

MANUFACTURER'S DATA

Opinion or comments given are for gen'l in-
formation only. Vendor's responsibility remains

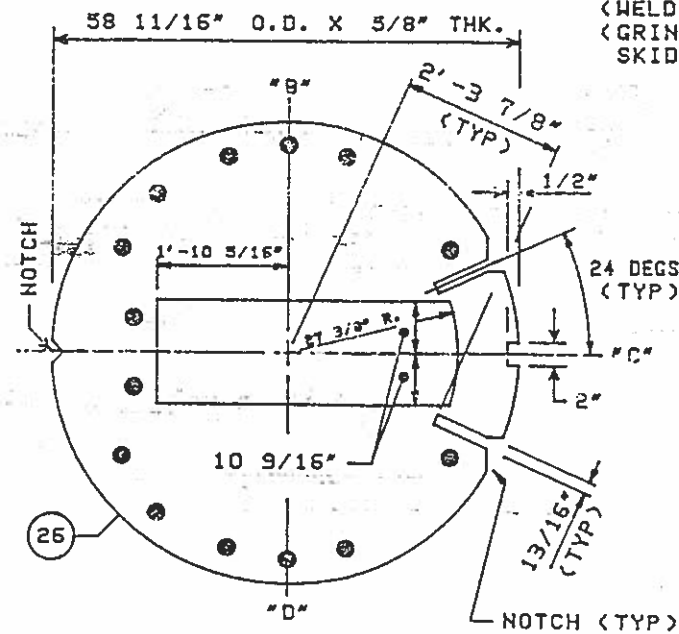
DATE: 6-13-89 PERFORMED INSPECTION 6-13-89

Checked by: WHL PO

☒ Approved as drawn

☐ Approved as noted

John Brown E & C Inc.
Houston TX 77049



1/2" Ø TIE RODS		3/4" OD SPACERS	
QTY	LENGTH	QTY	LENGTH
10	19' - 3 1/8"	A	10 2' - 10"
4	2' - 0 5/8"	B	4 1' - 8 3/8"
4	2' - 0 1/8"	C	4 1' - 1"
		D	10 1' - 11 3/8"
		E	50 2' - 3 7/8"
		F	10 2' - 3 3/8"
		G	4 10 1/4"
		H	4 1' - 5"

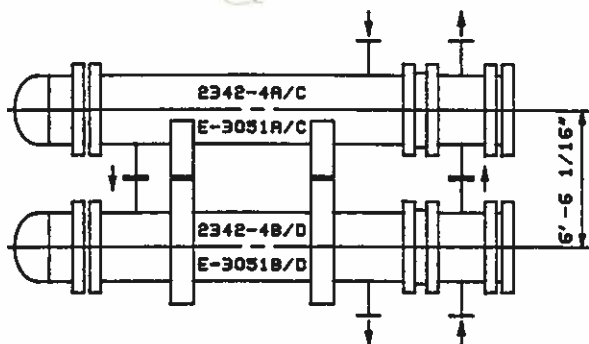
NOTES:

1. SEE SHT. NO. 6 FOR TIE ROD LOCATION.
2. DRILL TUBE HOLES IN BAFF'S. 49/64" Ø & DEBURR.
3. DRILL TIE ROD HLS IN BAFFS. 9/16" Ø.
4. PLUG SHELL FOR DIA. BEFORE BUNDLE ASSEMBLY.

P.O. NO: JB-88H022-21.14		JB-88H022 21.14-	
ITEM NO: E-3051 A/D		ITEM E-3051	
WORSHAM ENTERPRISES, INC. TULSA, OKLAHOMA			
SIZE 59-240	TYPE AETR	DWG. BUNDLE DRAWING	
DWN. SK	CHK. T	DATE 1-20-89	DWG. NO. 2342-4-7

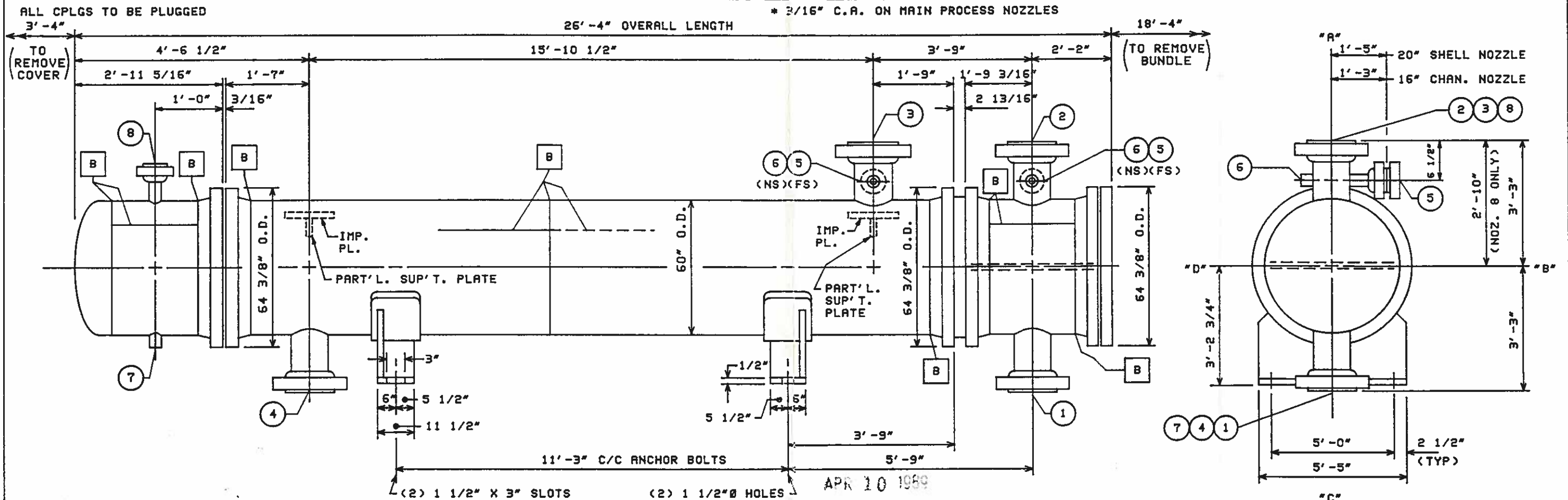
F-033051C BUNDT/E-01

MK.	NOZZLE	SIZE-SERIES
1	TUBE INLET	16"-150# RFSO
2	TUBE OUTLET	16"-150# RFSO
3	SHELL INLET	20"-150# RFSO
4	SHELL OUTLET	18"-150# RFSO
5	TH W/BLD.	1 1/2"-150# RFSO
6	PG	1"-6000# CPLG.
7	DRAIN	1"-6000# CPLG.
8	VENT	1 1/2"-150# RFSO



