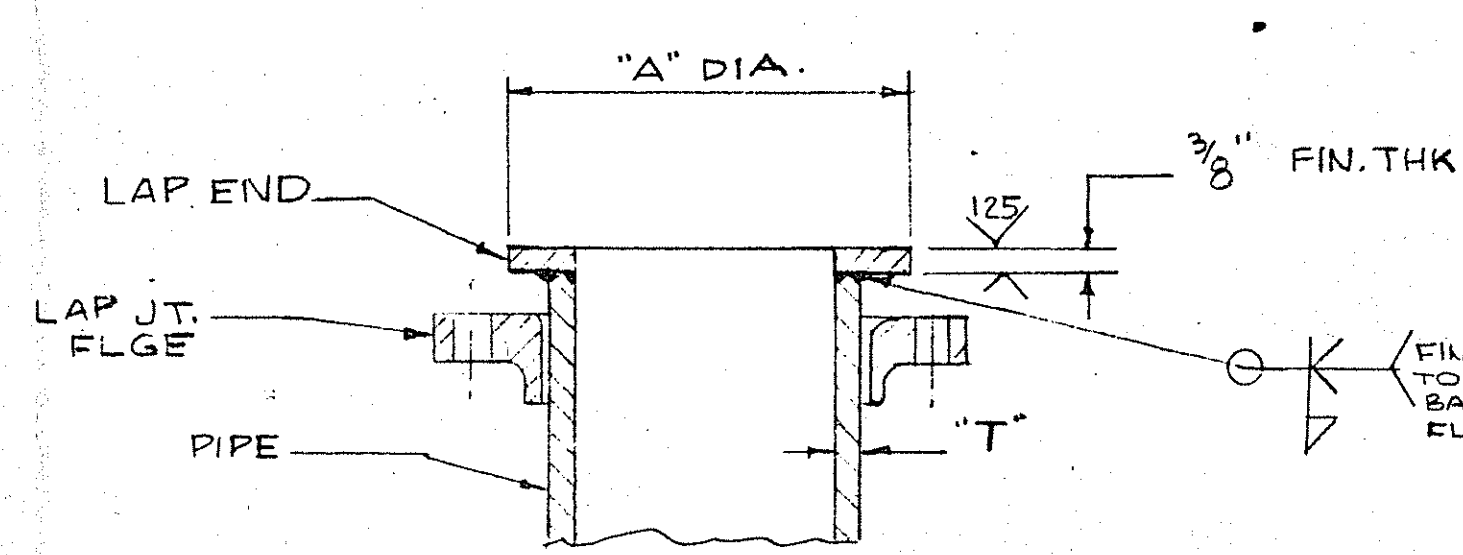
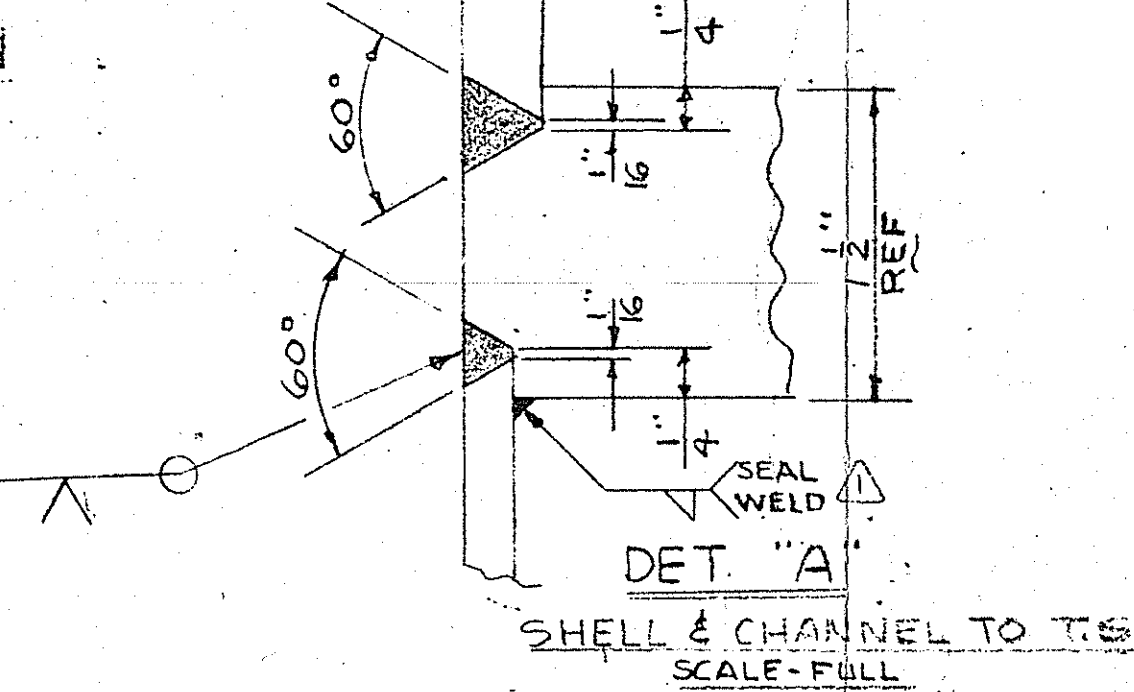
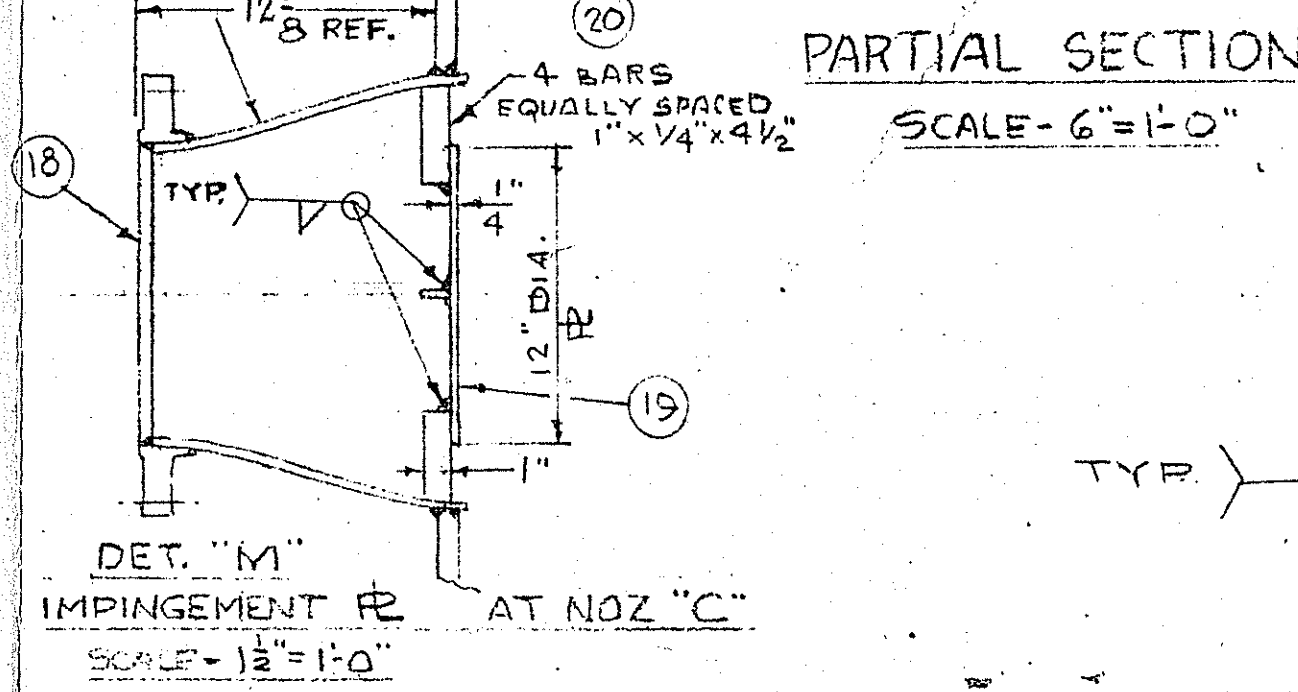
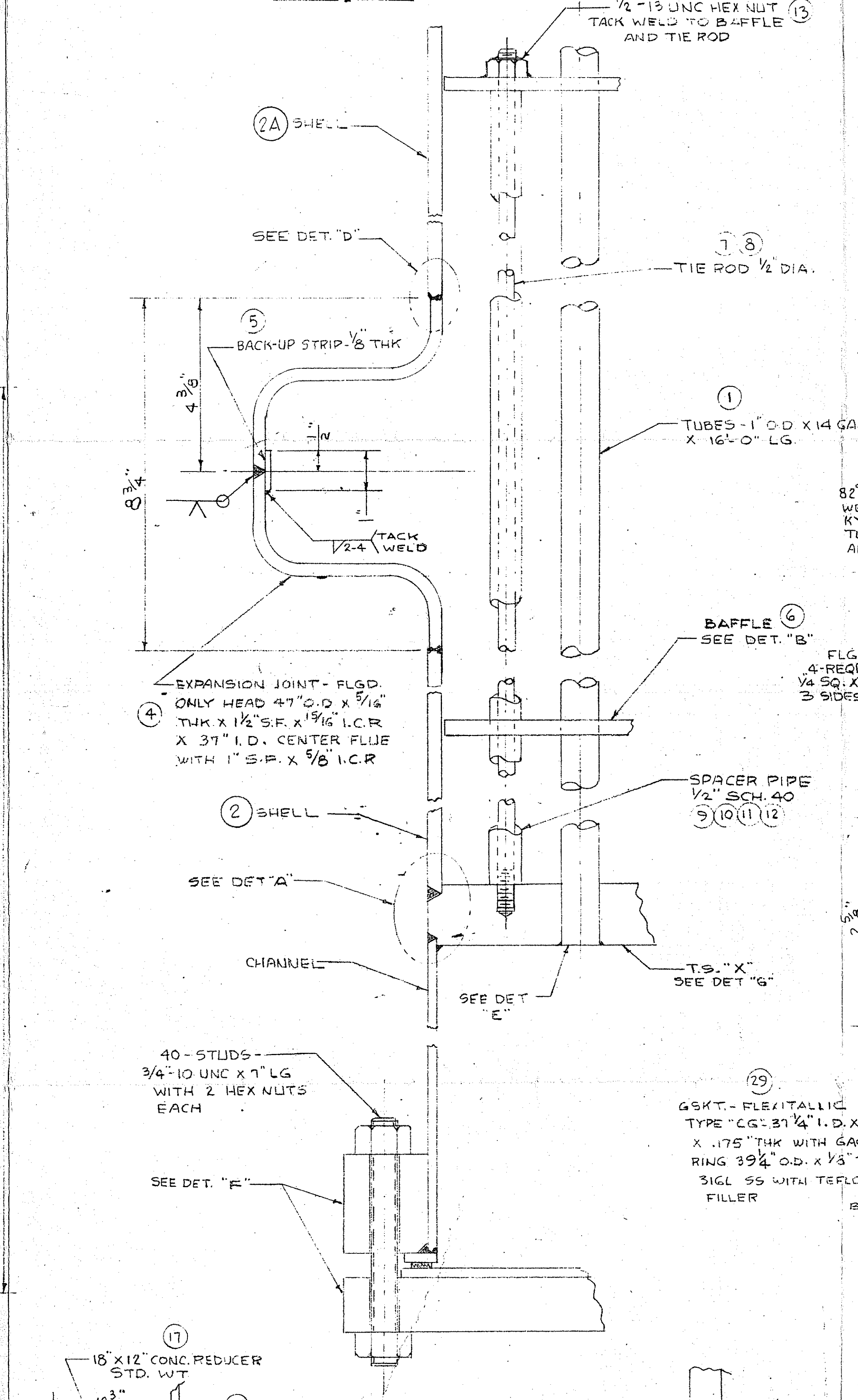
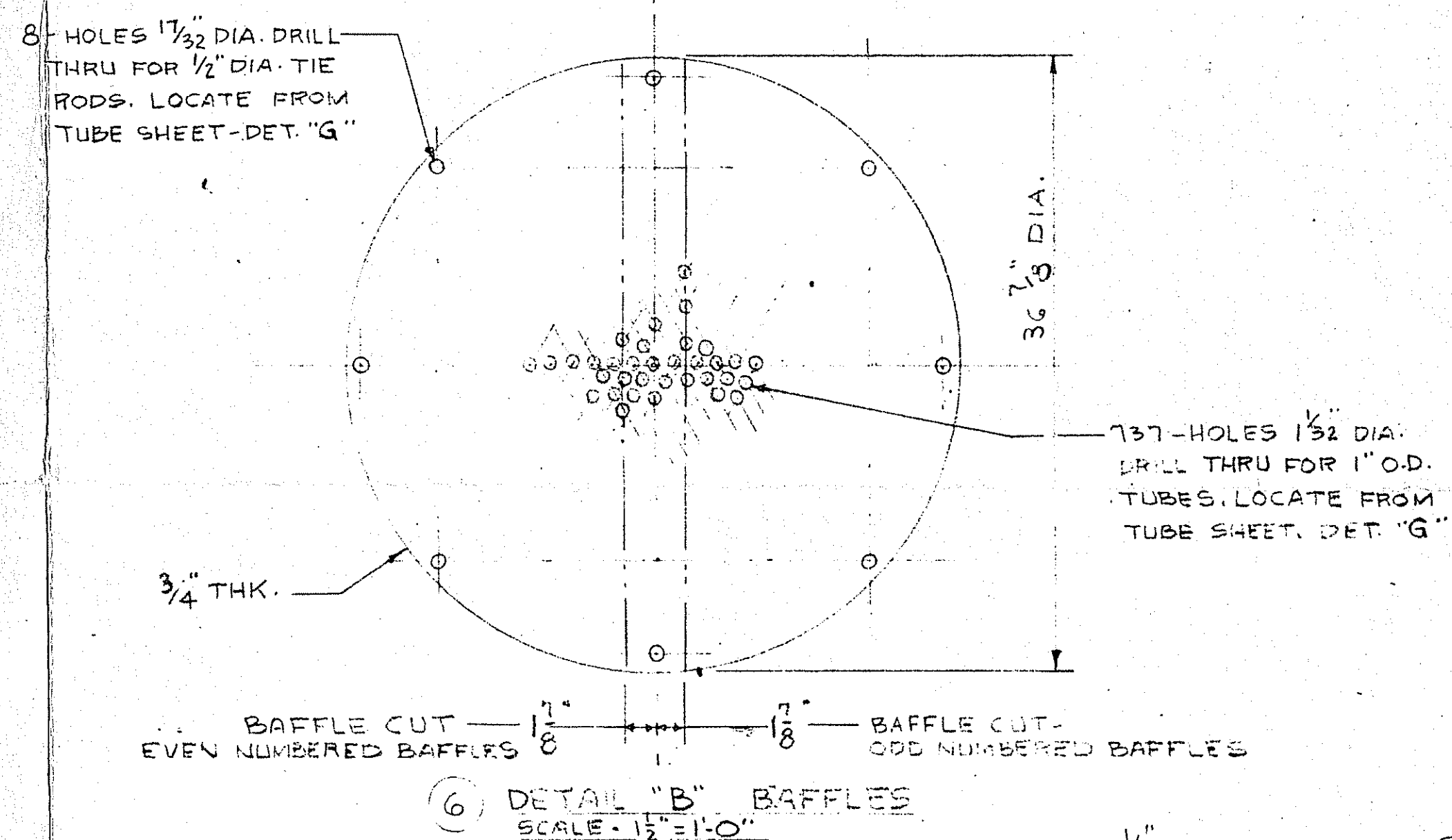
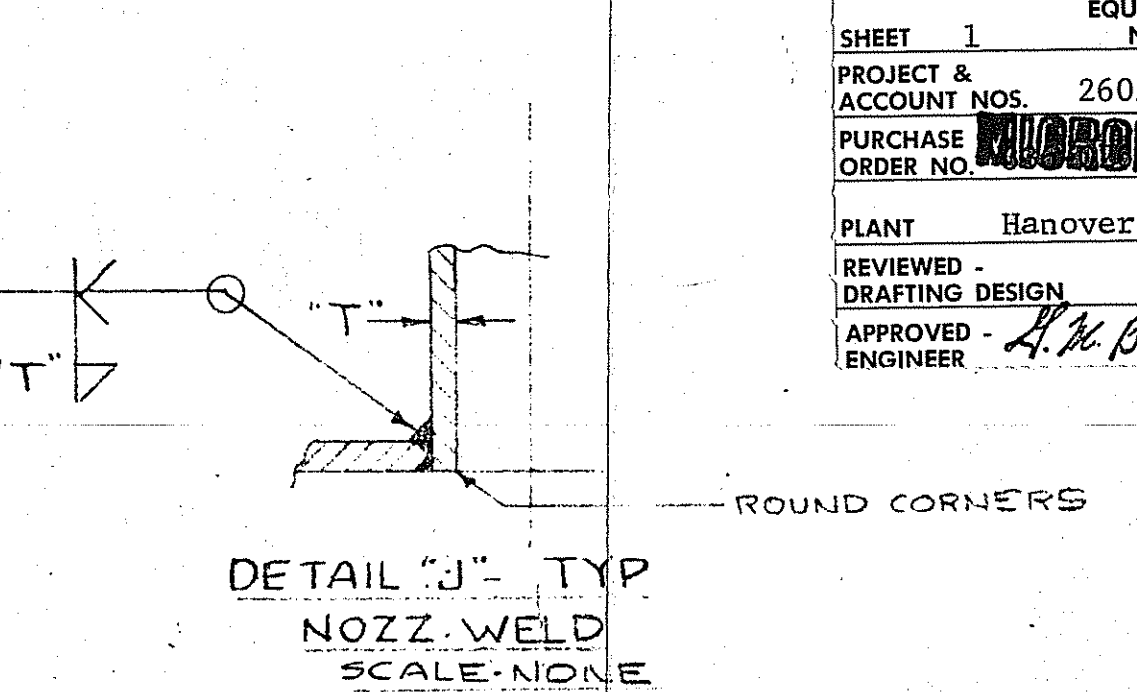
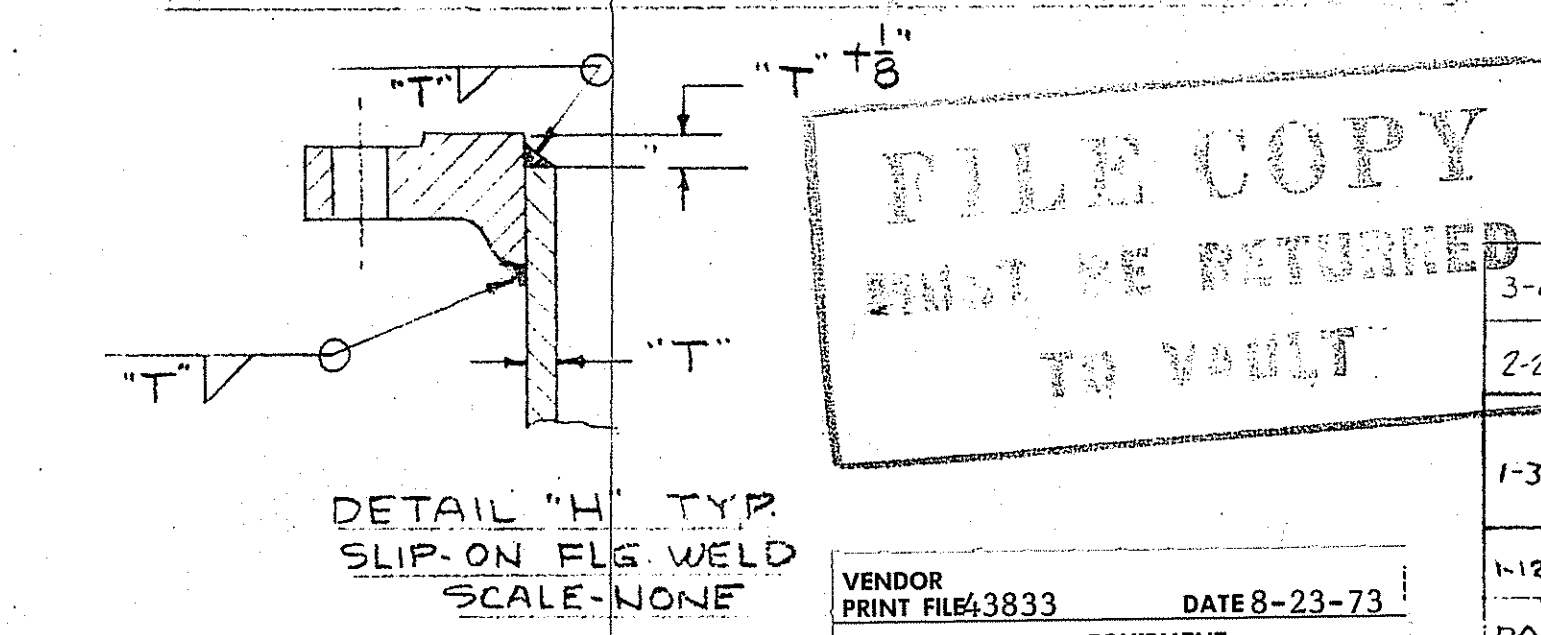
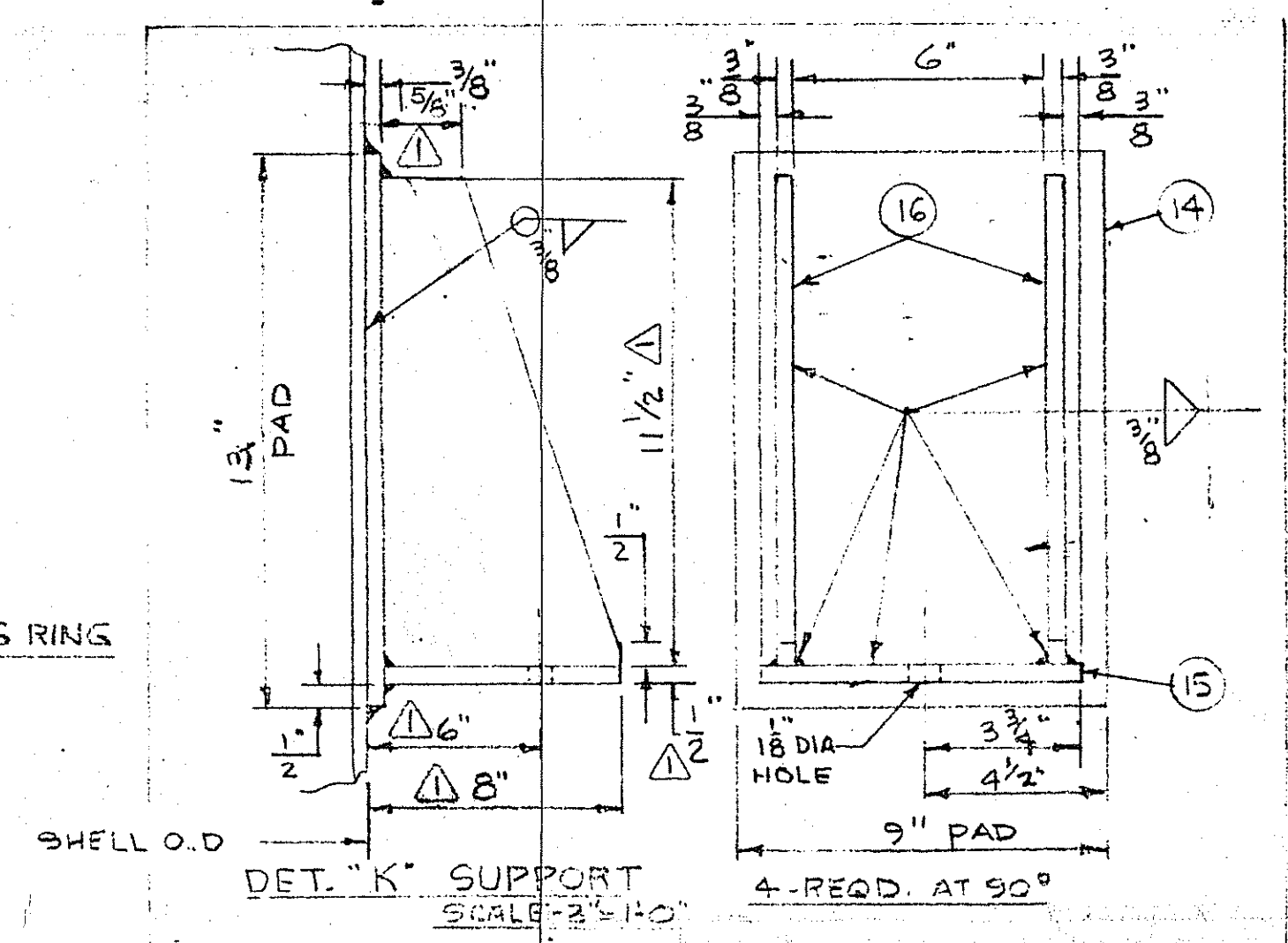
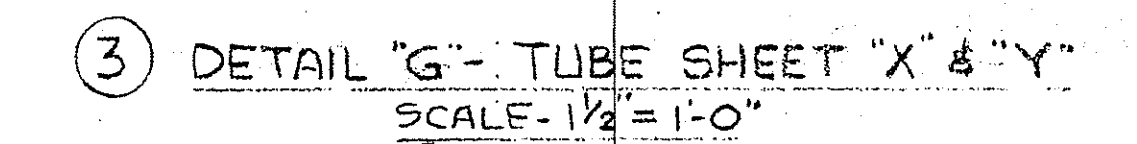
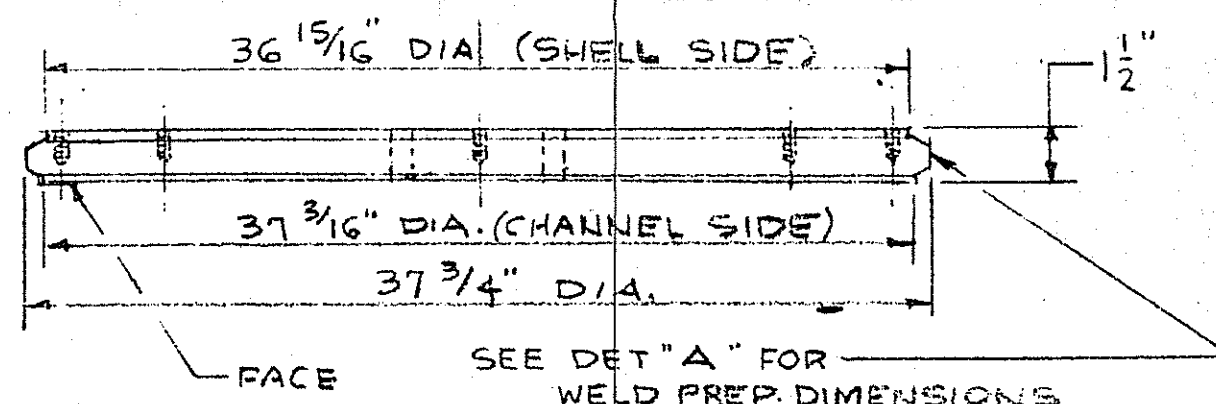
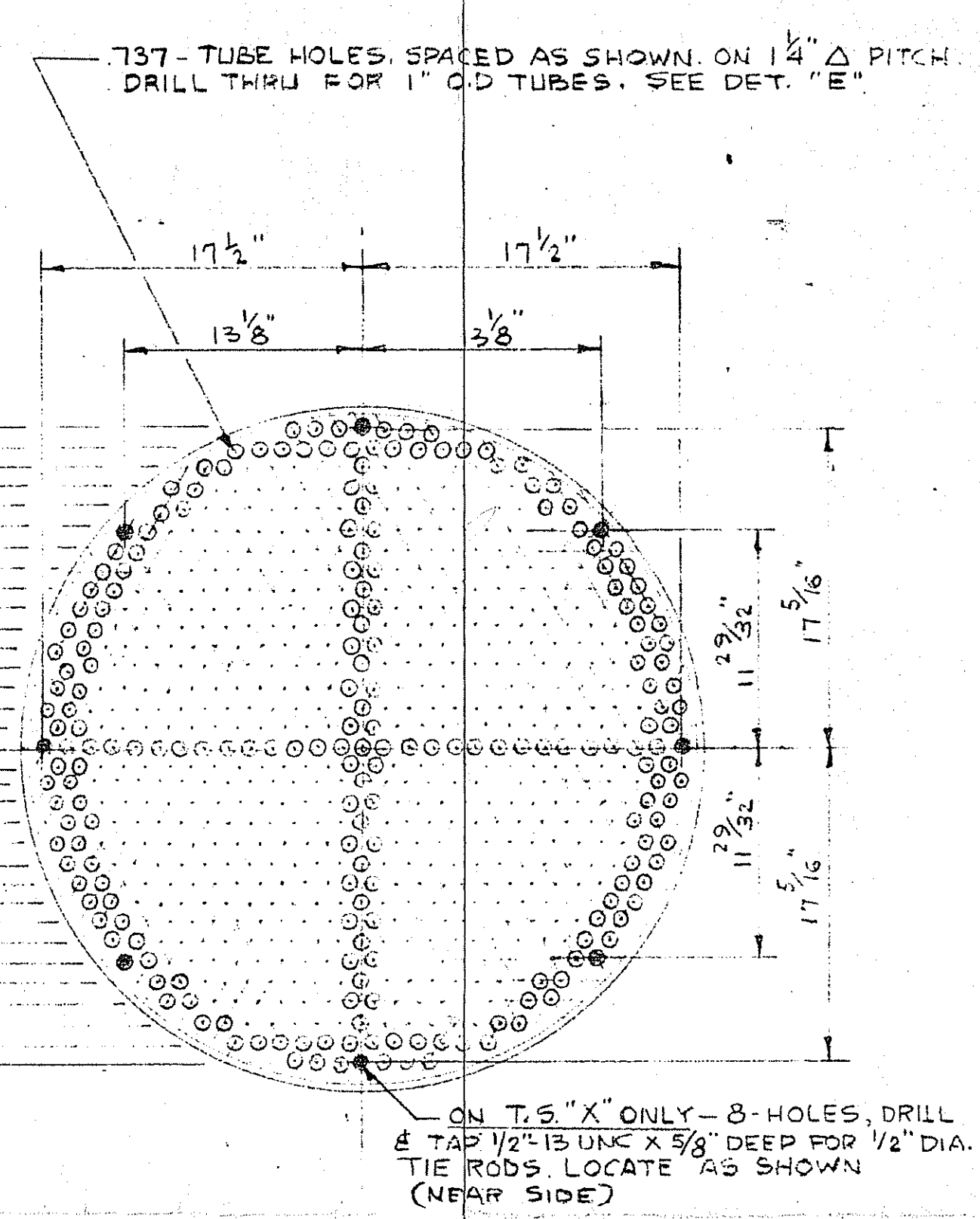
