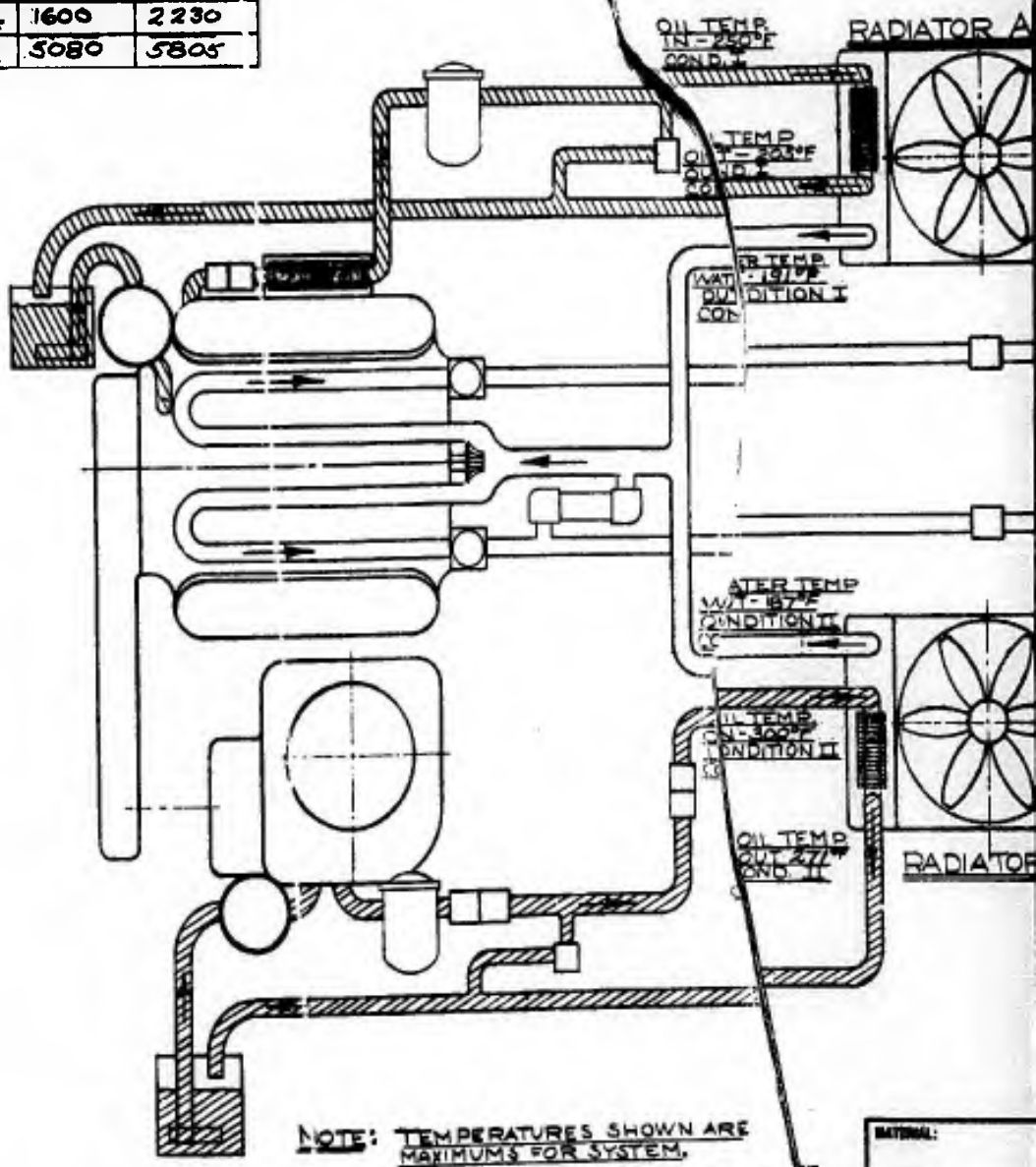




# 1

HEAT REJECTED, BTU/MIN.

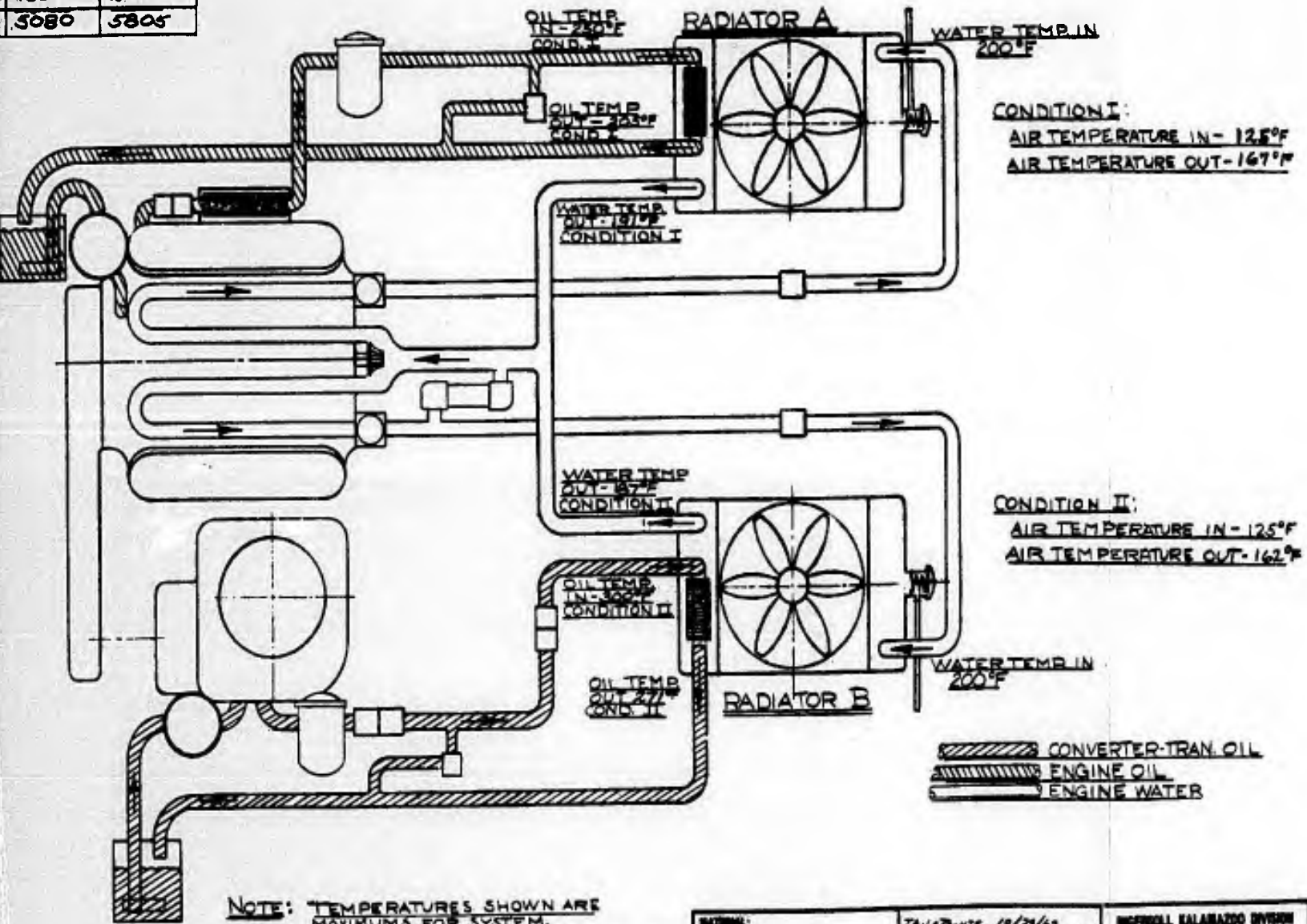
		CONDITION I	CONDITION II
RAD. A	ENG. WATER	3480	3575
	ENG. OIL	2000	1500
	TOTAL	6480	5075
RAD. B	ENG. WATER	3480	3575
	TRAN. OIL	1600	2230
	TOTAL	5080	5805



**NOTE:** TEMPERATURES SHOWN ARE  
 MAXIMUMS FOR SYSTEM.  
 MAXIMUM AMBIENT AIR TEMP - 125°F  
 23" DIA. - G BLADE - 2000 RPM FANS

MATERIAL:
HEAT TREAT:
SURFACE FINISH EXCEPT AS NOTED:
TOLERANCES: DECIMAL ±      FRACTION ± ANGULAR ± HOLE CONING TO UNLESS OTHERWISE SPECIFIED

