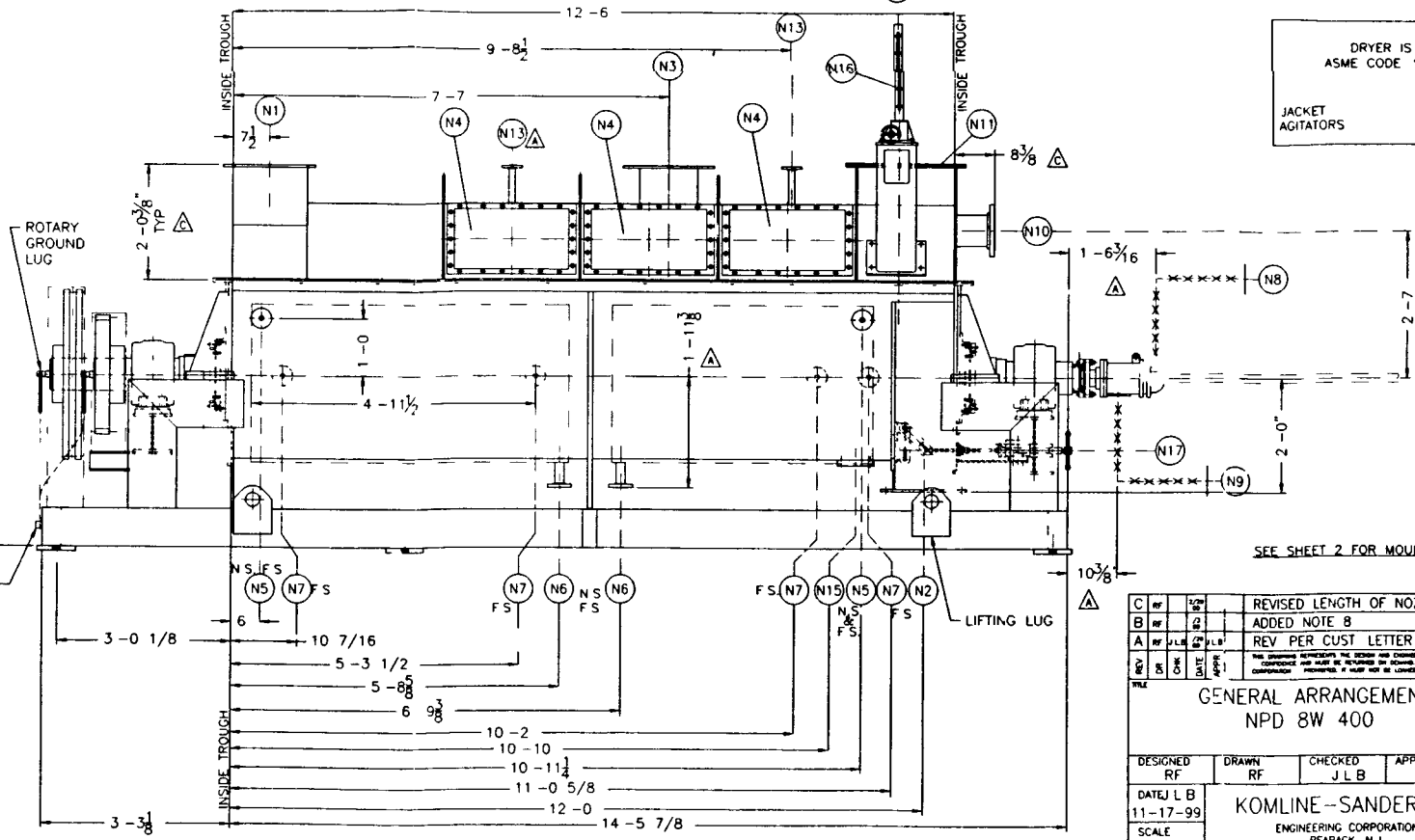
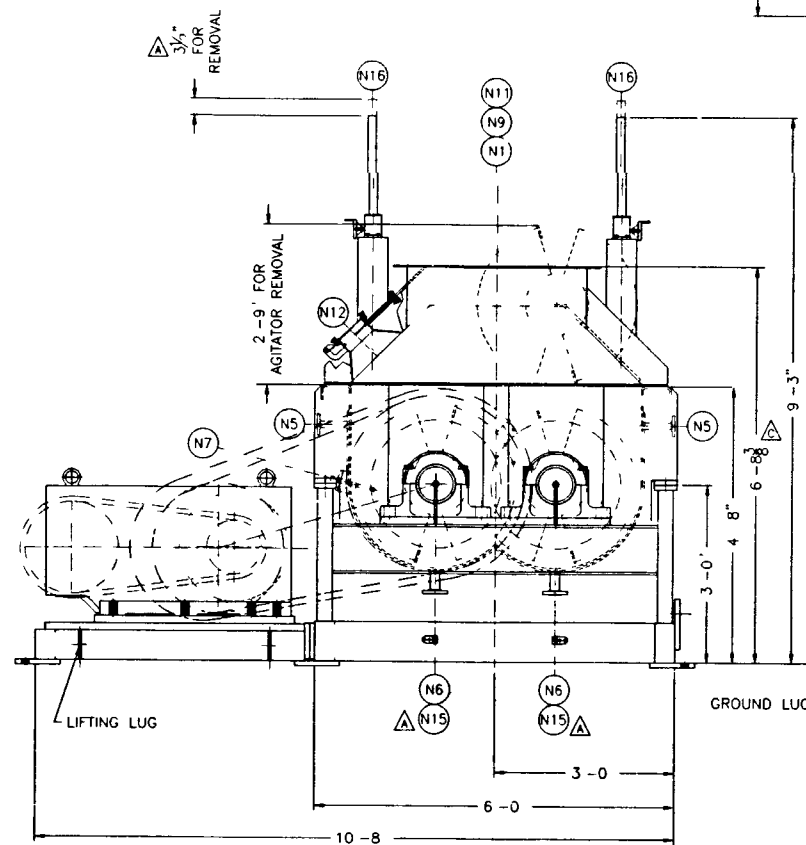
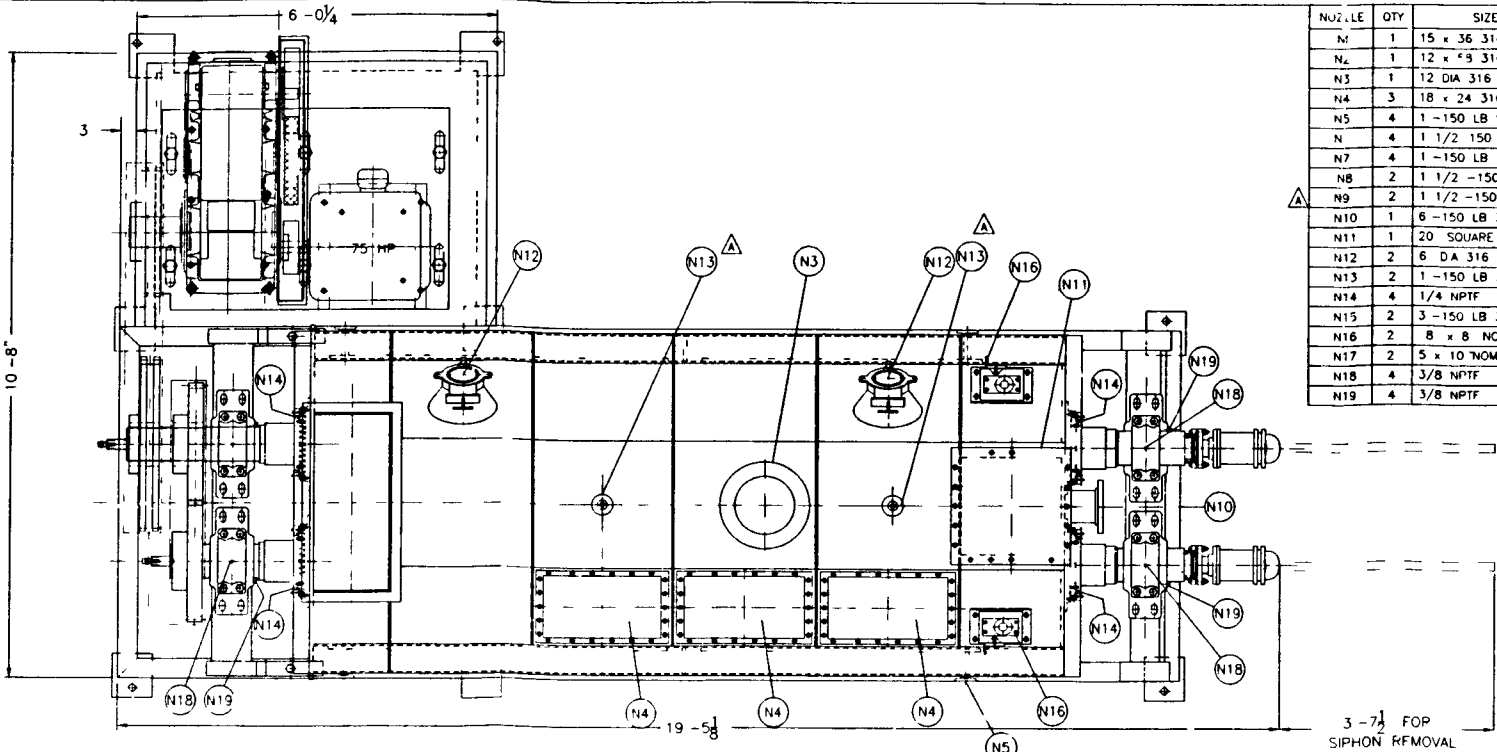


NOTES

- TOTAL EMPTY WEIGHT 28 500 LBS
TOTAL FLOODED WEIGHT 48 000 LBS
AGITATOR SHAFT WEIGHT 5 000 LBS EAC
WEIGHTS DO NOT INCLUDE THERMAL INSULATION
- REFER TO KOMLINE-SANDERSON ENG COMPANY CERTIFIED SPECIFICATIONS FOR ADDITIONAL INFORMATION SUCH AS DRIVE DESCRIPTION PRESSURE AND TEMPERATURE RATINGS MATERIALS OF CONSTRUCTION ETC
- CONNECTIONS ARE NOT DESIGNED TO ACCEPT EXTERNAL LOADS CONNECTED PIPING AND DUCTS MUST BE INDEPENDENTLY SUPPORTED AND ARRANGED TO ALLOW FOR THERMAL EXPANSION MAXIMUM HORIZONTAL MOVEMENT WILL BE 5/8 AT THE EXPANSION END AND 1/8 VERTICALLY UP AND DOWN FROM THE AGITATOR CENTERLINE AT MAX DESIGN TEMPERATURE
- LOCATIONS OF PIPING CONNECTIONS ARE APPROXIMATE AND ARE SUBJECT TO ADJUSTMENT TO SUIT MANUFACTURING REQUIREMENTS FIELD FIT UP OF CONNECTED PIPING IS REQUIRED
- LIFTING LUGS ARE DESIGNED FOR VERTICAL LIFT ONLY SPREADER BARS ARE NOT PROVIDED BY KOMLINE-SANDERSON
- DESIGN VENT PRESSURE IS 5 PSIG @ 425 F
- LOADS INDICATED DUE TO NORMAL OPERATING CONDITIONS (BLADES FULLY SUBMERGED)
- OPERATION AT ±1 PSIG ON PROCESS SIDE WILL NOT ADVERSELY AFFECT THE STRUCTURAL INTEGRITY HOWEVER LEAKAGE MAY OCCUR AT BOLTED JOINTS AND UNSEALED CREVIC S