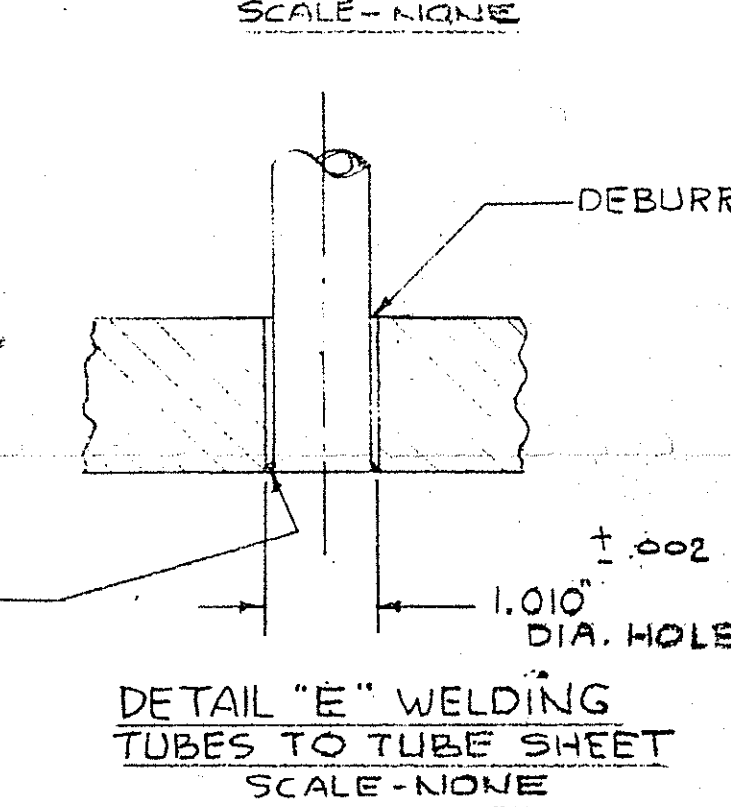
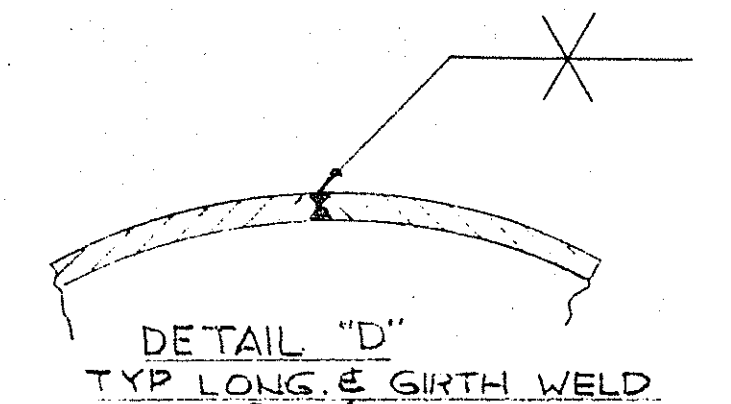
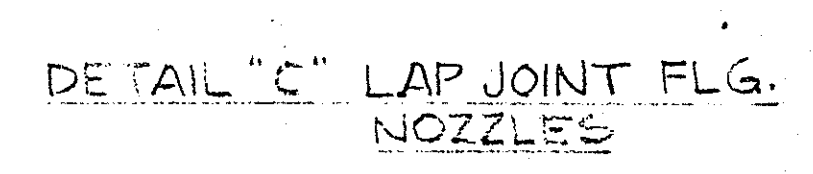




MARK	PIPE SIZE	LAP END		ITEM NOS		
		"A" DIA	"T" DIM	LAP END	PIPE	L.J. FLG
A	24"	27 1/4"	Y4"	38	36	37
B	10"	12 3/4"	3/8"	41	39	40



NOZZLE SCHEDULE						
MARK	SIZE	SCH	FLGE TYPE	RATING	PURPOSE	REMARKS
A	1 1/4"	1/4"	L.J.	150#	CHAN. OUT	SEE DET. "C"
B	1 1/4"	40S	L.J.	150#	CHAN. IN	SEE DET. "C"
C	1 1/2"	NPT	SORF	150#	SHELL IN	SEE DET. "H"
