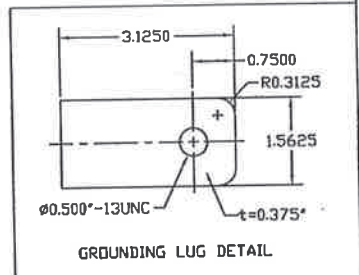
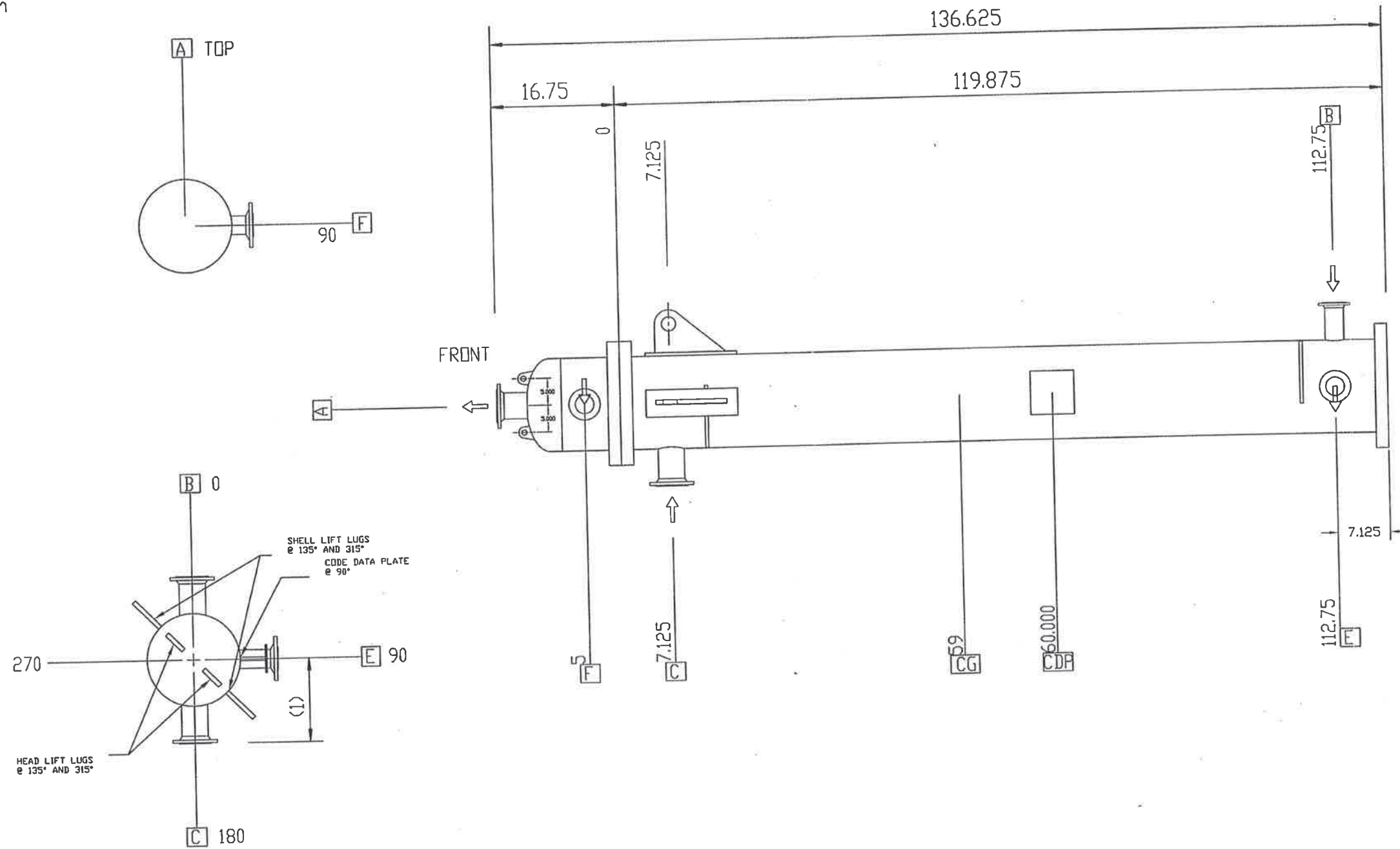


Dimensions: in



Nozzles		(1)	Couplings / Supports(2)		Design Specifications		Shell	Tube
Label	Size: Description	Project.	Label	Size: Description	Project.	Design Pressure	150/FV	75/FV
A	4" 150 # ANSI S.O.R.F	6	CDP	6"x6" Code Date Plate	14	psig	195	103
B	4" 150 # ANSI S.O.R.F	14				psig	-20	-20
C	4" 150 # ANSI S.O.R.F	14					300	300
E	2" 150 # ANSI S.O.R.F	14					1	1
F	2" 150 # ANSI S.O.R.F	14					0.0625	0.0
							None	None
							None	None
							ASME VIII-1 2004 A05	Setting Plan
							TEMA Type: BEM	
							Size: 15-120	Dwg No: E-2101 01A
							TEMA Class: C	Rev: 2

Company: DCR
 Location: Bunge-Ergon
 Mix Tank Vent Condenser
 Item No: E-2101
 Date: August 24, 2007 Job No: 7793

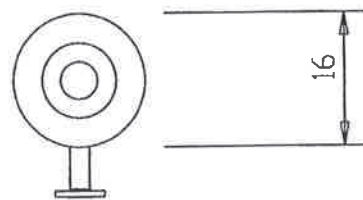
DCR Construction, Inc.
 Harlingen, TX

ASME VIII-1 2004 A05
 TEMA Type: BEM
 Size: 15-120
 TEMA Class: C

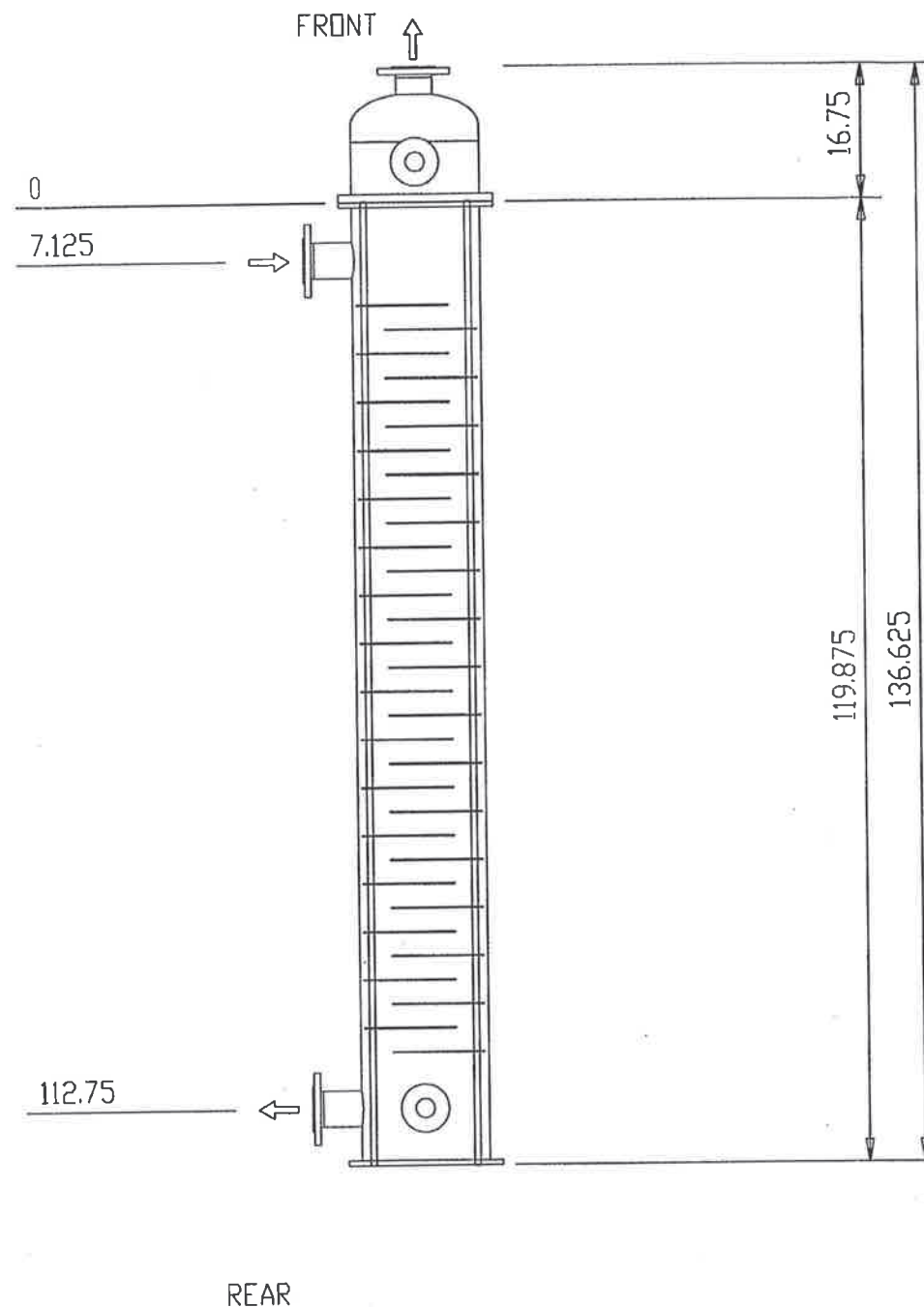
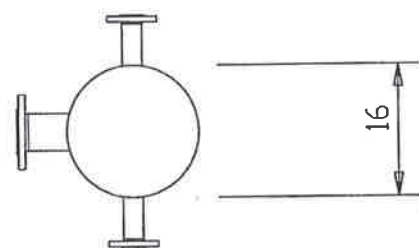
Setting Plan
 Dwg No: E-2101 01A
 Rev: 2