NOZ. LE	QTY	SIZE/RATING/MAT L	SERVICE
N1	1	15 x 36 316 SS SEE DETAIL A	FEED INLET
N2	1	12 x 9 316 SS SEE DETAIL B	PRODUCT OUTLET
N3	1	12 DIA 316 SS SEE DETAIL C	VAPOR OUTLET
N4	3	18 x 24 316 SS	RELIEF VENT
N5	4	1-150 LB STL RF SLIP ON FLG	STEAM INLET (TROUGH)
N6	4	1 1/2 150 LB STL RF SLIP ON FLG	CONDENSATE OUTLET (TROUGH)
N7	4	1-150 LB 316 SS SEE DETAIL D	THERMOWELL
N8	2	1 1/2 -150 LB STL RF SLIP ON FLG	STEAM INLET (AGITATOR)
N9	2	1 1/2 -150 LB STL RF SLIP ON FLG	CONDENSATE OUT (AGITATOR)
N10	1	6-150 LB 316 SS RF SLIP ON FLG	SWEEP GAS
N11	1	20 SQUARE 316 SS	BOLTED ACCESS HATCH
N12	2	6 DA 316 SS	VIEW PORT
N13	2	1-150 LB 316 SS RF SLIP ON FLG	INSTRUMENT CONNECTION
N14	4	1/4 NPTF	PURGE CONNECTIONS
N15	2	3-150 LB 316 SS PAD FLANGE	DRAIN (TROUGH)
N16	2	8 x 8 NOMINAL	OVERFLOW W/FR GATE OPER
N17	2	5 x 10 NOMINAL	UNDERFLOW WEIR GATE OPER
N18	4	3/8 NPTF	BEARING OIL SUPPLY
N19	4	3/8 NPTF	BEARING OIL RETURN



DRYER IS DESIGNED AND CONSTRUCTED PER ASME CODE SECTION VIII DIVISION 1 AS FOLLOWS

	PRESSURE	TEMPERATURE	U STAMP
JACKET	165 PSIG	425 F	YES
AGITATORS	165 PSIG	425 F	YES

#93123

CERTIFIED FOR CONSTRUCTION
KOMLINE-SANDERSON ENGINEERING CORP
CLEAN AIR PEARL RIVER NJ 07977
CUSTOMER: HOECHST CELANESE CORP DATE: 3-1-00
P.O. NO. 45005243 I.S. JOB NO. 2258
SERVICE: 2 PRIMARY DRYER
INDICATE APPROVAL AND/OR COMMENTS ON EACH ITEM AND RETURN ONE COPY OF EACH DRAWING TO THE ATTENTION OF THE P.J.A. DEPARTMENT ORDER PREPARATION MAY BE DELAYED PENDING APPROVAL BY [Signature]

SEE SHEET 2 FOR MOUNTING PLAN AND DETAILS A, B, C & D.

NOTE
PRINT MAY BE REDUCED SIZE
CHECK BEFORE SCALING DIMENSIONS
+++++
ONE INCH

C. NO.	REV.	DATE	DESCRIPTION
A	1	1/17/00	REV PER CUST LETTER DATED 1/17/00 1-11 3/8 WAS 1-10 1/4

GENERAL ARRANGEMENT
NPD 8W 400

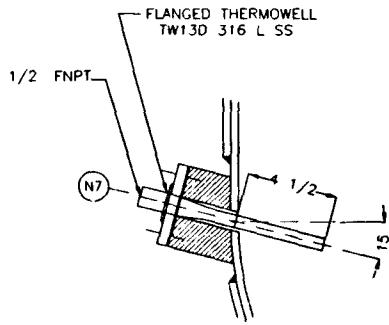
DESIGNED RF	DRAWN RF	CHECKED JLB	APPROVED JLB
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DATE: L B
11-17-99

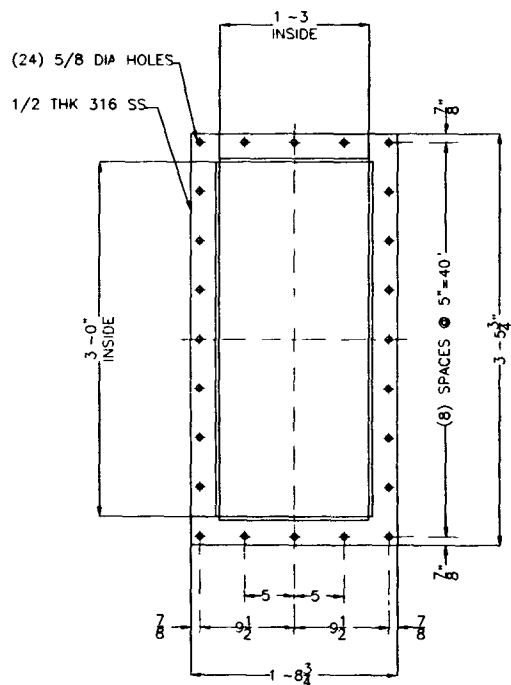
SCALE
3/4" = 1'-0"

HOECHST CELANESE CORPORATION
BISHOP, TEXAS

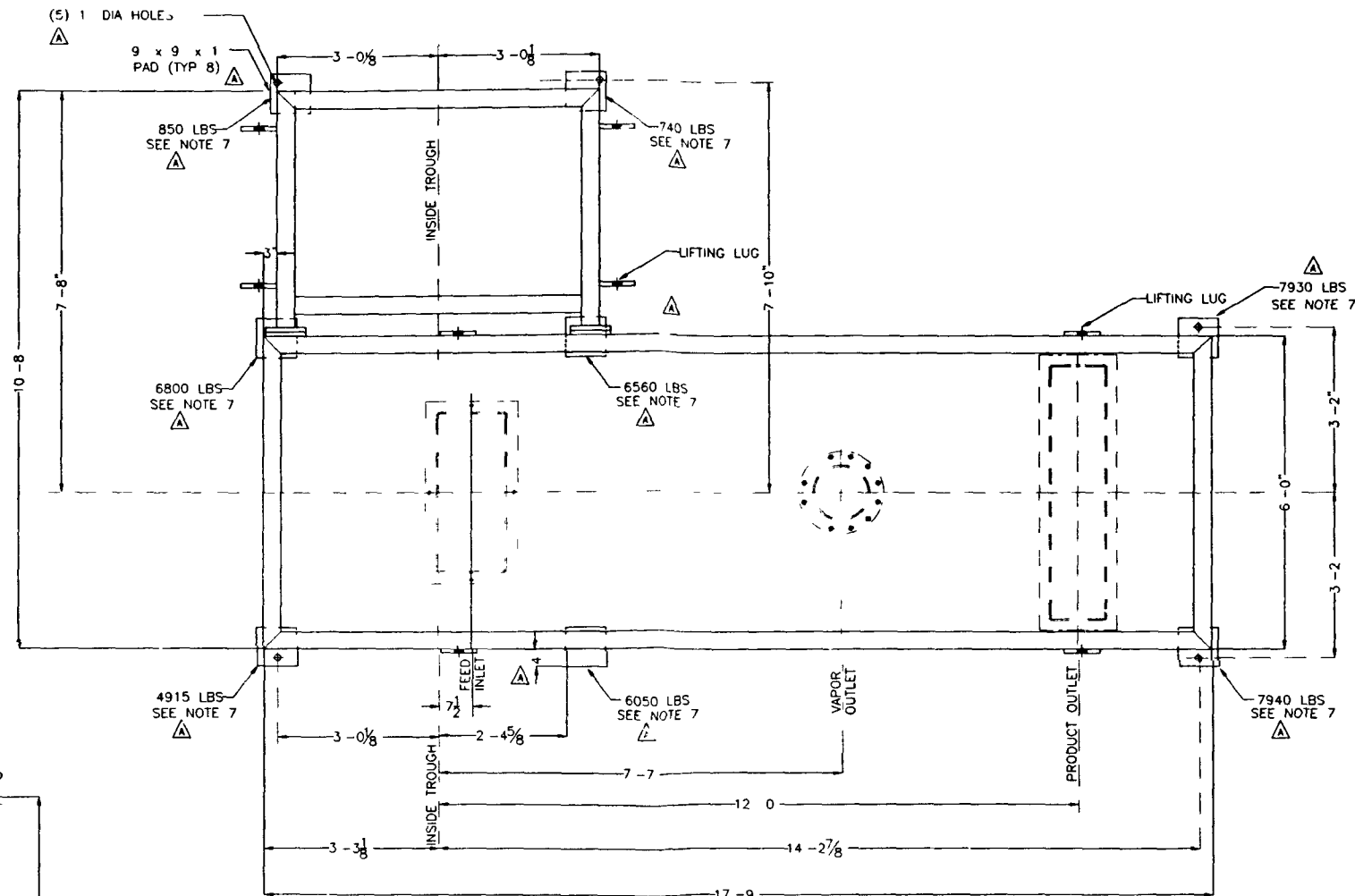
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D0258-00001DC	1
	OF 2