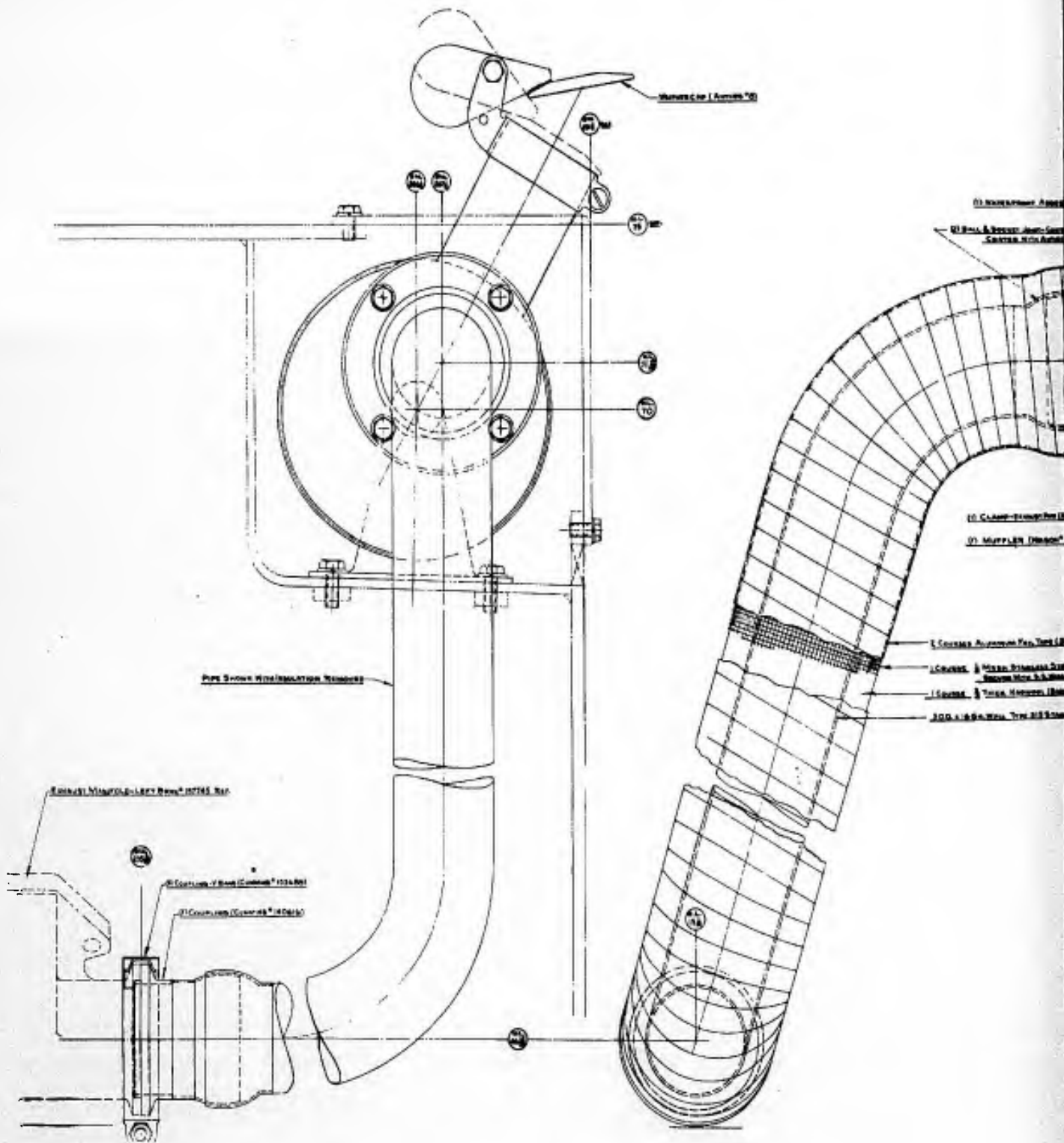
BTU/HR	COND. I	COND. II
3480	3575	
2000	1500	
6480	5075	
3480	3575	
1600	2230	
5080	5805	



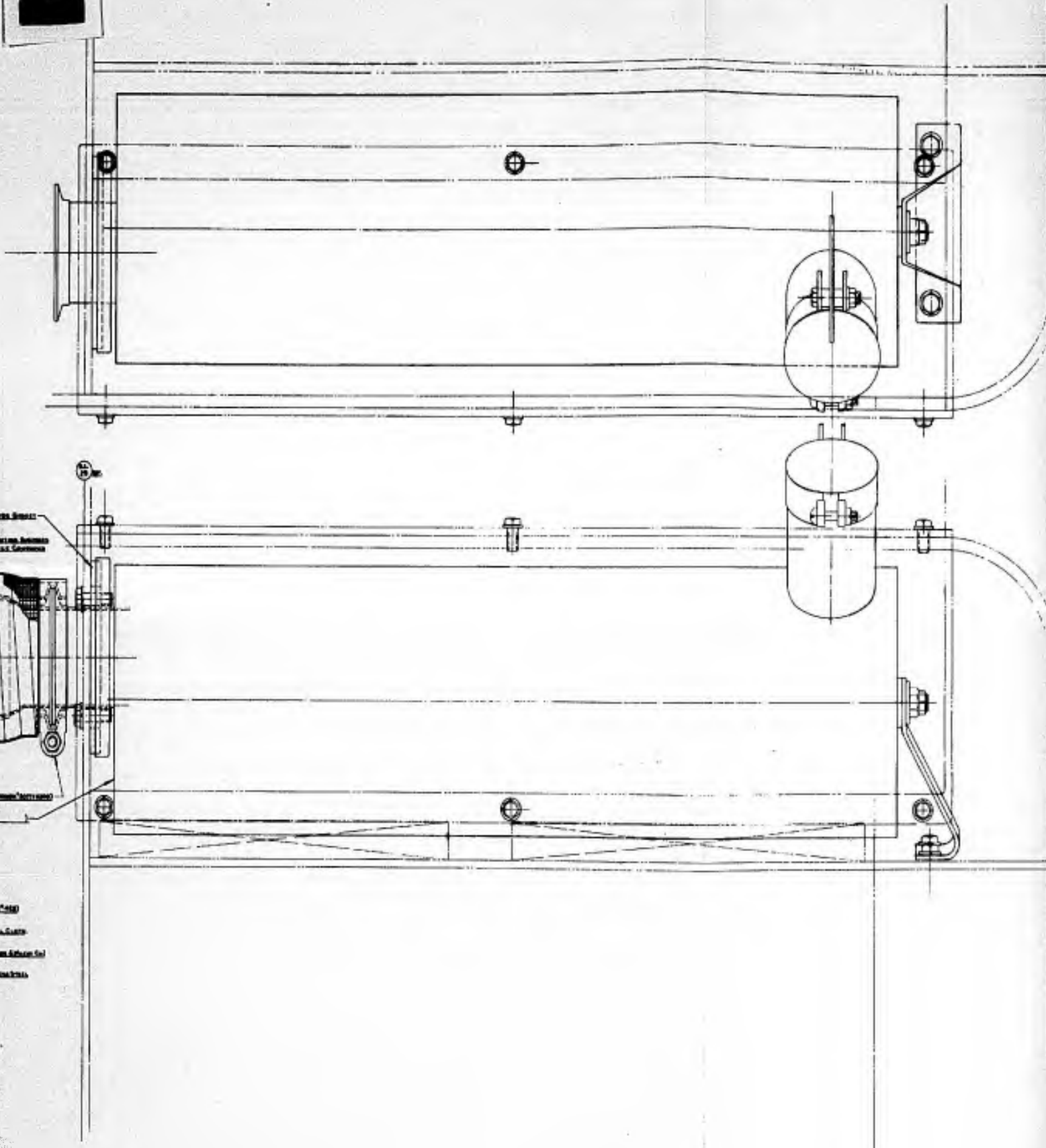
**NOTE:** TEMPERATURES SHOWN ARE  
 MAXIMUMS FOR SYSTEM,  
 MAXIMUM AMBIENT AIR TEMP - 125°F  
 23" DIA - 6 BLADE - 2000RPM FANS

DATE: 7/27/62	TALEP/INTG 10/27/62	INGERSOLL KALAMAZOO DIVISION KALAMAZOO CORPORATION KALAMAZOO MICHIGAN
	DRAWN BY	
HEAT TREAT:	N.WRIGHT 1/20/62	RESEARCH & DEVELOPMENT SECTION
	CHECKED BY	
	APPROVED	DATE
	<i>E. Tasker</i>	7/27/62
	PHIL SHAW	
	<i>A. Brown</i>	7/27/62
	BOB SHAW	
SURFACE FINISH EXCEPT AS NOTED: ✓	SCALE:	TITLE: LYT-PX11 COOLING SYSTEM HEAT REJECTION DATA
TOLERANCES: DIMENSIONAL ± FRACTIONAL ± ANGULAR ± UNLESS OTHERWISE SPECIFIED	WEIGHT: CALC: ACTUAL:	REV. DWG. NO. C, SK 5236
		SHEET 1 OF 1 SHEETS