Dimensions: in

Front Head

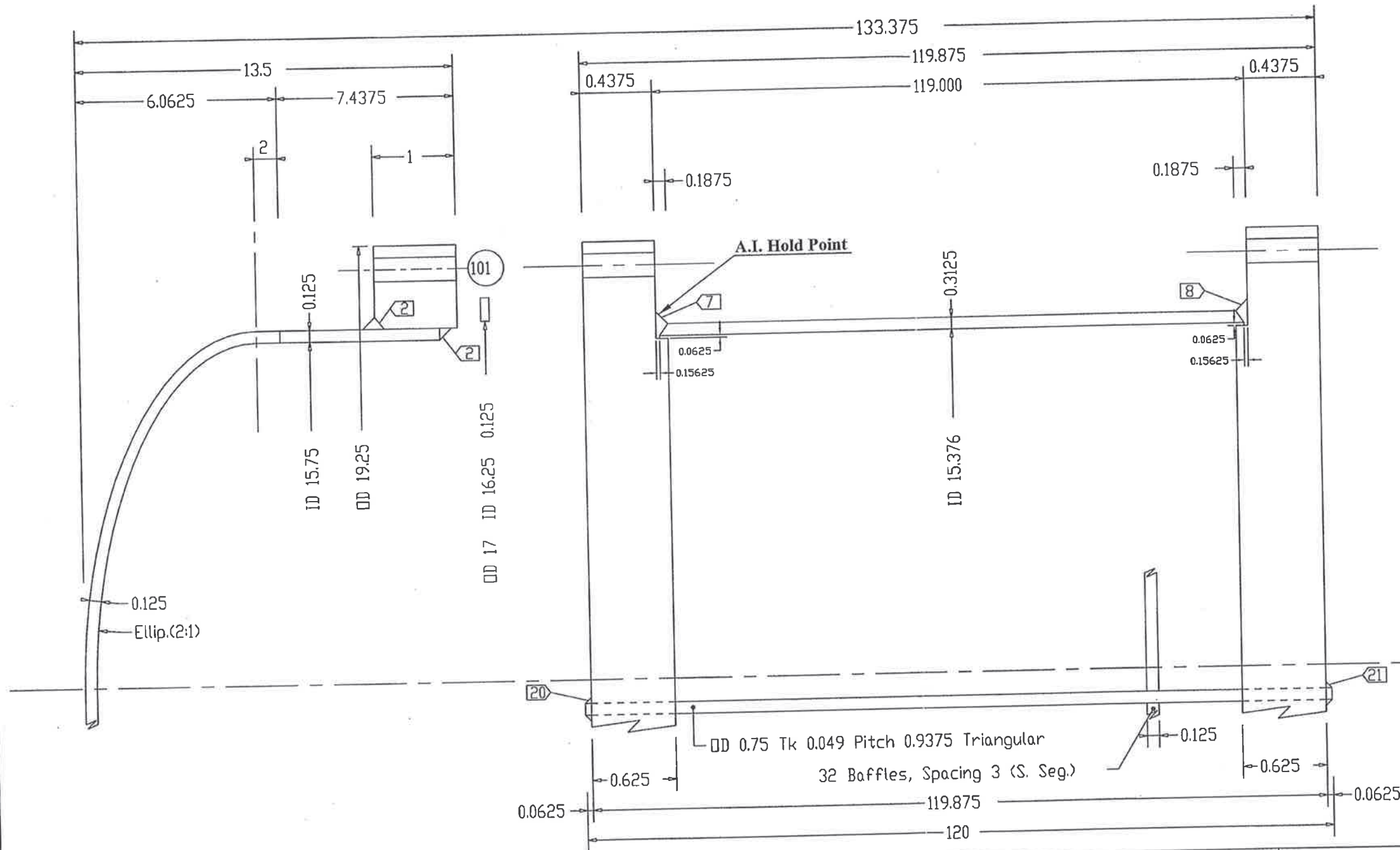


Shell



Nozzles (1)				Couplings / Supports(2)			Design Specifications			Shell	Tube	Company: DCR Location: Bunge-Ergon Mix Tank Vent Condenser Item No.: E-2101 Date: August 24, 2007 Job No.: 7793				
Label	Size	Description	Project.	Label	Size	Description	Project.	Design Pressure	psig	150/15	75/15				DCR Construction, Inc. Harlingen, TX	
A	4"	150 # ANSI S.O.R.F	6					Test Pressure	psig	195	103	ASME VIII-1 2004 A05 Setting Plan				
B	4"	150 # ANSI S.O.R.F	14					Design Temperature	F	300	300				TEMA Type: BEM Size: 15-120 TEMA Class: C	
C	4"	150 # ANSI S.O.R.F	14					Number of Passes		1	1	Dwg No.: E-2101 01B				
D	16"	150 # ANSI S.O.R.F	0					Corrosion Allowance	in	0.0625	0.0				Rev: 2	
E	2"	150 # ANSI S.O.R.F	14					Radiographing		None	None					
F	2"	150 # ANSI S.O.R.F	14					Wt Empty:	1712	Full:	2520				Bundle:	993 lb
								Rev:	Date:	Description	Dwg	Ckd	Appd			
								1	5/21	Removed Rear Head	RCM					
								2	8/24	Certified As-Built	RCM					

All Dimensions
In Inches



Notes:

Company: DCR
 Location: Bunge-Ergon
 Mix Tank Vent Condenser
 Item No: E-2101
 Date: August 24, 2007 Job No: 7793

DCR Construction, Inc.
 Harlingen, TX

Scale:

Ref	No	Bolt Dia.	Bolt Length	Bolt Circle	Bolt Hole
102	12	0.5	4	18	0.625
101	12	0.5	4	18	0.625

Bolting

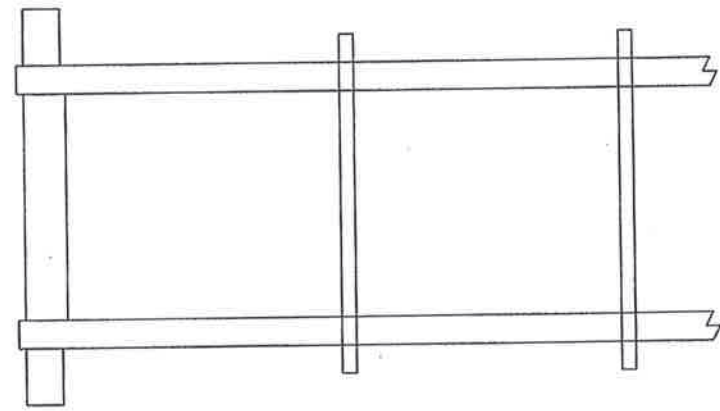
Rev:	Date:	Description	Dwg	Ckd	Appd
1	5/21	Removed Rear Head	RCM		
2	8/24	Certified As-Built	RCM		

ASME VIII-1 2004 A05	Sectional Plan
TEMA Type: BEM	
Size: 15-120	
TEMA Class: C	Dwg No: E-2101 03
	Rev: 2

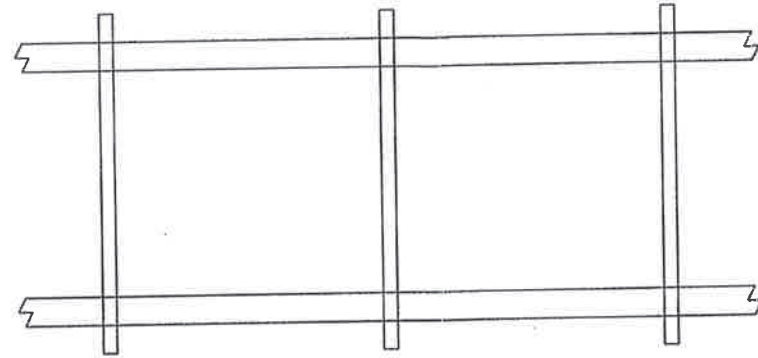
Dimensions: in

TEMA Type: E

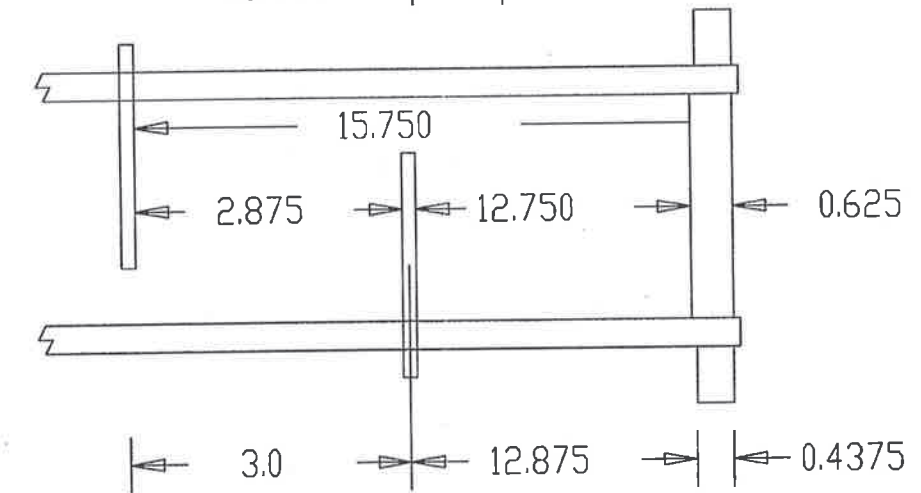
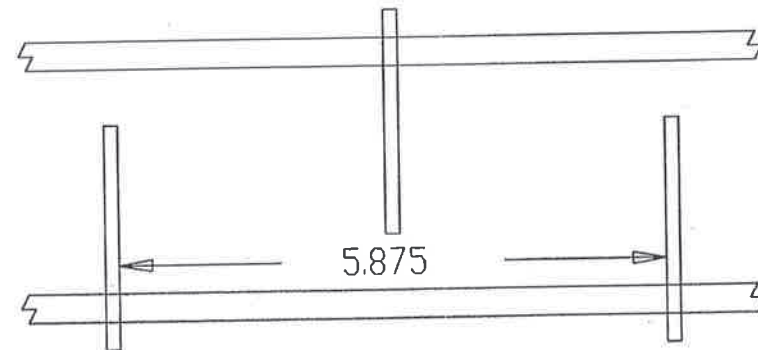
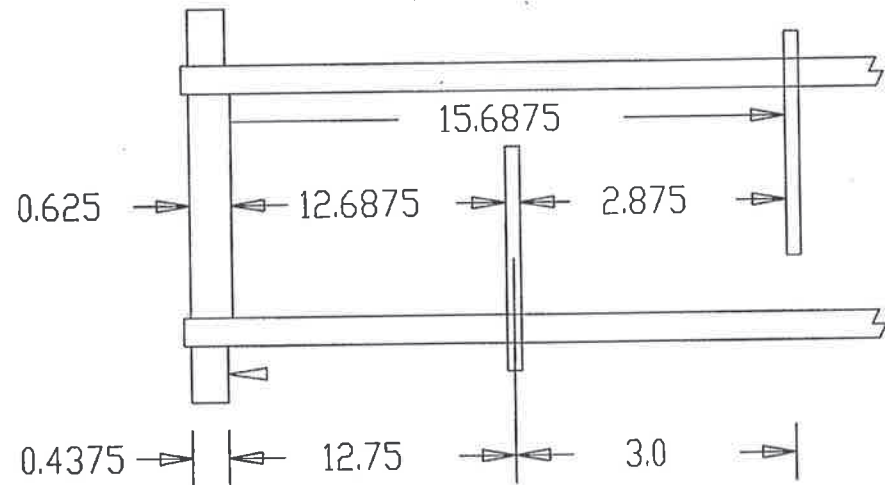
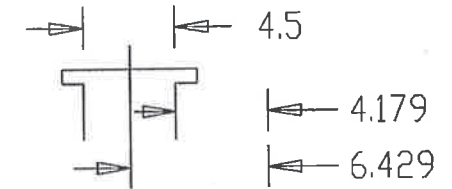
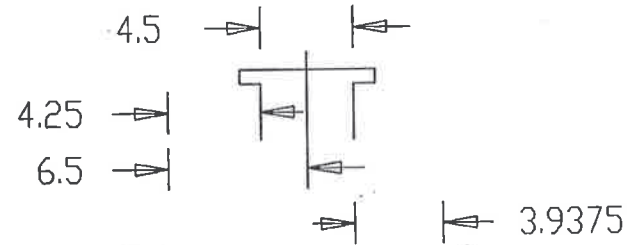
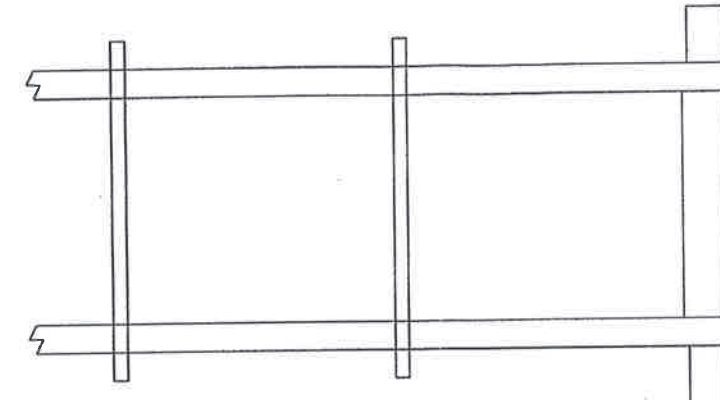
Front