STACKING ARRANGEMENT
STACKING BOLTING, GASKETS & SHIMS
FURNISHED BY WEI

DESIGN	SHELL	TUBE	CUSTOMER: JOHN BROWN E&C INC./LYONDELL PETROCHEMICAL CO.
MAWP (HOT & CORRODED)	185	79	DESTINATION: CHANNELVIEW, TEXAS
LIMITED BY	FLG. AT TSHT	CHAN. COVER	
DESIGN PRESSURE (P.S.I.)	185	75	PURCHASE ORDER NO: JB-88H022-21.14
TEST PRESSURE (P.S.I.)	278	119	CUST. ITEM NO: E-3051A AND E-3051C
DESIGN TEMP. (°F.)	230/-20	150/-20	SERVICE: BD COLUMN - I OVERHEAD CONDENSER
CORROSION ALLOW. (IN.)	1/8" *	1/8" *	WEIGHTS EACH: DRY- 66500 WET- 97650
NUMBER OF PASSES	1	2	BUNDLE- 47600
HEAT TREATMENT	NONE	NONE	NUMBER OF UNITS REQUIRED: TWO
RADIOGRAPH: ☒ FULL ☒ SPOT ☒ NONE ☒ N/A SYMBOLS NOT SHOWN: ☒ OR ☒			



SANDBLAST PER SSPC-SP6 AND APPLY 4 MILS DFT OF DUPONT CORLAR
#825HB HIGH BUILD EPOXY PRIMER

MANUFACTURER'S DATA	
Approval or comments given are for govt or arrangement only Vendor's responsibility remains for design, performance and details.	
Contract <u>JB-88H022</u> Item <u>E-3051A/C</u> Date <u>10/1/89</u>	
Checked by <u>FS</u>	
☒ Approved as drawn	<u>5</u>
☐ Approved as noted	
John Brown E&C Inc.	
HOUSTON	TEXAS

- NOTES:
- ALL BOLT HOLES TO STRADDLE E'S.
 - BUILT IN ACCORDANCE W/ ASME CODE
SECT. (VIII), DIV.1 AND SO STAMPED.
 - TEMA "B"
 - PAINT: SEE ABOVE
 - TUBES: (2819) 3/4" O.D. X .085" (MIN) X 20'-0" LG. (SA-214); PITCH=15/16" T30
 - GASKETS: 1/8" AIDJNAF (KLINGER C-4401) (ONE SPARE SET PER EXCH. REQ'D.)
 - MATERIAL: CHAN=SA-516-70; SHELL=SA-516-70; FLO.HD.=SA-516-70
 - CUSTOMER INSPECTION REQ'D: YES X NO

REV.	DATE	DESCRIPTION
2	3-4-89	REV TUBESIDE DESIGN TEMP BJ/TH
1	1-27-89	ADD PARTIAL SUPT PL. AND REVISE VENT/CUST TH/T
REVISIONS		

JOHN BROWN E & C
JB-88H022 - 2114-16-2
ITEM E-3051A/C

CERTIFIED CORRECT FOR FABRICATION
BY Tene D. Warren DATE 1-10-89

WORSHAM ENTERPRISES, INC.			
TULSA, OKLAHOMA			
DWN. <u>tw</u>	CHK. <u>B.J.</u>	DIMENSIONAL ASSEMBLY DRAWING	
SIZE <u>59-240</u>	TYPE <u>RETR</u>	DATE <u>1-10-89</u>	DWG. NO. <u>2342-4-1A</u>
			REV <u>2</u>

