



1034-D-13	NAMEPLATE BRACKET
1034-D-12	INT STRUCT ATTACHMT'S
1034-D-11	EXT STRUCT ATTACHMT'S
1034-D-10	ROOF NOZZLES
1034-D-09	SHELL NOZZLES
1034-D-08	ROOF MANWAY M2
1034-D-07	SHELL MANHOLE M1
1034-D-06	ROOF STIFFENER DETAILS
1034-D-05	ROOF PLATE DETAILS
1034-D-04	SHELL PLATE DETAILS
1034-D-03	BOTTOM GRILLAGE DETAIL
1034-D-02	BOTTOM PLATE DETAILS
DRG No	REFERENCE DRAWINGS

MARK	QTY.	SIZE	SCH.	RATG.	FLG TYP	DESCRIPTION	PROJ FROM SHELL
M2	1	600x600	-	API 650	FF	INSPECTION HOLE COVER IN P.P.	200
M1	1	750	-	DIN2576	FF	MANHOLE WITH DAVIT	151
N10	1	200NB	-	-	-	SPARE C/W RUB/L BLIND FLG GASKET, BOLTS & NUTS	200
N9	1	200NB	XS	150#	WNFF	DRAIN	367
N8	1	200NB	XS	150#	WNFF	TEMPERATURE	200
N7	1	400NB	XS	150#	WNFF	VENT	200
N6	1	150NB	XS	150#	WNFF	LEVEL SWITCH	150
N5	1	100NB	XS	150#	WNFF	DEFOAMER	150
N4	1	-	-	-	-	AGITATOR HOLE 2200 x 2200	-
N3	1	100NB	XS	150#	WNFF	H2SO4 INLET	200
N2	1	SPECIAL	-	-	FF	SLURRY OUTLET 1210 x 1110	344
N1	1	SPECIAL	-	-	FF	SLURRY INLET 1400 x 1000	344

NOZZLE SCHEDULE	
TECHNICAL DATA	
VESSEL No.	CLIENT 352.900.TK
INSPECTION No.	CONSANI P1034
INSPECTION AUTHORITY	
CODE OF DESIGN & FABRICATION	API 650 10th. EDITION, 1998, APP I.
DESIGN PRESSURE	-12mm WC
DESIGN TEMPERATURE	90°C max.
JOINT EFFICIENCY	SHELL 0.85 HEAD -
TEST PRESSURE IN VAPOR SPACE	N/A
CORROSION ALLOWANCE	NIL
RADIOGRAPHY	AS PER API 650 PARA 6.1.2
HEAT TREATMENT	N/A
DYE PENETRANT EXAMINATION	SEE QCP
S.G. OF CONTENTS	1850 kg/m3
DESIGN LIQUID LEVELS	7990
TOTAL VOLUME	273.4m³
FABRICATED WEIGHT	20394 kg
OPERATING WEIGHT	526098 kg
WEIGHT FULL OF WATER	293747 kg

**SURFACE PREPARATION:**

- 1). ALL EXTERIOR SURFACES TO BE PREPARED AND PAINTED IN ACCORDANCE WITH SPECIFICATION SS-000000-G-003-MC004.
- 2). FINISHING PAINT COATINGS TO BE DONE BY CONSANI AFTER RUBBER LINING.
- 3). INTERNAL SURFACES TO BE LEFT AS BARE STEEL.
- 4). INTERNAL WELDS TO BE PREPARED & RUBBER LINED TO DIN 28051 & DIN 28053.

**NOTES:**

- 1). FITTINGS TO BE LOCATED AS SHOWN ON GENERAL AND ORIENTATION PLAN. NOZZLE BOLT HOLES TO STRADDLE VERTICAL AND HORIZONTAL CENTER LINES.
- 2). ALL DIMENSIONS ARE IN MM. UNLESS SPECIFIED OTHERWISE.
- 3). LEAVE TELL TALE HOLES OPEN IN REINFORCING PLATES AFTER AIR TEST, & FILLED WITH GREASE.
- 4). ELEVATIONS ARE GIVEN FROM TOP SIDE OF TANK BOTTOM PLT.
- 5). FLANGES TO BE IN ACCORDANCE WITH ANSI B16.5. OR B16.47 SERIES B
- 6). FLANGE FACE FINISH 6.3-12.7 MICRONS TO BE PROTECTED AGAINST DAMAGE WITH 3mm PLYWOOD, FASTENED WITH 3 BOLTS OR CABLE TIES.