1



# 2



11. 1/2" DIA. X 1/4" THICK ALUMINUM BRACKET

12. 1/2" DIA. X 1/4" THICK ALUMINUM BRACKET  
MOUNTED WITH 1/4" DIA. X 1/4" THICK

13. 1/2" DIA. X 1/4" THICK ALUMINUM BRACKET

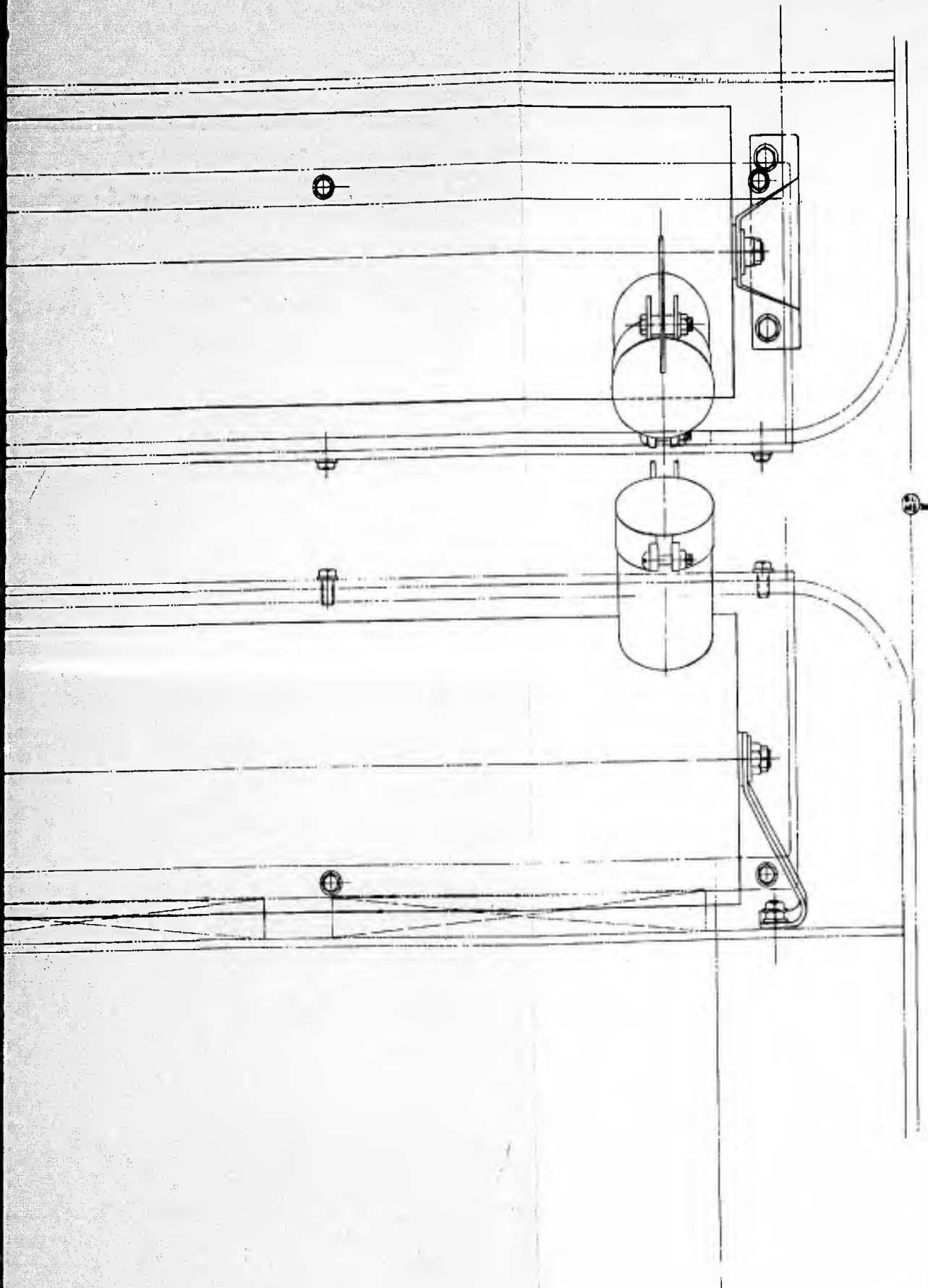
14. 1/2" DIA. X 1/4" THICK ALUMINUM BRACKET

15. 1/2" DIA. X 1/4" THICK ALUMINUM BRACKET

16. 1/2" DIA. X 1/4" THICK ALUMINUM BRACKET

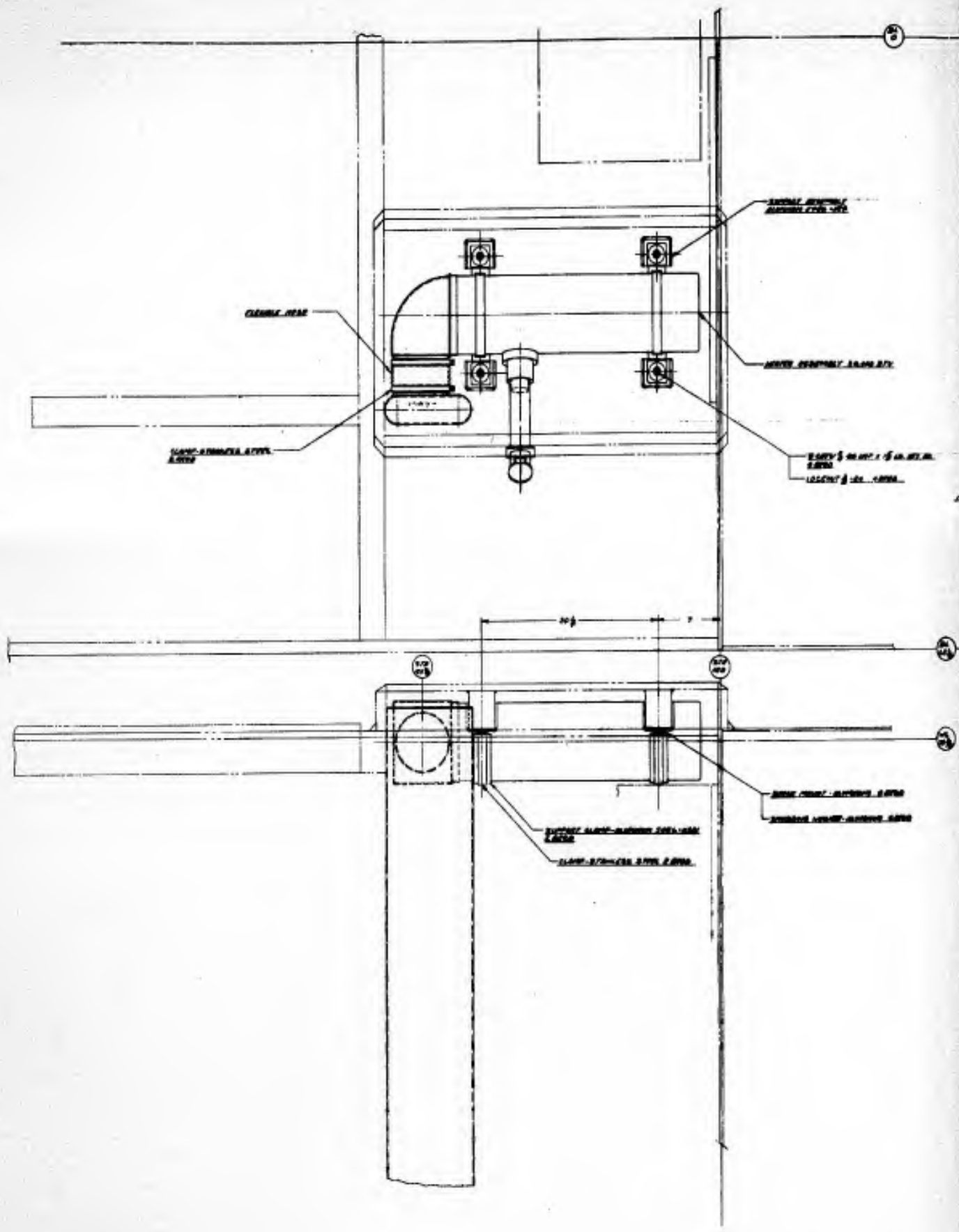
17. 1/2" DIA. X 1/4" THICK ALUMINUM BRACKET