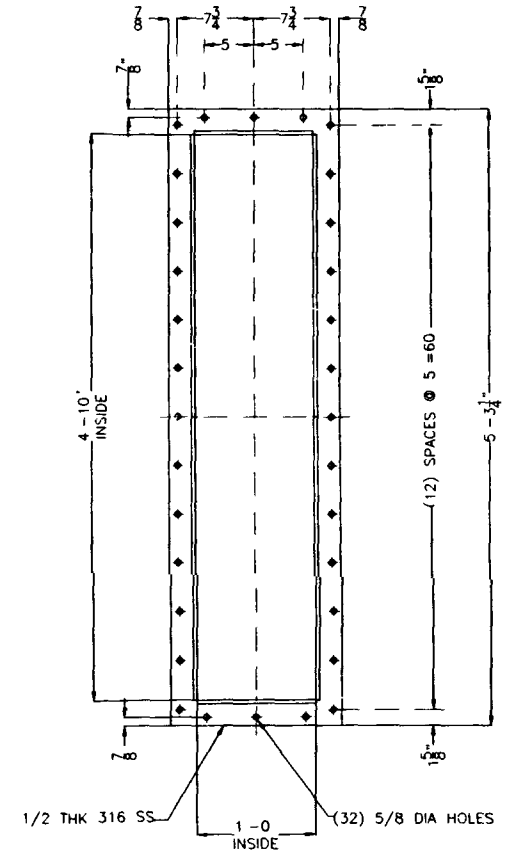
THERMOWELL
DETAIL D
3/8 = 1-0



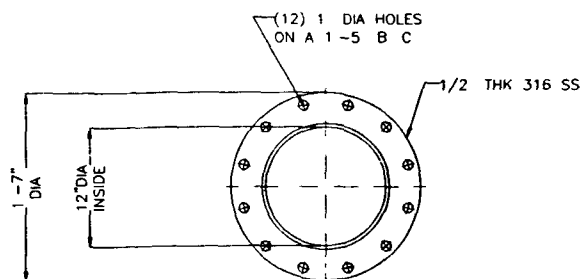
FEED INLET
DETAIL A
1 1/2 = 1-0



MOUNTING PLAN



PRODUCT OUTLET
DETAIL B
1 1/2 = 1-0



VAPOR OUTLET
DETAIL C
1 1/2 = 1-0

CERTIFIED FOR CONSTRUCTION
KOLLINE SANDERSON ENGINEERING CORP.
HOUSTON, TEXAS 77057
CUSTOMER: HOECHST CELANESE CORP. DATE: 11/10/99
P.O. NO.: 99020213 JOB NO.: 9902
SERVICE: OR REVISED PARTS (SEE) ISSUES TO APPROVAL, A SIGNATURE ON EACH ITEM AND RETURN ONE COPY OF EACH DRAWING TO THE ATTENTION OF THE PROJECT MANAGER. CONSULT THE PROJECT MANAGER FOR ANY AND ALL REVISIONS.
DESIGNED BY: JLB
CHECKED BY: JLB
APPROVED BY: JLB

93123

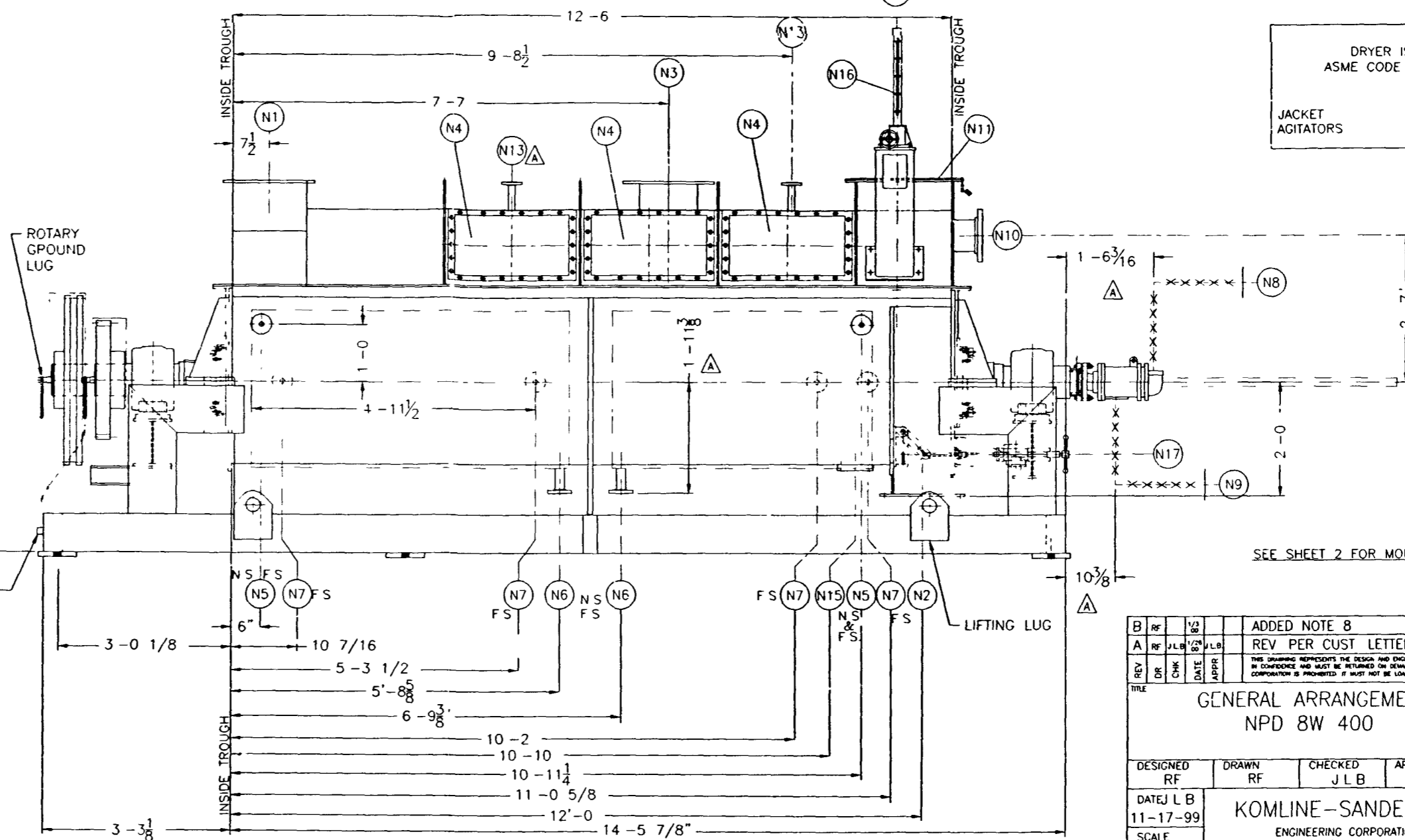
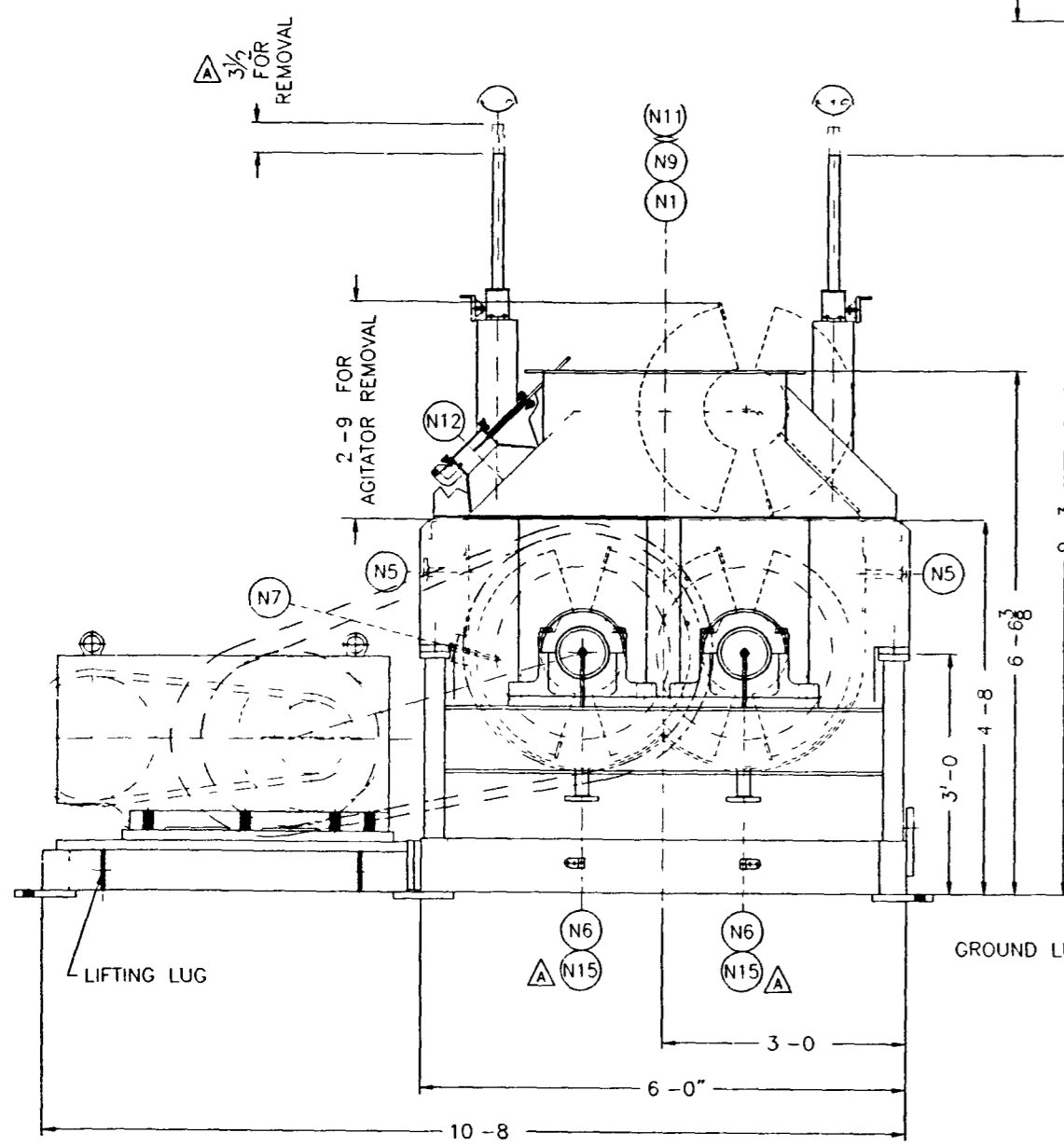
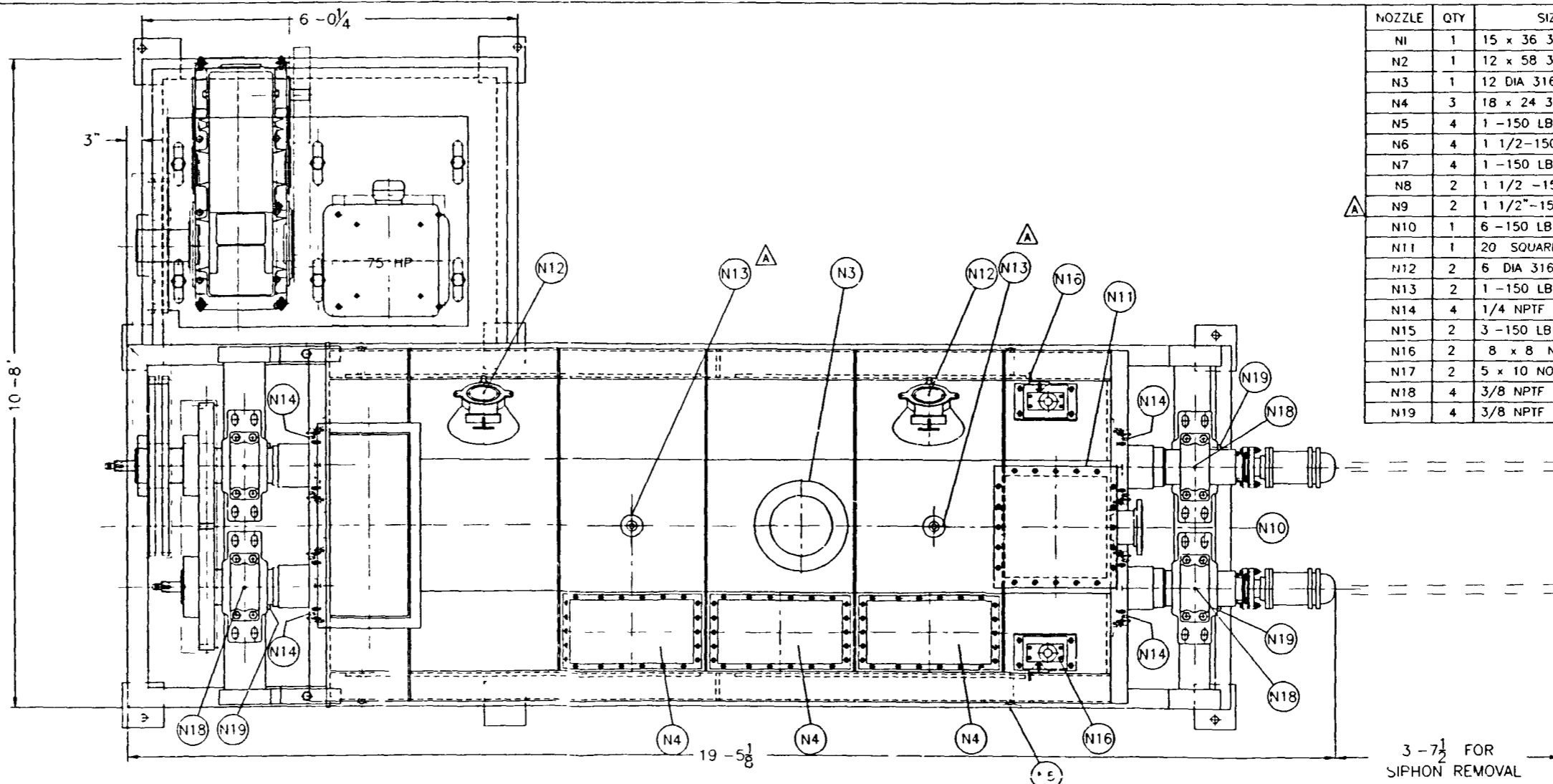
NOTE
PRINT MAY BE REDUCED SIZE
CHECK BEFORE SCALING DIMENSIONS
+++++
ONE INCH

