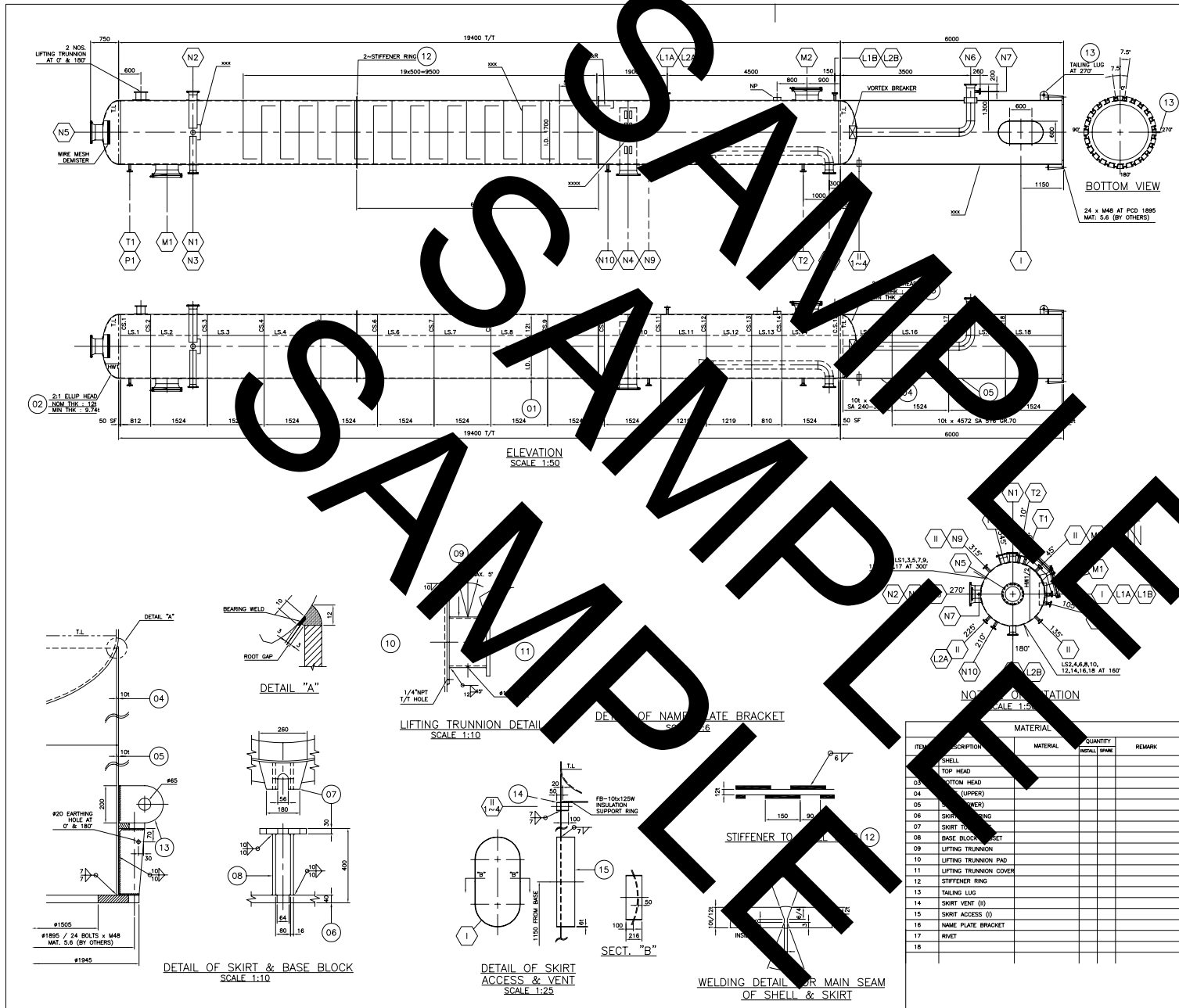


PROCESS CONDENSATE STRIPPER (OIL & GAS INDUSTRIES)

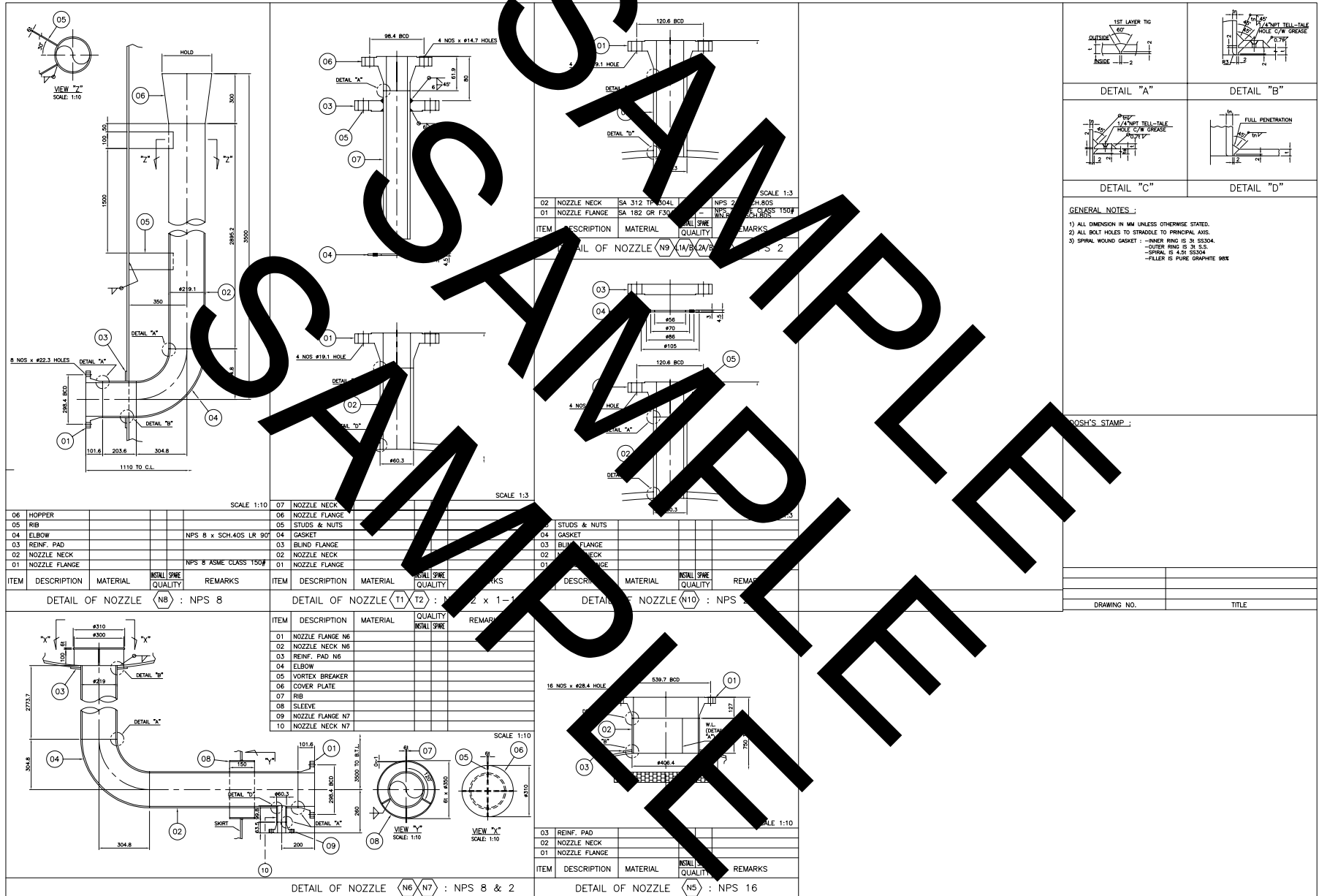


GENERAL NOTES :