F-033051C FAR OUTLINE-20

PREL. DATE _____
FINAL DATE 2-28-89

BILL OF MATERIAL

CUSTOMER JOHN BROWN E&C INC./LYONDELL BY TW/S DATE _____
DESCRIPTION 59-240 AETR PAGE 3 OF 3

ITEM	NAME OF PART	QUAN	REQUIRED, DESCRIPTION OF 1	TYPE OF MATERIAL	P	C	P.O.	DATE	SUPPLIER/TAKE FROM	PROM.	REC'D	COMMENTS
71	SUPPORTS	2	PL. 1'-1 1/2" X 1/4" X 15'-9 5/16" ARC. LG. (CYL. 60" I.D. X 1/4" X 1'-1 1/2" LG. - SPLIT INTO 2 HALVES)	SA-36		2						
72	SUPPORTS	2	PL. 5'-5" X 1/2" X 6'-1 3/4" LG. (BACK)	A-36		2						
73	SUPPORTS	4	PL. 11" X 1/2" X 8 5/8" LG. (RIBS) (CUT FROM LINE 72 DROP-USE ENGINEERING SKETCH)	A-36		2						
74	SUPPORTS	4	PL. 11" X 1/2" X 1'-2 15/16" LG. (RIBS) (CUT FROM LINE 72 DROP-USE ENGINEERING SKETCH)	A-36		2						
75	SUPPORTS	4	PL. 11" X 1/2" X 5 15/16" LG. (RIBS) (CUT FROM LINE 72 DROP-USE ENGINEERING SKETCH)	A-36		2						
76	SUPPORTS	4	PL. 11" X 1/2" X 1'-0 3/16" LG. (RIBS) (CUT FROM LINE 72 DROP-USE ENGINEERING SKETCH)	A-36		2						
77	SUPPORTS	4	PL. 11" X 1/2" X 6'-1 3/4" LG. (RIBS)	A-36		2						
78	PART.SUPT.PL	4	PL. 4 3/8" X 5/8" X 3'-5 1/8" LG.	C'STL.		2						
79	AUX.NOZ.PIPE	1	PC. 1 1/2" XX-HVY (.400") SMLS PIPE X 4 1/2" LG.	SA-106-B		9						
80	AUX.NOZ.PIPE	2	PC. 1 1/2" XX-HVY (.400") SMLS PIPE X 2 3/4" LG.	SA-106-B		9						
81	AUX.NOZ.PIPE	2	PC. 1 1/2" XX-HVY (.400") SMLS PIPE X 9 3/8" LG.	SA-106-B		9						
82	AUX.NOZ.ELL	2	1 1/2" XX-HVY (.400") 90DEG. SMLS WELD ELL (LONG RADIUS)	SA-234-WPB		12						
83												
84			-----STACKING MATERIAL (TOTAL REQ'D FOR FOUR EXCHANGERS)-----			1						
85	SHIMS	8	PL. 11 1/2" X 1/4" X 5'-5" LG. (TOTAL REQ'D) (STACKING MATL)	C'STL		2						
86	SUP'T BOLTS	8	1 1/4" O.D. (7 THD.) MACH. BOLTS X 3 1/2" LG. W/ (1) HEX NUT & (1) WASHER EA. (TOTAL REQ'D) (STACKING MATL)	A-307		19						
87	STUDS	32	1" O.D. (8 THD.) STUDS X 5 1/2" LG. (FOR 16"-150# RF) (TOTAL REQ'D)	SA-193-B7		13						
88	STUDS	32	1 1/8" O.D. (8 THD.) STUDS X 6" LG. (FOR 18"-150# RF) (TOTAL REQ'D)	SA-193-B7		13						
89	NUTS	64	1" (8 THD.) HEX NUTS (FOR 16"-150# RF) (TOTAL REQ'D)	SA-194-2H		14						
90	NUTS	64	1 1/8" (8 THD.) HEX NUTS (FOR 18"-150# RF) (TOTAL REQ'D)	SA-194-2H		14						
91	GASKETS	4	1/16" THK. KLINGER C-4401 SERVICE SHT. (FOR 16"-150# RF) (TOTAL REQ'D) (BOX 2 FOR SHPMNT)			15						
92	GASKETS	4	1/16" THK. KLINGER C-4401 SERVICE SHT. (FOR 18"-150# RF) (TOTAL REQ'D) (BOX 2 FOR SHPMNT)			15						
93												
94												
95												
96												
97												
98												
99												
100												
101												
102												
103												
104												
105												

MANUFACTURER'S DATA

Approval or comments given for cert. or replacement only. Vendor's responsibility for design, performance and details.

Contract No. JB-88H022 Date 4/11/89

Checked by FS PO PO

Approved by John Brown E & C Inc. HOUSTON TEXAS

APR 10 1989

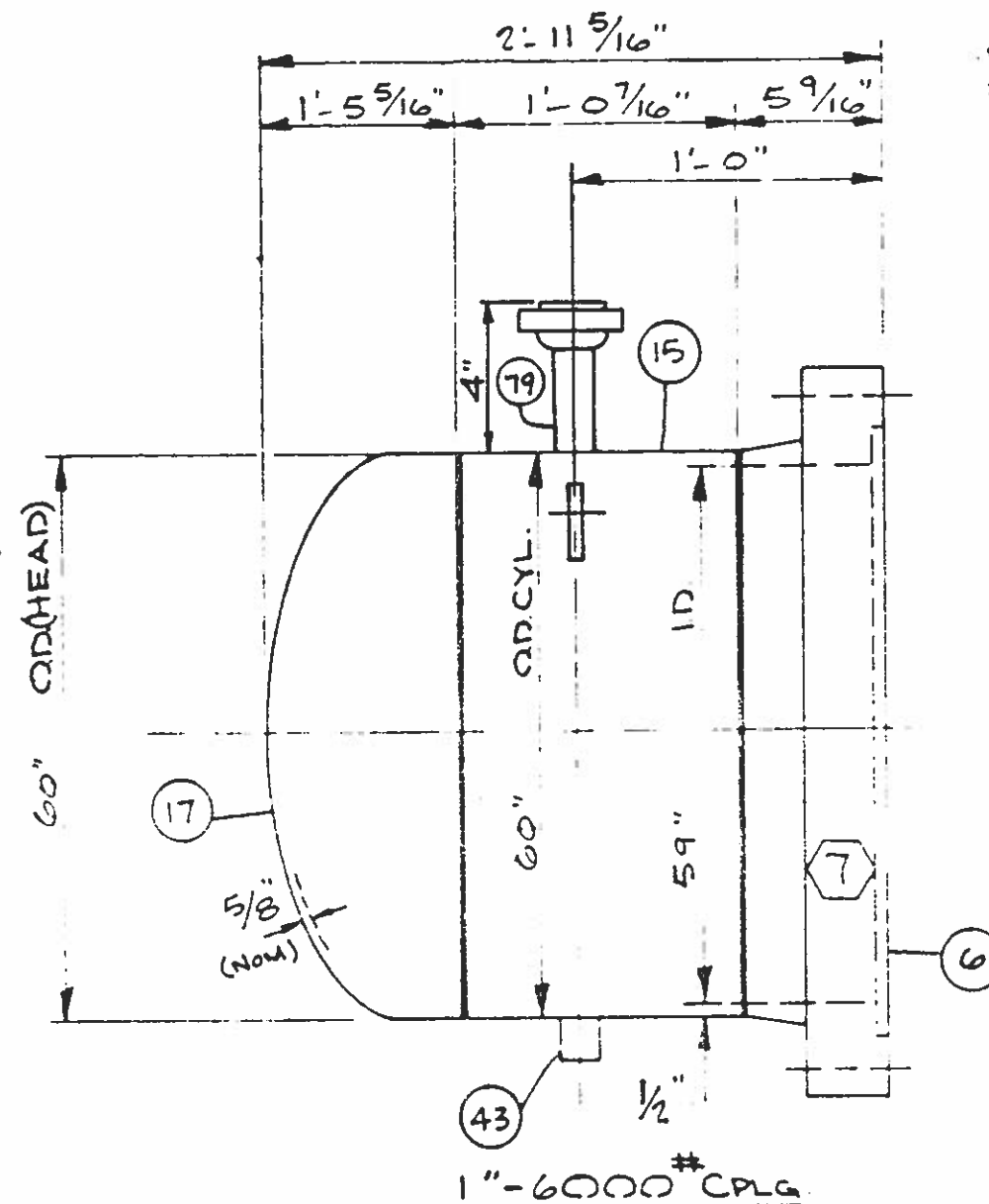
JOHN BROWN E & C
JB-88H022 - 2114 - 82 - 1
ITEM E-3051A-D