REV	DR	CHK	DATE	BY	DESCRIPTION	DATE	BY
GENERAL ARRANGEMENT NPD 8W 400				HOECHST CELANESE CORPORATION BISHOP TEXAS			
DESIGNED	RF	DRAWN	RF	CHECKED	JLB	APPROVED	JLB
DATE	11-17-99	KOMLINE-SANDERSON ENGINEERING CORPORATION PEAPACY NJ		REFERENCE	DWG NO	SHT	
SCALE	3/4 1 0				D0258-00001DC	2 OF 2	

NOTES

- TOTAL EMPTY WEIGHT 28 500 LBS
TOTAL FLOODED WEIGHT 48 000 LBS
AGITATOR SHAFT WEIGHT 5 000 LBS EACH
WEIGHTS DO NOT INCLUDE THERMAL INSULATION
- REFER TO KOMLINE-SANDERSON ENG COMPANY CERTIFIED SPECIFICATIONS FOR ADDITIONAL INFORMATION SUCH AS DRIVE DESCRIPTION PRESSURE AND TEMPERATURE RATINGS MATERIALS OF CONSTRUCTION ETC
- CONNECTIONS ARE NOT DESIGNED TO ACCEPT EXTERNAL LOADS CONNECTED PIPING AND DUCTS MUST BE INDEPENDENTLY SUPPORTED AND ARRANGED TO ALLOW FOR THERMAL EXPANSION MAXIMUM HORIZONTAL MOVEMENT WILL BE 5/8" AT THE EXPANSION END AND 1/8" VERTICALLY UP AND DOWN FROM THE AGITATOR CENTERLINE AT MAX DESIGN TEMPERATURE
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- LIFTING LUGS ARE DESIGNED FOR VERTICAL LIFT ONLY SPREADER BARS ARE NOT PROVIDED BY KOMLINE-SANDERSON
- DESIGN VENT PRESSURE IS 5 PSIC @ 425 F
- LOADS INDICATED DUE TO NORMAL OPERATING CONDITIONS (BLADES FULLY SUBMERGED)
- OPERATION AT ±1 PSIC ON PROCESS SIDE WILL NOT ADVERSELY AFFECT THE STRUCTURAL INTEGRITY HOWEVER LEAKAGE MAY OCCUR AT BOLTED JOINTS AND UNSEALED CREVICFS

NOZZLE	QTY	SIZE/RATING/MAT L	SERVICE
N1	1	15 x 36 316 SS SEE DETAIL A	FEED INLET
N2	1	12 x 58 316 SS SEE DETAIL B	PRODUCT OUTLET
N3	1	12 DIA 316 SS SEE DETAIL C	VAPOR OUTLET
N4	3	18 x 24 316 SS	RELIEF VENT
N5	4	1 -150 LB STL RF SLIP ON FLG	STEAM INLET (TROUGH)
N6	4	1 1/2 -150 LB STL RF SLIP ON FLG	CONDENSATE OUTLET (TROUGH)
N7	4	1 -150 LB 316 SS SEE DETAIL D	THERMOWELL
N8	2	1 1/2 -150 LB STL RF SLIP ON FLG	STEAM INLET (AGITATOR)
N9	2	1 1/2 -150 LB STL RF SLIP ON FLG	CONDENSATE OUT (AGITATOR)
N10	1	6 -150 LB 316 SS RF SLIP ON FLG	SWEEP GAS
N11	1	20 SQUARE 316 SS	BOLTED ACCESS HATCH
N12	2	6 DIA 316 SS	VIEW PORT
N13	2	1 -150 LB 316 SS RF SLIP ON FLG	INSTRUMENT CONNECTION
N14	4	1/4 NPTF	PURGE CONNECTIONS
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N16	2	8 x 8 NOMINAL	OVERFLOW WEIR GATE OPER
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N18	4	3/8 NPTF	BEARING OIL SUPPLY
N19	4	3/8 NPTF	BEARING OIL RETURN



	PRESSURE	TEMPERATURE	U" STAMP
JACKET	165 PSIG	425 F	YES
AGITATORS	165 PSIG	425 F	YES

CERTIFIED FOR CONSTRUCTION
KOMLINE-SANDERSON ENGINEERING CORP.
HOLLAND AVE. PEAPACK, N.J. 07645
CUSTOMER: HOECHST CELANESE CORP. DATE: JAN 31 1999
PO NO: 4500062413 K-S JOB NO: 0258
SERVICE: DI-PENTAERYTHRITOL DRYER
INDICATE APPROVAL AND/OR COMMENTS ON EACH ITEM AND RETURN ONE COPY OF EACH DRAWING TO THE ATTENTION OF THE PIA DEPARTMENT ORDER PROCESSING MAY BE DELAYED PENDING APPROVAL BY

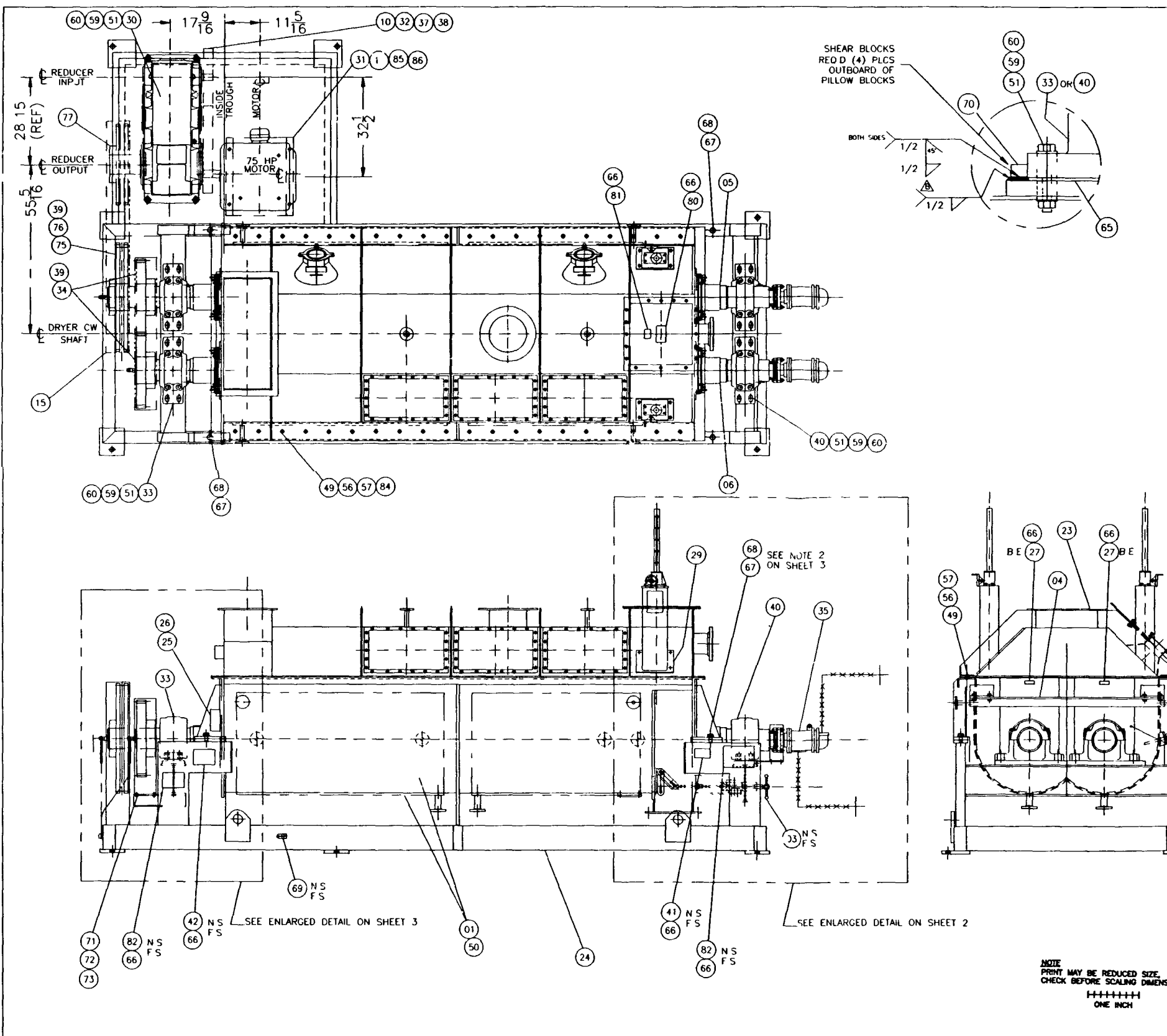
#93123

SEE SHEET 2 FOR MOUNTING PLAN AND DETAILS A, B, C & D.