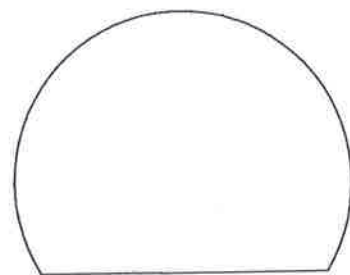
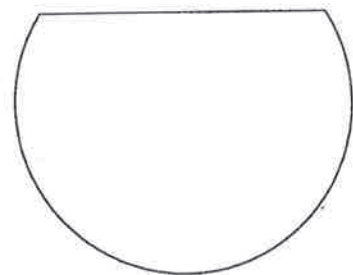
Top View



Rear



Side View



Baffles

Notes:
For Spacer Info Only

Company: DCR
Location: Bunge-Ergon
Mix Tank Vent Condenser
Item No: E-2101
Date: August 24, 2007 Job No: 7793

DCR Construction, Inc.
Harlingen, TX

Scale:

Rev:	Date:	Description	Dwg	Ckd	Appd
1	8/24	Certified As-Built	RCM		

ASME VIII-1 2004 A05
TEMA Type: BEM
Size: 15-120
TEMA Class: C

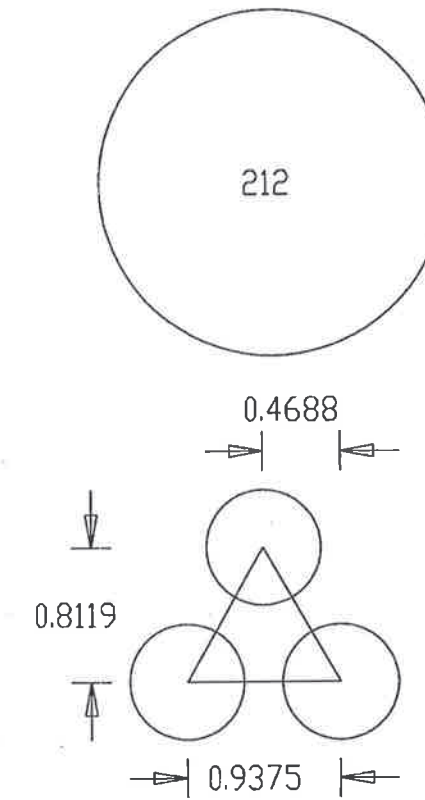
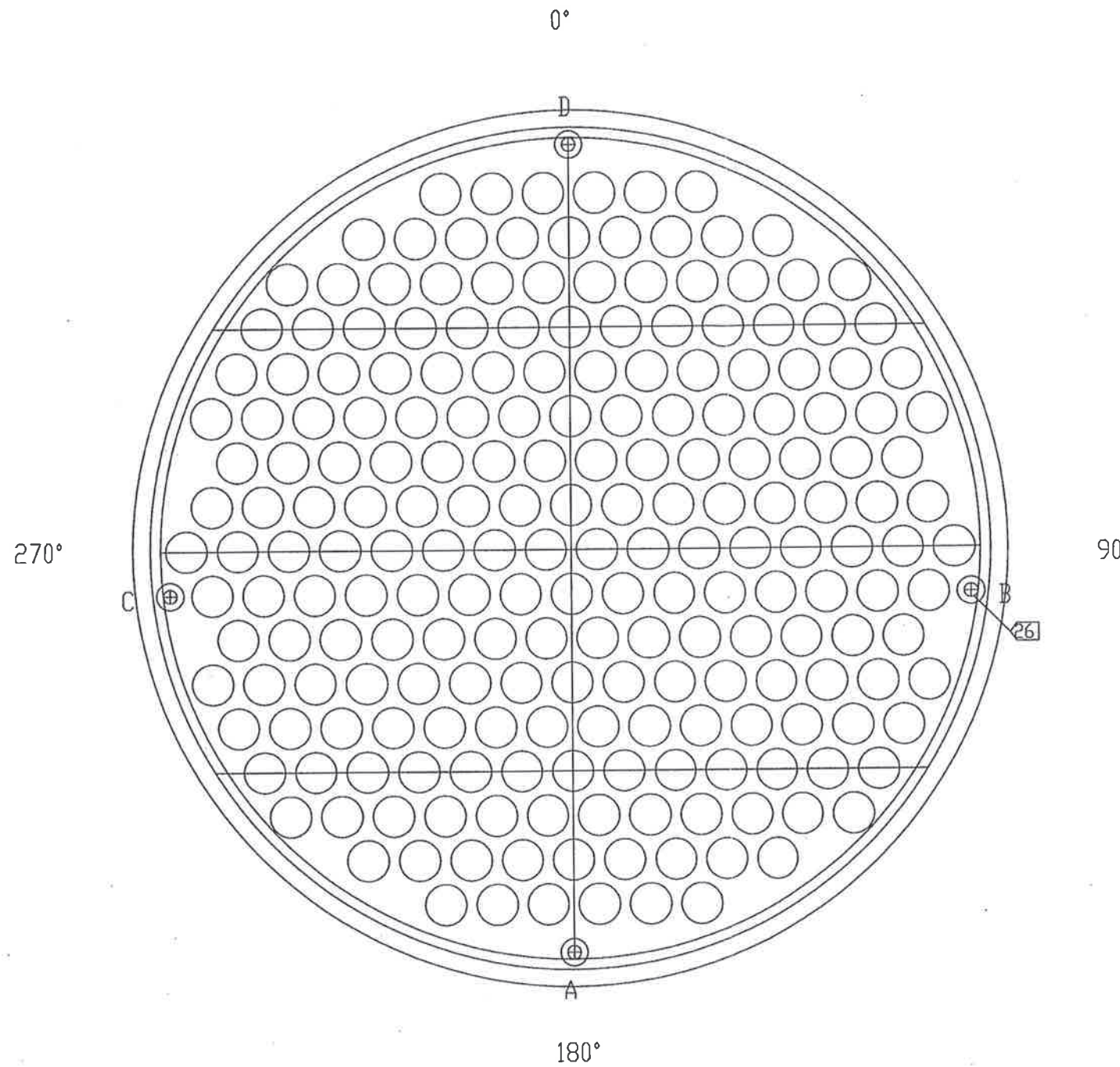
Bundle Detail

Dwg No.:
E-2101 04

Rev:
1

Shell ID 15.376 in
 O.T.L. 15.001 in
 Baffle cut to C/L 4.059 in

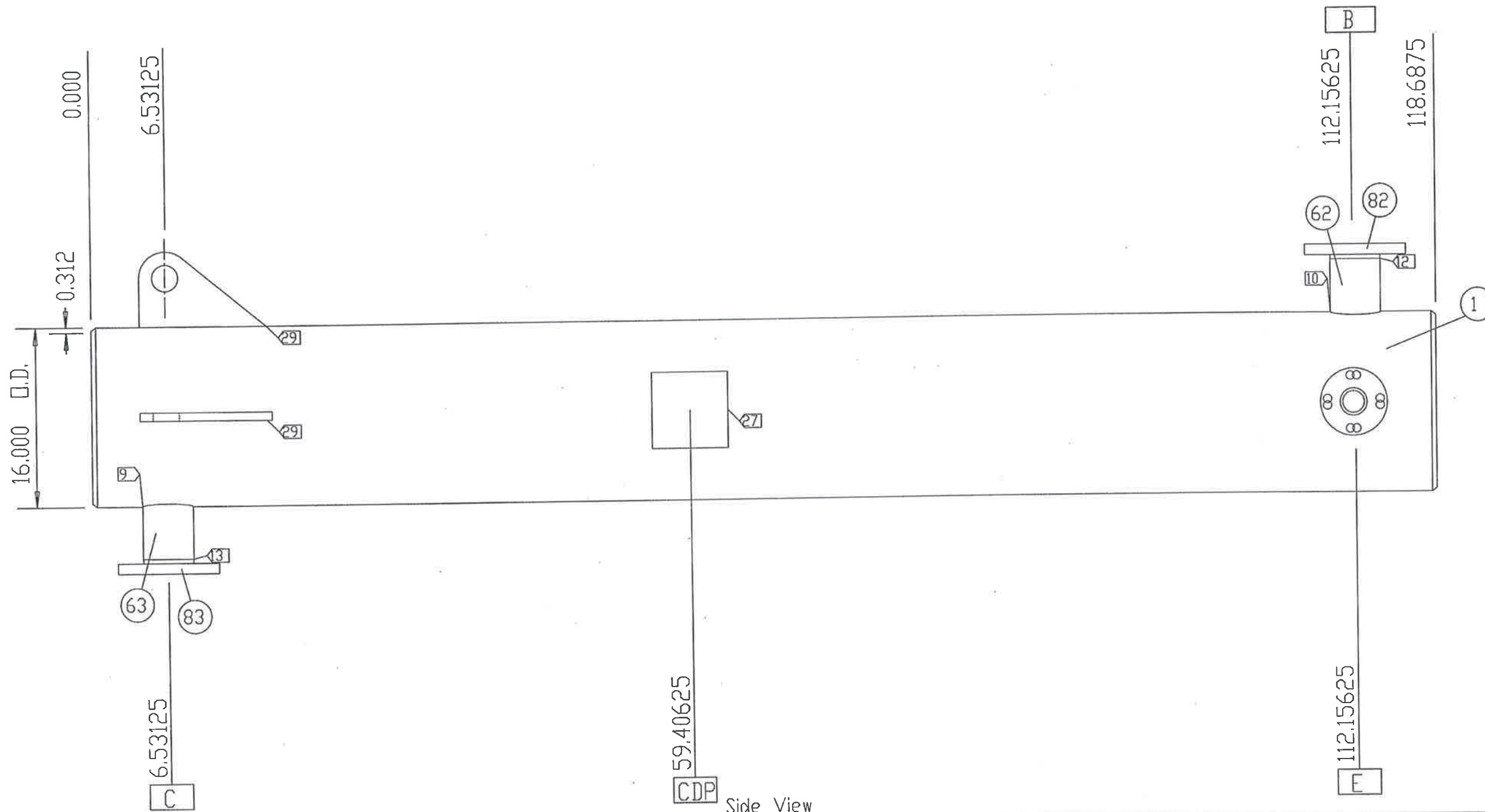
Row	Holes
17	6
16	9
15	12
14	13
13	14
12	15
11	14
10	15
9	16
8	15
7	14
6	15
5	14
4	13
3	12
2	9
1	6
	212