18. 1/2" DIA. X 1/4" THICK ALUMINUM BRACKET

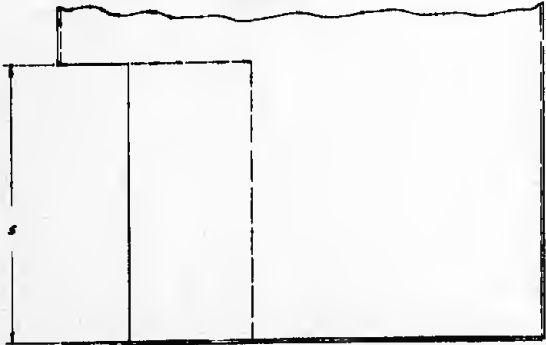
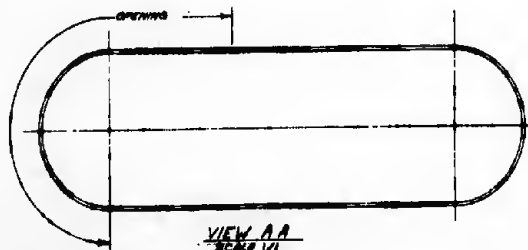
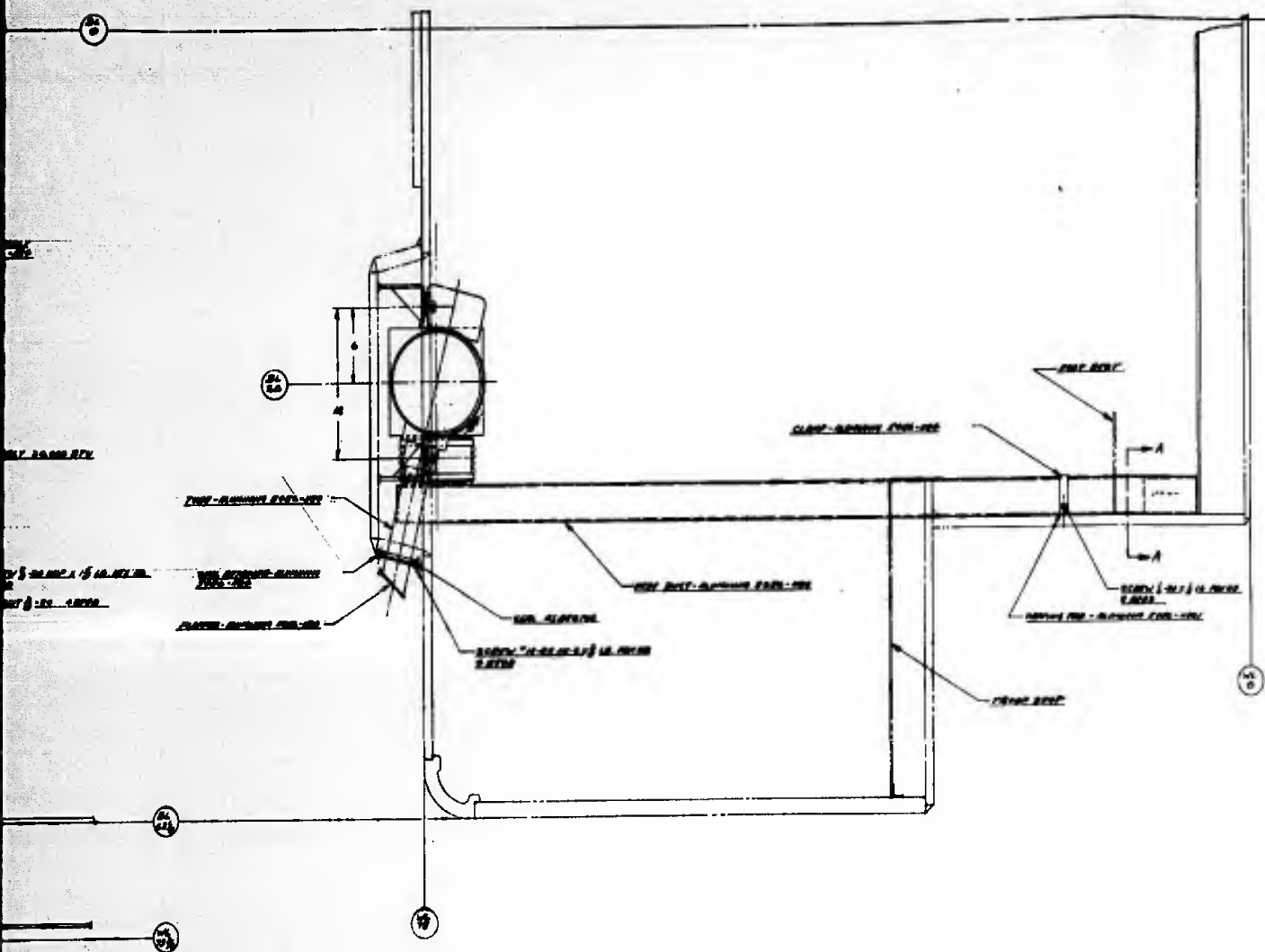


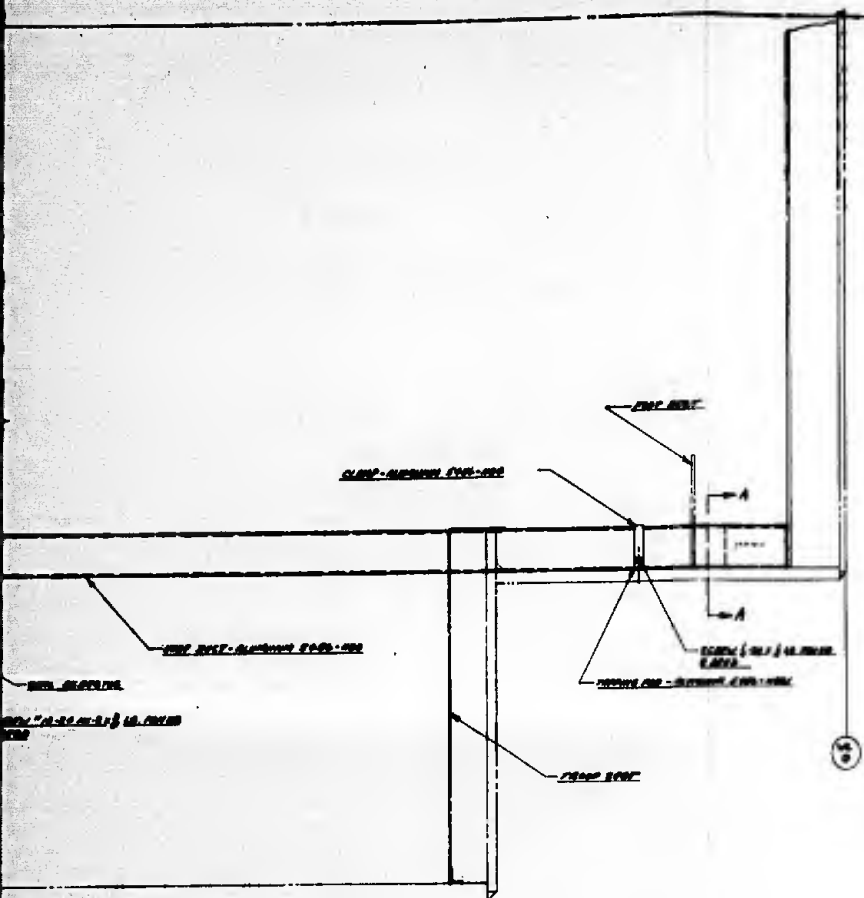
DATE	DESIGNED BY	APPROVED BY
	<i>[Signature]</i>	<i>[Signature]</i>
REVISED BY	CHECKED BY	DATE
	<i>[Signature]</i>	
QUANTITY	SCALE	UNIT
PART NAME		5K-584C
LVT PKII		
EXHAUST SYSTEM		