DOSH'S STAMP :

DRAWING NO.		TITLE	
REFERENCE DRAWINGS			
RADIOGRAPHIC EXAMINATION		TYPE	EMPTY WEIGHT
CORROSION ALLOWANCE		DESIGN WEIGHT	F.W./A.T. WEIGHT
DESIGN STRESS	SHELL		
	HEAD		
JOINT EFFICIENCY	SHELL		FIRE PROOFING
	HEAD		THERMAL INSULATION
TEST PRESSURE	HEAD		PAINTING (FOR C.S)
	HYDROSTATIC		
	PNEUMATIC		WIND SPEED
DESIGN	PRESSURE	0.65 MPA G / F.V.	MOWT
	TEMPERATURE	180 °C	CAPACITY
OPERATING	PRESSURE		SEISMIC FACTOR
	TEMPERATURE		FLUID NAME
DESIGN CODE	ASME SECTION VIII, DIV. 1, ED. 2004 - U5 ADD. U-STAMP		SURFACE TREATMENT
	SHELL SIDE		STRESS RELIEVE
			SHELL SIDE
DESIGN DATA			
ITEM NO		DESCRIPTION	C/W UNIT &
01			
02			
03			
04			
05			
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
NOZZLE SCHEDULE			
MARK	SIZE	INCH / NO. (RED)	FLG. RATING
			FLG. TYPE
			SERIES
			PROL. FROM FACE TO CL
			REMARK

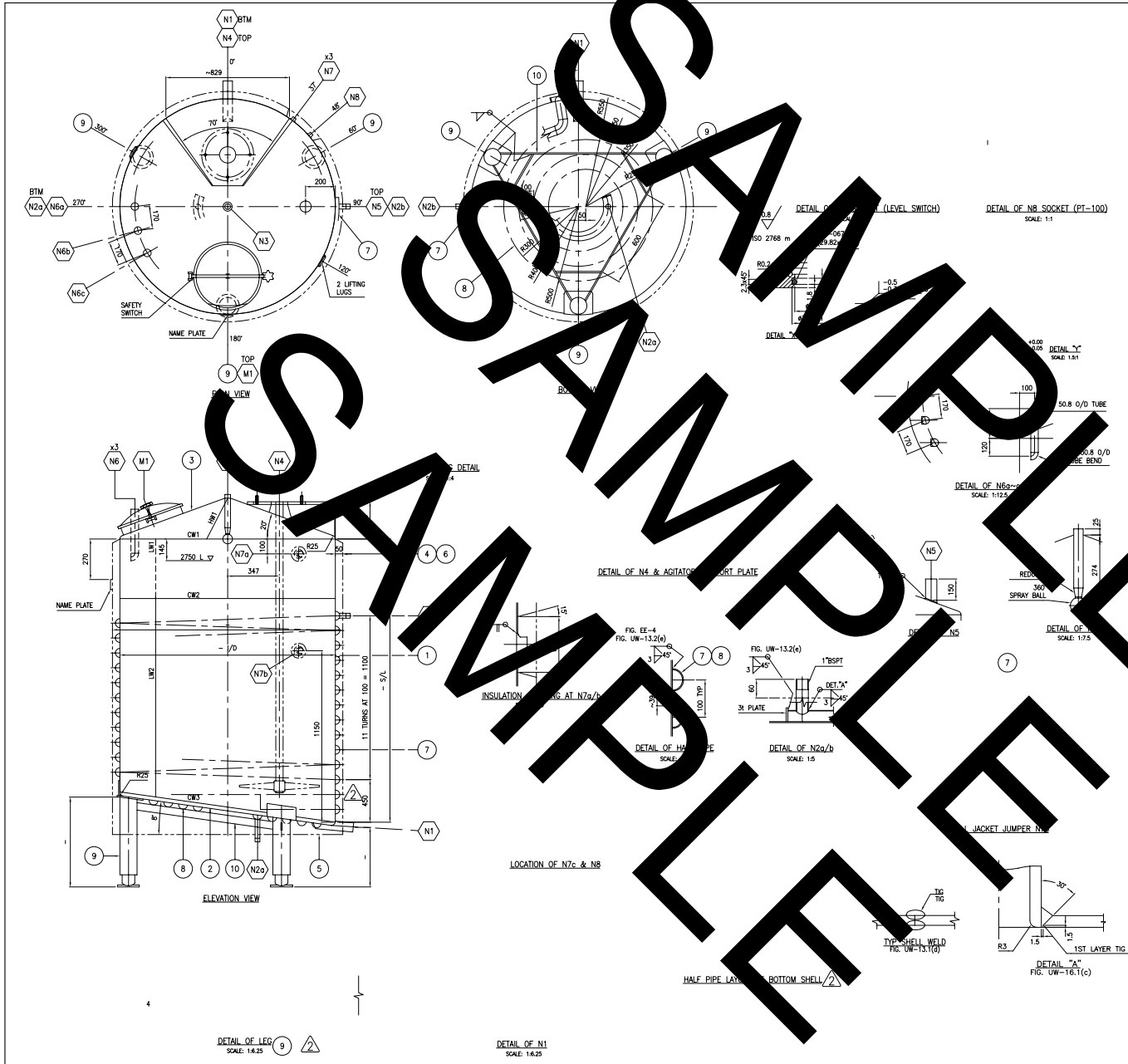
NOZZLE DETAIL FOR PROCESS CONDENSATE STRIPPER (OIL & GAS INDUSTRIES)