Design Specifications	
Number of Tube Holes	212
Tube Outside Diameter	0.75 in
Tube Pitch	0.9375 in
Tube Pattern	Triangular
Tube Passes	1
Number of Tie Rods	4
Tie Rod Diameter	0.25 in
Baffle Diameter	15.251 in
Baffle Type	Single Segmental
Baffle Cut	24%
Tube Thickness	0.049 in

Notes:						
Rev:	Date:	Description	Dwg	Ckd	Appd	
1	8/24	Certified As-Built	RCM			

Company: DCR	
Location: Bunge-Ergon	
Mix Tank Vent Condenser	
Item No: E-2101	
Date: August 24, 2007 Job No: 7793	
DCR Construction, Inc.	
Harlingen, TX	
ASME VIII-1 2004 A05	Tube Layout
TEMA Type: BEM	
Size: 15-120	Dwg No: E-2101 05
TEMA Class: C	Rev: 1



CDP Side View

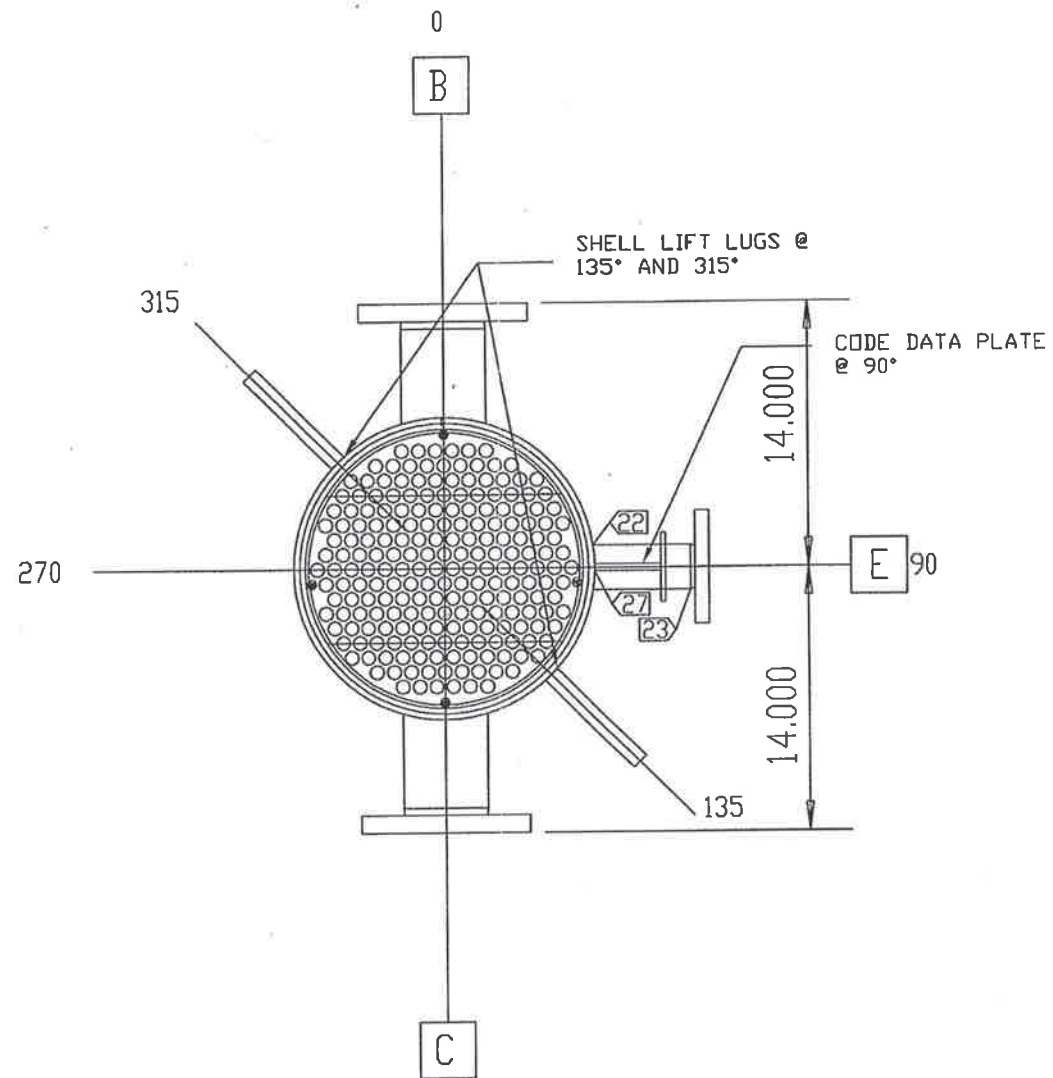
Notes:
 All Dimensions In Inches
 Bolt holes to straddle centerlines
 Weld joint details per drawing 20

Company: DCR
 Location: Bunge-Ergon
 Mix Tank Vent Condenser
 Item No: E-2101
 Date: August 24, 2007 Job No: 7793

DCR Construction, Inc.
 Harlingen, TX

Rev:	Date:	Description	Dwg	Ckd	Appd
1	8/24	Certified As-Built	RCM		

ASME VIII-1 2004 A05	Shell Detail	Dwg No: E-2101 06A	Rev: 1
TEMA Type: BEM			
Size: 15-120			
TEMA Class: C			



180
Front End View

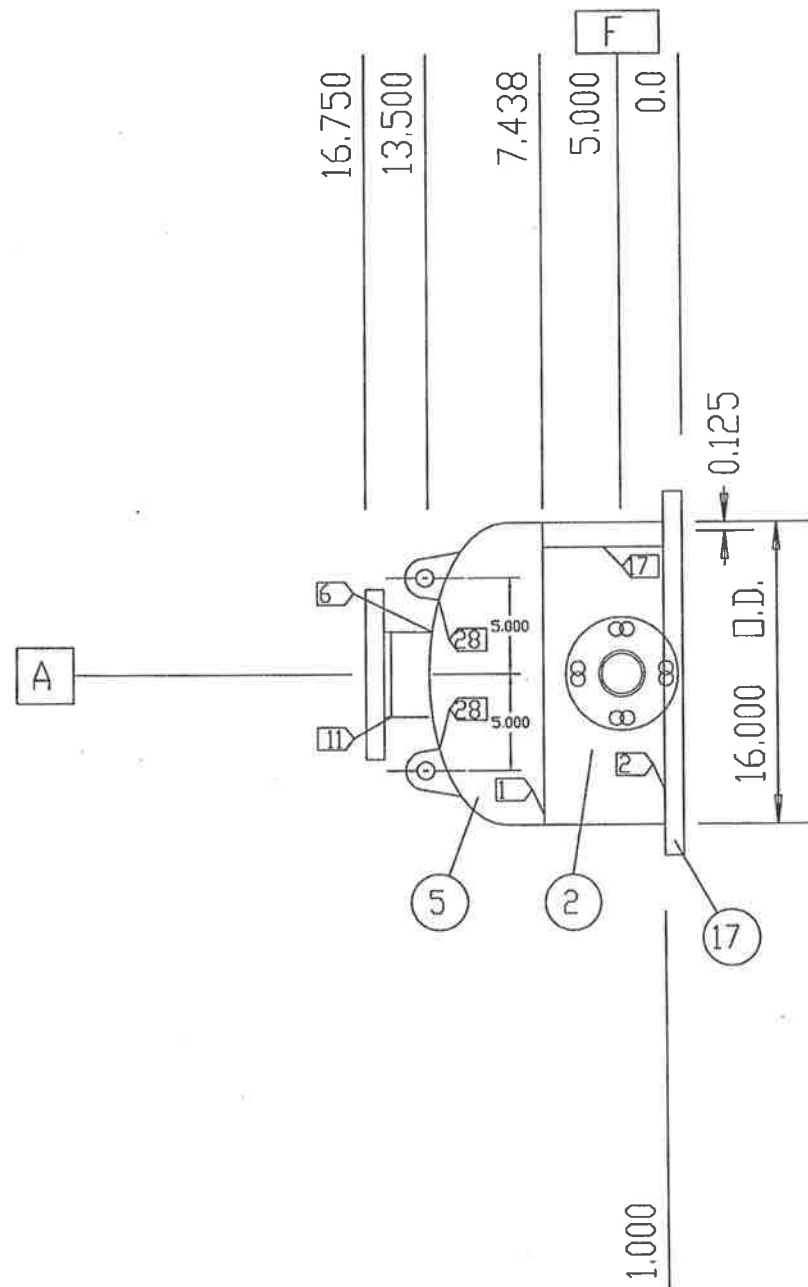
Notes:
All Dimensions In Inches
Bolt holes to straddle centerlines
Weld joint details per drawing 20

Company: DCR
Location: Bunge-Ergon
Mix Tank Vent Condenser
Item No: E-2101
Date: August 24, 2007 Job No: 7793