NOTE
PRINT MAY BE REDUCED SIZE
CHECK BEFORE SCALING DIMENSIONS
+++++
ONE INCH

REV	DATE	BY	CHK	APP	DESCRIPTION
B	RF	JLB	JLB		ADDED NOTE 8
A	RF	JLB	JLB		REV PER CUST LETTER DATED 1/17/00 1-11 3/8 WAS 1-10 1/4
REV	DATE	BY	CHK	APP	DESCRIPTION
					THIS DRAWING REPRESENTS THE DESIGN AND ENGINEERING EFFORTS OF THE HOECHST CELANESE CORPORATION. IT IS LOANED TO THE USER BY THE HOECHST CELANESE CORPORATION AND MUST BE RETURNED TO THE HOECHST CELANESE CORPORATION. NO REPRODUCTION OR DISTRIBUTION OF THIS DRAWING IS PERMITTED WITHOUT THE WRITTEN PERMISSION OF THE HOECHST CELANESE CORPORATION.

DESIGNED	DRAWN	CHECKED	APPROVED
RF	RF	JLB	JLB
DATE	DATE	DATE	DATE
11-17-99			
SCALE	KOMLINE-SANDERSON ENGINEERING CORPORATION PEAPACK, N.J.		REFERENCE
3/4 = 1-0			DWC NO
			D0258-00001DB
	SHT	OF	
	1	2	

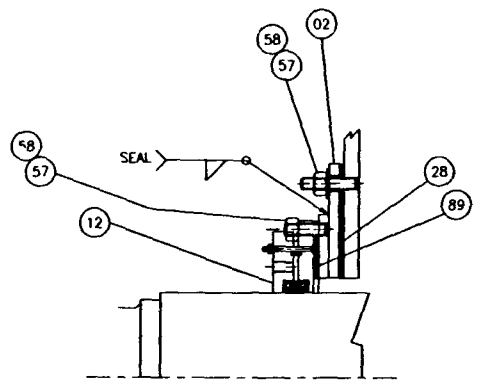
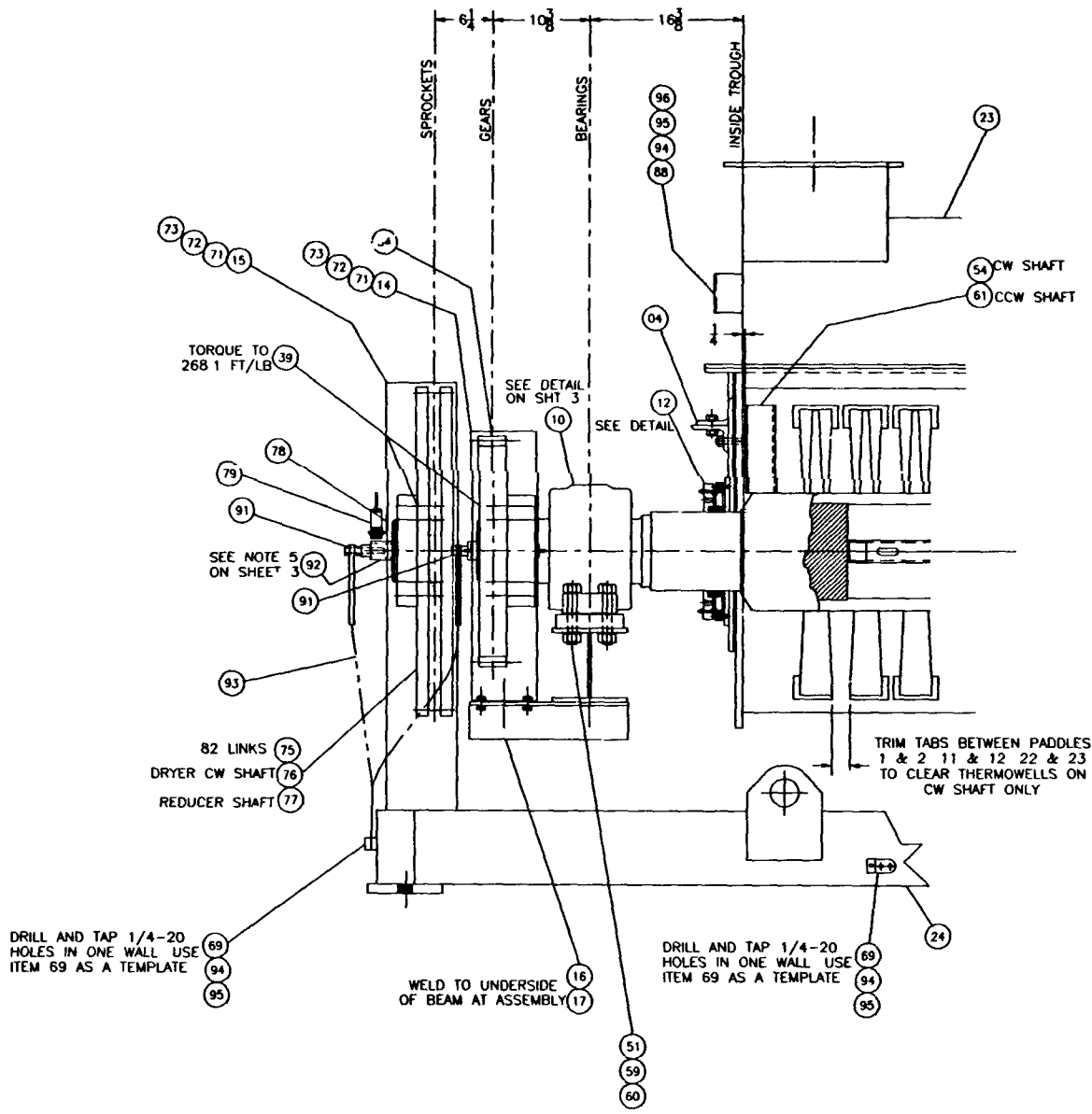


QTY		MATERIAL LIST		D0258-10000D	
QTY	PART/CAT NO	ITEM	DESCRIPTION	CUT/REMARK	
1	D0258-20000D-01	01	TRO' GH ASSEMBLY	DP-2000	
4	D0258-20001D-01	02	END COVER	DP-2000	
2	D0258-20050D-01	03	LOWER WEIR GATE ASSEMBLY	DP-2000	
2	D0258-20007D-01	04	STIFFENER END COVER	DP-2000	
1	D0258-30000D-01	05	SHAFT ASSEMBLY CW	DP-3000	
1	D0258-30001D-01	06	SHAFT ASSEMBLY CCW	DP-3000	
4	D0258-50005C-01	07	BRACKET ROTARY JOINT FLANGE GUARD	DP-5000	
2	D0258-50003D-01	08	ROTARY JOINT FLANGE GUARD	DP-5000	
2	D0258-30014D-02	09	SIPHON PIPE	DP-3000	
1	D025821	10	V-BELT GUARD (DWG D0258-50001D)	DP-5000	
1	D025873	11	SLIDING BASE FOR NEMA 365T FRAME MOTOR	DP-5000	
4	D258004	12	SHAFT SEAL	DP-4000	
2	D0258-30018D-01	13	LIFTER (ROTATING WEIR)	DP-3000	
1	D025819	14	GEAR GUARD (DWG D0258-50000D)	DP-5000	
1	D025820	15	CHAIN GUARD (DWG D0258-50010D)	DP-5000	
1	D0258-50004C-01	16	BRACKET GEARCASE	DP-5000	
1	D0258-50004C-02	17	BRACKET GEARCASE	DP-5000	
2	29D1009	18	BUSHING REDUCING SCRD STL 2 x 1 1/2	ROTARY JOINT	
4	32A3032	19	FLANGE SCRD STL 1 1/2 -15J LB RF	ROTARY JOINT	
2	D025094	20	1 1/2 SCH 80 CLOSE NIPPLE A53 (BET)	ROTARY JOINT	
2	D025095	21	1 1/2" -3000# THRD 45 ELBOW A105	ROTARY JOINT	
4	31A2501	22	ELBOW 90° SCRD STL 1 1/2 -3000#	ROTARY JOINT	
1	D0258-60000D-01	23	TOP COVER	DP-6000	
1	D0258-70000D-01	24	MOUNTING BASE	DP-7000	
1	D0258-00014A-01	25	NAME PLATE K-S		
1	KDP00-10001B-01	26	BRACKET NAME PLATE		
4	NNP00-00009A-01	27	NAMEPLATE ROTATION DIRECTION		
4	D0258-10010D-02	28	GASKET (END COVER) BOTH ENDS		
2	D0258-10010D-06	29	GASKET UPPER WEIR GATE		
1	D258001	30	REDUCER	DP-5000	
1	D258009	31	MOTOR 75 HP 1800 RPM	DP-5000	
1	D258014	32	V BELT 5VX1120	DP-5000	
2	D258003	33	SPERICAL ROLLER BEARING PILLOW BLOCK (FIXED)	DP-5000	
2	D258002	34	SPUR GEAR	DP-5000	
2	63E5008	35	ROTARY JOINT W/ SPLIT RING & COPPER GASKET		
8	29J5051	36	FLEXIBLE HOSE 1 1/2		
1	D258025	37	V SHEAVE 5V-4 GROOVE 10.9 DIA	DP-5000	
1	D258076	38	V SHEAVE 5V-4 GROOVE 18.7 DIA	DP-5000	
3	D258010	39	LOCKING ASSY RINGFEDER (SPRKT & GEARS)	DP-5000	
2	D258012	40	SPERICAL ROLLER BEARING PILLOW BLOCK (EXPANSION)	DP-5000	
2	03Q1121	41	NAMEPLATE-LOOSEN BOLTS-EXPANSION		
2	6391012	42	NAMEPLATE-GUARDS		
1	52A2505	43	PIPE 1/2 -SCH 80 STEEL SA53 GR B	27	
2	10J1000	44	COTTER PIN 18-8 SS 1/8 X 1 3/4	ROTARY JOINT	
12	11G0001	45	CAP SCR SOC HD 18-8 SS 1/2-13 x 2	ROTARY JOINT	
2	TDPOB-32023B-01	46	PLATE ROTARY JOINT	DP-3000	
10	D025082	47	STUD FULL THREAD 5/8-11 UNC A193 B7	2 1/2 LG	
10	D025083	48	NUT 5/8-11 UNC H HEX A194 2H	ROTARY JOINT	
62	06G1043	49	BOLT HEX HD 18-8 SS 5/8-11 x 2 1/2	COVER	
1	D0258-20002D-01	50	JACKET	DP-2000	

#93123

REV	BY	CHK	DATE	DESCRIPTION
1				

TITLE: HOP ASSEMBLY				TOLERANCES: UNLESS OTHERWISE SPECIFIED	
DESIGNED: RF				DIMENSION: 0 TO 12 OVER 12	
DRAWN: RF				FRACTIONAL: ± 1/8 ± 3/32 ± 7/8	
CHECKED: JLB				DECIMAL: ± .005 ± .010 ± .015	
APPROVED: JLB				FRACTIONAL: ± 1/64 ± 1/32 ± 1/8	
DATE: 2-2-00				TOTAL FINISH: 0.008 FOR MACH SURFACE W/COM	
SCALE: 1/2" = 1'-0"				ANGULAR: ± ONE DEGREE	
REFERENCE: KOMLINE-SANDERSON ENGINEERING CORPORATION PEAPACK NJ				DWG NO: D0258-10000D	
				SHEET: 1 OF 3	