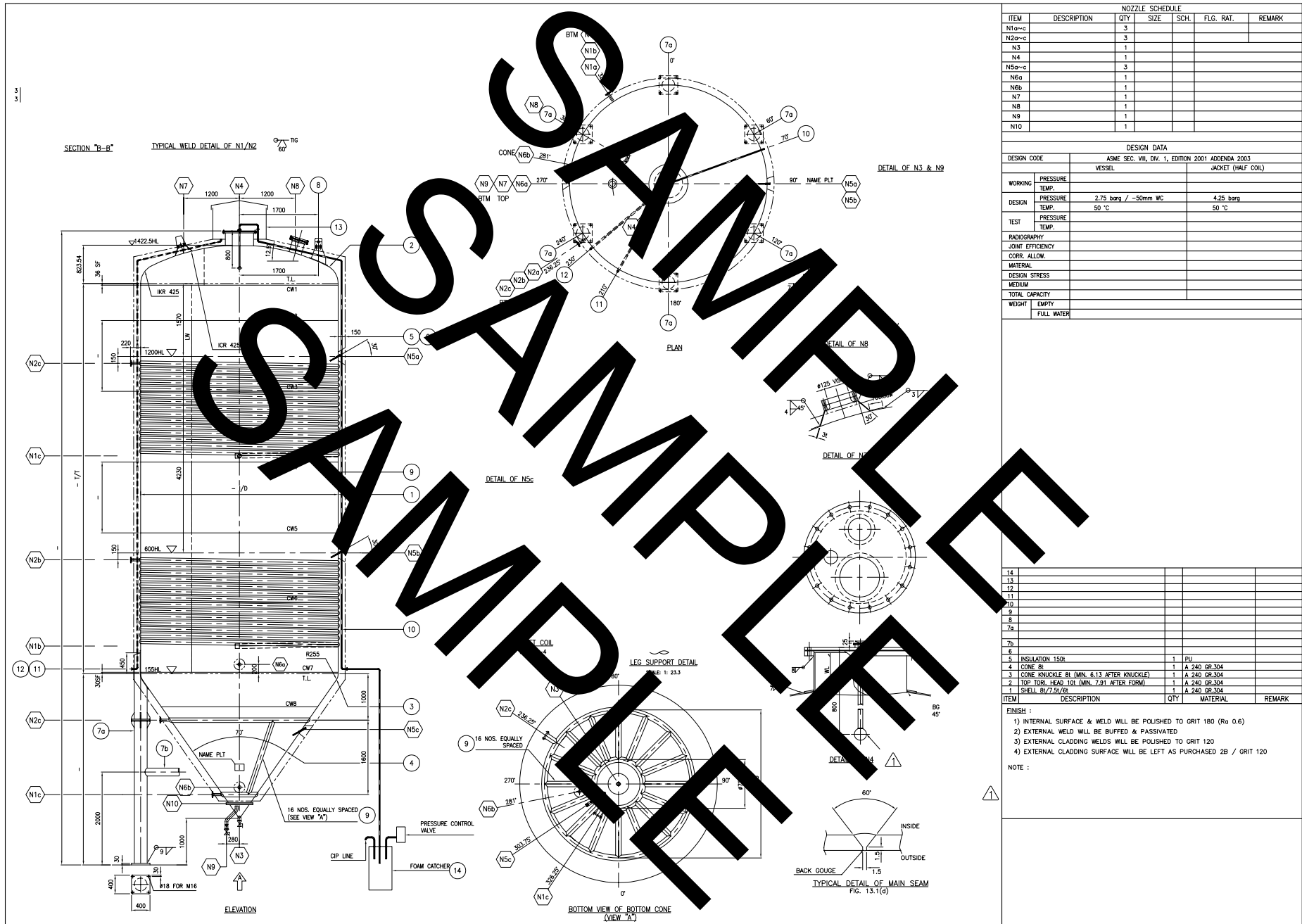
- GENERAL NOTES :**
- 1) ALL DIMENSION IN MM UNLESS OTHERWISE STATED.
 - 2) ALL BOLT HOLES TO STRADDLE TO PRINCIPAL AXIS.
 - 3) SPIRAL WOUND GASKET : -INNER RING IS 316 SS304
-OUTER RING IS 316 S.S.
-SPRINT IS 4:51 SS304
-FILLER IS PURE GRAPHITE 90%

PROSH'S STAMP :

2750L EMULSION TANK (FOOD INDUSTRIES)



1200/1500HL FERMENTING TANK (BREWERY INDUSTRIES)



NOZZLE SCHEDULE						
ITEM	DESCRIPTION	QTY	SIZE	SCH.	FLG. RAT.	REMARK
N1a-c		3				
N2a-c		3				
N3		1				
N4		1				
N5a-c		3				
N6a		1				
N6b		1				
N7		1				
N8		1				
N9		1				
N10		1				

DESIGN DATA		
DESIGN CODE	ASME SEC. VIII, DIV. 1, EDITION 2001 ADDENDA 2003	
	VESSEL	JACKET (HALF COIL)
WORKING	PRESSURE	
	TEMP.	
DESIGN	PRESSURE	2.75 barg / -50mm WC
	TEMP.	50 °C
TEST	PRESSURE	4.25 barg
	TEMP.	50 °C
RADIOGRAPHY		
JOINT EFFICIENCY		
CORR. ALLOW.		
MATERIAL		
DESIGN STRESS		
MEDIUM		
TOTAL CAPACITY		
WEIGHT	EMPTY	
	FULL WATER	

ITEM	DESCRIPTION	QTY	MATERIAL	REMARK
14				
13				
12				
11				
10				
9				
8				
7				
6				
5	INSULATION 150i	1	FU	
4	CONE BR	1	A 240 GR 304	
3	CONE KNUCKLE BR (MIN. 6.13 AFTER KNUCKLE)	1	A 240 GR 304	
2	TOP TORL HEAD 10i (MIN. 7.91 AFTER FORM)	1	A 240 GR 304	
1	SHELL BR/7.5i/6i	1	A 240 GR 304	

ITEM	DESCRIPTION	QTY	MATERIAL	REMARK
14				
13				
12				
11				
10				
9				
8				
7				
6				
5	INSULATION 150i	1	FU	
4	CONE BR	1	A 240 GR 304	
3	CONE KNUCKLE BR (MIN. 6.13 AFTER KNUCKLE)	1	A 240 GR 304	
2	TOP TORL HEAD 10i (MIN. 7.91 AFTER FORM)	1	A 240 GR 304	
1	SHELL BR/7.5i/6i	1	A 240 GR 304	