P.O. NUMBER JB-88H022-21.14
ITEM NO E-3051A-D

1	2-28-89	5
2	REV. NOZS & GSKTS/CUST TW/T	6
3		7
4		8

WORSHAM ENTERPRISES, INC.
TULSA, OKLAHOMA
DWG. NO. 2342-4-15 REV. 1 PAGE TOTAL

E-033051C BILL OF MATERIAL 203



1. ALL BOLT HOLES TO STRADDLE E.
2. SPOT RADIOGRAPH REQ'D. (SEE SHT. 1)
3. GRIND INSIDE WELDS SMOOTH.
4. SEE SHT. NO: 12 FOR WELD & FLANGE DETAILS.
5. USE WELD PROCEDURES: SEE SHT. 1C.

SHELL COVER
TWO - REQD. E-033051C SHELL COVER - 0/APR 10 1966

JOHN BROWN E & C
JB-88H022 - 2114-148-D
ITEM E-3051 A & C

P.O. No: JB-88H022-21.14			
ITEM No: E-3051 AEC			
WORSHAM ENTERPRISES, INC. TULSA, OKLAHOMA			
SIZE 59-240	TYPE AETR	DWG. SHELL COVER	
DWG. SK	CHK T	DATE 1-18-89	DWG. NO. 2342-4A-4

PREL. DATE _____

FINAL DATE 2-28-89

BILL OF MATERIAL

CUSTOMER JOHN BROWN E&C INC./LYONDELL

BY TW/S

DATE _____

DESCRIPTION 59-240 AETR

PAGE 1

OF

3

ITEM	NAME OF PART	QUAN	2 REQUIRED, DESCRIPTION OF 1	TYPE OF MATERIAL	P	C	P.O.	DATE	SUPPLIER/TAKE FROM	PROM.	REC'D	COMMENTS
1			BODY FLANGES			1						
2	CH.BODY FLG.	2	64 3/8" O.D. X 59" I.D. X 3 13/16" THK. (FIN.DIM.)	SA-105N	10							
3	CH.BODY FLG.	2	64 3/8" O.D. X 59" I.D. X 5 9/16" THK. (FIN.DIM.)	SA-105N	10							
4	SH.BODY FLG.	2	64 3/8" O.D. X 59" I.D. X 5 9/16" THK. (FIN.DIM.)	SA-105N	10							
5	SH.BODY FLG.	2	64 3/8" O.D. X 59" I.D. X 5 11/16" THK. (FIN.DIM.)	SA-105N	10							
6	SH.BODY FLG.	2	64 3/8" O.D. X 59" I.D. X 5 9/16" THK. (FIN.DIM.)	SA-105N	10							
7	FLO.HD.ANG.	2	58 5/8" O.D. X 54 1/2" I.D. X 4 1/8" THK. (FIN.DIM.)	SA-105N	10							
8												
9												
10												
11			CYLINDERS			1						
12	CH. CYL.	2	59" I.D. X 1/2" X 2'-9 3/4" LG. (PL. 33 3/4" X 1/2" X 187" WRAP) BEVEL PER BV2342-4	SA-516-70	4							
13	SH.CYL.	2	59" I.D. X 1/2" X 10'-0" LG. (PL. 120" X 1/2" X 187" WRAP) BEVEL PER BV2342-4	SA-516-70	4							
14	SH.CYL.	2	59" I.D. X 1/2" X 8'-3 9/16" LG. (PL. 99 9/16" X 1/2" X 187" WRAP) BEVEL PER BV2342-4	SA-516-70	4							
15	SH.CVR.CYL.	2	59" I.D. X 1/2" X 1'-0 7/16" LG. (PL. 12 7/16" X 1/2" X 187" WRAP) BEVEL PER BV2342-4	SA-516-70	4							
16			HEADS			1						
17	SHELL HEAD	2	60" O.D. X 5/8" NOM 2:1 ELLIP. W/ 2" S.F. (BEV. OUTSIDE 30DEG. W/ 1/4" LAND)	SA-516-70	5							
18	FLO. HD.	2	54 3/8" O.D. X 1" NOM D.O. HEAD W/ 52" I.D.R.	SA-516-70	5							
19												
20			CIRCLES			1						
21	CH. COVER	2	64 3/8" O.D. X 4 3/8" THK. (FIN.DIM.)	SA-516-70/SA-105N	3							
22	STA. TBSHT	2	60 7/16" O.D. X 3 7/16" THK. (FIN.DIM.)	SA516-70/SA266-2	3							
23	FLO. TBSHT	2	58 5/8" O.D. X 3 7/16" THK. (FIN.DIM.)	SA516-70/SA266-2	3							
24												
25	BATHLES	14	58 11/16" O.D. (F) X 5/8" THK.	C'STL.	6							
26	SUP'T. PL.	2	58 11/16" O.D. (F) X 5/8" THK.	C'STL.	6							
27												
28	STUDS	104	3/4" O.D. (10 THD.) STUDS X 8 5/8" LG.	SA-193-B7	13							
29	STUDS	160	3/4" O.D. (10 THD.) STUDS X 1'-1 1/2" LG.	SA-193-B7	13							
30	STUDS	160	3/4" O.D. (10 THD.) STUDS X 10 5/8" LG.	SA-193-B7	13							
31	STUDS	80	3/4" O.D. (10 THD.) STUDS X 9 1/4" LG.	SA-193-B7	13							
32	NUTS	1008	3/4" (10 THD.) HEX NUTS	SA-194-2H	14							
33			GASKETS PER DRAWING NO. 2342-4-8		15							
34	TUBES	5638	3/4" O.D. X .085" (MIN) X 20'-0" LG.	SA-214	X16							
35												