SHAFT SEAL DETAIL
TYPICAL (4) PLACES

NOTE
PRINT MAY BE REDUCED SIZE,
CHECK BEFORE SCALING DIMENSIONS
+++++
ONE INCH

QTY	PART/CAT NO	ITEM	DESCRIPTION	D0258-10000D	CUT/REMARK
24	D025865	51	BOLT, HEX HD, ASTM A325, 1-8 x 5 1/2		REDUCER-BRGS
8	06G1014	52	BOLT, HEX HD, 18-8 SS, 1/2-13 x 1 1/2		CHAIN & GEAR GUARDS
8	12G0505	53	WASHER FLAT 18-8 SS 1/2		CHAIN & GEAR GUARDS
1	D0258-30017D-01	54	SCRAPER (CW SHAFT)		DP-3000
8	09G0007	55	NUT HEX 18-8 SS 1/2-13		CHAIN & GEAR GUARDS
80	09G0008	56	NUT HEX 18-8 SS 5/8-11		COVER-DRAIN
122	12G0504	57	WASHER FLAT 18-8SS 5/8		COVER & ENDS
60	09G2309	58	NUT, SELF LOCKING, SS, ESNA, 5/8-11		END COVER
16	D025867	59	NUT HEX HD ASTM A325 1-8 UNC		PILLOW BLOCKS
24	D025866	60	WASHER FLAT HARDENED F436 STL 1 DIA		REDUCER-BRGS
1	D0258-30017D-02	61	SCRAPER (CCW SHAFT)		DP-3000
8	12G1006	62	WASHER LOCK 18-8SS 5/8		
8	06J9001	63	THREADED ROD 316 SS 5/8-11		2 3/4
2	D025874	64	FLANGE BLIND 316 SS 3-150#		
4	D0258-70005B-01	65	SHIM-BEARINGS		
40	11H0500	66	SCREW DRIVE RH 18-8 SS #6 x 5/16		NAMEPLATES
4	06A1115	67	BOLT HEX HD STL 1-8 x 2		TROUGH MTG
4	12A0508	68	WASHER FLAT STL 1 DIA		TROUGH MTG
4	E022161	69	GROUNDING LUG		
6	D0258-70006B-01	70	BASE DETAILS (SHEAR BLOCK BEARING)		DP-7000
16	06G1014	71	BOLT, HEX HD, 18-8 SS 3/8-16 x 1 1/2		GUARDS
16	09G0006	72	NUT, HEX, 18-8 SS 3/8-16		GUARDS
24	12G1009	73	WASHER FLAT 18-8 SS 3/8		GUARDS
8	06G1014	74	BOLT, HEX HD, 18-8 SS 3/8-16 x 3/4		GUARDS
1	D250015	75	CHAIN RC180-2 WITH CONNECTING LINK		DP-5000
1	D250027	76	SPROCKET 4BT-RC180-2 TYPE B		DP-5000
1	D250028	77	SPROCKET 35T-RC180-2 TYPE B		DP-5000
1	D0258-10016B-01	78	BRACKET ZERO SPEED SWITCH		
1	90X0163	79	ZERO SPEED SWITCH		
1	63J0304	80	NAME PLATE DANGER ROTATING MACHINERY		
1	6396997	81	NAME PLATE DANGER HOT		
2	6391013	82	NAME PLATE DANGER HOT		
		83			
1	D0258-10010D-01	84	GASKET (TOP COVER & TROUGH)		
8	D025870	85	NUT HEX ASTM A325 5/8-11		MOTOR & BASE
8	D025868	86	BOLT HEX HD ASTM A325 5/8-11 x 2		MOTOR & BASE
		87			
1	6395936	88	NAMEPLATE K-S LOGO		
4	D0258-10010D-03	89	GASKET (SHAFT SEAL)		
		90			
2	D025876	91	ROTO-GROUND, TWECO MOD No RG-140		
1	D0258-10017B-01	92	NUT- ROTO-GROUND		
8FT	D025881	93	GROUND WIRE		
12	11H1402	94	SCREW RH SS 1/4-20 x 1 LG		KS-LOGO GRD LUG
12	12J0502	95	WASHER FLAT 18-8 SS 1/4		KS-LOGO GRD LUG
4	09G0302	96	NUT HEX 18-8 SS 1/4-20		KS-LOGO
16	12G1005	97	WASHER LOCK 18-8 SS 1/2		THERMOWELL
4	D025092	98	THERMOWELL ASHCROFT CAT No.10 W 0750 H F 260 SR 150		
16	D025090	99	STUD FULL THREAD 1/2-13 UNC A193 B7		2 3/4 LG
32	D025091	100	NUT 1/2-13 UNC H HEX A194 2H		THERMOWELL
4	D025872	101	GASKET 1-150# SPIRAL WOUND 304SS WINDINGS C S CENTERING RING FLEXITE FILLER FLEXITALIC TYPE CG OR EQUAL		THERMOWELL
2	D025874	02	GASKET 3-150# SPIRAL WOUND 304SS WINDINGS C S CENTERING RING FLEXITE FILLER FLEXITALIC TYPE CG OR EQUAL		DRAIN NOZZLE
1	D0258-10010D-04	103	GASKET, ACCESS DOOR		
3	D0258-10010D-05	104	GASKET EXPLOSION VENT		
2	D0258-10010D-07	105	GASKET UPPER WEIR GATE ACCESS		
2	D0258-10010D-08	106	GASKET LOWER WEIR GATE NUT		
2	D0250-10010D-05	107	GASKET LOWER WEIR GATE BRACKET		

#93123

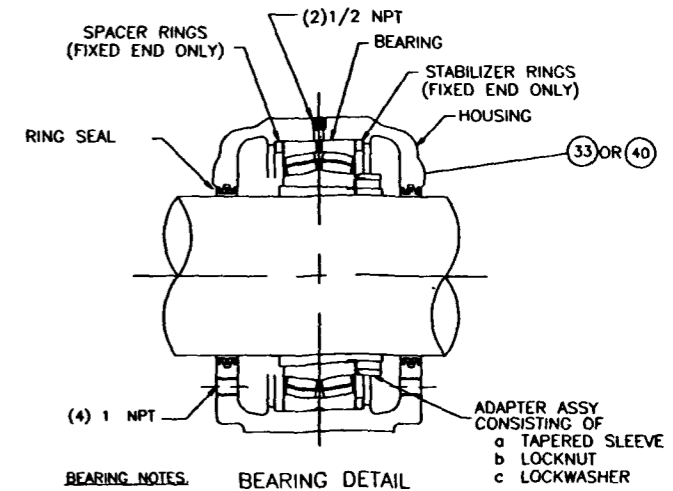
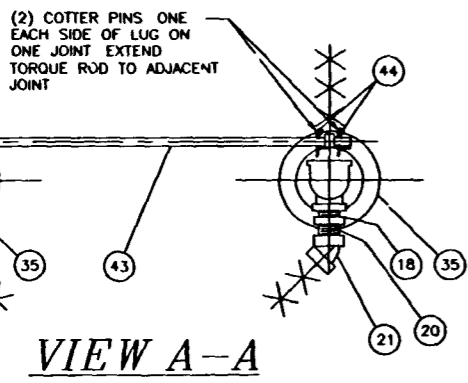
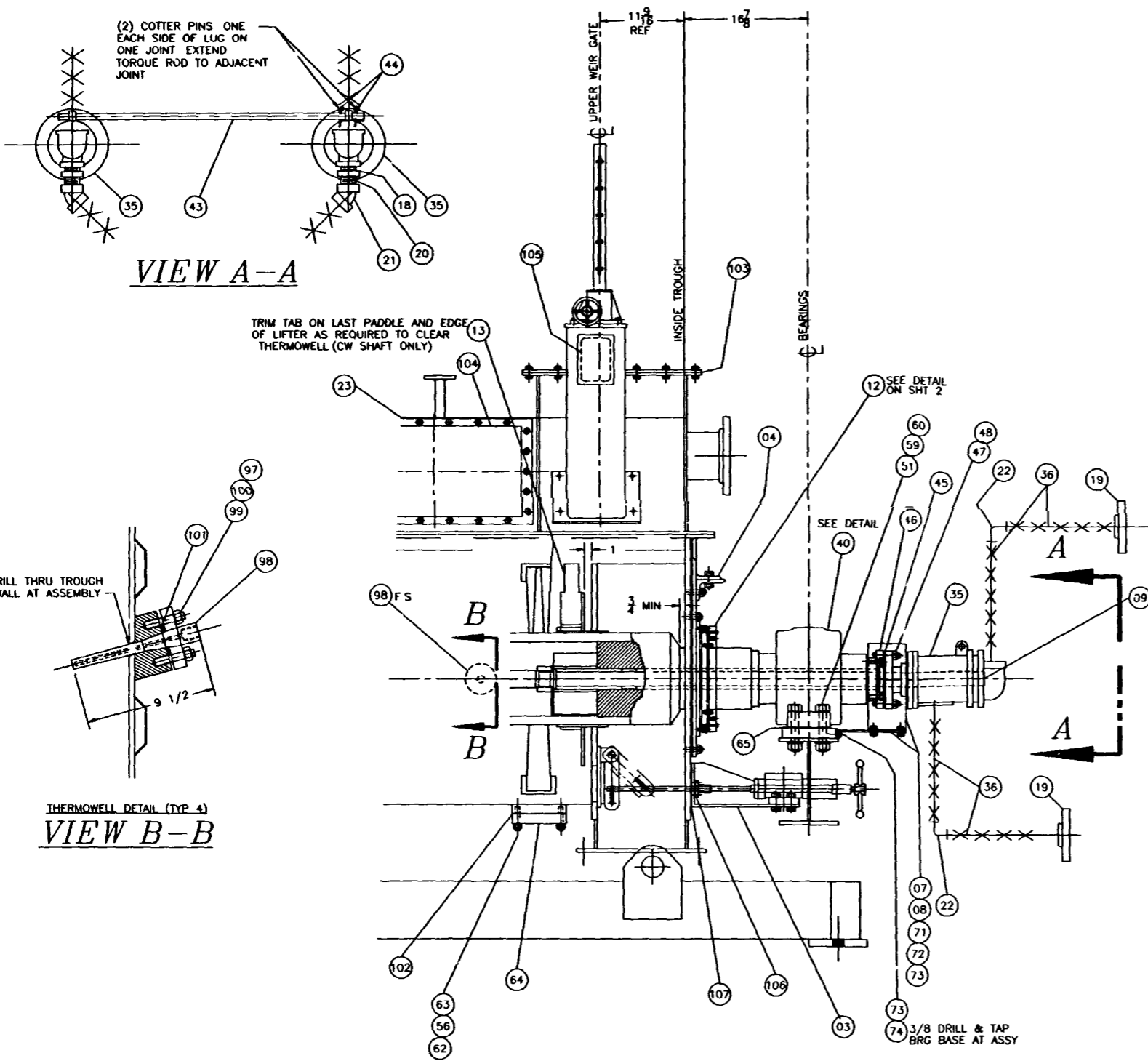
SEE SHEET 1 FOR REVISIONS