1



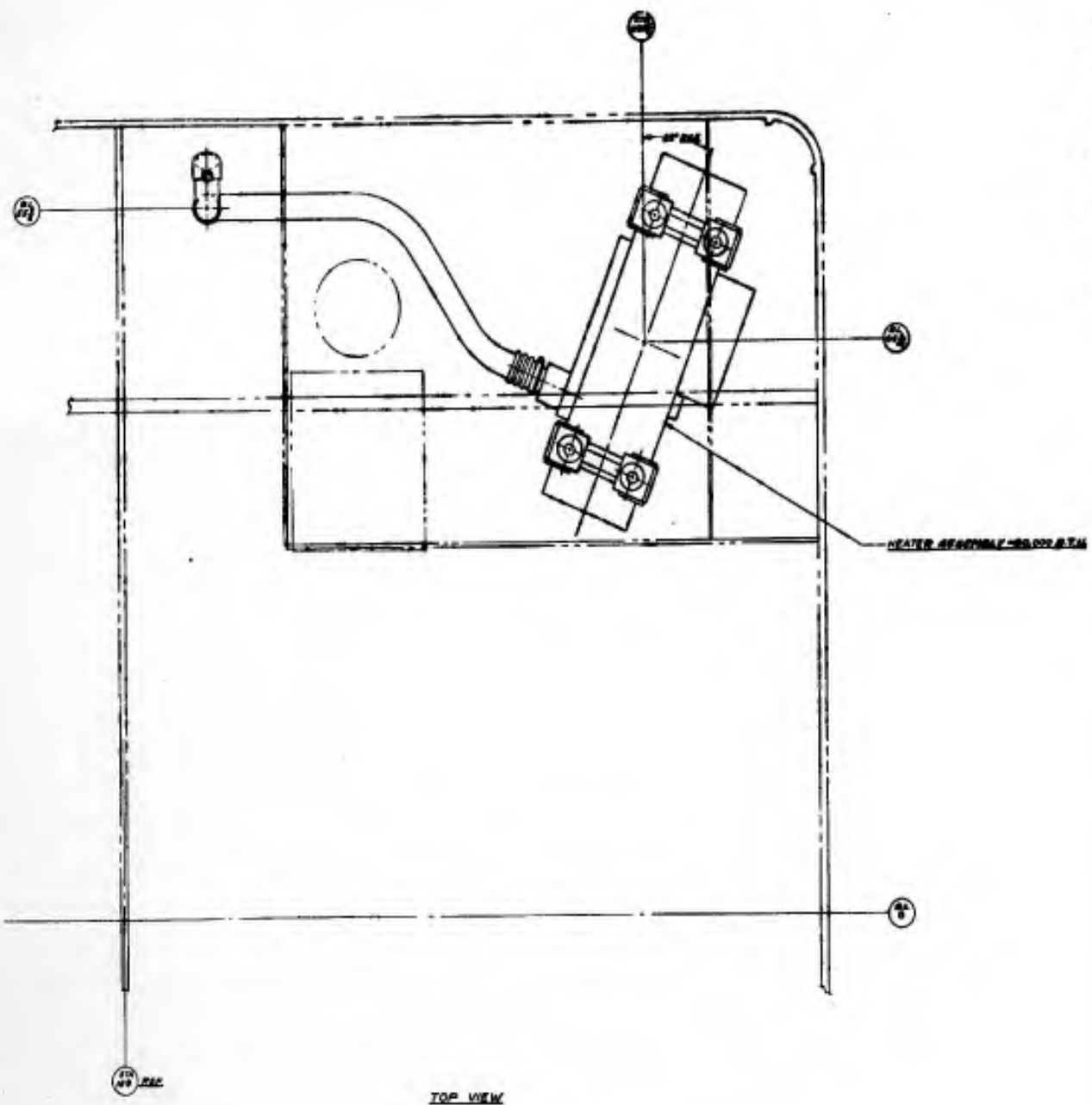
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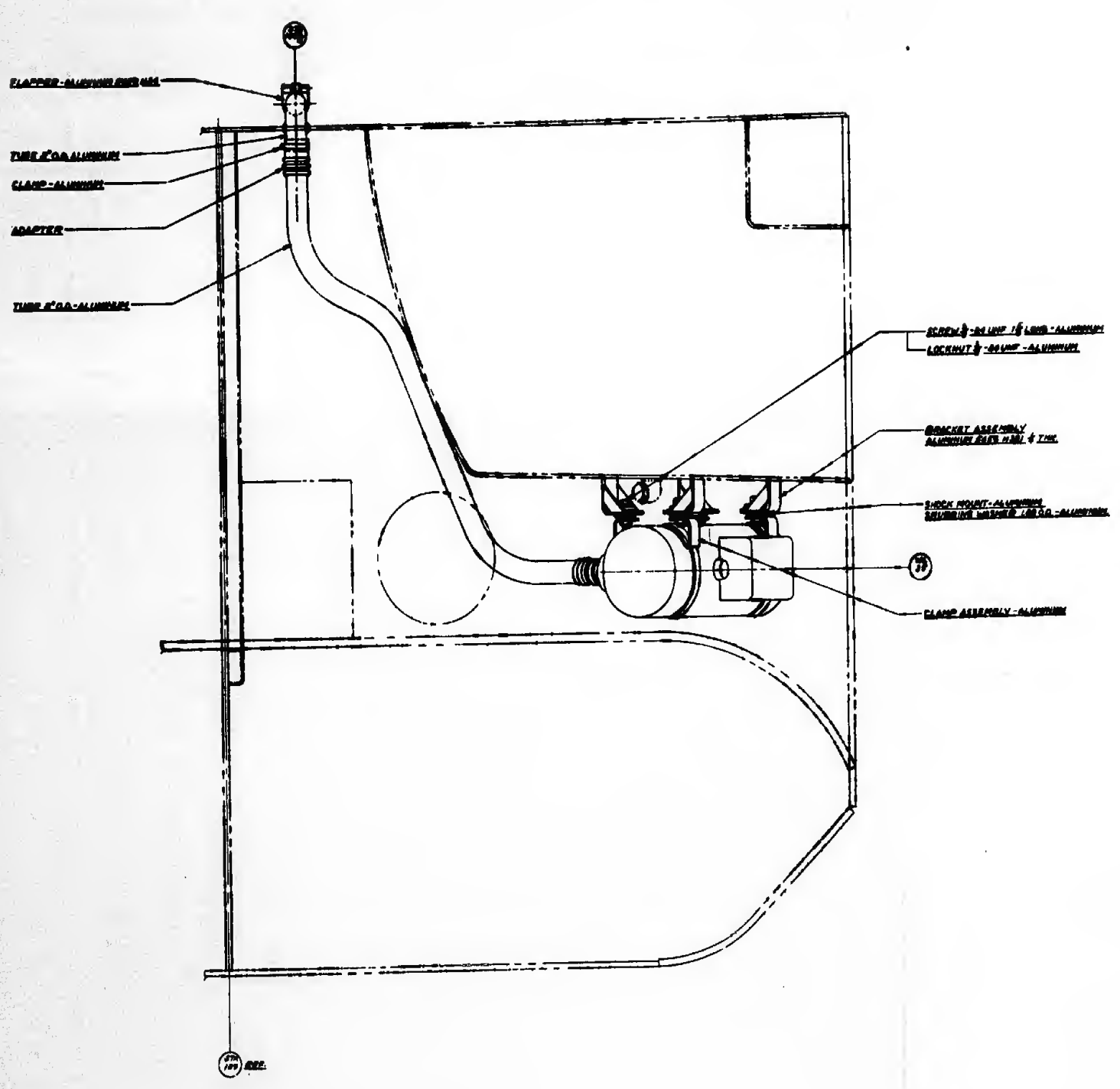


DATE:	1/10/02	REVISION:	1
BY:	J. S. J.	APPROVED:	
DESCRIPTION:	INSTALLATION KIT		
QUANTITY:	1	UNIT:	EA
REVISION:	1	DATE:	1/10/02
REVISION:	2	DATE:	1/10/02
REVISION:	3	DATE:	1/10/02