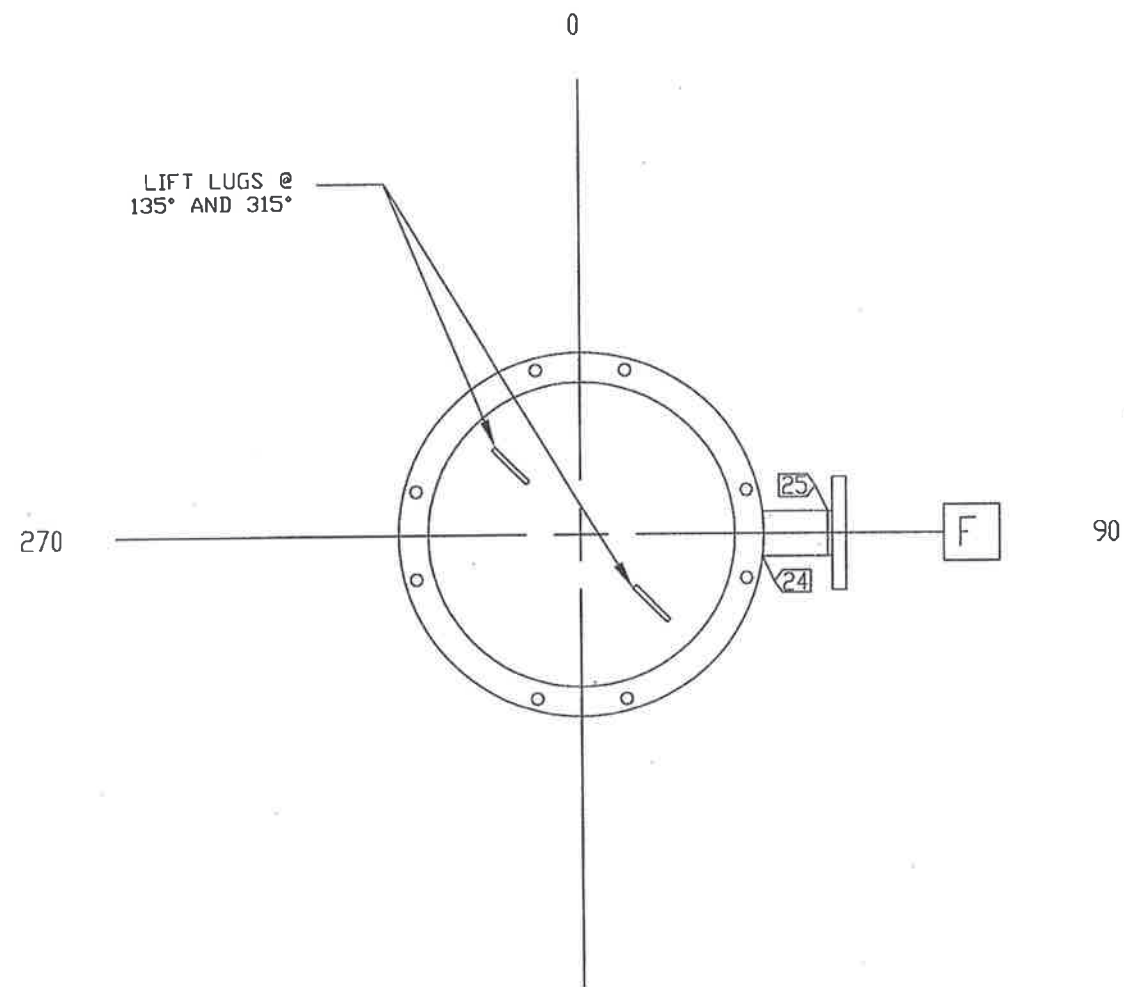
DCR Construction, Inc.
Harlingen, TX

Scale: 1: 15

Rev:	Date:	Description	Dwg	Ckd	Appd	ASME VIII-1 2004 A05	Shell Detail	Rev:
1	8/24	Certified As-Built	RCM			TEMA Type: BEM		
						Size: 15-120	Dwg No:	
						TEMA Class: C	E-2101 06B	1



Side View



Rear End View

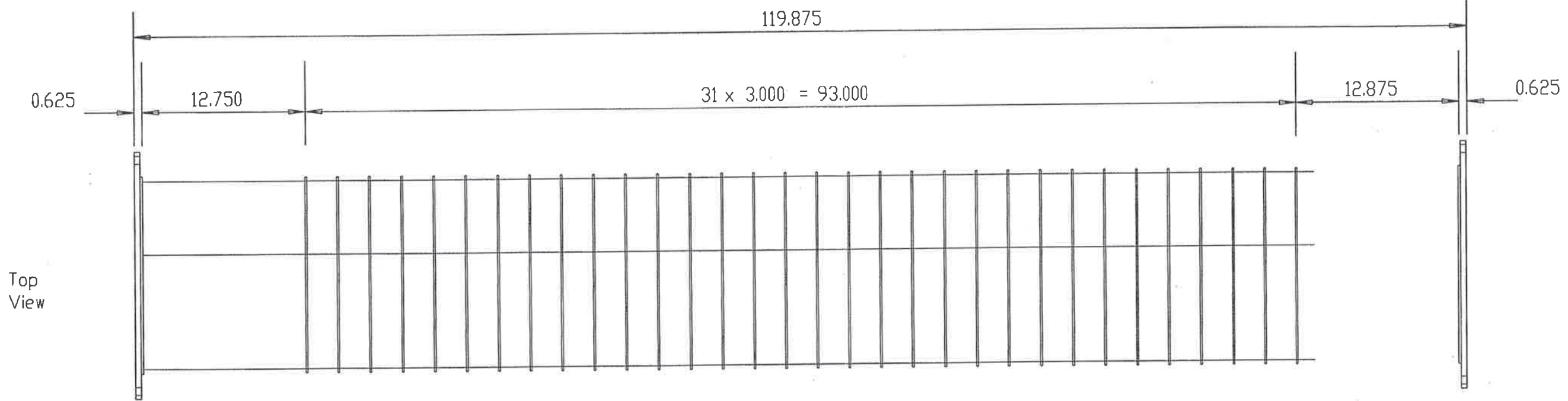
Notes:
 All Dimensions In Inches
 Bolt holes to straddle centerlines
 Weld joint details per drawing 20

Company: DCR
 Location: Bunge-Ergon
 Mix Tank Vent Condenser
 Item No: E-2101
 Date: August 24, 2007 Job No: 7793

DCR Construction, Inc.
 Harlingen, TX

Scale: 1: 15

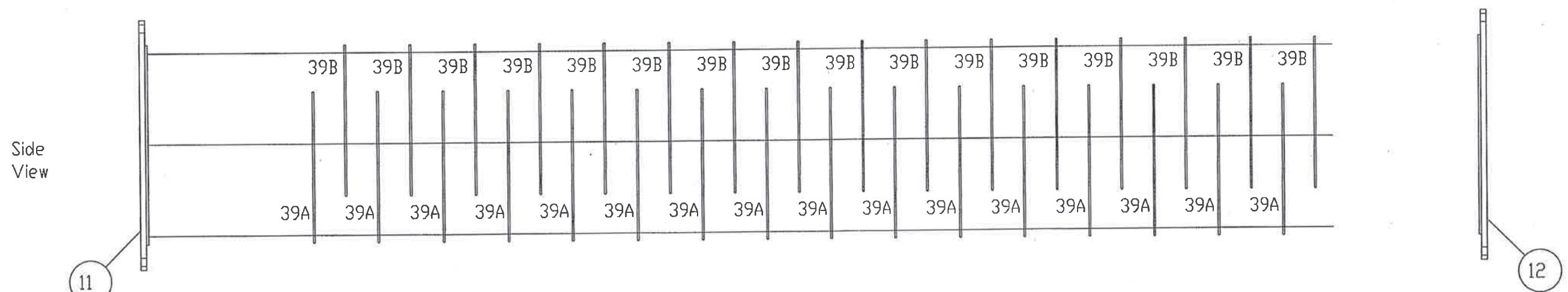
Rev:	Date:	Description	Dwg	Ckd	Appd	ASME VIII-1 2004 A05	Front Head Detail	Rev:
1	7/26	Rotated Lift Lugs	RCM			TEMA Type: BEM	Dwg No: E-2101 08	2
2	8/24	Certified As-Built	RCM			Size: 15-120		
						TEMA Class: C		



Top View

Front

Rear



Side View

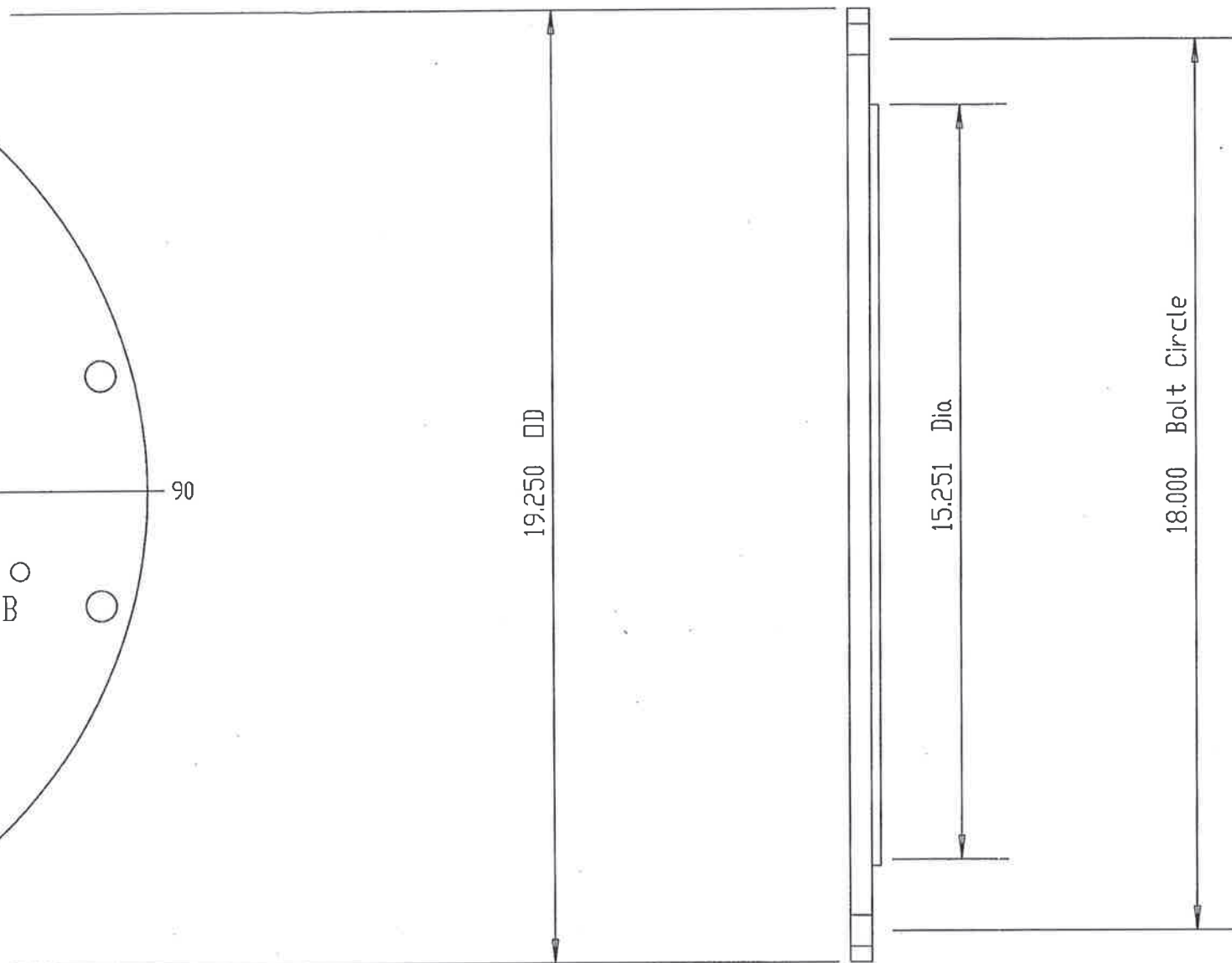
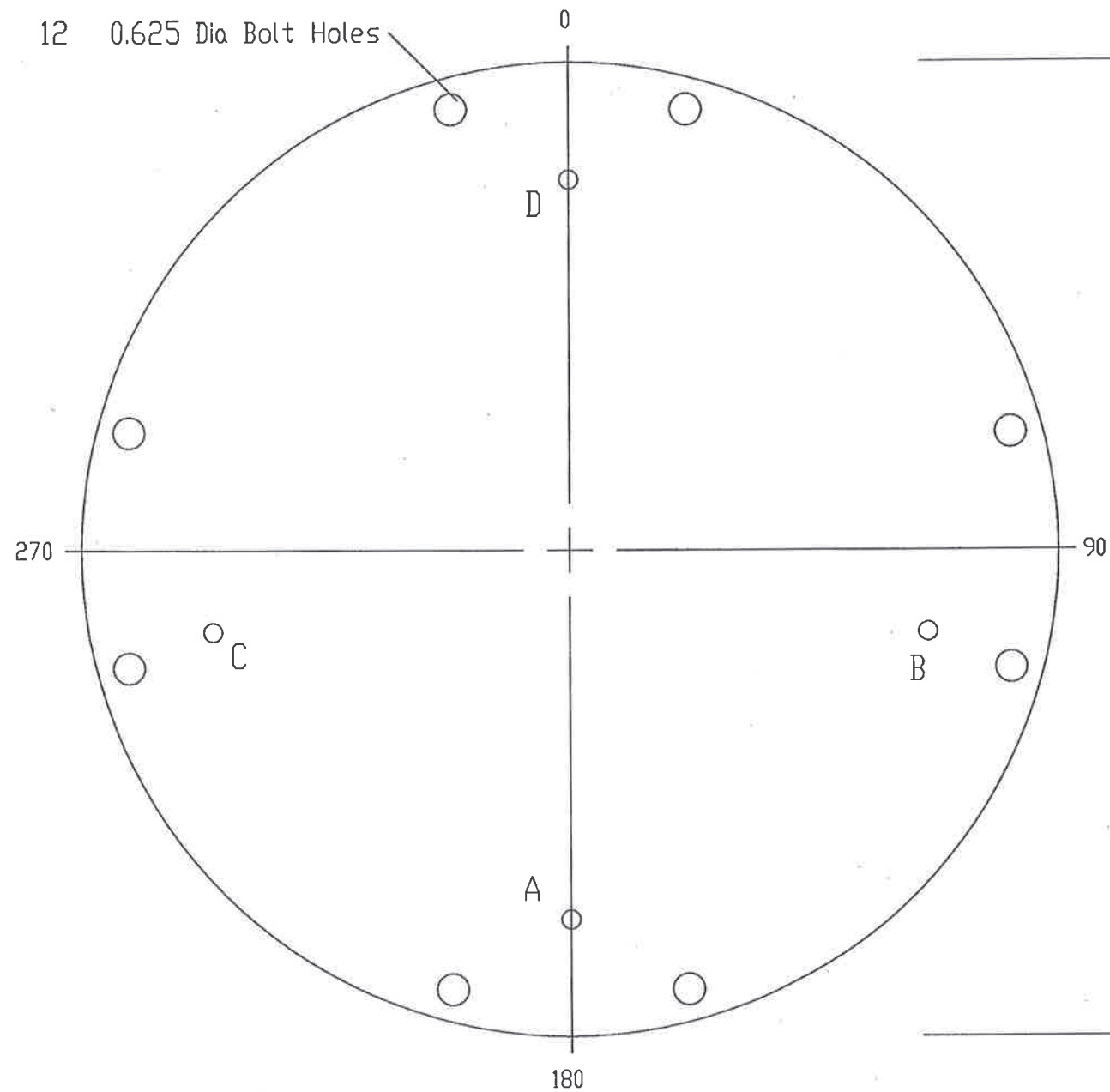
# of Spacers	Length (in.)
30	5.875
62	2.875
3	12.6875
1	15.6875

