

80	100	7	990
REV. NO.	SHT. NO.	INDEX	PLANT NO.
	DRAWING NUMBER		

NOTES:

- DIMENSIONAL TOLERANCES NOT SHOWN, MARKING, FINISHES AND SPOT FACING SHALL CONFORM TO ASME B16.5 LATEST EDITION, EXCEPT TOLERANCE ON MAX. BORE ± 0.3 (1/8 ") TOLERANCE ON FLANGE OUTSIDE DIAMETER ± 3.2 (1/8 ")
- DRILLING TEMPLATE IS TAKEN FROM MSS-SP-44. GROOVE AND RING DIMENSIONS ARE CHOSEN ARBITRARILY.
- HUB TO BE SINGLE TAPER TYPE. BORE (EQUAL TO MATCHING PIPE I.D.) TO BE SPECIFIED IN PURCHASE ORDER.
- MATERIALS:**
WELD NECK FLANGES SHALL BE IN ACCORDANCE WITH 02-SAMSS-011 AND THE PURCHASE ORDER. BLIND FLANGES SHALL BE 52 KSI SMYS, ASTM A694 F52 FORGINGS, OR PLATE IN ACCORDANCE WITH ASTM A737 GR C. OR EQUAL. BLIND FLANGES THAT ARE QUENCHED SHALL BE TEMPERED AT 600°C MINIMUM.
- GROOVE RADIUS "r" IS 1.5 (1/16 ")
- HEIGHT OF RAISED PORTION "R" IS EQUAL TO DEPTH OF GROOVE "K" BUT IS NOT SUBJECT TO TOLERANCE GIVEN FOR "K".
- STUD BOLT LENGTHS FOR USE WITH LAP JOINT FLANGES ARE SHOWN ON DWG. AE-036438.
- MARK BLIND FLANGES PER MSS SP-25, AND WITH THIS DRAWING NUMBER.

DWG. RESPONSIBILITY:
PIPING STANDARDS COMMITTEE

08	12-1999	EDSD WED		REVISED NOTE 1			
07	07-24-96	WAS		REVISED NOTES 4 AND 8	ORIGINAL SIGNED	ORIGINAL SIGNED	ORIGINAL SIGNED
06	03-20-94	ESSD CAC		REVISED NOTES 4 AND 8.	ORIGINAL SIGNED	ORIGINAL SIGNED	ORIGINAL SIGNED
05	04-21-90	RLO		REVISED NOTES AND ADDED NOTE 8	ORIGINAL SIGNED	ORIGINAL SIGNED	ORIGINAL SIGNED
REV. NO.	DATE	BY	JO/EWO	DESCRIPTION	CHKD.	CERT.	APPD.

