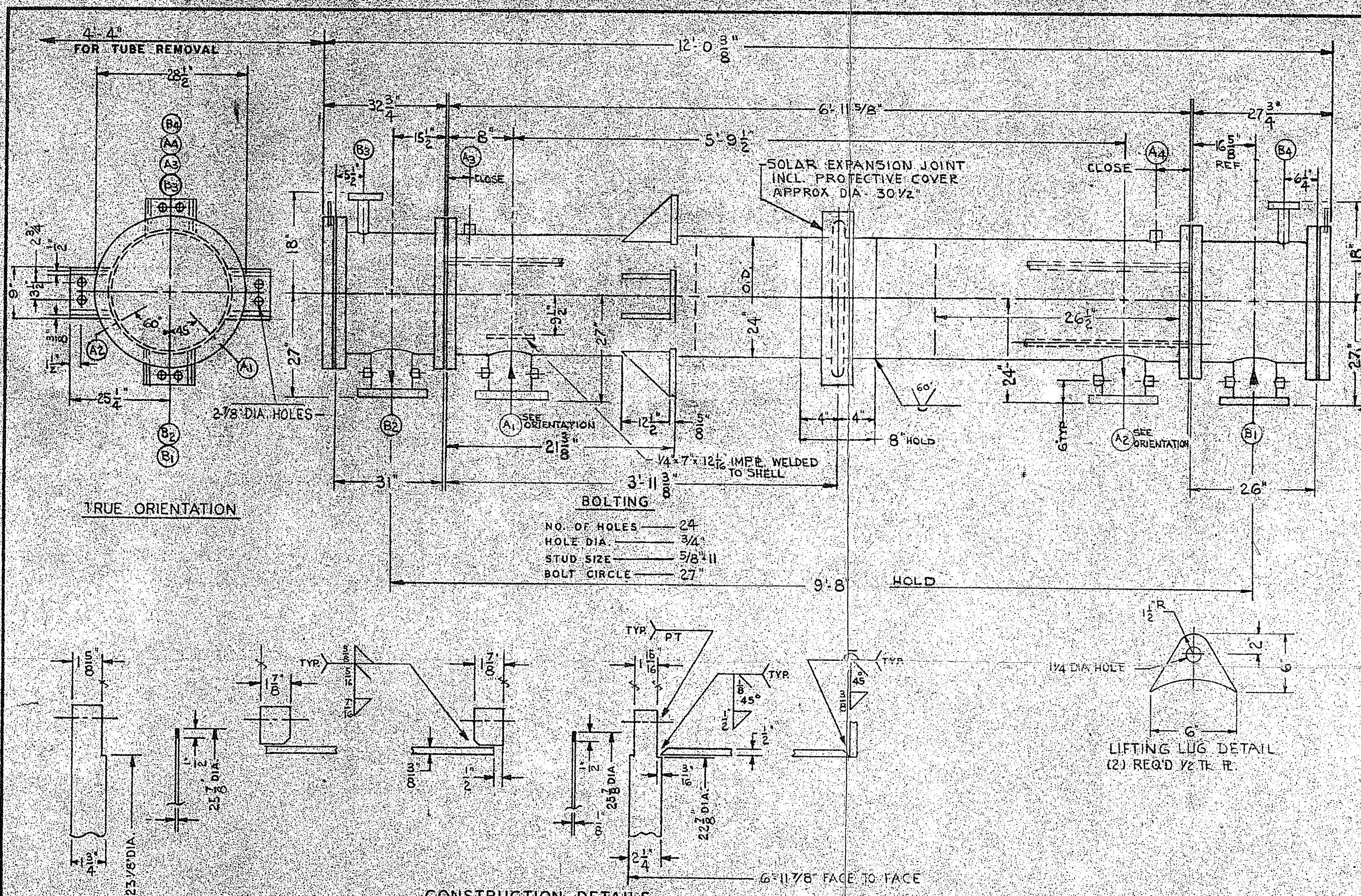


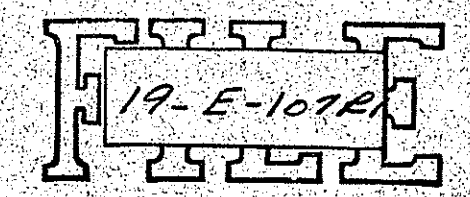


CONSTRUCTION TO COMPLY WITH ASME CODE SECT. VIII 1968 ED. INCLUDING CERT. AND STAMP (FORM U-1)