QTY	DATE	BY	APPR	DESCRIPTION
2	8	8	8	8

TITLE		SHOP ASSEMBLY		
DESIGNED		DRW	CHECKED	APPROVED
DATE		RT	JLB	JLB
SCALE		KOMLINE-SANDERSON		REFERENCE
1/2-1 0		ENGINEERING CORPORATION		DWG NO
		PEAPACK N J		D0258-10000D
				SHT
				2
				OF
				3

QTY	MATERIAL LIST		D0258-10000D
01	PART/CDL NO.	ITEM	DESCRIPTION

FOR MATERIALS SEE SHEET 1 & 2



- BEARING NOTES.**
- BEFORE MOUNTING BEARING INSERT A THICKNESS GAUGE BETWEEN THE MOST INTERNAL UNLOADED ROLLER AND THE OUTER RACE ROLLER PATH TO DETERMINE INTERNAL RADIAL CLEARANCE OF BEARING MAKE A NOTE OF THIS MEASUREMENT POSITION SLEEVE AND FORCE BEARING ON SLEEVE UNTIL THE ABOVE NOTED RADIAL CLEARANCE IS REDUCED 0.0030 - 0.0040
 - FLOAT END BEARING MOUNTED ON THE EXPANSION END IS SUPPLIED WITH A 1 FLOAT POSITION BEARING ON SHAFT WITHIN THE HOUSING SUCH THAT THE SHAFT CAN EXPAND AT LEAST 1

NOTE
 1/8 DRILL THRU ONE WALL OF PACKING NUT AND PIPE AFTER PACKING NUT IS TIGHTENED (SEE MFR'S INSTALLATION INSTRUCTIONS) ITEM - 09 (INNER PIPE) SHOULD BE 1/4 PAST END OF PACKING NUT REMOVE PACKING NUT AND OPEN UP 1/8 COTTER PIN HOLE IN PIPE TO 1/4

- GENERAL NOTES.**
- AFTER ALIGNMENT IS COMPLETE MATCH DRILL & PIN AS FOLLOWS
 - (2) PLACES AT DRIVE END TROUGH SUPPORT
 - (4) PLACES AT TROUGH END COVERS
 - (2) PLACES AT DRIVE BASE SEE DWG D0258-70000D
 - BOLTS (ITEM 67) TO BE HAND TIGHTENED AT NON-DRIVE END TROUGH SUPPORT ONLY PAINT HEAD OF BOLT YELLOW AT INSTALLATION
 - LUBRICATION
 FILL GEAR CASE & CHAIN GUARD TO HALF SIGHT GLASS LEVEL WITH SHELL VALUATA J 680 OR EQUAL
 - READ MANUFACTURERS INSTALLATION INSTRUCTIONS CAREFULLY PRIOR TO INSTALLING SHAFT SEALS
 - DRILL END OF CW SHAFT 3/4 DIA x 1/2 DP FOR ITEM 91

#93123

FOR REVISIONS SEE SHEET 1

NOTE
 PRINT MAY BE REDUCED SIZE.
 CHECK BEFORE SCALING DIMENSIONS
 +-----+
 ONE INCH

TITLE		SHOP ASSEMBLY	
DESIGNED		RF	
DATE		2-3-00	
SCALE		1 1/2 = 1-0	
DRAWN		RF	
CHECKED		JLB	
APPROVED		JLB	
DWG. NO.		D0258-10000D	
SHT		3	
OF		3	

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Komline-Sanderson Engineering Corporation 100 Holland Ave. Peapack, NJ 07977
(Name and address of Manufacturer)

2. Manufactured for Hoechst Celanese Corporation, Highway 77 South, Bishop, TX 78343
(Name and address of Purchaser) # 93123 (JKT)

3. Location of installation Hoechst Celanese Corporation, Highway 77 South, Bishop, TX 78343
(Name and address)

4. Type: Horizontal Jacketed Vessel D-258
(Horiz., vert., or sphere) (Tank, separator, jkt. vessel, heat exh., etc.) (Mfg's serial No.)
----- D0258-20002DC 1102 2000
(CRN) (Drawing No.) (Nat'l. Bd. No.) (Year built)

5. ASME Code, Section VIII, Div. 1 1998 A98 Code Case No. ----- Special Service per UG-120(d)
Edition and Addenda (date)

Items 6 - 11 incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multi-chamber vessels.

6. Shell (a) No. of course(s): 2 (b) Overall length (ft & in.): 10'-3/4"

Course(s)	Material	Thickness	Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
			Norm.	Corr.	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
No. Diameter, in. Length (ft. & in.)	Spec./Grade or Type									
1 *Sec Remarks 5'-6-1/2"	SA-240Tp.304	.105"	0"	--	---	---	---	---	---	---
1 " 4'-6-1/4"	SA-240Tp.304	.105"	0"	--	---	---	---	---	---	---

7. Heads: (a) ----- (b) -----
(Mat'l Spec. No., Grade or Type) H.T.-Time & Temp. (Mat'l Spec. No., Grade or Type) H.T.-Time & Temp.

Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
	Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a) -----	---	---	---	---	---	---	---	---	---	---	---	---	---
(b) -----	---	---	---	---	---	---	---	---	---	---	---	---	---

If removable, bolts used (describe other fastening) -----
(Mat'l Spec. No., Grade, size, No.)

8. Type of jacket Fig. 9-7 Jacket closure Fig. 9-5(b-2)
(Describe as ogee & weld, bar, etc.)

If bar, give dimensions ----- If bolted, describe or sketch.

9. MAWP 165 ----- psi at max. temp. 425 ----- °F Min. design metal temp. -20 °F at 165 psi.
(internal) (external) (internal) (external)

10. Impact test NO, CHARPY IMPACT TEST EXEMPT PER UHA-51(d)
(Indicate yes or no and the component(s) impact tested)

11. Hydro., pneu., or comb. test press. Hydrostatic 257 Proof test UG-101(m) bursting test procedure 1,750psi AI acceptance date 7/23/98
Items 12 and 13 to be completed for tube sections.

12. Tubesheet: ----- ----- ----- ----- -----
Stationary (Mat'l Spec. No.) Dia., in. (subject to press.) Norm. thk., in. Corr. Allow., in. Attachment (welded or bolted)

----- ----- ----- ----- -----
Floating (Mat'l Spec. No.) Dia., in. Norm. thk., in. Corr. Allow., in. Attachment

13. Tubes: ----- ----- ----- ----- -----
Mat'l Spec. No., Grade or Type O.D., in. Norm. thk., in. or gauge Number Type (Straight or U)

Items 14 - 18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell (a) No. of course(s): 2 (b) Overall length (ft & in.): 12'-7"

Course(s)	Material	Thickness	Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
			Norm.	Corr.	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
No. Diameter, in. Length (ft. & in.)	Spec./Grade or Type									
1 *Sec Remarks 6'-3-1/2"	SA-240Tp.316L	3/8"	0"	--	---	---	---	---	---	---
1 " 6'-3-1/2"	SA-240Tp.316L	3/8"	0"	--	---	---	---	---	---	---

15. Heads: (a) ----- (b) -----
(Mat'l Spec. No., Grade or Type) H.T.-Time & Temp. (Mat'l Spec. No., Grade or Type) H.T.-Time & Temp.

Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
	Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a) -----	---	---	---	---	---	---	---	---	---	---	---	---	---
(b) -----	---	---	---	---	---	---	---	---	---	---	---	---	---

If removable, bolts used (describe other fastening) -----
(Mat'l Spec. No., Grade, Size, No.) Platcom 10-98E98

FORM U-1 (Back)

16. MAWP psi at max. temp. °F. Min. design metal temp. °F at psi.
 (internal) (external) (internal) (external)

17. Impact test
 (Indicate yes or no and the component(s) impact tested)

18. Hydro., pneu., or comb. test press. Proof test

19. Nozzles, inspection, and safety valve openings:

Purpose (inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Material		Nozzle Thickness		Reinforcement Material	How Attached		Location (Insp. Open)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inlet	4	1"	CL150FLG.	SA312Tp.316L	SA182F 316L	.133"	0"	-----	UW16.2(k)	2-4(3a)	-----
Drain	4	1 1/2"	CL150FLG.	SA312Tp.316L	SA182F 316L	.145"	0"	-----	UW16.2(k)	2-4(3a)	-----

93123
 (JKT)

20. Supports: Skirt No Lugs ----- Legs ----- Others ----- Attached -----
 (Yes or No) (No.) (No.) (Describe) (Where and how)

21. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:
 (List the name of part, item number, mfg's. name and identifying number)

22. Remarks: *The jacket item 6, is welded to an open U shaped trough item 14. The width of the trough is 4'-10-1/8". The dimpled jacket design is calculated per UW-19(c), UG-50(b) and UG-47(a)(1). Pressure relief valve is not connected directly to the vessel per UG-125(g). 2 courses of the jacket, overall length 10'-3/4", are welded to one side of the trough and 2 courses of same overall length are welded to other side of the trough. For non lethal and non corrosive service.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

U Certificate of Authorization No. 3926 Expires March 31, 2001

Date 4-5-00 Name Komline-Sanderson Engineering Corporation Signed Anthony W. Colantano
 (Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of NJ and employed by HSB I&I Co. of Hartford, CT have inspected the pressure vessel described in this Manufacturer's Data Report on APR 05, 2000, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date APR 05 2000 Signed [Signature] Commissions NB 7050AB, NJ 476
 (Authorized Inspector) (Nat'l Board incl. endorsement, State, Province and No.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements on this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME Code, Section VIII, Division 1.

U Certificate of Authorization No. Expires

Date Name Signed
 (Assembler) (Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of and employed by of have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items , not included in the certificate of shop inspection, have been inspected by me and to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of psi. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Signed Commissions
 (Authorized Inspector) (Nat'l Board incl. endorsement, State, Province and No.)