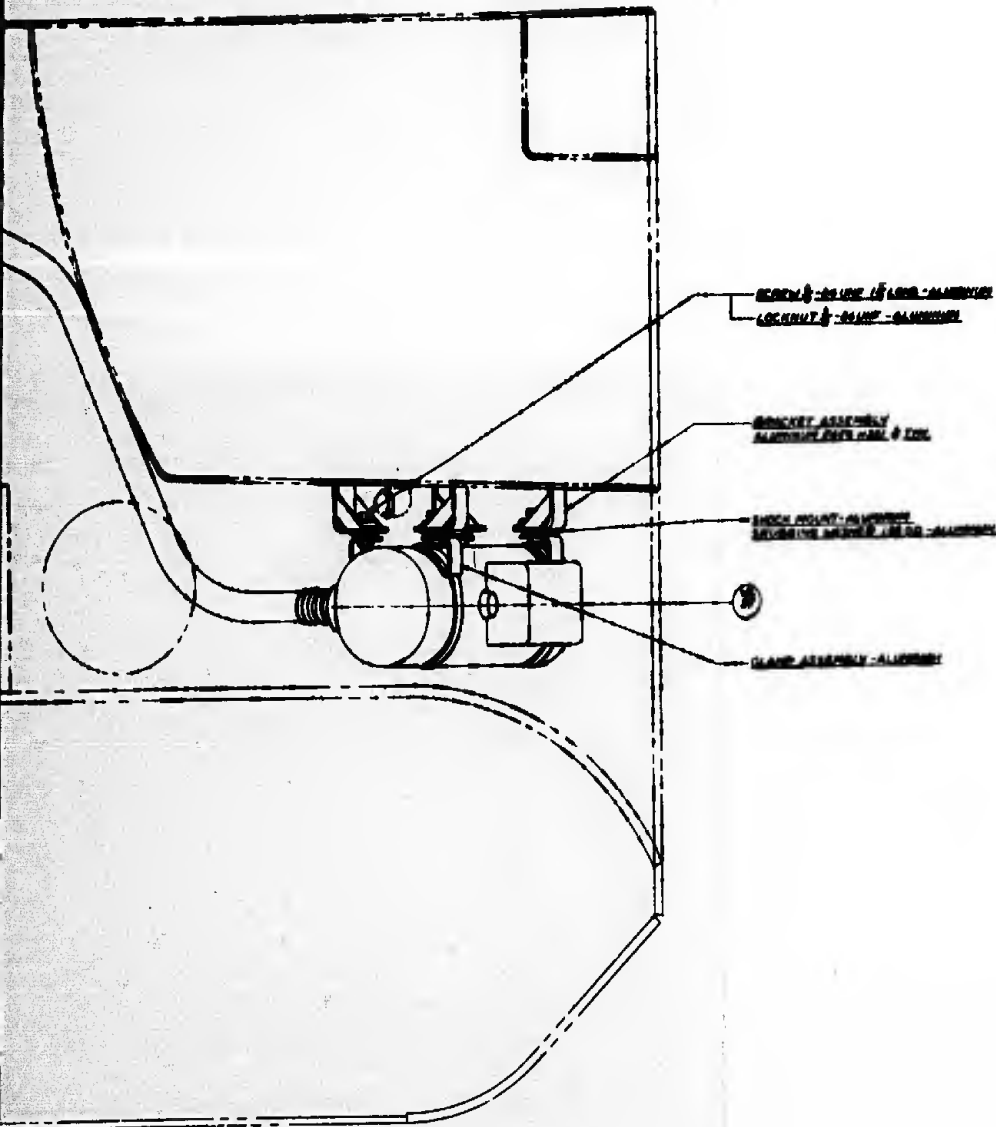
# 1



2

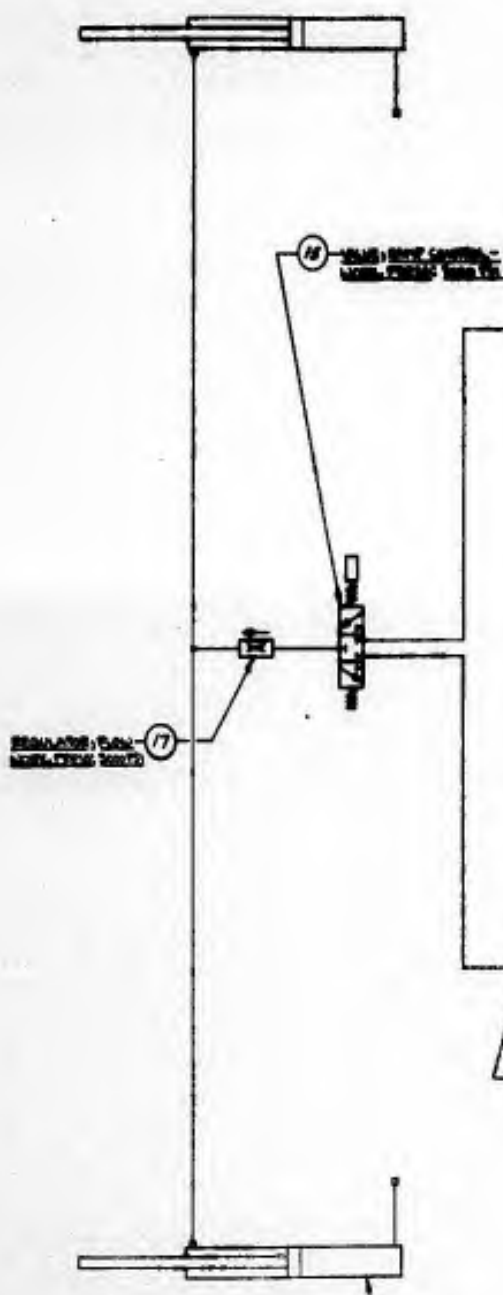


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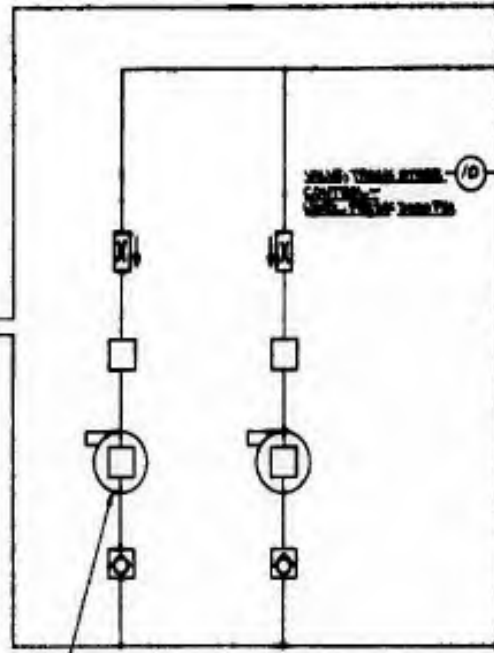


DATE:	BY: [Signature]	REVISIONS:
REV. 1	DATE: 1/15/82	DESCRIPTION: INITIAL RELEASED DRAWING
REV. 2	DATE: 1/20/82	DESCRIPTION: REVISIONS & SUPPLEMENTARY DATA
REV. 3	DATE: 1/25/82	DESCRIPTION: INSTALLATION WINTERIZATION KIT
REV. 4	DATE: 1/30/82	DESCRIPTION: J. SK-5242
REV. 5	DATE: 2/1/82	DESCRIPTION: J. SK-5242

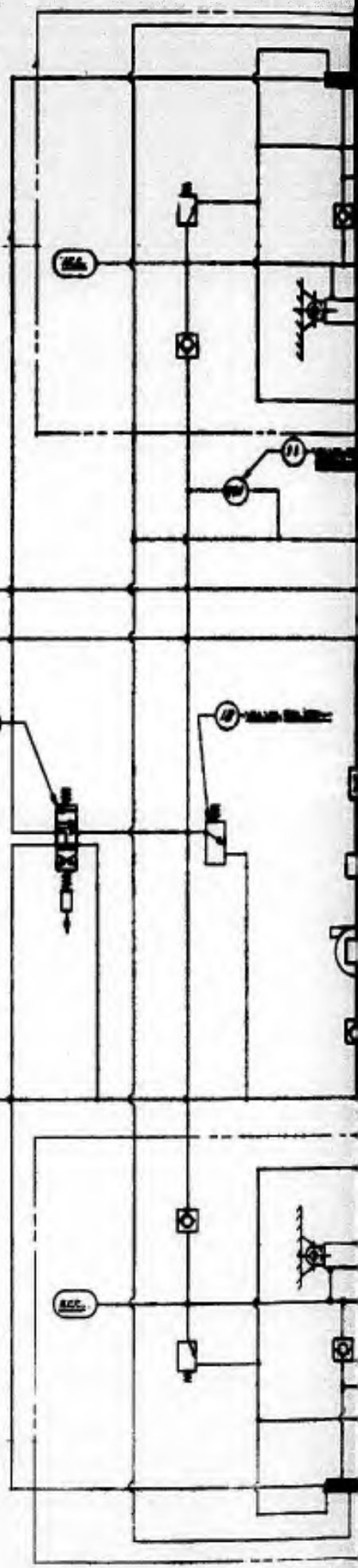
1



CYLINDER RAMP ACTUATING  
WORK PRESS. 2000 PSI  
STROKE: APPROX. 2 1/4 IN.  
BORE: 1 1/2 IN. DIA.  
ROD: 1 IN. DIA.  
VTF - 2 PLACES



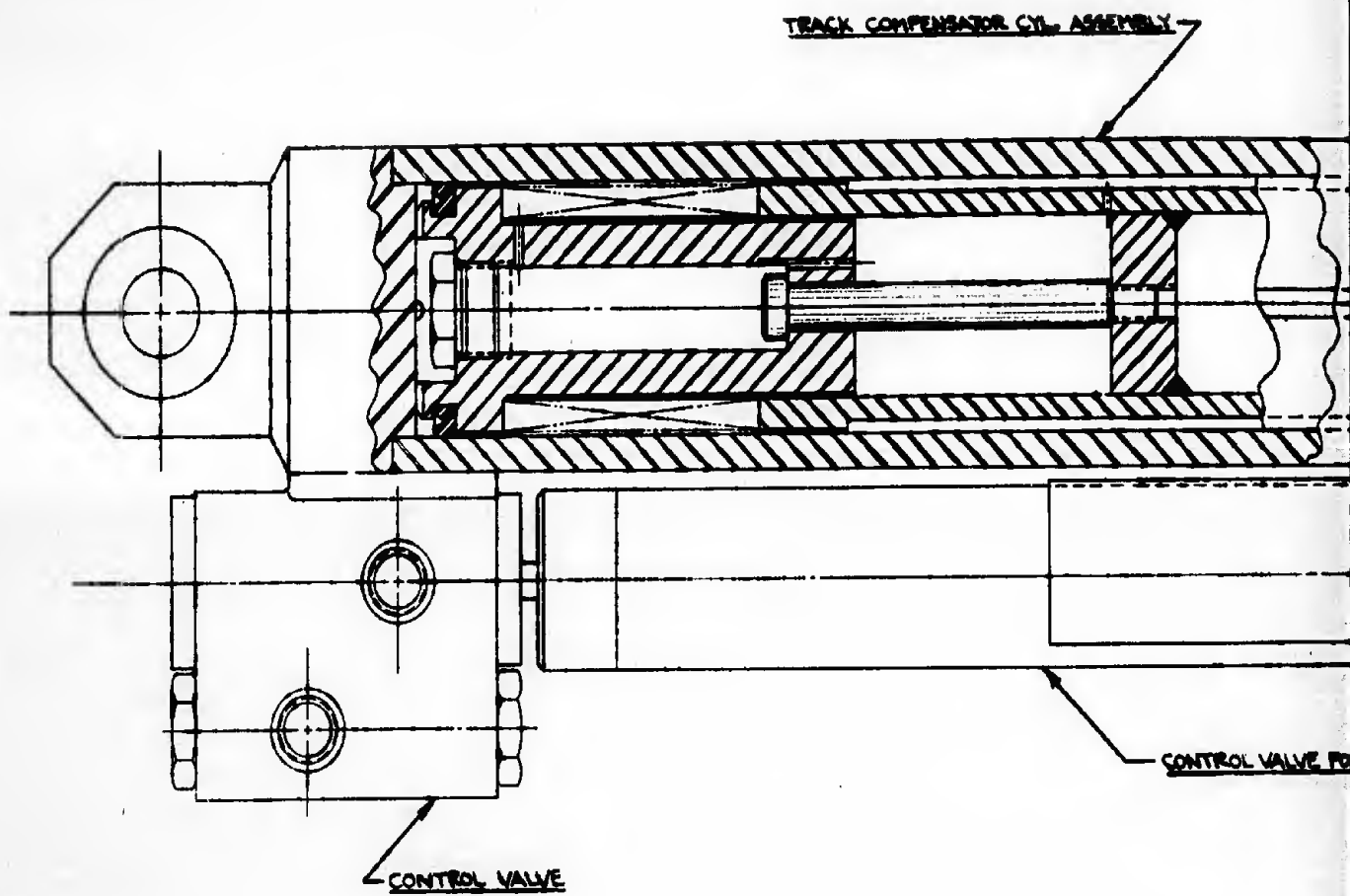
NOTES: THIS LINE INTERNAL-  
LY PRESS. 2000 PSI  
VTF - 2 PLACES