P.O. NUMBER JB-88H022-21.14

ITEM NO E-3051A-D

DIVISIONS

1

2

3

4

5

6

7

8

WORSHAM ENTERPRISES, INC.

TULSA, OKLAHOMA

DWG. NO.

2342-4-13

REV.

PAGE TOTAL

MANUFACTURERS DATA	
Insert or comment when on for part or	
Equipment only Vendor's responsibility	
Performance not shown	
Drawn by 11/1/88	PO 6-18-89
Approved as drawn	
Approved as noted	
John Brown E & C Inc.	
HOUSTON	

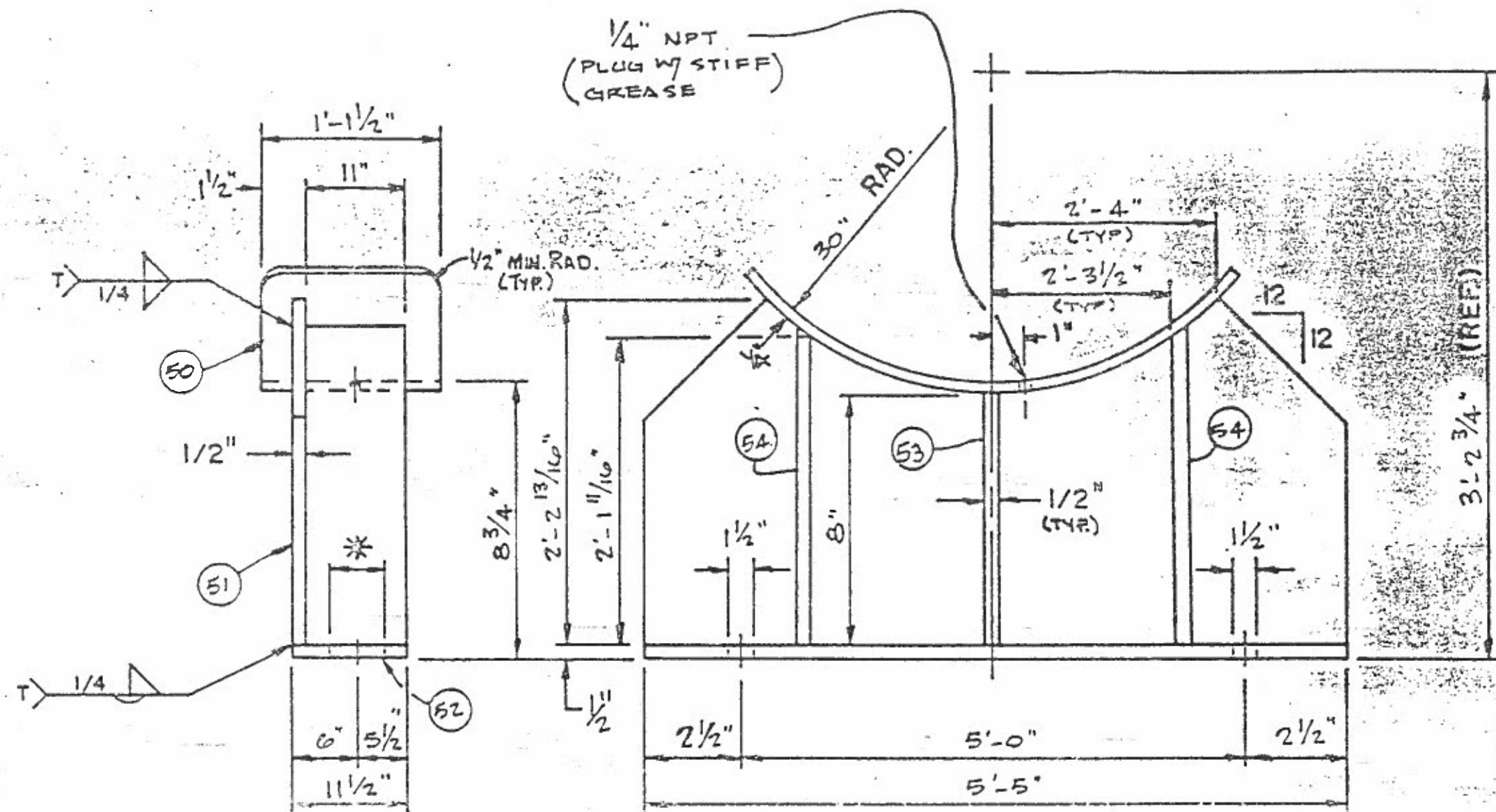
JUN 05 1989

JOHN BROWN E & C

JB-88H022 21.14-80-1

ITEM E-3051-A B.C.D

E-033051C BILL OF MATERIAL ~01

[illegible]

* { TWO REQ'D WITH (2) 1 1/2" Ø HOLES.
TWO REQ'D WITH (2) 1 1/2" X 3" SLOTS.