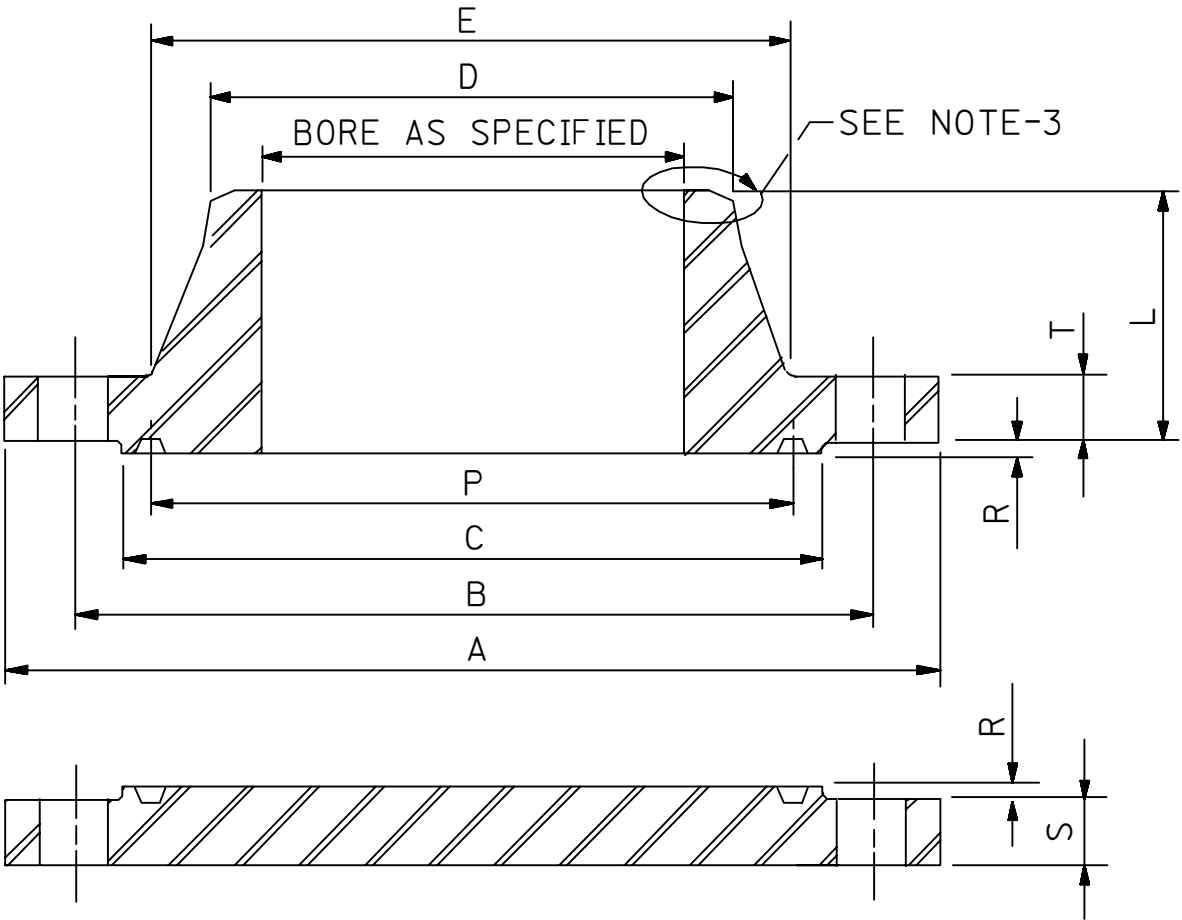
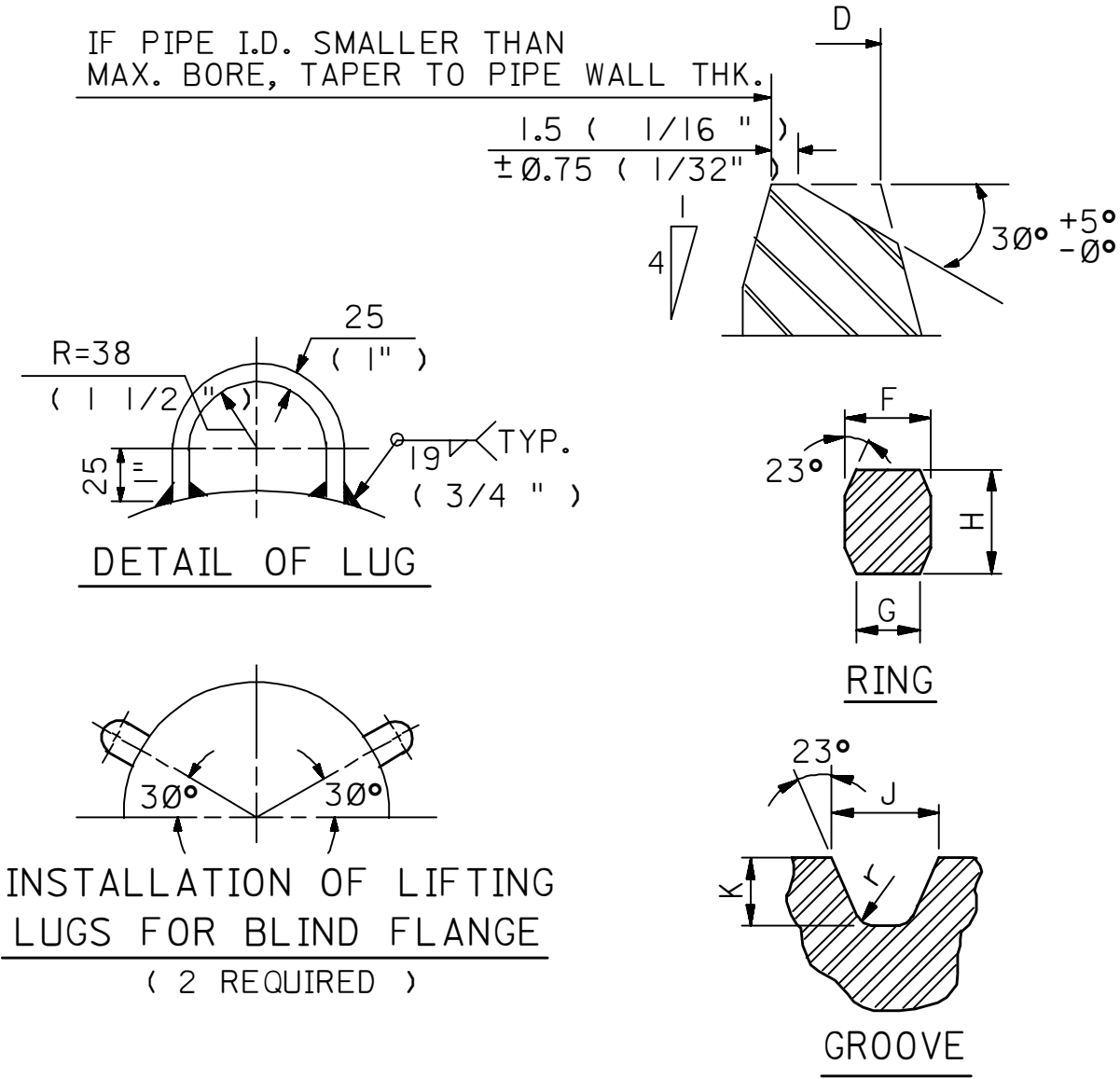
SAUDI ARABIAN OIL COMPANY