D	4"	40	SORF	150#	SHELL OUT	SEE DET. "H"
E	3/4"	NPT	MALE	3000#	SHELL	SEE DET. "L"
F	1"	NPT	MALE	3000#	SHELL	SEE DET. "L"
G	3/4"	NPT	BAR	3000#	CHAN. IN	SEE DET. "N"
H	1"	NPT	FULL CLOS.	3000#	DRAIN	SEE DET. "N"

DESIGN DATA:	"SHELL SIDE"	TUBE SIDE
DESIGN AND FABRICATION:	ASME CODE 1111 APP. SECT. VIII	ASME CODE 1111 TENA B
DESIGN PRESSURE	75 PSIG	75 PSIG
DESIGN TEMPERATURE	350° F	350° F
CORROSION ALLOWANCE	1/16"	"
WELDING	UW-47	UW-47
FLANGE FACE FINISH	SEE NOTE 1	12.5 RMS
RADIOGRAPHIC EXAMINATION	SPOT	SPOT
HEAT TREATMENT	NONE	NONE
TEST PROCEDURE	UG-99	UG-99
FINAL TEST PRESSURE	113 PSIG	116 PSIG
MATERIAL: REDUCER	SA106-GR A	
SHELL	SA1285-GR C	SA240-316L
HEADS COVERS		SA1915-GR A SA240-316L
SUPPORTS	SA1285-GR C	
NOZZLE NECKS	SA1915-GR C	SA1915-GR C
MANHOLE NECK	SA1915-GR C	SA1915-GR C
REINFORCING PADS:		
NOZZLE FLANGES	SA181-GR 1	SA181-GR 1
SHELL AND HEAD FLANGES		SA1815-GR 10
BOLTS		SA1913-B7 1