JUN 05 1989
JOHN BROWN E & C
JB-88H022 21-14-76-1
ITEM E-3051A/C

MANUFACTURER'S DATA

Approval or comments given are for pent arrangement only Vendor's responsibility remains for design, performance and details. *6-13-89*

Contract _____ Item _____ Date _____

Checked by *WAG* PO _____

☒ Approved as drawn

☐ Approved as noted

John Brown E & C Inc.

HOUSTON TEXAS

P.O. No: JB-88H022-21.14			
ITEM No: E-3051 A & E-3051 C			
WORSHAM ENTERPRISES, INC. TULSA, OKLAHOMA			
SIZE 59-240	TYPE AETR	DWG. SUPPORTS	
DWN SK	CHK. T	DATE 1-18-89	DWG. NO. 2342-4-10A REV

E-033051C SUPPORTS ~01

PREL. DATE _____
FINAL DATE 2-28-89

BILL OF MATERIAL

CUSTOMER JOHN BROWN E&C INC./LYONDELL
DESCRIPTION 59-240 AETR

BY TW/S _____
PAGE 2 OF 3

ITEM	NAME OF PART	QUAN	2 REQUIRED, DESCRIPTION OF 1	TYPE OF MATERIAL	P	C	P.O.	DATE	SUPPLIER/TAKE FROM	PROM.	REC'D	COMMENTS
36	SH.NOZ.FLG.	1	8"-150# RFSO	SA-105	11							
37	CH.NOZ.FLG.	4	16"-150# RFSO	SA-105	11							
38	SH.NOZ.FLG.	1	20"-150# RFSO	SA-105	11							
39	SH.NOZ.FLG.	2	18"-150# RFSO	SA-105	11							
40	CH.NZ.PIPE	4	PC. 16" X-HVY (.5") SMLS PIPE X 10 5/8" LG.	SA-106-B	9							
41	SH.NZ.PIPE	1	PC. 20" SCH.40 (.594") SMLS PIPE X 11 1/4" LG.	SA-106-B	9							
42	SH.NOZ.PIPE	2	PC. 18" SCH.60 (.75") SMLS PIPE X 11" LG.	SA-106-B	9							
43	CPLGS.	8	1"-6000" CPLGS W/ 3IN. LG. BAR STOCK PLUG.	SA-105	17							
44	SH.NOZ.PIPE	1	PC. 8" SCH.100 (.594") SMLS PIPE X 9 3/4" LG.	SA-106-B	9							
45	AUX.NOZ.FLG.	9	1 1/2"-150# RFSO	SA-105	11							
46	TIE RODS	432	LIN. FT. 1/2" DIA. ROD	C'STL	18							
47	SPACERS	432	LIN. FT. 3/4" O.D. SPACER TUBING	C'STL	16							
48	T.R. NUTS	88	1/2" HEX NUTS	C'STL	14							
49	AUX.BL.FLG.	6	1 1/2"-150# RF BLIND FLG.	SA-105	11							
50	SUPPORTS	2	PL. 1'-1 1/2" X 1/4" X 6'-2" ARC. LG. (WRAP)	SA-36	2							
51	SUPPORTS	2	PL. 2'-2 13/16" X 1/2" X 5'-5" LG. (BACK)	A-36	2							
52	SUPPORTS	6	PL. 11 1/2" X 1/2" X 5'-5" LG. (BASE)	A-36	2							
53	SUPPORTS	2	PL. 8" X 1/2" X 11" LG. (RIBS) (CUT FROM LINE 72 DROP-USE ENGINEERING SKETCH)	A-36	2							
54	SUPPORTS	4	PL. 11" X 1/2" X 2'-1 11/16" LG. (RIBS) (CUT FROM LINE 72 DROP-USE ENGINEERING SKETCH)	A-36	2							
55	AUX.NOZ.PIPE	6	PC. 1 1/2" XX-HVY (.4") SMLS PIPE X 7 3/4" LG.	SA-106-B	9							
56	PASS PL.	2	PL. 4'-10 7/8" X 5/8" X 3'-7 3/8" LG.	A-36	2							
57	WELD PAD	1	27 7/16" O.D.X 26 3/4" O.D.X 21 3/16" I.D.X 20 1/2" I.D.X 3/4" THK. (PL. 27 1/4" X 3/4" X 28" ARC LG.) (ROLL TO 30" INS. RAD.)	SA-516-70	2							
58	WELD PAD	2	24 5/16" O.D.X 23 3/4" O.D.X 19 1/16" I.D.X 18 1/2" I.D.X 3/4" THK. (PL. 24 1/4" X 3/4" X 24 3/4" ARC LG.) (ROLL TO 30" INS. RAD.)	SA-516-70	2							
59	WELD PAD	1	14" O.D.X 9 1/8" I.D.X 3/8" THK. (PL. 14 1/2" X 3/8" X 14 1/2" ARC LGTH.) (ROLL TO 30" INS. RAD.)	SA-516-70	2							
60	IMP.PL.	2	PL. 17 1/2" O.D. X 1/4" THK.	C'STL	2							
61	IMP. PL.	2	PL. 21" O.D. X 1/4" THK.	C'STL	2							
62	SEAL BAR	4	BAR 2" X 1/4" X 14'-0 5/8" LG.	C'STL	7							
63	SKID BAR	4	BAR 1 1/2" X 3/4" X 16'-5 1/8" LG.	C'STL	7							
64	PULL BOLTS	8	1 1/4" O.D. (8 THD.) PULL BOLT PLUGS X 3IN. LG.	C'STL	19							
65	AUX.STUDS	24	1/2" O.D. (13 THD.) STUDS X 3" LG. (FOR 1 1/2"-150# RF)	SA-193-B7	13							
66	LIFT LUGS	15	W.E.I. STD. PL. LIFT LUG (5/8" THK.)	A-36	2							
67	AUX.NUTS	48	1/2" (13 THD.) HEX NUTS (FOR 1 1/2"-150# RF)	SA-194-2H	14							
68		2	W.E.I. STD. NAME PL.	STN.STL.	2							
69		2	W.E.I. STD. NAME PL. BRK'T. (CHANNEL TYPE)	C'STL	2							
70	AUX.GASKETS	12	1/16" THK. KLINGER C-4401 (FOR 1 1/2"-150# RF) (BOX HALF OF THESE GSKTS FOR SHIPMENT)		15							