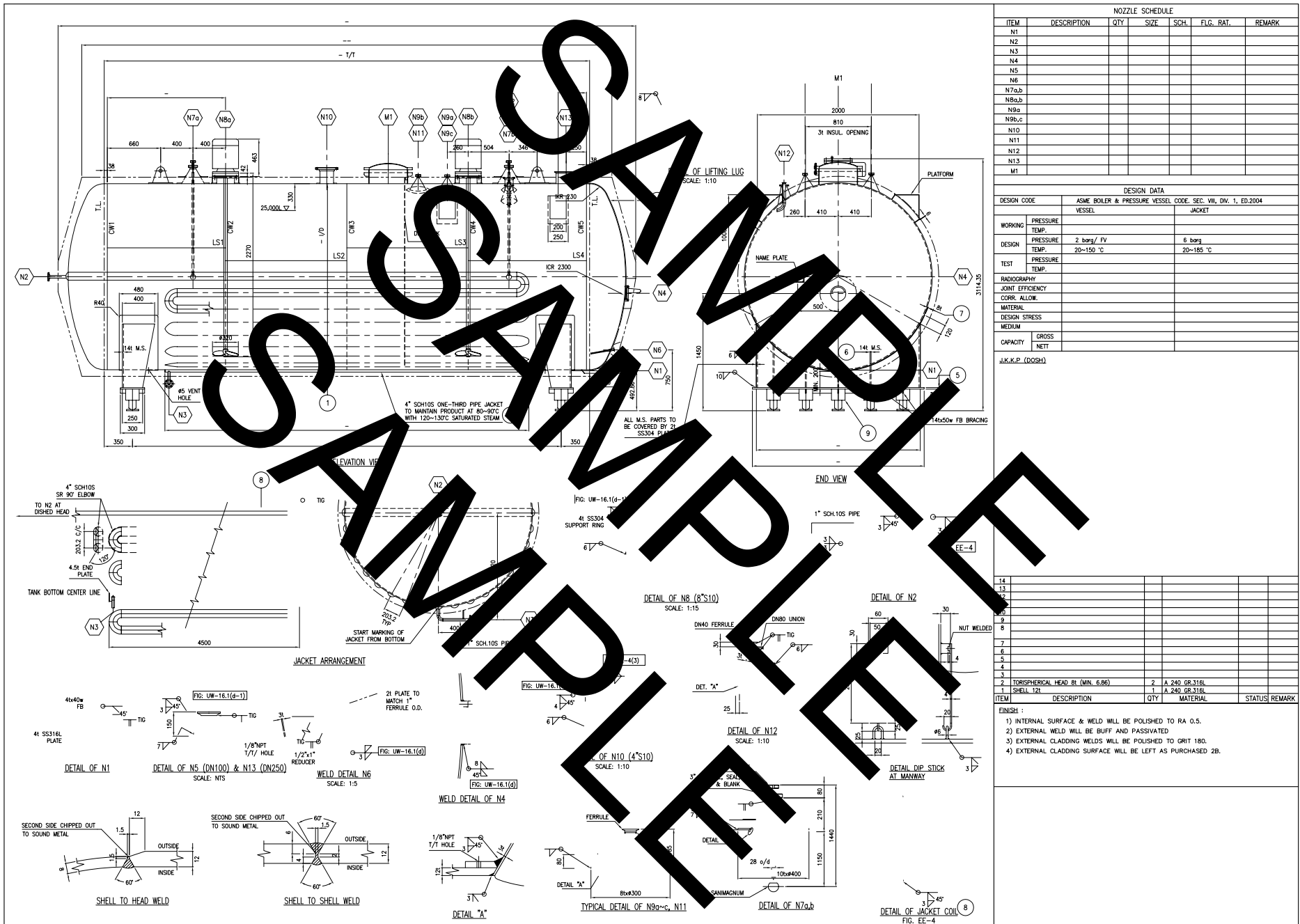
FINISH:

- INTERNAL SURFACE & WELD WILL BE POLISHED TO GRIT 180 (Ra 0.6)
- EXTERNAL WELD WILL BE BUFFED & PASSIVATED
- EXTERNAL CLADDING WELDS WILL BE POLISHED TO GRIT 120
- EXTERNAL CLADDING SURFACE WILL BE LEFT AS PURCHASED 2B / GRIT 120

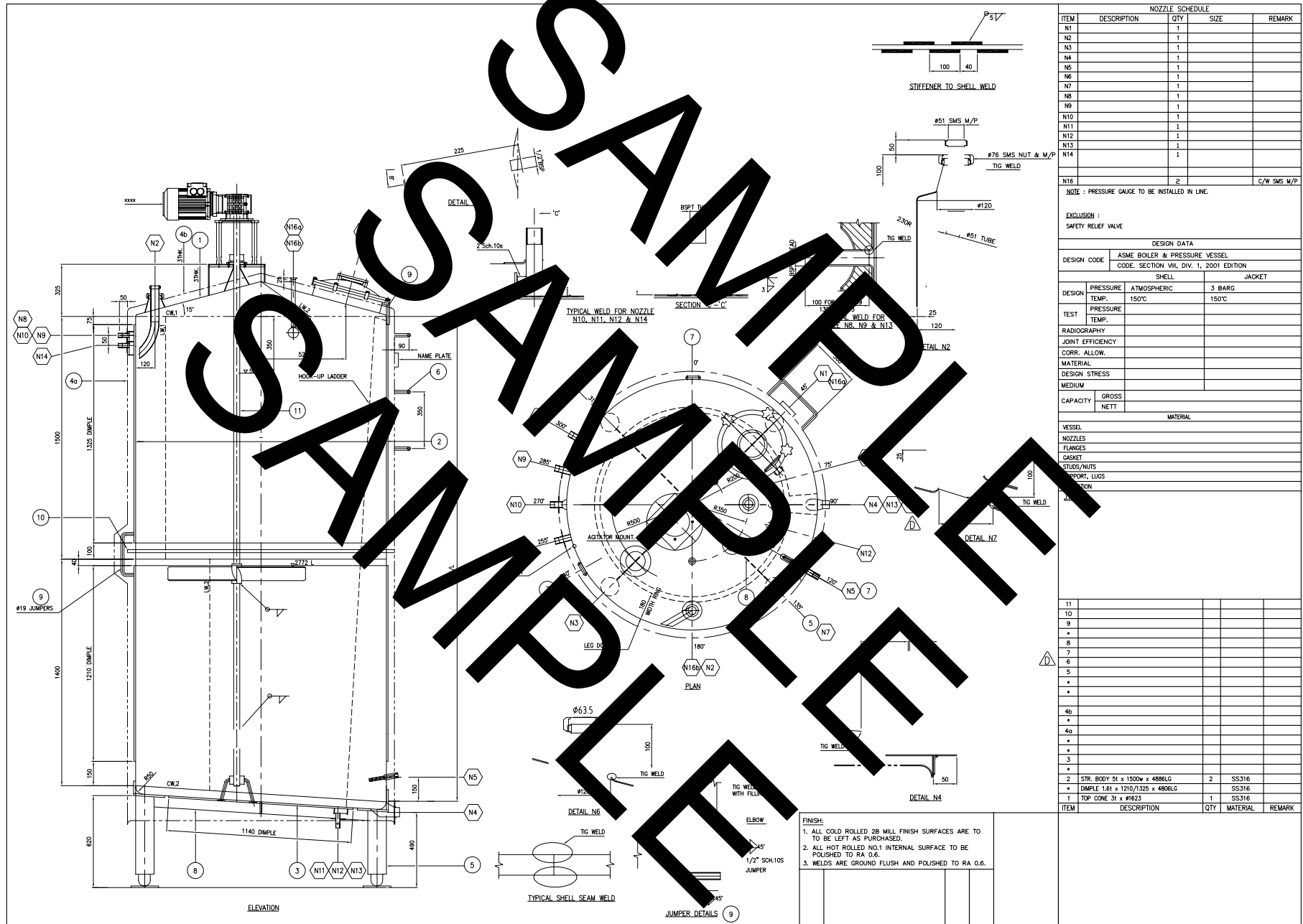
NOTE :