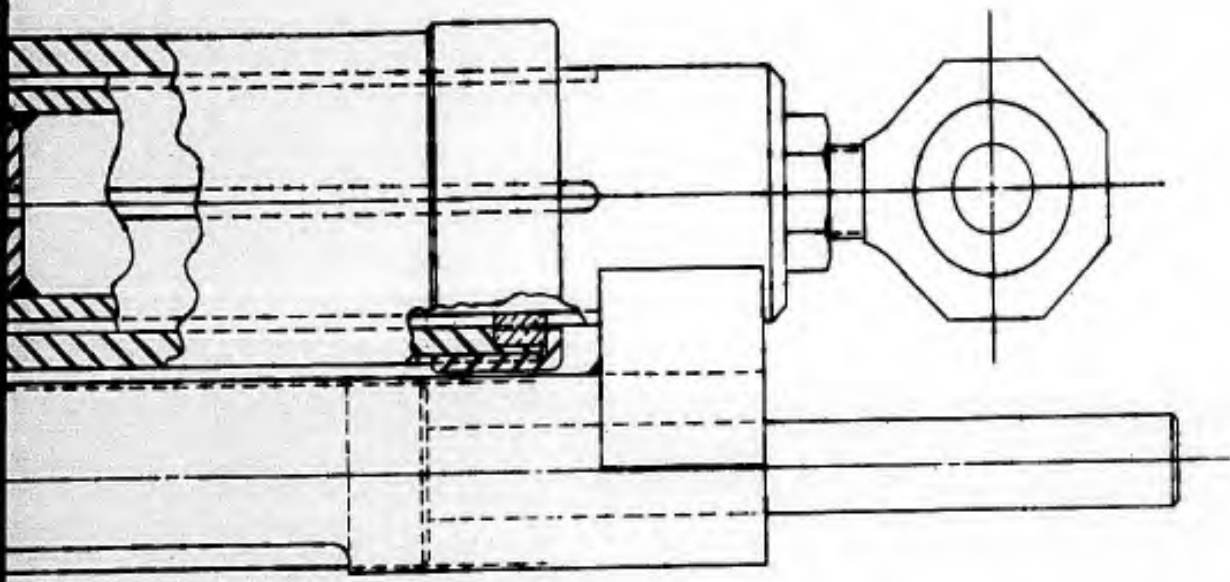




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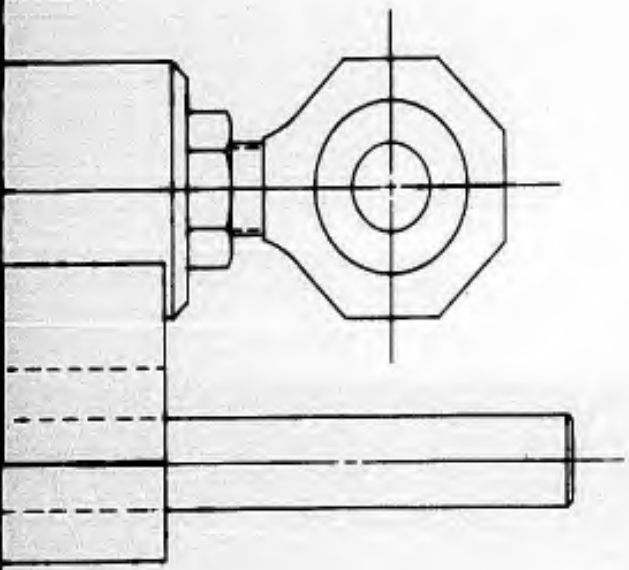


2



CONTROL VALVE POSITION SENSOR

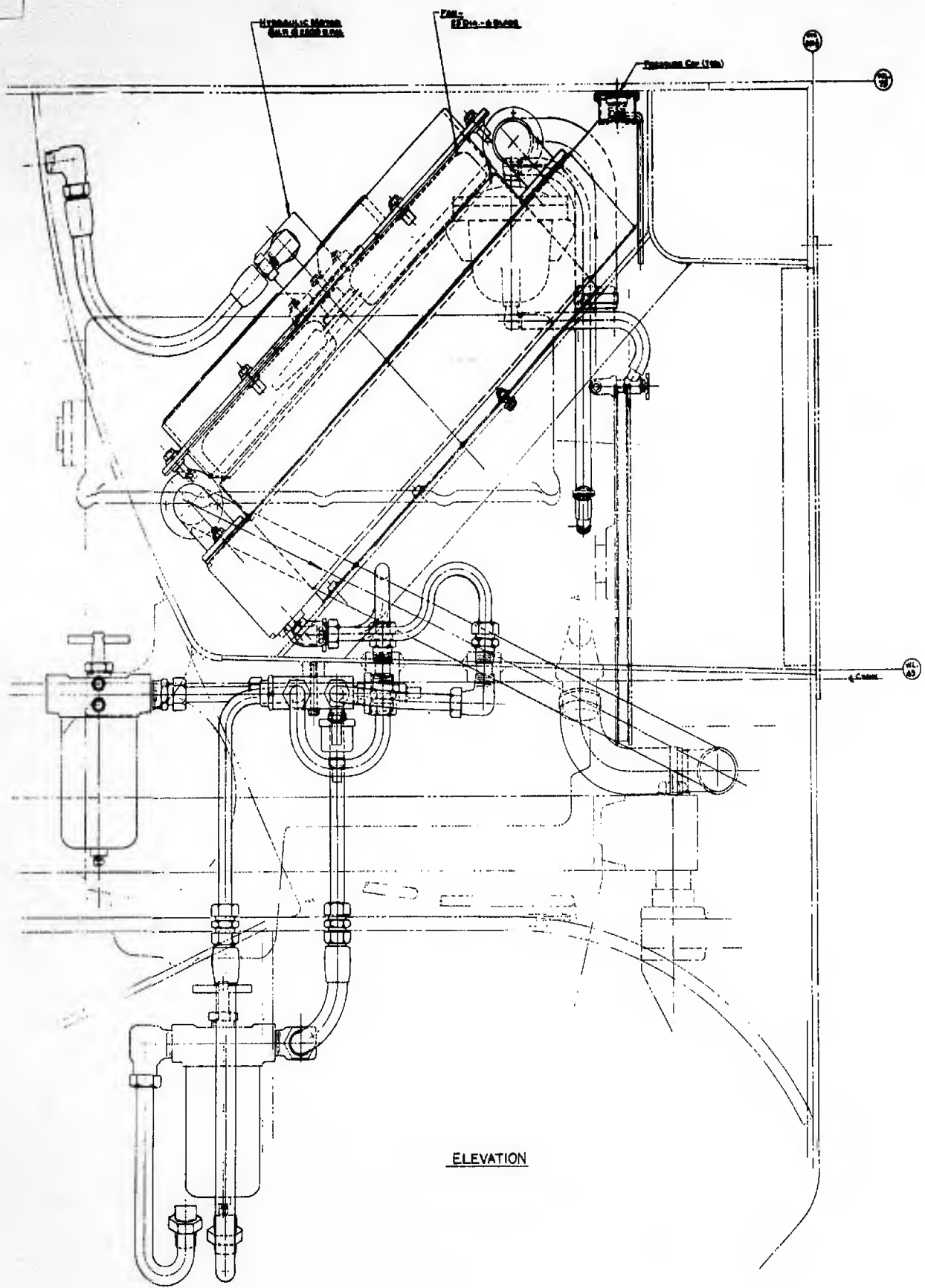
REV  
DATE  
BY  
APP  
CHK



**CONTRACT No. 4661**

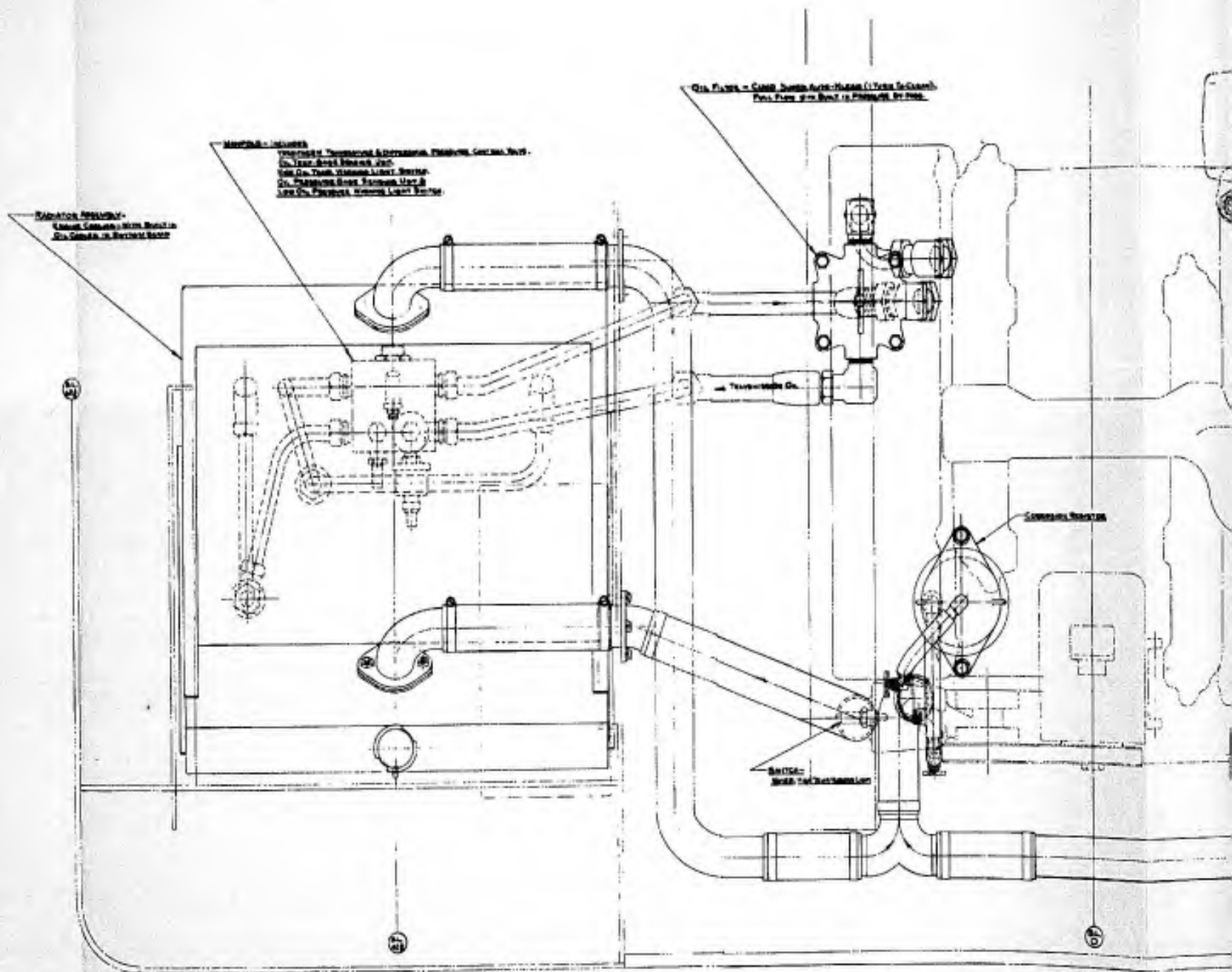
<b>DESIGNER:</b>	D. B. Spencer 11-18-64	<b>ENGINEER:</b>	W. H. G. GIBSON
<b>DATE:</b>	11-18-64	<b>PROJECT:</b>	RESEARCH & DEVELOPMENT MOTOR
<b>BY:</b>	<i>[Signature]</i>	<b>CHKD BY:</b>	<i>[Signature]</i>
<b>SCALE:</b>	1/1	<b>REV:</b>	1
<b>NO.:</b>		<b>DATE:</b>	11-18-64
<b>DESCRIPTION:</b>	THE TRACK COMPENSATOR CNL ASSEMBLY (ENTIRE)		
<b>PROJECT:</b>	J. SK-5244		
<b>UNIT:</b>		<b>OF:</b>	
<b>SHEET:</b>		<b>OF:</b>	