MANUFACTURERS DATA
Approval of comments given by for parts re-
placement only Vendor's responsibility remains
for design, performance and quality.
Checked by JBH/EPZ Date 4/1/89
PO
Approved by Client
Approved by notes
John Brown E & C Inc.
HOUSTON TEXAS

APR 10 1989
JOHN BROWN E & C
JB-88H022 - 2114-81-1
ITEM E-3051A-D

P.O. NUMBER JB-88H022-21.14
ITEM NO E-3051A-D

REVISIONS
1 2-28-89
REV. 45 & 70/CUST TW/T
2
3
4

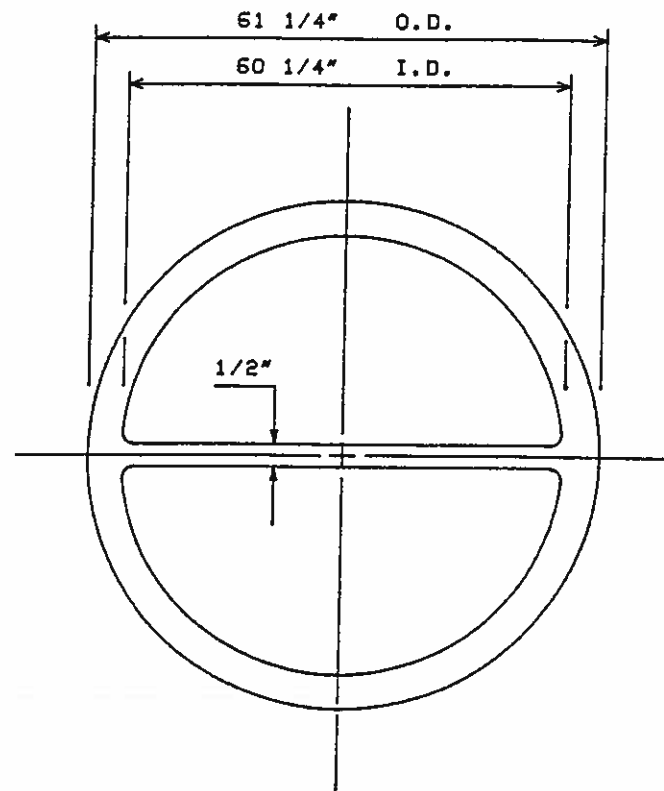
5
6
7
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WORSHAM ENTERPRISES, INC.
TULSA, OKLAHOMA
DWG. NO. 2342-4-14

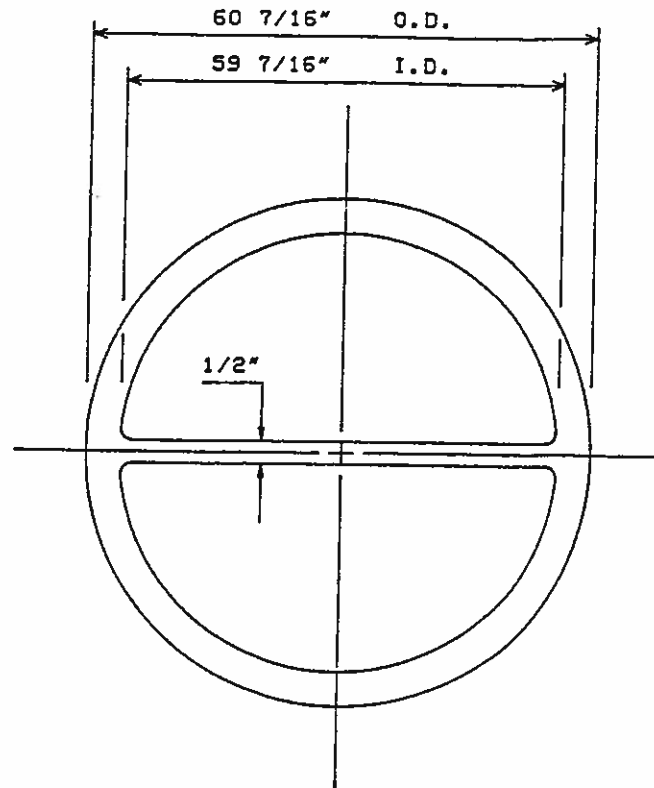
PAGE TOTAL
REV. 1

E-033051C BILL OF MATERIAL ~02

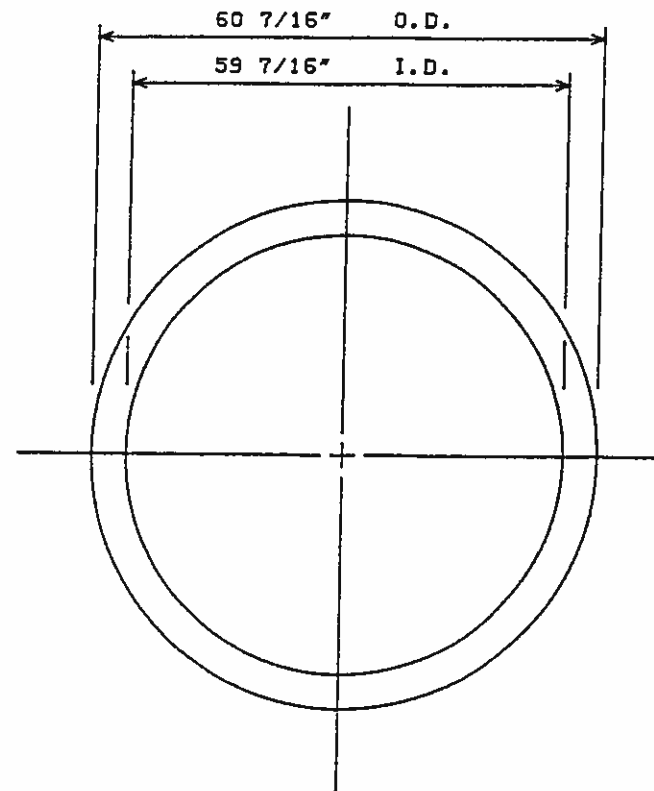
NO.		DATE		DESCRIPTION		TH/T	
1		12-88-89		REV. QTY./CUST			
1							