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Komline-Sanderson Engineering Corporation 100 Holland Ave. Peapack, NJ 07977
 (Name and address of manufacturer)
 2. Manufactured for Hoechst Celanese Corporation Highway 77 South, Bishop, TX 78343
 (Name and address of purchaser) ** 93 / 23*
 3. Location of installation Hoechst Celanese Corporation Highway 77 South, Bishop, TX 78343
 (Name and address)
 4. Type: Horizontal D-258A ----- D0258-3000D 1105 2000
 (Horiz. or vert. tank) (Mfr's serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year built)
 5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1998

to A98 ----- ----- ----- ----- -----
 6. Shell: SA-106Gr.C 1.312" 1/16" 10-1/8" 11'-11"
 Addenda (Date) Code Case Nos. Special Service per UG-120(d)
 7. Seams: Seamless ----- 85% ----- ----- 1
 Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)
 Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (F) Time (hr) Girth (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Matl. SA-350 GR.LF2 (b) Matl. -----
 (Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) Ends	.579"	-----	-----	-----	-----	-----	-----	10.385"	Flat
(b) -----	-----	-----	-----	-----	-----	-----	-----	-----	-----

If removable, bolts used (describe other fastenings) -----
 9. MAWP: 165 psi at max. temp. 425 °F
 (Matl., Spec. No., Gr., Size, No.)
 Min. design metal temp. -20 of at 165 psi. Hydro., pneu., or comb. test pressure Hydrostatic 248 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
Inlet/Outlet/Drain	1	2-7/8"	*Shaft End	SA-350Gr.LF2	1-1/2"	-----	Bolted	-----

11. Supports: Skirt No Lugs ----- Legs ----- Other ----- Attached -----
 (Yes or no) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:
 (Name of part, item number, Mfr's. name and identifying stamp)
 *Shaft end is bored, end of shaft is drilled & tapped for six (6) 1/2" bolts to connect inlet, outlet & drain. Impact testing exempt per UHA-51(d) & UCS-66(a). Pressure relief valve is not connected directly to the vessel per UG-125(g). Twenty four (24) paddles constructed of SA-240 Gr.304 material are welded to the shell and are part of the pressure boundaries. For non corrosive & non lethal service.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 3926 expires March 31, 2001
 Date 4-28-00 Co. name Komline-Sanderson Engineering Corporation Signed Anthony W. Chantano
 (Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Komline-Sanderson Engineering Corporation at 100 Holland Ave. Peapack, NJ 07977
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of NJ and employed by HSB I&I Co. Hartford, CT have inspected the component described in this Manufacturer's Data Report on APR 28 2000, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date APR 28 2000 Signed [Signature] Commissions NB 7050AB, NJ 476
 (Authorized Inspector) (Nat'l Board incl. endorsements State, Prov. and No.)

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Komline-Sanderson Engineering Corporation 100 Holland Ave. Peapack, NJ 07977
 (Name and address of manufacturer)
 2. Manufactured for Hoechst Celanese Corporation Highway 77 South, Bishop, TX 78343
 (Name and address of purchaser)
 3. Location of installation Hoechst Celanese Corporation Highway 77 South, Bishop, TX 78343
 (Name and address)
 4. Type: Horizontal D-258B ----- D0258-30001D 1106 2000
 (Horiz. or vert. tank) (Mfr's serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year built)
 5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1998

93123

6. Shell: SA-106Gr.C 1.312" 1/16" 10-1/8" 11'-11"
 Addenda (Date) Code Case Nos. Special Service per UG-120(d)
 7. Seams: Seamless ----- 85% ----- ----- 1
 Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)
 8. Heads: (a) Matl. SA-350 GR.LF2 (b) Matl. -----
 (Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) Ends	.579"	-----	-----	-----	-----	-----	-----	10.385"	Flat
(b) ---	---	---	---	---	---	---	---	---	---

If removable, bolts used (describe other fastenings) -----
 9. MAWP: 165 psi at max. temp. 425 °F
 (Matl., Spec. No., Gr., Size, No.)
 Min. design metal temp. -20 of at 165 psi. Hydro., pneu., or comb. test pressure Hydrostatic 248 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
Inlet/Outlet/Drain	1	2-7/8"	*Shaft End	SA-350Gr.LF2	1-1/2"	-----	Bolted	-----

11. Supports: Skirt No Lugs ----- Legs ----- Other ----- Attached -----
 (Yes or no) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:
 (Name of part, item number, Mfr's name and identifying stamp)
 *Shaft end is bored, end of shaft is drilled & tapped for six (6) 1/2" bolts to connect inlet, outlet & drain. Impact testing exempt per UHA-51(d) & UCS-66(a). Pressure relief valve is not connected directly to the vessel per UG-125(g). Twenty four (24) paddles constructed of SA-240 Gr.304 material are welded to the shell and are part of the pressure boundaries. For non corrosive & non lethal service.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 3926 expires March 31, 2001
 Date 4-28-00 Co. name Komline-Sanderson Engineering Corporation Signed Anthony W. Calantone
 (Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Komline-Sanderson Engineering Corporation at 100 Holland Ave. Peapack, NJ 07977
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of NJ and employed by HSB I&I Co. Hartford, CT have inspected the component described in this Manufacturer's Data Report on APR 28 2000, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date APR 28 2000 Signed [Signature] Commissions NB 7050AB, NJ 476
 (Authorized Inspector) (Nat'l Board incl. endorsements State, Prov. and No.)

Certified Equipment Specifications

Customer: Hoechst Celanese Corporation

Rev: 0

K-S Job No.: D-258

27-Jan-00

Equipment: Komline-Sanderson Model 8W-400 Paddle Processor

General Description

K-S Model Number	8W-400	<i># 93123</i>
Heat Transfer Surface Area		
Jacket	107 ft ²	
Agitator	<u>293 ft²</u>	
Total	400 ft ²	
Working Volume	98 ft ³	
Heat Transfer Medium	Saturated Steam	
Design Pressure	165 Psig	
Design Temperature	425°F	
Material of Construction	316L Stainless Steel for all process contact surfaces, carbon steel non-contact surfaces	

Trough

Type	Omega shaped w/ dimple jacket
Jacket Design Pressure	165 Psig
Jacket Design Temperature	425°F
Trough Design Vent Pressure	5.0 Psig
Trough Material of Construction	316L Stainless Steel for all process contact surfaces, carbon steel non-contact surfaces
Trough Corrosion Allowance	1/32" on Process Contact Surfaces
Jacket Material of Construction	316 Stainless Steel
Jacket Corrosion Allowance	None
Construction	ASME Coded & N.B. Registered (Jacket Only)
Product Contact Surface Finish	Ground to 125 Ra (max.). Welds Ground smooth.
Bottom Discharge Opening	12" x 58" Flanged
Drain Connections	Two (2) 3" - 150# Flush Mounted Flanges
Steam Inlet Connections	Four (4) 1"-150# Flanges
Condensate Connections	Two (2) 1-1/2"-150# Flange
Thermocouple Connections	Four (4) 1"-150# Flanges
Thermowells	Four (4) 1"-150# Flanged Thermowells
Insulation	Insulation Clips Only, Insulation by Others
Weir Gates	Two (2) externally adjustable over flow gates, Two (2) externally operable underflow gates.
Weir Shaft Seals	Close fitting brass ring seal, with baffle disc and integral lifter on upstream side of weir.

By: JLB

Certified Equipment Specifications

Customer: Hoechst Celanese Corporation

K-S Job No.: D-258

Equipment: Komline-Sanderson Model 8W-400 Paddle Processor

Rev: 0

27-Jan-00

Agitators

Type	Discontinuous Wedge Shaped
Paddle Arrangement	Staggered
Agitator Design Pressure	165 Psig
Agitator Design Temperature	425°F
Paddle Material	316L SS
Shaft	Carbon Steel Pipe w/ 316L Stainless Sheathing Sheathing
Agitator Corrosion Allowance	1/32" on Process Contact Surfaces, 1/16" on on Internal Carbon Steel Shaft Surface
Construction	ASME Code Stamped & N.B. Registered
Product Contact Surface Finish	Ground to 125 Ra, Shaft to paddle weld ground smooth.
Heat Transfer Connection	Quick Disconnect Rotary Joints.
Agitator Removal	Vertical
Zero Speed Switch	Mounted on Drive End of Agitator.
Grounding	Provided on Both Agitators

Cover

Type	Vaulted
Jacketing/Tracing	None
Material of Construction	316L SS
Cover Corrosion Allowance	1/32" on Process Side Surfaces
Process Side Surface Finish	Ground to 125 Ra (max.). Welds Ground smooth.
Design Vent Pressure	5.0 Psig
Feed Opening	15" x 36" Flanged, N/R
Vapor Opening	12" Diameter Flanged, N/R
Explosion Vent Openings	Three (3) 18" x 24" Flanged
Sweep Gas Inlet	One (1) 6"-150# Flanged w/Cover
Access Hatch	One (1) 20" x 20" Square w/Bolted Cover
View Ports	Two (2) 6" dia. w/ slide gate and hinged glass.
Instrument Ports	Two (2) 1"-150# Flanged

Certified Equipment Specifications

Customer: Hoechst Celanese Corporation

Rev: 0

K-S Job No.: D-258

27-Jan-00

Equipment: Komline-Sanderson Model 8W-400 Paddle Processor

Painting

Stainless Steel Trough/Cover

Blast cleaned per Spec. SSPC-SP-6, apply two (2) coats of Sherwin Williams Flame Control #850 modified silicone finish to a dry film thickness of 1 to 2 mil. Color-Black 17038.

Carbon Steel Base/Guards

Blast cleaned per Spec. SSPC-SP-10, apply one (1) primer coat of Sherwin Williams Zinc Clad II B69V3-B69D11 Inorganic Primer to a dry film thickness of 2.0 to 3.5 mil. Apply one (1) intermediate coat of Sherwin Williams Tile Clad II Polyamide Epoxy to a dry film thickness of 4.0 to 6.0 mils. Apply one (1) finish coat of Sherwin Williams B65 Series/B60V30 Polyurethane to a dry film thickness of 2.0 to 3.0 mils. Color-Medium Gray 16314.

Purchased Components

Machined and non-ferrous surfaces will not be painted. Purchased equipment such as motors, bearings and reducers will be furnished with Vendors standard paint system.

Certified Equipment Specifications

Customer: Hoechst Celanese Corporation

Rev: 0

K-S Job No.: D-258

27-Jan-00

Equipment: Komline-Sanderson Model 8W-400 Paddle Processor

Shaft Seals

Type Meco Systems Self-Aligning, Externally Adjustable, Fully Split Elastomer Seal.
Purge Port Provided.

Rotary Joints

Type Self Supporting, Quick Disconnect
Quantity Two (2)
Accessories Eight (8) 1-1/2" Flexible Hoses with 1-1/2"-150# Flanges
Manufacturer Johnson

Bearings

Type Spherical Roller
Housing Pillow Block Suitable for Oil Lubrication
Lubrication Circulating Oil Lubrication System Provided

Drive

Motor One (1) Reliance 75 HP, High Efficiency Motor, 1.15 S.F., TEFC, Class II, Group "G", Division 2, NEMA Design "B", 3/60/480v
Reducer SEW-Sanasalo Parallel Shaft w/1.5 S.F. based on Connected HP
Drive Components Shaft to Shaft - Spur Gears
Reducer to Agitator - Sprocket & Chain.
Motor to Reducer - V-belt
Shaft Speed Approximately 12 RPM

Gasketing

Type White Silicone

Base

Type Carbon Steel Structural Tubing
Base Corrosion Allowance 1/8"
Grounding Tabs Provided