NUTS		SA1914-2H
GASKETS (SEE DET. F)		FLEXITALLIC
TUBES	SA249-316L	
TUBE SUPPORTS	SA1285-GR C	
TIE RODS & SPACERS:	SA106-GR B	SA240-316L
TUBE SHEETS		
EXPANSION JOINT	SA1285-GR C	
COUPLINGS	SA106-GR 1	
TEST PRESSURE BASED ON 1/2 X DESIGN PRESSURE X STRESS FACTOR		
WEIGHT EMPTY	16000 LBS	
WEIGHT FULL OF WATER	26000 LBS	
OPERATING WEIGHT:	SEE NOTE 1.	
PAINTING:	HERCULES DAT E/UNDERWRITER	
STAMPING:	AS.M.F. CODE STAMP	
ALL MANHOLE AND NOZZLE OPENINGS SHALL MEET THE REQUIREMENTS FOR REINFORCEMENT OF OPENINGS PER THE ASME CODE FOR UNFIRE PRESSURE VESSELS.		
MANHOLES AND NOZZLES SHALL BE IN ACCORDANCE WITH THE FOLLOWING:		
MANHOLES	NOZZLES	SEE NOZ. SCH.
OTHERWISE NOTE:		
ALL BOTTOM NOZZLES SHALL BE FLUSH WITH INSIDE OF VESSEL. OTHER NOZZLES SHALL BE FLUSH		
BOLT NUTS SHALL STRADDLE THE NORMAL VESSEL CENTER LINES.		

1.- PAINTING - SHOP COAT RED LEAD
EXTERIOR CARBON STEEL PARTS
ONLY.