Notes:
 All Dimensions In Inches
 Bolt holes to straddle centerlines
 Weld joint details per drawing 20

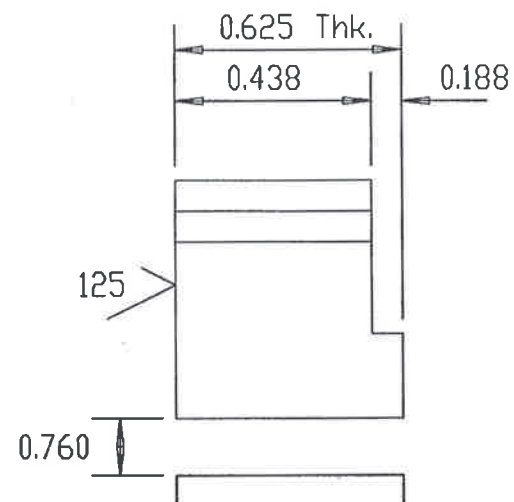
Company: DCR
 Location: Bunge-Ergon
 Mix Tank Vent Condenser
 Item No.: E-2101
 Date: August 24, 2007 Job No.: 7793

DCR Construction, Inc.
 Harlingen, TX

Scale: 1: 13							ASME VIII-1 2004 A05		Bundle Detail	
Rev:	Date:	Description	Dwg	Ckd	Appd	ASME VIII-1 2004 A05	Bundle Detail		Rev:	
1	7/26	Revised Outlet Dim.	RCM			TEMA Type: BEM	Dwg No.: E-2101 11		2	
2	8/24	Certified As-Built	RCM			Size: 15-120 TEMA Class: C				



180
Front End View



11 Front TubSh

Notes:
 All Dimensions In Inches
 Bolt holes to straddle centerlines
 Shell ID 15.376

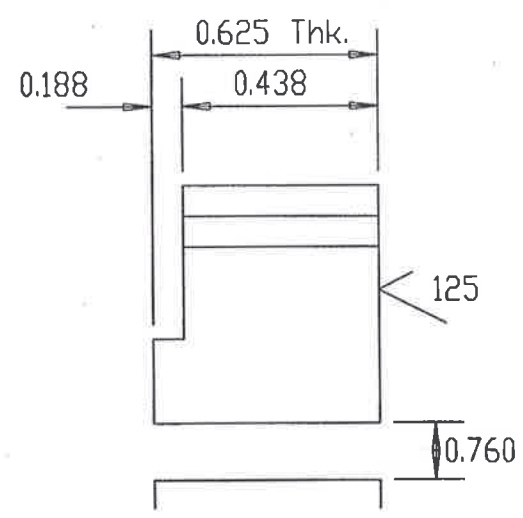
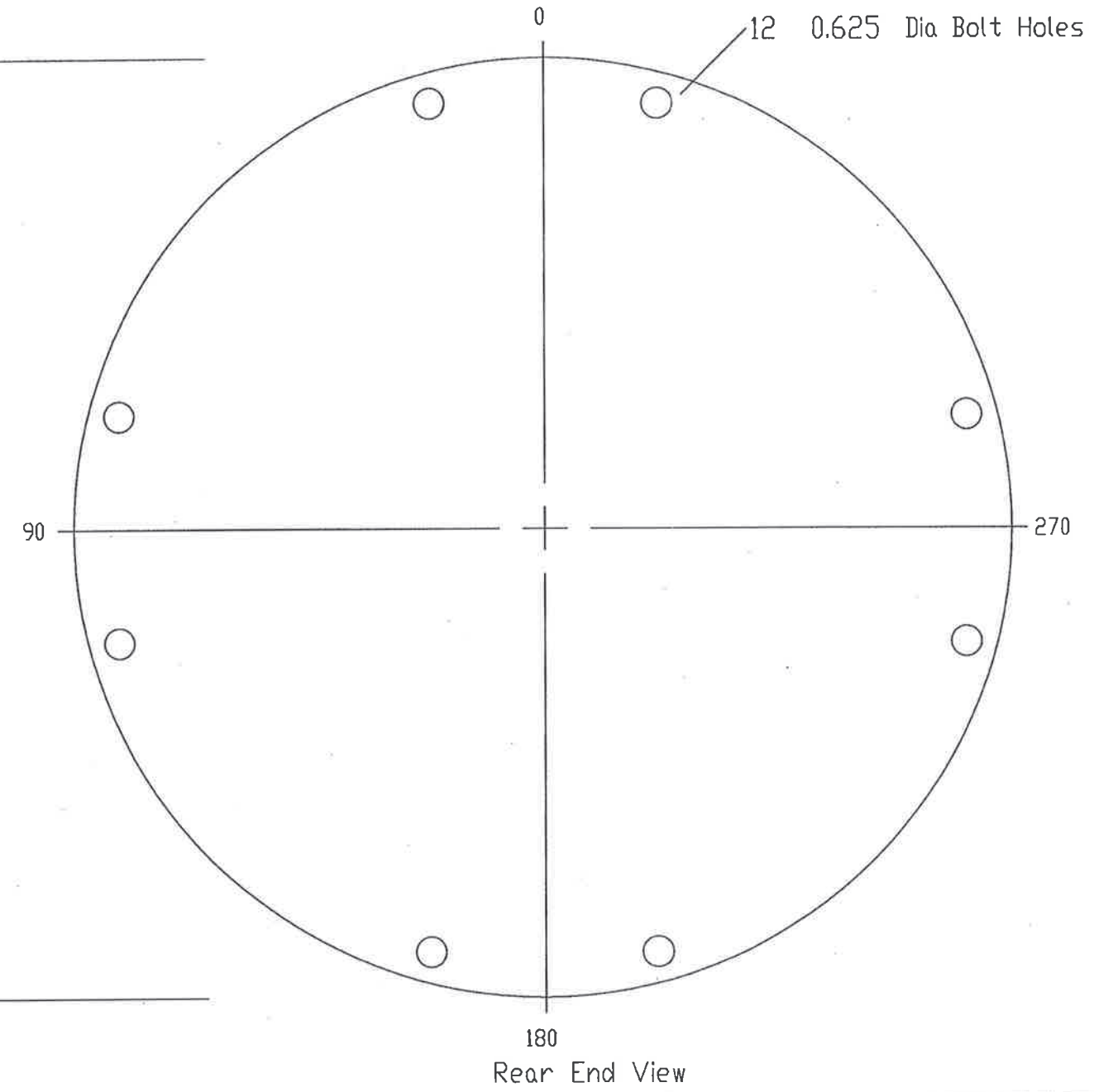
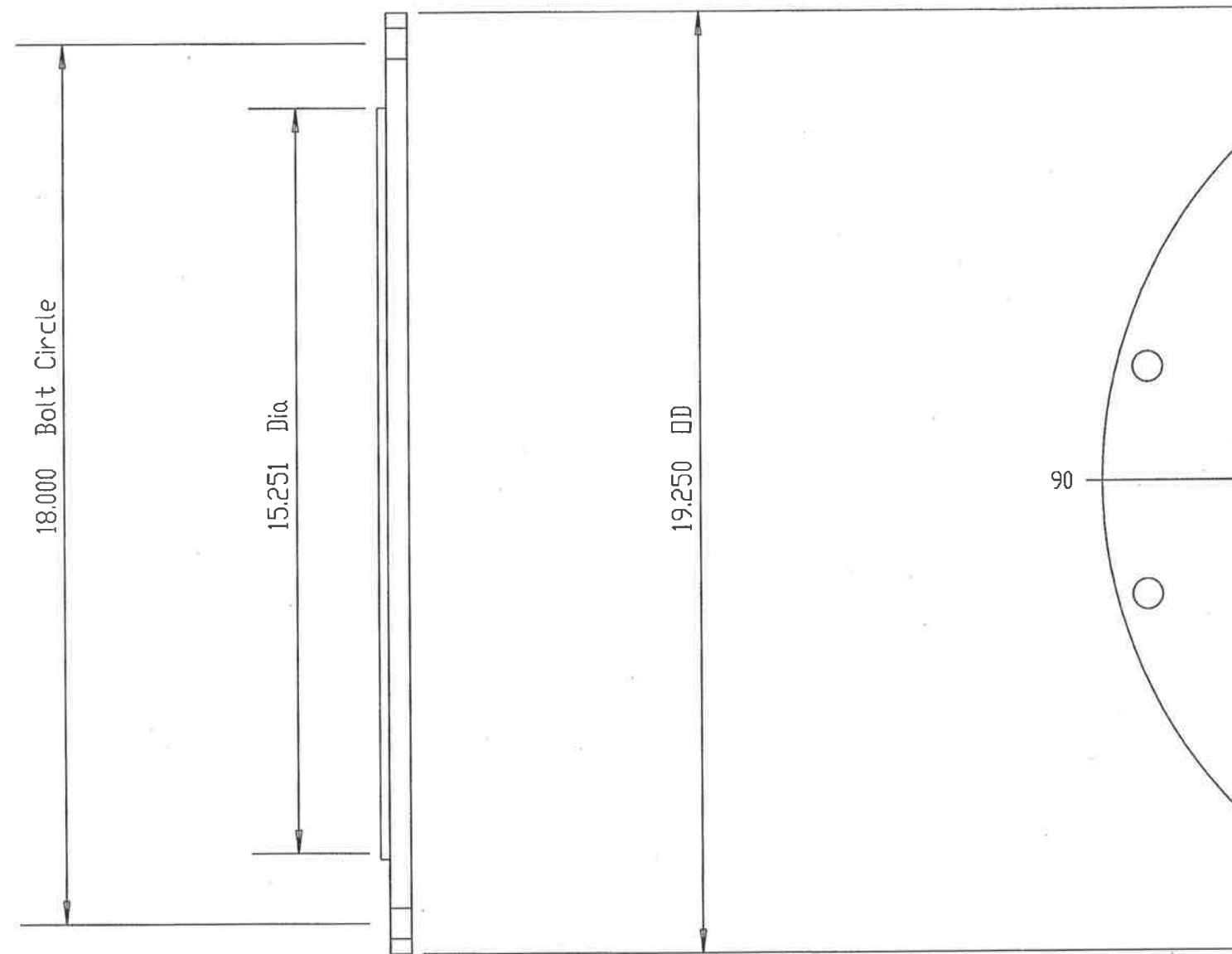
Company: DCR
 Location: Bunge-Ergon
 Mix Tank Vent Condenser
 Item No.: E-2101
 Date: August 24, 2007 Job No.: 7793

