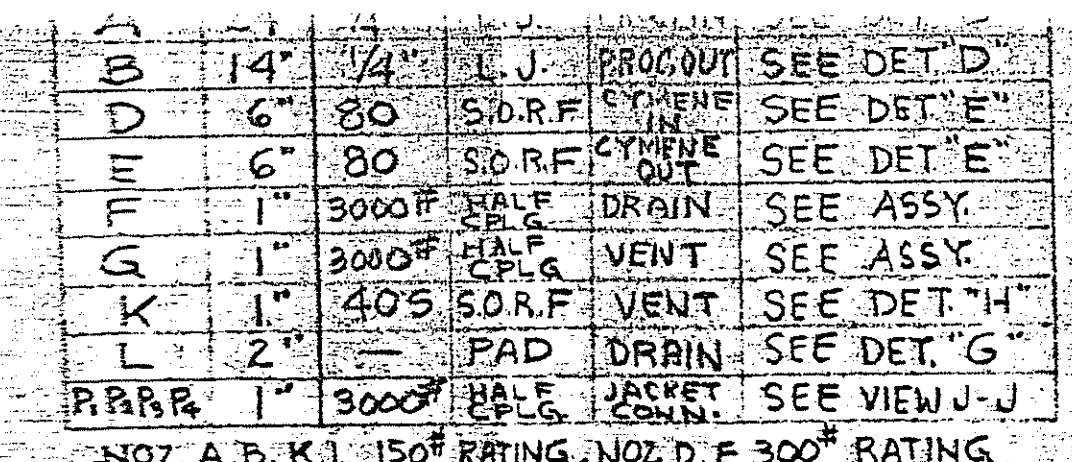




CORROSION ALLOWANCE	1/16"	NONE
WELDING	UIJ-47	UIJ-47
FLANGE FACE FINISH	175	175
RADIOGRAPHIC EXAMINATION	SPOT	SPOT
HEAT TREATMENT	NONE	NONE
TEST PROCEDURE	UG-58	UG-58
FINAL TEST PRESSURE	150 PSIG	
MATERIAL		
SHELL	SA-181-GR 1	SA-181-GR 1
HEADS & NOZZLE COVERS	SA-181-GR 1	SA-181-GR 1
SUPPORTS	CARBON STL	
NOZZLE NECKS	SA-181-GR 1	SA-181-GR 1
MANHOLE NECK		
REINFORCING PADS		
NOZZLE FLANGES	SA-181-GR 1	SA-181-GR 1
SHELL AND HEAD FLANGES		
BOLTS		
NUTS		
GASKETS	ASME 4-216 CS	ASME 4-216 CS
TUBES	SA-213 TP316	
EXPANSION JOINT	ASIS-GR 10	
TUBE SHEETS		SA-240 TP316
BAFFLES	CARBON STL	
THE TUBES & SPACERS	CARBON STL	
HALF COUPLINGS	SA-105 GR 11	
TEST PRESSURE BASED ON 1.5 X DESIGN PRESSURE		
WEIGHT EMPTY	9800 LBS.	
WEIGHT FULL OF WATER	14800 LBS.	
OPERATING WEIGHT		
PAINTING	ONE COAT RED LEAD PRIMER & OAT	
INSPECTION	UNDERWRITERS' HERCULES & OAT	
STAMPING	ASME CODE STAMP REQD.	
ALL MANHOLES AND NOZZLE OPENINGS SHALL MEET THE REQUIREMENTS FOR REINFORCEMENT OF OPENINGS PER THE ASME CODE FOR UNFIRED PRESSURE VESSELS.		
MANHOLES AND NOZZLES SHALL BE IN ACCORDANCE WITH THE FOLLOWING:		
MANHOLES		NOZZLES
UNLESS OTHERWISE NOTED:		
ALL BOTTOM NOZZLES SHALL BE FLUSH WITH INSIDE OF VESSEL. OTHER NOZZLES SHALL		
BOLT HOLES SHALL STRADDLE THE NORMAL VESSEL CENTER LINES.		

B.P.F. NO. **41615** DATE **1/16/70**

SHEET **1** APPARATUS **E-400-5A**
NO. **E-2400-5A**

PROJECT & ACCOUNT **26019 2003 2016**

ORDER NO. **336-026-19355**

PLANT **MANOVER**

APPROVED *[Signature]* 1/30/70

DIMS. REVISED - 4'-11 1/8" WAS 4'-11 1/2" 83 WASH/

APPROV. DIMS. - 6'-7 7/8" 3/4" 2 1/8" (REV)

REVISED GASKET SIZE & MATERIAL - *Jrc*

ISSUED FOR FABRICATION:

REVISIONS	BY

JOSEPH OAT & SONS, INCORPORATED
 CHEMICAL ENGINEERS / DESIGNERS / FABRICATORS
 236 QUARRY STREET
 PHILADELPHIA, PENNSYLVANIA 19106

ESTER STILL REBOILER

36 O.D. X 13' 9 1/2" O.A.L. 1-PASS

CARBON STL. & TP316 CONST

E-400-5A ASSEMBLY & FABRICATION

FOR

HERCULES, INCORPORATED
 MANOVER PLANT
 WILMINGTON, NO. CAROLINA

CHASE ORDER NO. **336-026-19355-08**

NO. REQ'D. **2**

DRAWN: **RO**

DRAWING NO. **5000**

DATE: **2-15-70**