**MATERIAL SPECIFICATION**

- 1) BOTTOM PLATE: SABS 1431 GRD 300WA
- 2) SHELL PLATE: SABS 1431 GRD 300WA
- 3) ROOF PLATE: SABS 1431 GRD 300WA
- 4) REINFORCING PLATES: SABS 1431 GRD 300WA
- 5) STRUCTURAL SECTIONS: SABS 1431 GRD 300WA
- 6) PIPES: ASTM A106 GRB
- 7) FORGINGS: ASTM A105
- 8) FITTINGS: ASTM A234 GR WPB
- 9) BOLTS/STUDS: ASTM A193 Gr B7
- 10) NUTS: ASTM A194 Gr 2H
- 11) GASKETS: EPDM FULL FACE
- 12) CLIPS/LUGS: SABS 1431 GRD 300WA

<b>SULPHOS</b>		PROJECT No. 6348	
DANIELS ROBERTS CENTRE DEEN BOWLEND P O BOX 569 BETHUNGAH 2008 REPUBLIC OF SOUTH AFRICA TELEPHONE (011) 456-1000 TELEFAX (011) 456-1400		VENDOR: CONSANI VENDOR AUTHORIZATION SIGNATURE: [Signature] DATE: 4/7/01	
PO/CONTRACT No. 747 P205	SEQUENCE No. 0120	CATEGORY: G2	
EQUIPMENT No. 352.900.TK			
EXTERNAL DOCUMENT REVIEW FOR CONFORMITY WITH SPECIFICATIONS AND DESIGN DRAWINGS			
A = NOT SUITABLE FOR FABRICATION		SUBMISSION No. 03	
B = MODIFY AS NOTED, RESUBMIT BEFORE FABRICATION		SULPHOS AUTHORIZATION SIGNATURE: [Signature]	
C = MODIFY AS NOTED, COMMENCE FABRICATION AND RESUBMIT		DATE: 16/07/01	
D = SUITABLE FOR FABRICATION, SUBMIT FINAL OR 72 HOURS DOCUMENTATION			
E = RETAINED FOR INFORMATION			
F = CERTIFIED FINAL RECEIVED			
THIS REVIEW DOES NOT RELIEVE THE VENDOR/CONTRACTOR OF ANY RESPONSIBILITY FOR THE ERRORS IN DESIGN AND DETAILING OF CONNECTIONS, DIMENSIONS AND SIZES			

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CLIENT -SULPHOS  
PROJECT-INDIAN OCEAN FERTILIZER (PTY) LTD  
ITEM -DIGESTION TANK  
TAG No -352.900.TK  
TITLE -GENERAL ARRANGEMENT

REVISION E			REVISION D			REVISION C			REVISION B			REVISION A		
AUTHORITY	SIGN.	DATE	AUTHORITY	SIGN.	DATE	AUTHORITY	SIGN.	DATE	AUTHORITY	SIGN.	DATE	AUTHORITY	SIGN.	DATE
DRAWN			DG	4-7-2001	REVISED AS NOTED	J A	19/4/01	NOZZ NO ORIENTATION SHOWN	H.W.	19/03/2001	UPDATED PER CLIENT COMMENTS	H.W.	11/11/2000	FIRST ISSUE
DESIGN			EMB	19/4/01		EMB	19/4/01		E B	22/3/01		E.B.	10/1/01	
CONTRACTS			FCB	19/4/01		FCB	19/4/01		K C	22/3/01		K.C.	11/1/01	

SCALE	1:50 etc.	DRAWING NUMBER	REV
DRAWN	H. WILSON..	3333-1034-D-01	D
CHECKED	E.BRANDEN		
DATE	11/11/2000	W/ORDER	ITEM
DATE	11	14	15
DATE	11	14	15

HE  
SCANNED