DRAWN BY _____	CHECKED BY _____	SCALE _____	NONE
DATE STARTED _____	DATE COMPLETED _____	05-16-74	
OPR'G. DEPT. _____	ENG. DEPT. _____	ORIGINAL SIGNED	
APP'D FOR CONSTR. _____		05-16-74	

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR FOR ORDERING MATERIAL UNTIL CERTIFIED AND DATED	CERTIFIED ORIGINAL SIGNED BY _____ DATE 05-16-74
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W.N. FLANGES AND BLIND FLANGES
LARGE SIZE
CLASS 300 RING JOINT
STD. DWG.

PLANT NO.	INDEX	DRAWING NUMBER	SHT. NO.	REV. NO.
990	L	AC-036437	001	08



BOLT HOLE DIA. = BOLT DIA. + 3 (1/8 ")

NOM. PIPE SIZE IN.	A		B		C		D		E		F		G		H		J		K		L		P		S		T		MAX. BORE		NO. OF BOLT HOLES	STUD BOLT SIZE				APPROX. MASS W. N. FLANGE		APPROX. MASS BL. FLANGE	
	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.		mm.	in.	mm.	in.	KG.	LB.	KG.	LB.
54	1660	65 1/4	4550	61	1465	57 3/4	4384	54 1/2	2410	55 1/2	219	3/4	12.3	.485	24	15/16	20	25/32	13	1/2	265	10 7/16	6422	56	155	6	155	6	1330	52.38	28	57	2 1/4	4545	21 1/2	2060	2340	2735	6025
60	1800	71 1/4	4700	67	1625	64	1537	60 1/2	2565	61 5/8	19	3/4	12.3	.485	24	15/16	20	25/32	13	1/2	280	11	1580	62 1/4	165	6 7/8	165	6 7/8	1473	58.00	32	57	2 1/4	4570	22 1/2	2300	2870	3490	7690