ITEM	DESCRIPTION	QTY	MATERIAL	REMARK
14				
13				
12				
11				
10				
9				
8				
7				
6				
5	INSULATION 150i	1	FU	
4	CONE BR	1	A 240 GR 304	
3	CONE KNUCKLE BR (MIN. 6.13 AFTER KNUCKLE)	1	A 240 GR 304	
2	TOP TORL HEAD 10i (MIN. 7.91 AFTER FORM)	1	A 240 GR 304	
1	SHELL BR/7.5i/6i	1	A 240 GR 304	

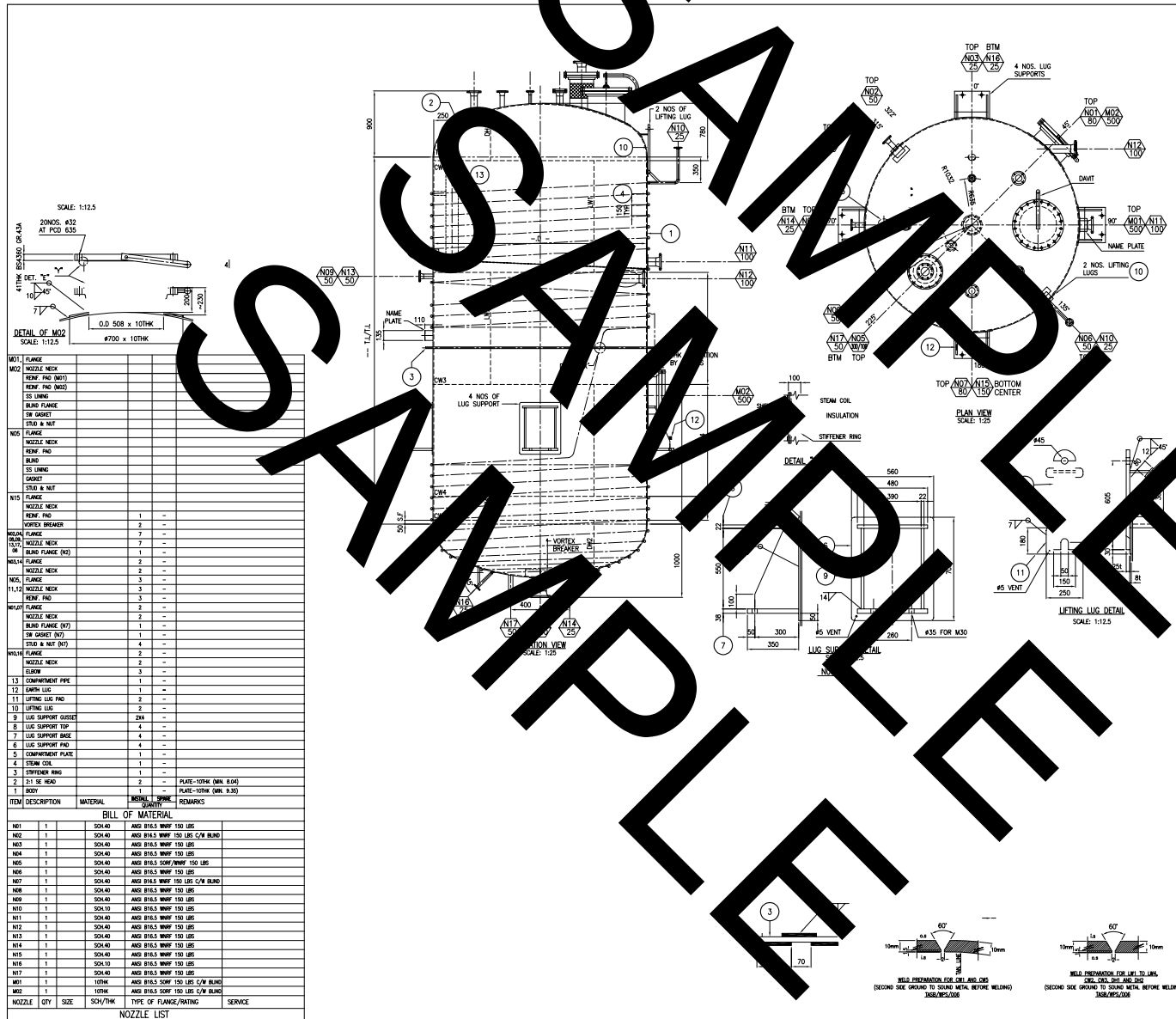
25,000L HORIZONTAL TANK (PHARMACEUTICAL INDUSTRIES)



2500L CULTURE TANK (DAIRY INDUSTRIES)



RAW MATERIAL FEED VESSEL (OLEOCHEMICAL INDUSTRIES)



REFERENCE DRAWINGS

 FIG. 2-5 (6) DETAIL 'A'	 UM-16.1 (c) DETAIL 'B'
 DETAIL 'C'	 FIG. 2-4 (3a) DETAIL 'D'
 UM-16.1 (a) DETAIL 'E'	

SPECIFICATION

DESIGN CODE	ASME BOILER & PRESSURE VESSEL SECTION VIII, DIV. 1, 2001 ADD 2002 + SQL REQUIREMENTS
DESIGN PRESSURE	EV / 0.10 MPa
DESIGN TEMP.	220 °C
MAX. DESIGN METAL TEMP.	220 °C
EXTERNAL COR.	
INTERNAL COR.	
WELDING	
INSULATION	
PAINTING	
REVISIONS	
APPROVAL:	

NOTE:

— INSULATION PINS SHALL BE PROVIDED

SCALE: 1:12.5

FLANGE DET. 'A'