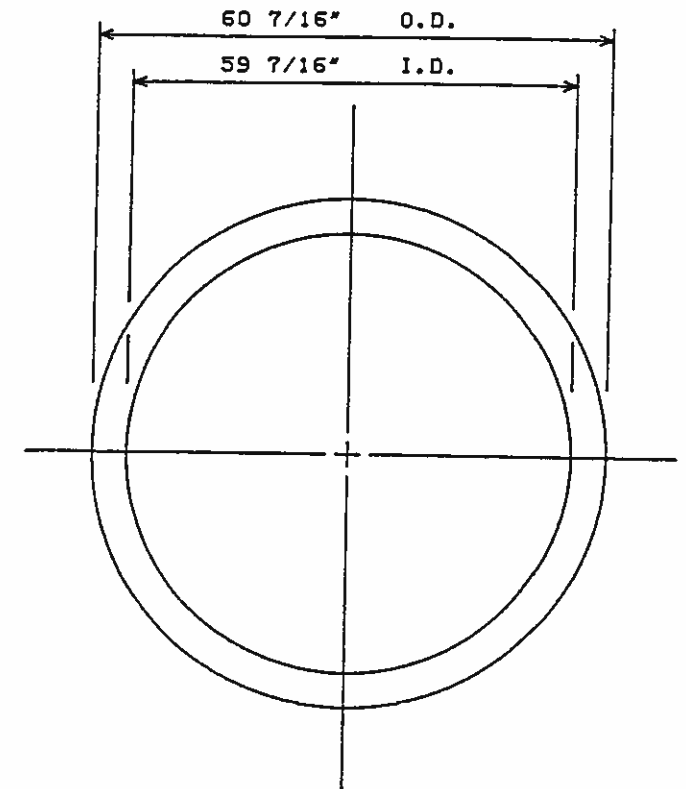
EIGHT - REQ'D.
CHAN. COVER GASKET
1/8" THK. ARMCO IRON DBL.
JACKETED KLINGER C-4401 FILLED



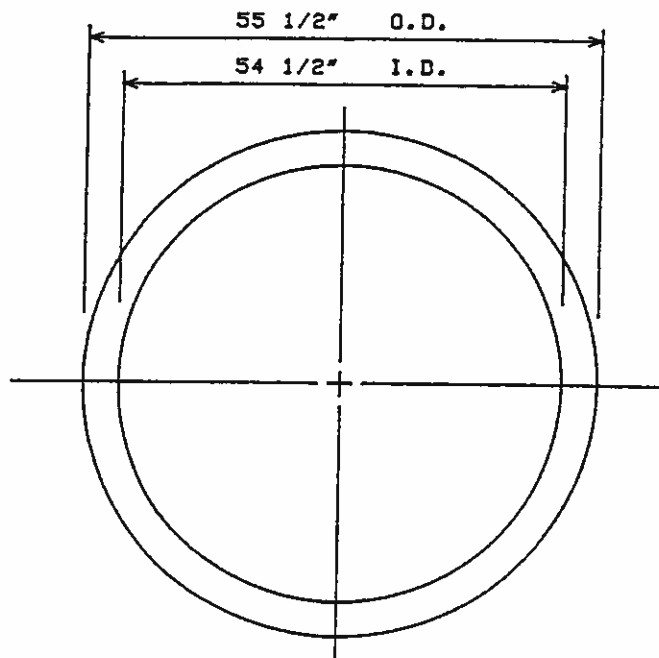
EIGHT - REQ'D.
CHANNEL GASKET
1/8" THK. ARMCO IRON DBL.
JACKETED KLINGER C-4401 FILLED



EIGHT - REQ'D.
SHELL GASKET
1/8" THK. ARMCO IRON DBL.
JACKETED KLINGER C-4401 FILLED



EIGHT - REQ'D.
SHELL COVER GASKET
1/8" THK. ARMCO IRON DBL.
JACKETED KLINGER C-4401 FILLED



EIGHT - REQ'D.
FLOATING HEAD GASKET
1/8" THK. ARMCO IRON DBL.
JACKETED KLINGER C-4401 FILLED

CONFIRM

NOTE: ALL RIB RADII TO BE 1/4" (MIN).

NOTE: ABOVE REPRESENTS EIGHT SETS OF GASKETS.

BOX FOUR SET(S) FOR SHIPMENT.

LEAVE REMAINING SET(S) LOOSE FOR INSTALLATION.

MANUFACTURER'S DATA	
Approval or comments given are for gen'l arrangement only Vendor's responsibility remains for design, performance and details	
Contract <u>JB-88H022</u>	Item <u>E-3051A</u> Date <u>4/1/89</u>
Checked by <u>PS</u>	PO <u>PO</u>
☒ Approved as drawn	
☐ Approved as noted	
John Brown E & C Inc. HOUSTON TEXAS	

APR 10 1989

JOHN BROWN E & C
JB-88H022 - 2114-74-1
ITEM E-3051A-D

E-033051C GASKETS ~01

P.O. NO: JB-88H022-21.14			
ITEM NO: E-3051A-D			
WORSHAM ENTERPRISES, INC. TULSA, OKLAHOMA			
SIZE 59-240	TYPE AETR	DWG. GASKET DETAILS	
DWN. <u>PS</u>	CHK. B.J.	DATE 1-10-89	DWG. NO. 2342-4-8