DCR Construction, Inc.
 Harlingen, TX

Scale: 1: 4.8

Rev:	Date:	Description	Dwg	Ckd	Appd
1	8/24	Certified As-Built	RCM		

ASME VIII-1 2004 A05	Tubesheet Detail	Dwg No.: E-2101 14	Rev: 1
TEMA Type: BEM			
Size: 15-120 TEMA Class: C			



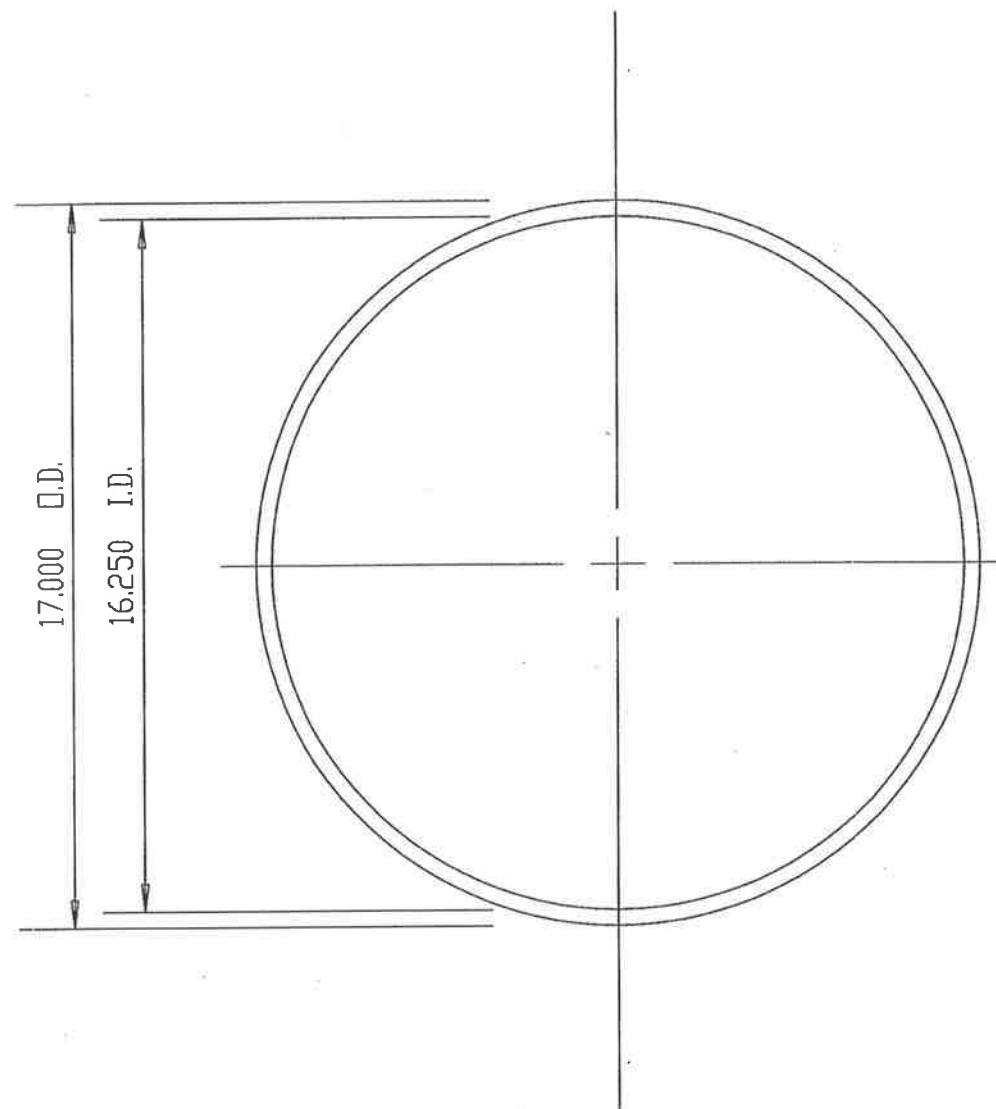
12 Rear TubSh

Notes:
 All Dimensions In Inches
 Bolt holes to straddle centerlines
 Shell ID 15.376

Company: DCR
 Location: Bunge-Ergon
 Mix Tank Vent Condenser
 Item No: E-2101
 Date: August 24, 2007 Job No: 7793

DCR Construction, Inc.
 Harlingen, TX

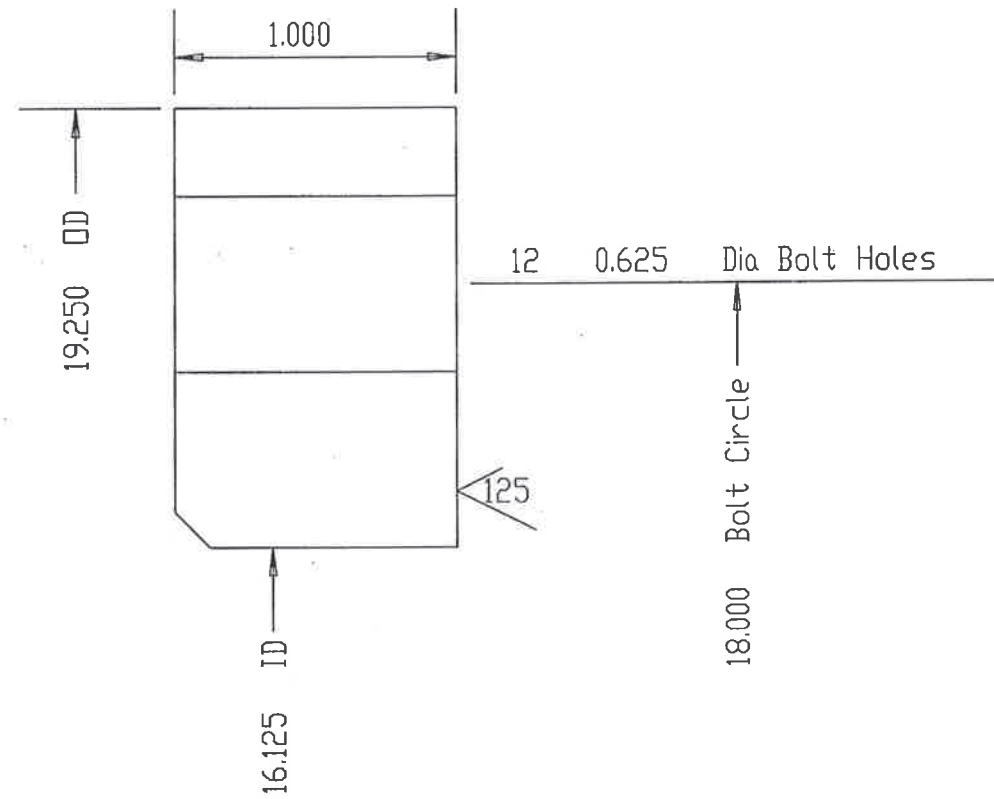
Scale: 1: 4.8						ASME VIII-1 2004 A05		Tubesheet Detail	
Rev:	Date:	Description	Dwg	Ckd	Appd				
1	8/24	Certified As-Built	RCM			TEMA Type: BEM		Dwg No.: E-2101 15	
						Size: 15-120		Rev: 1	
						TEMA Class: C			