20 NOS. AS2 AT POS. AS2

D.O.D. 508 x 10THK

SCALE: 1:12.5

NO.	FLANGE	NOZZLE NECK	REF. PNO	REMARKS
M01	FLANGE			
M02	NOZZLE NECK			
M03	BLIND FLANGE			
M04	SW GASKET			
M05	STUD & NUT			
N10	FLANGE			
N11	NOZZLE NECK			
N12	NOZZLE NECK			
N13	NOZZLE NECK			
N14	NOZZLE NECK			
N15	NOZZLE NECK			
N16	NOZZLE NECK			
N17	NOZZLE NECK			
N18	NOZZLE NECK			
N19	NOZZLE NECK			
N20	NOZZLE NECK			
N21	NOZZLE NECK			
N22	NOZZLE NECK			
N23	NOZZLE NECK			
N24	NOZZLE NECK			
N25	NOZZLE NECK			
N26	NOZZLE NECK			
N27	NOZZLE NECK			
N28	NOZZLE NECK			
N29	NOZZLE NECK			
N30	NOZZLE NECK			
N31	NOZZLE NECK			
N32	NOZZLE NECK			
N33	NOZZLE NECK			
N34	NOZZLE NECK			
N35	NOZZLE NECK			
N36	NOZZLE NECK			
N37	NOZZLE NECK			
N38	NOZZLE NECK			
N39	NOZZLE NECK			
N40	NOZZLE NECK			
N41	NOZZLE NECK			
N42	NOZZLE NECK			
N43	NOZZLE NECK			
N44	NOZZLE NECK			
N45	NOZZLE NECK			
N46	NOZZLE NECK			
N47	NOZZLE NECK			
N48	NOZZLE NECK			
N49	NOZZLE NECK			
N50	NOZZLE NECK			
N51	NOZZLE NECK			
N52	NOZZLE NECK			
N53	NOZZLE NECK			
N54	NOZZLE NECK			
N55	NOZZLE NECK			
N56	NOZZLE NECK			
N57	NOZZLE NECK			
N58	NOZZLE NECK			
N59	NOZZLE NECK			
N60	NOZZLE NECK			
N61	NOZZLE NECK			
N62	NOZZLE NECK			
N63	NOZZLE NECK			
N64	NOZZLE NECK			
N65	NOZZLE NECK			
N66	NOZZLE NECK			
N67	NOZZLE NECK			
N68	NOZZLE NECK			
N69	NOZZLE NECK			
N70	NOZZLE NECK			
N71	NOZZLE NECK			
N72	NOZZLE NECK			
N73	NOZZLE NECK			
N74	NOZZLE NECK			
N75	NOZZLE NECK			
N76	NOZZLE NECK			
N77	NOZZLE NECK			
N78	NOZZLE NECK			
N79	NOZZLE NECK			
N80	NOZZLE NECK			
N81	NOZZLE NECK			
N82	NOZZLE NECK			
N83	NOZZLE NECK			
N84	NOZZLE NECK			
N85	NOZZLE NECK			
N86	NOZZLE NECK			
N87	NOZZLE NECK			
N88	NOZZLE NECK			
N89	NOZZLE NECK			
N90	NOZZLE NECK			
N91	NOZZLE NECK			
N92	NOZZLE NECK			
N93	NOZZLE NECK			
N94	NOZZLE NECK			
N95	NOZZLE NECK			
N96	NOZZLE NECK			
N97	NOZZLE NECK			
N98	NOZZLE NECK			
N99	NOZZLE NECK			
N100	NOZZLE NECK			