2.- STOCK MODIFIED, SPIRAL SERRATED.

8

100% COPY

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104296

3-28-73	IN PLAIN VIEW ADDED ORIENTATION OF SHIPPT' LUGS IN ELEV. DIA 14" WAS 4 1/2% REV WELDS IN DET'N	JK
2-27-73	SUPPORTS RELOCATED AT 3'-11" FROM TOP T.S., PER HERCULES.	TWH
1-31-73	ADDED ORIENTATION, NOZZ D' WAS 3" DETAIL K' ADDED SEAL WELD: DETAIL K' A' WAS 4, 6 WAS 1/2, 8 WAS 1/2, 1/2 WAS 5/8, 1 1/2 WAS 1 1/8	JM
1-2-73	ISSUED FOR APPROVAL	RO
DATES	REVISIONS	BY

DATE	REVISION	BY
 JOSEPH OAT & SONS, INCORPORATED CHEMICAL ENGINEERS/DESIGNERS/FABRICATORS		
ESTABLISHED 1796 CAMDEN, NEW JERSEY 08104		
WASTE WATER STILL REBOILER 37" I.D. X 21'-2" O.A.L. ONE PASS CARB. STEEL 316L EQUIP. NO. E-640-2 ASSEMBLY & DETAILS		
(FOR) HERCULES INCORPORATED WILMINGTON, N.C. PLANT		

PURCHASE ORDER NO. 026-57252		NO. REQ'D ONE	
JOB NO. J-21581	DRAWN: RD DATE: 1-12-73 SCALE AS NOTED	DRAWING NO. 5335	REV. 3