1



ELEVATION

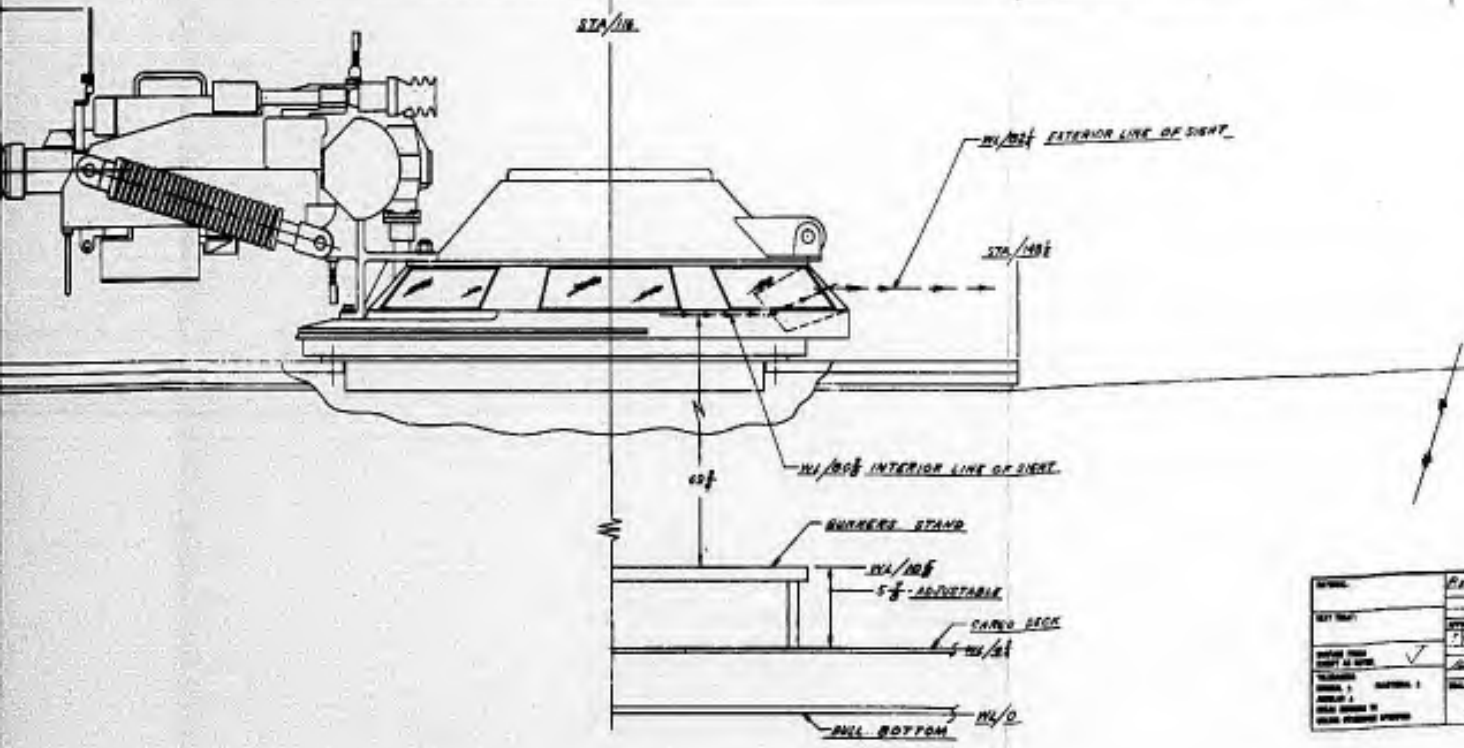
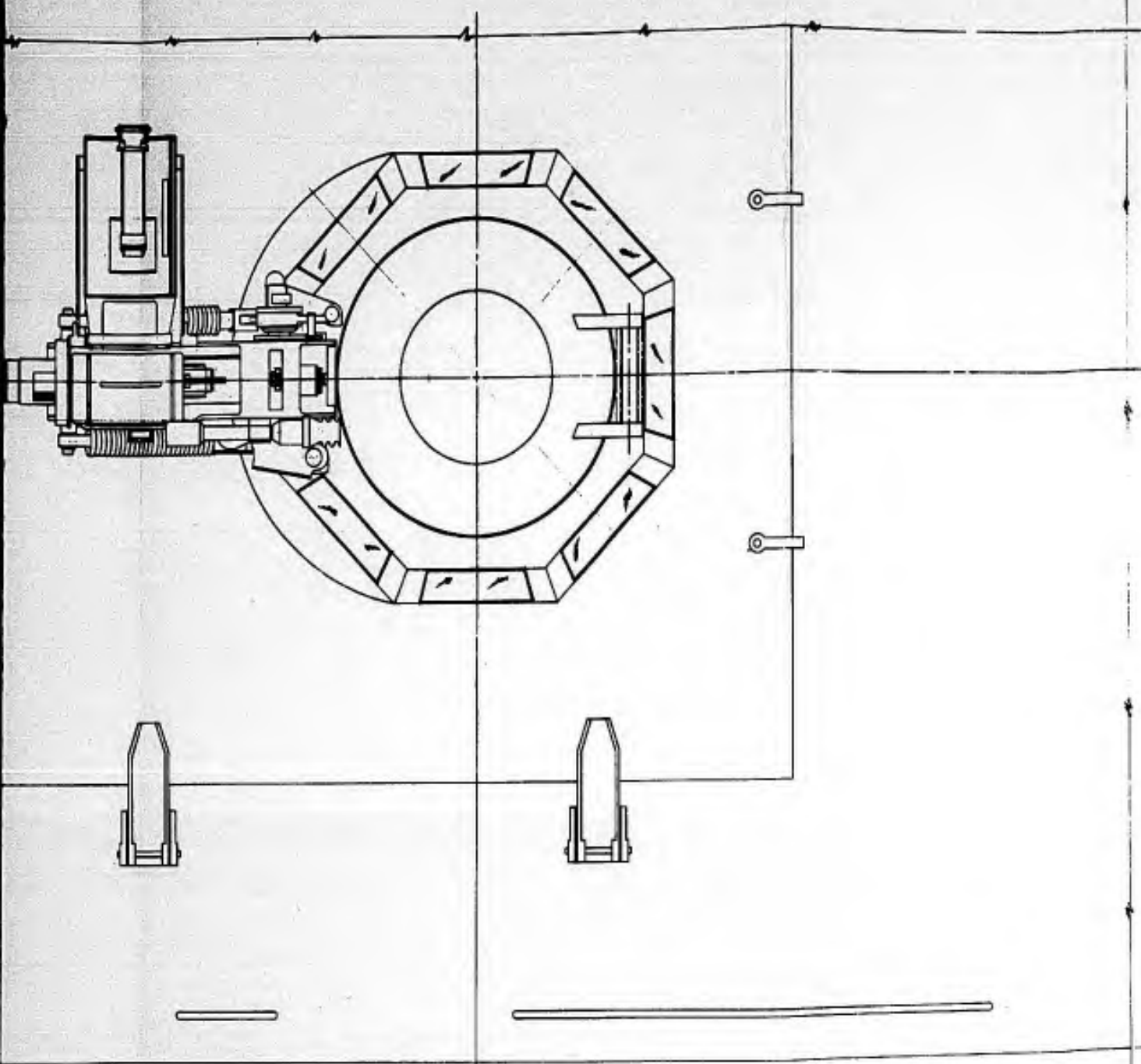
2



PLAN VIEW







REVISED	REVISIONS	DATE	BY
1	INITIALS		
2	DATE		
3	INITIALS		
4	DATE		
5	INITIALS		
6	DATE		
7	INITIALS		
8	DATE		
9	INITIALS		
10	DATE		

UNCLASSIFIED

UNCLASSIFIED