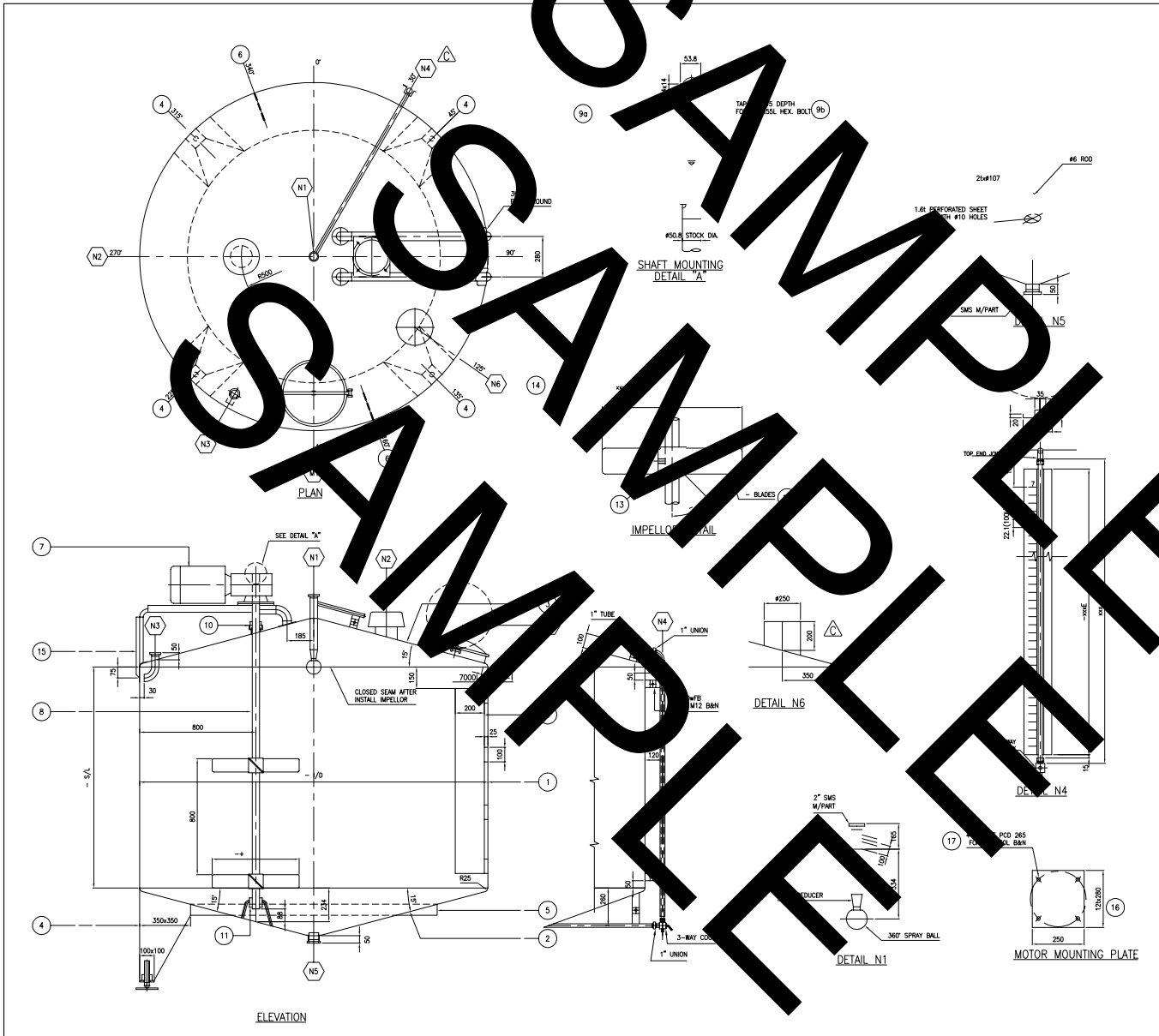
SCALE: 1:12.5

D.O.D. 508 x 10THK

ITEM	DESCRIPTION	MATERIAL	QUANTITY	REMARKS
1	STEAM COIL			
2	INSULATION			
3	STIFFENER RING			
4	COMPARTMENT FLANGE			
5	COMPARTMENT FLANGE			
6	LUG SUPPORT PAD			
7	LUG SUPPORT GASKET			
8	LUG SUPPORT TOP			
9	LUG SUPPORT GASKET			
10	LIFTING LUG			
11	LIFTING LUG PAD			
12	EMPTY LUG			
13	COMPARTMENT PIPE			
14	EMPTY LUG			
15	LIFTING LUG PAD			
16	LIFTING LUG			
17	LIFTING LUG			
18	LIFTING LUG			
19	LIFTING LUG			
20	LIFTING LUG			
21	LIFTING LUG			
22	LIFTING LUG			
23	LIFTING LUG			
24	LIFTING LUG			
25	LIFTING LUG			
26	LIFTING LUG			
27	LIFTING LUG			
28	LIFTING LUG			
29	LIFTING LUG			
30	LIFTING LUG			
31	LIFTING LUG			
32	LIFTING LUG			
33	LIFTING LUG			
34	LIFTING LUG			
35	LIFTING LUG			
36	LIFTING LUG			
37	LIFTING LUG			
38	LIFTING LUG			
39	LIFTING LUG			
40	LIFTING LUG			
41	LIFTING LUG			
42	LIFTING LUG			
43	LIFTING LUG			
44	LIFTING LUG			
45	LIFTING LUG			
46	LIFTING LUG			
47	LIFTING LUG			
48	LIFTING LUG			
49	LIFTING LUG			
50	LIFTING LUG			

ITEM	DESCRIPTION	MATERIAL	QUANTITY	REMARKS
M01	NOZZLE			
M02	NOZZLE			
M03	NOZZLE			
M04	NOZZLE			
M05	NOZZLE			
M06	NOZZLE			
M07	NOZZLE			
M08	NOZZLE			
M09	NOZZLE			
M10	NOZZLE			
M11	NOZZLE			
M12	NOZZLE			
M13	NOZZLE			
M14	NOZZLE			
M15	NOZZLE			
M16	NOZZLE			
M17	NOZZLE			
M18	NOZZLE			
M19	NOZZLE			
M20	NOZZLE			
M21	NOZZLE			
M22	NOZZLE			
M23	NOZZLE			
M24	NOZZLE			
M25	NOZZLE			
M26	NOZZLE			
M27	NOZZLE			
M28	NOZZLE			
M29	NOZZLE			
M30	NOZZLE			
M31	NOZZLE			
M32	NOZZLE			
M33	NOZZLE			
M34	NOZZLE			
M35	NOZZLE			
M36	NOZZLE			
M37	NOZZLE			
M38	NOZZLE			
M39	NOZZLE			
M40	NOZZLE			
M41	NOZZLE			
M42	NOZZLE			
M43	NOZZLE			
M44	NOZZLE			
M45	NOZZLE			
M46	NOZZLE			
M47	NOZZLE			
M48	NOZZLE			
M49	NOZZLE			
M50	NOZZLE			

7000L SUGAR DISSOLVING TANK (BEVERAGE INDUSTRIES)



NOZZLE SCHEDULE					
ITEM	DESCRIPTION	QTY	SIZE	SCH.	REMARK
N1		1			SMS M/PART
N2		1			SMS M/PART
N3		1			SMS M/PART
N4		1			SMS M/PART
N5		1			SMS M/PART
N6		1			SMS M/PART
M1		1			SMS M/PART

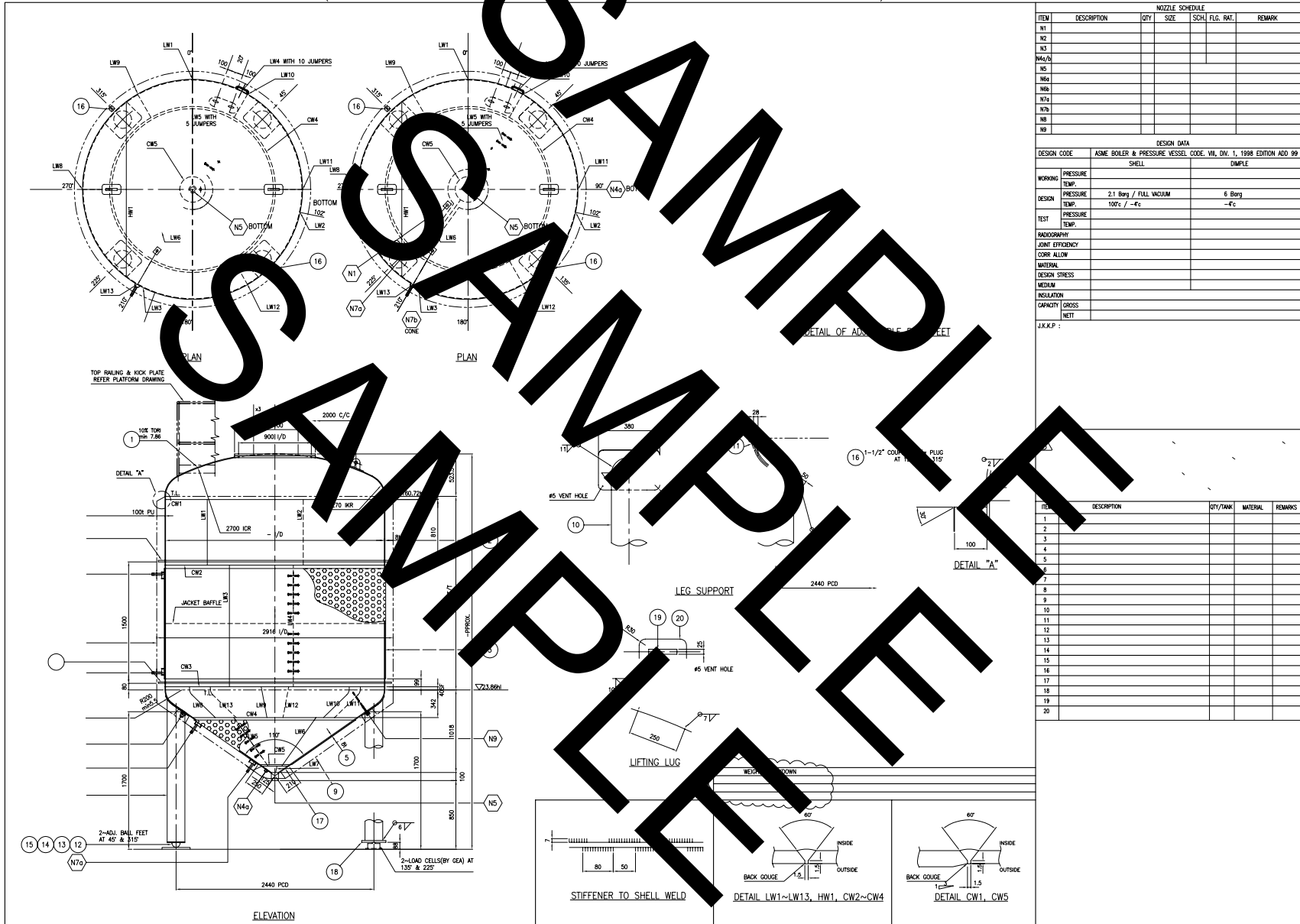
ITEM	DESCRIPTION	QTY	SIZE	SCH.	REMARK
17		4			SS 304
16		1			SS 304
15		2			SS 304
14		2			SS 304
13		2			SS 304
12		24			SS 304
11		1			SS 304
10		1			SS 304
9		1			SS 304
8		1			SS 304
7		1			SS 304