TEMA CL.C		
FOR INSTALLATION IN STATE OF ILL		
SHELL SIDE	CONDITIONS	TUBE SIDE
300	DES. PRESS. (R.S.I.G.)	EV: 75
450	DES. TEMP. (°F)	450
450	TEST PRESS. (R.S.I.G.)	113
	DESIGN FLUID	
STEAM		PHENOL
3/32	CORR. ALLOW. EXC. TUBES	3/32
WEIGHT (LBS.)	EMPTY: 5470	FLOODED: 7450

GENERAL NOTES		REQ'D.	NOT REQ'D.
1	DEHYDRATE		
2	HALOGEN TEST AT P.S.I.G. SA-7540		
3	AIR AND SOAP TEST REINF. PADS AT P.S.I.G. FACINGS		
4	X-RAY SPOT ☒ FULL ☐		
5	POST WELD HEAT TREAT		
6	SANDBLAST C.S. AFTER FAB. PER SSPC	EXT. INT.	
7	PICKLE		
8	PAINT EXTERIOR C.S. ONE SHOP COAT GRAY		

		REQ.
9	TUBE END WELDING SA-8571	MANUAL AUTOMATIC
10	TUBE HOLE GROOVING	SA-8480
11	CUSTOMER'S NAME PLATE	
12	NOZZLE PROTECTION	M & L STD. SPECIAL
13	SPARE PARTS	
14	IMPACT TEST WELD ☐ BASE ☐ HEAT AFFECTED ZONE ☐ METAL ☐ METAL	SHELL CHAN.
15	CONNS. A1, A2, B1, B2 TO HAVE (2) 3/4" 3000 * H.C. AS SHOWN. PLUGGED.	



CONSTRUCTION DETAILS

PART	CARBON STEEL					STAINLESS					PART	C S					SS					MATERIAL NOTES	NOZZLE				SCHEDULE								
	SA 53 B	SA 106 B	SA 285 C	SA 212 B	SA 161 I	SA 105 H	SA 312	SA 240	SA 182	ELC		SA 285 C	SA 312 B	SA 161 I	SA 105 H	SA 312	SA 240	SA 182	ELC	SA 53 GR. B	SA 312 GR. B		SA 161 GR. B	SA 105 GR. B	SA 312 GR. B	SA 240 GR. B	SA 182 GR. B	ELC	SA 53 GR. B	SA 312 GR. B	SA 161 GR. B	SA 105 GR. B	SA 312 GR. B	SA 240 GR. B	SA 182 GR. B
BARREL	X																																		
UNIT FLANGE																																			
FORMED HEAD																																			
NOZZLE NECK	X																																		
NOZZLE FLG.																																			
EXP. JOINT																																			
CONE																																			
REINF. PAD																																			
SCR. FTGS.																																			
WELD FTGS.																																			
BARREL	X																																		
UNIT FLANGE																																			
FORMED HEAD																																			
NOZZLE NECK	X																																		
NOZZLE FLG.																																			
COVER																																			
REINF. PAD																																			
SCR. FTGS.																																			
WELD FTGS.																																			
TUBE SHT.																																			
TUBES																																			
AVG.																																			
MIN.																																			
STUDS																																			
NUTS																																			
GASKETS																																			
COMP. ASBESTOS																																			
GARLOCK 7021																																			
DBL. JKT. ASB.																																			
SPIRAL WOUND																																			
PACKING																																			
MISCELLANEOUS																																			
BAFFLES																																			
TIE RODS, SPACERS																																			
IMPINGEMENT BAF.																																			
PASS PARTITIONS																																			
UNIT SUPPORTS																																			
SUPPORT PAD																																			
BACK-UP STRIP																																			
SEALING STRIPS																																			
SA 53 GR. B																																			
SA 312 GR. B																																			
SA 161 GR. B																																			
SA 105 GR. B																																			
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SA 182 GR. B																																			
ELC																																			
SA 53 GR. B																																			
SA 312 GR. B																																			
SA 161 GR. B																																			

CUSTOMER: CLARK OIL & REFINING CORP.
 P.O. NO.: COC 29579.01-525-1
 ENGINEERS: UNITED ENGINEERS & CONSTRUCTORS INC.
 NO. OF UNITS REQUIRED: ONE
 M & L SERIAL NO.: 5491
 NAT'L BD. NO.: 2927
 TAG: ITEM N° E107R1

STENCIL TAG N° ON SHELL 3" HIGH	106760
INSPECTION BY CUSTOMER	REQ'D NOT REQ'D
M & L JOB NO. 17357-2	
MANNING & LEWIS ENGINEERING CO. UNION, N. J.	
24-84 THERMOSYPHON REBOILER	
SCALE	MADE CKD. DATE. DRAWING NO. REV.
HWS	12-65 C 11847 3