31 Front Head Gaskets at Tbshts

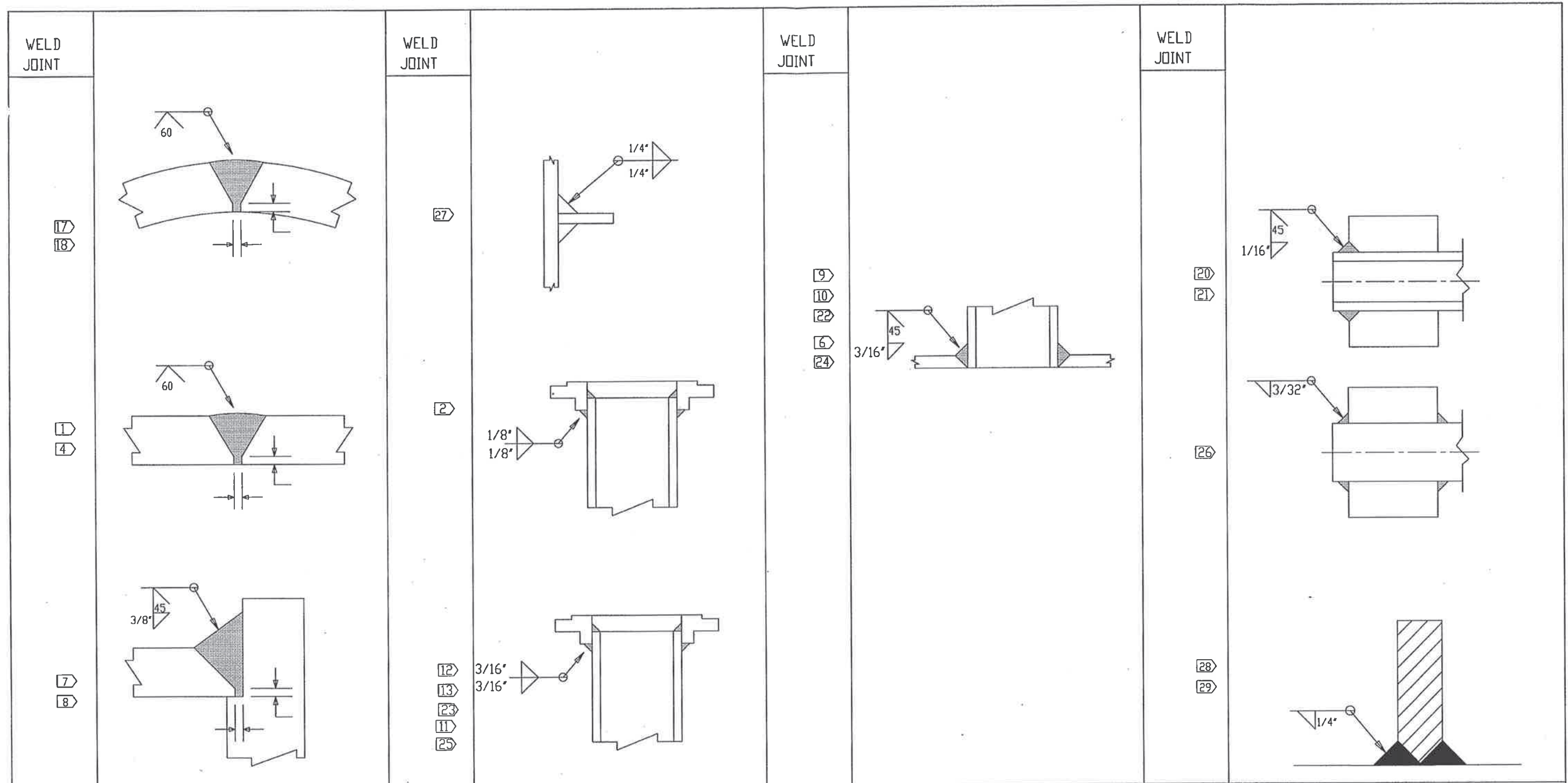
0.125 Thk.

Notes: All Dimensions In Inches Bolt holes to straddle centerlines						Company: DCR Location: Bunge-Ergon Mix Tank Vent Condenser Item No: E-2101 Date: August 24, 2007 Job No: 7793	
						DCR Construction, Inc. Harlingen, TX	
Scale: 1: 6.6						ASME VIII-1 2004 A05 Gasket Detail	
Rev:	Date:	Description	Dwg	Ckd	Appd		
1	8/24	Certified As-Built	RCM			Size: 15-120	
						TEMA Class: C	
						Dwg No: E-2101 17A	Rev: 1



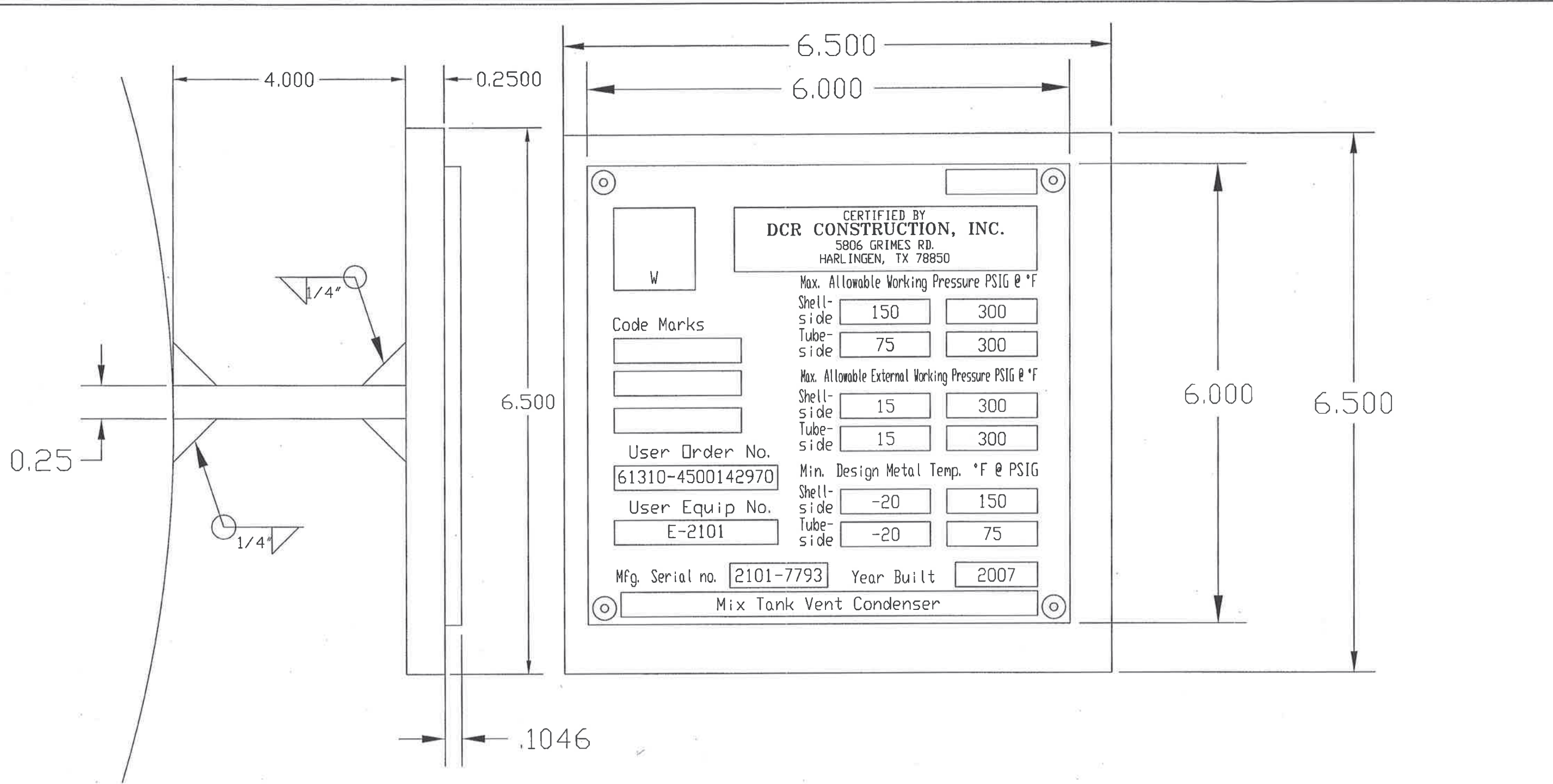
17 Fr Hd Flng TubSh

Notes: All Dimensions In Inches Bolt holes to straddle centerlines						Company: DCR	
						Location: Bunge-Ergon	
Scale: 1: 1.0						Item No.: E-2101	
						Date: August 24, 2007	
Rev: Date: Description Dwg Ckd Appd						Job No.: 7793	
						ASME VIII-1 2004 A05	
1 8/24 Certified As-Built RCM						DCR Construction, Inc.	
						Harlingen, TX	
						Flange Detail	
						TEMA Type: BEM	
						Dwg No.: E-2101 18A	
						TEMA Class: C	
						Rev: 1	



Weld No.:	WPS No.:	Filler Material:	Pre-Heat:	Notes: All Dimensions In Inches Welding in accordance with Code	Company:DCR Location: Bunge-Ergon Mix Tank Vent Condenser Item No.:E-2101 Date: August 24, 2007 Job No.: 7793										
6, 11	8-8-T-01, 8-8-F-01	ER308, E308LT1-1	70°												
9, 12, 19, 27	1-1-T-01, 1-1-G-FC-01	ER70S-2, E71T-1	70°												
10, 13, 29	1-1-T-01, 1-1-G-FC-01	ER70S-2, E71T-1	70°												
24, 25, 28	8-8-F-01	E308LT1-1	70°												
22, 23	1-1-G-FC-01	E71T-1	70°												
17, 18	8-8-F-01	E308LT1-1	70°												
1	8-8-F-01	E308LT1-1	70°	Scale:	ASME VIII-1 2004 A05 TEMA Type: BEM Size: 15-120 TEMA Class: C				Weld Joint Detail						
7, 8	1-8-G-FC-du-(STT)-01	ER309LSi	70°	Rev:							Date:	Description	Dwg	Ckd	Appd
2	8-8-F-01	E308LT1-1	70°	1							8/24	Certified As-Built	RCM		
20, 21	8-8-GTA-NF-01	ER308	70°												
26	1-8-T-01	E309	70°												
					Dwg No.:					Rev:					
					E-2101 20					1					

DCR Construction, Inc
Harlingen, TX



CERTIFIED BY
DCR CONSTRUCTION, INC.
 5806 GRIMES RD.
 HARLINGEN, TX 78850

W

Code Marks

User Order No.
 61310-4500142970

User Equip No.
 E-2101

Mfg. Serial no. 2101-7793 Year Built 2007

Mix Tank Vent Condenser

Max. Allowable Working Pressure PSIG @ °F
 Shell-side 150 300
 Tube-side 75 300

Max. Allowable External Working Pressure PSIG @ °F
 Shell-side 15 300
 Tube-side 15 300

Min. Design Metal Temp. °F @ PSIG
 Shell-side -20 150
 Tube-side -20 75

Notes:
 All Dimensions In Inches
 Etching .004" Min. Depth

Scale: 1: 2.8

Company: DCR
 Location: Bunge-Ergon
 Mix Tank Vent Condenser
 Item No: E-2101
 Date: August 24, 2007 Job No: 7793

DCR Construction, Inc
 Harlingen, TX

Rev:	Date:	Description	Dwg	Ckd	Appd
1	7/23	Added User Order No.	RCM		
2	8/24	Certified As-Built	RCM		

ASME VIII-1 2004 A05	Code Data Plate
TEMA Type: BEM	
Size: 15-120	
TEMA Class: C	Dwg No: E-2101 22
	Rev: 2