NOTES:
ALL INTERNAL AND EXTERNAL TANK JOINT WILL BE FUSION WELD USING TIG AFTER WHICH, GRIND AND STRIP POLISHED TO 240 GRI. STAINLESS STEEL SURFACES WILL BE LEFT AS PURCHASED COLD ROLLED 2B MILL FINISH.

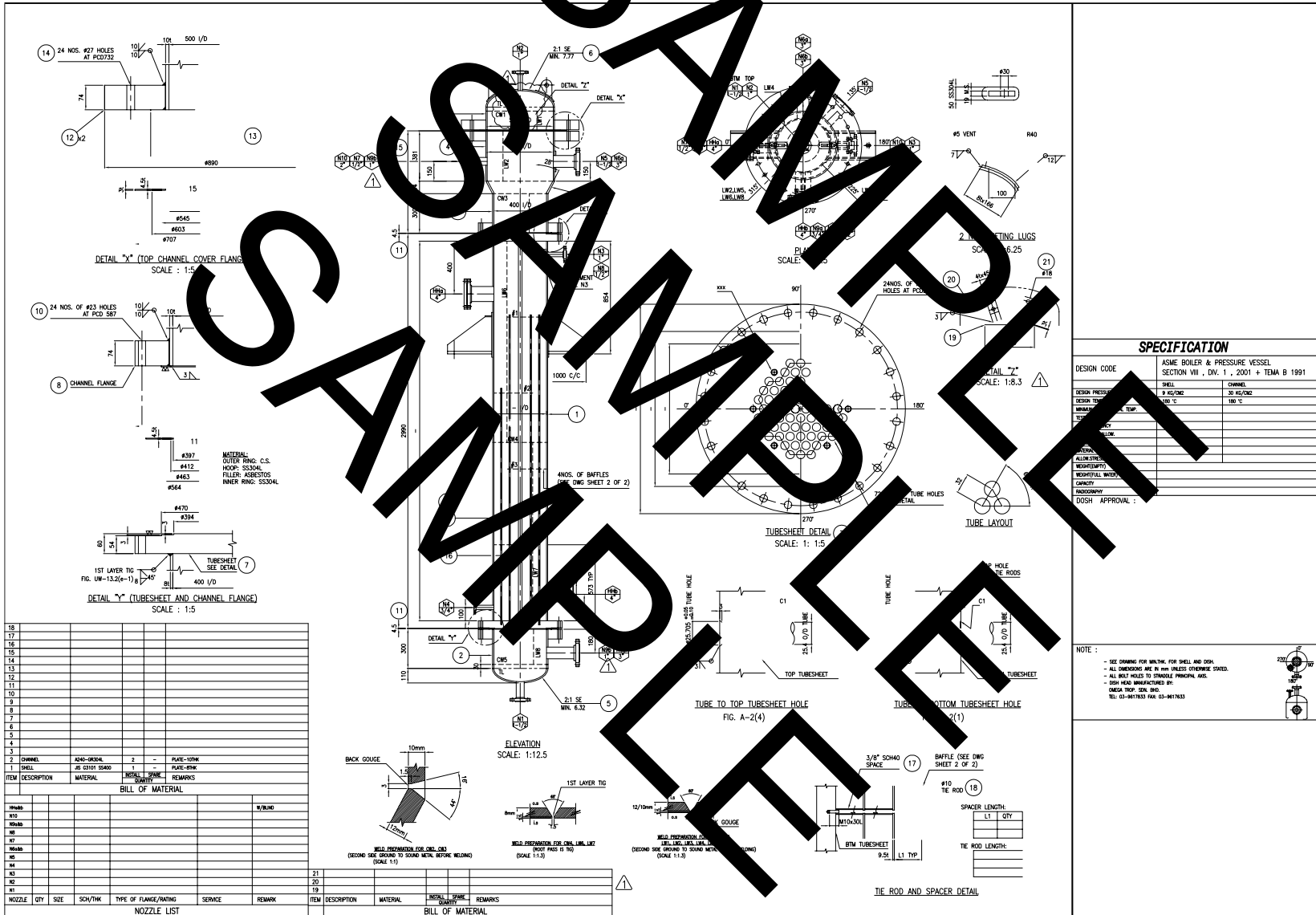
AGITATION:
TO MIX SUGAR TO 60 BRX IN ONE HOUR USING COOL WATER ONLY.

ITEM	DESCRIPTION	QTY	MATERIAL
6		2	SS 304
5		1	SS 304
4		1	SS 304
3	TOP CONE 2 1/4 x #2500	4	SS 304
2	BOTTOM CONE 3/4 x #2525	1	SS 304
1	SHELL 2 1/2 x 1524 x 7548	1	SS 304

YEAST STORAGE TANK (BREWERY INDUSTRIES)



BUTANE EVAPORATOR (SHELL & TUBE, CHEMICAL)



SPECIFICATION	
DESIGN CODE	ASME BOILER & PRESSURE VESSEL SECTION VIII, DIV. 1, 2001 + TDMA B 1991
DESIGN PRESSURE	SHELL 9 KG/CM ² CHARGE 30 KG/CM ²
DESIGN TEMPERATURE	180 °C
MINIMUM SERVICE TEMPERATURE	180 °C
MAXIMUM SERVICE TEMPERATURE	180 °C
ALLOWABLE STRESS	ASME SECTION VIII, DIV. 1, TABLE 1
WELDING PROCEDURE	ASME SECTION VIII, DIV. 1, TABLE QW
WELDING QUALIFICATION	ASME SECTION VIII, DIV. 1, TABLE QW
WELDING INSPECTION	ASME SECTION VIII, DIV. 1, TABLE QW
WELDING APPROVAL	ASME SECTION VIII, DIV. 1, TABLE QW

NOTE:

- SEE DRAWING FOR WELDING FOR SHELL AND DEPT.
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- ALL BOLT HOLES TO STANDARD FINANCIAL AGES.
- THIS DRAWING MANUFACTURED BY: OCEAN TRADING CO. INC.
- TEL: 01-4617833 FAX: 01-4617833

