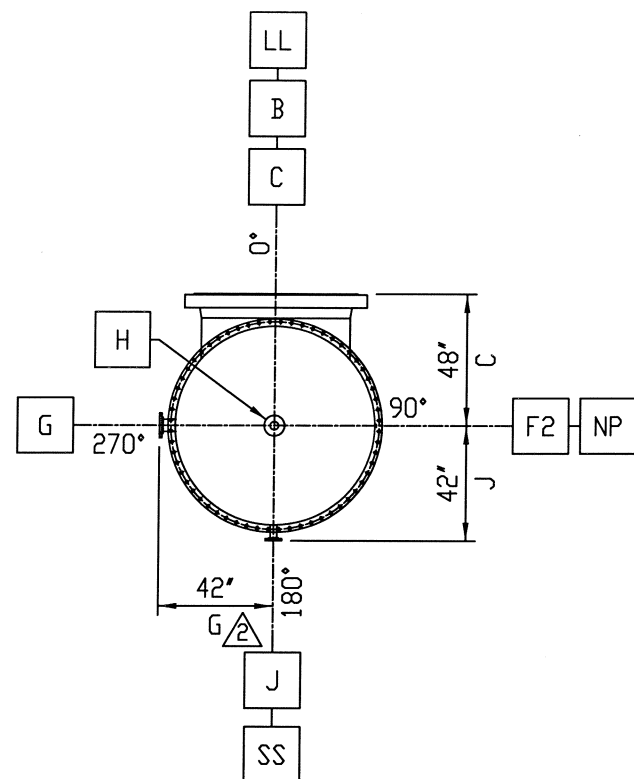
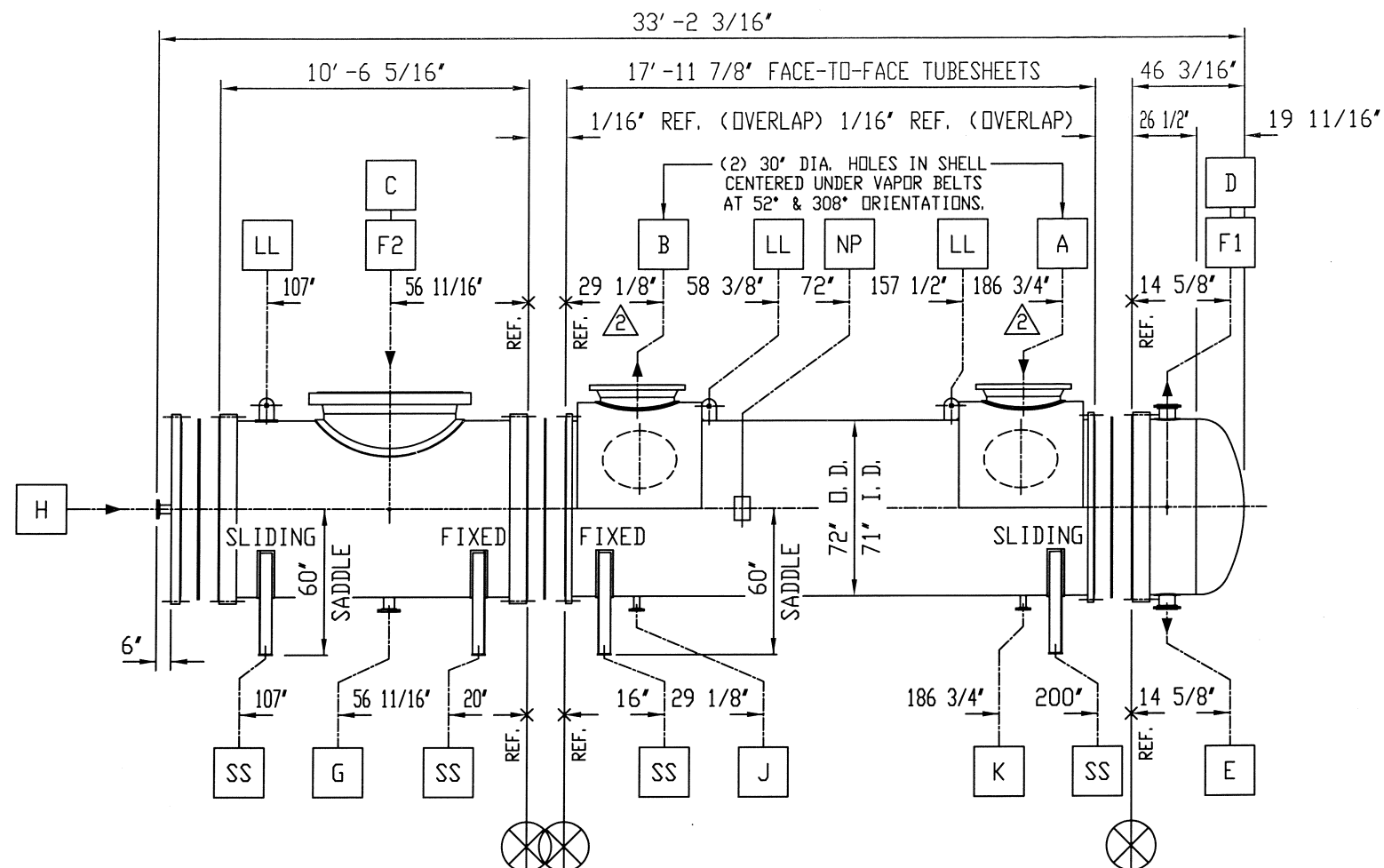
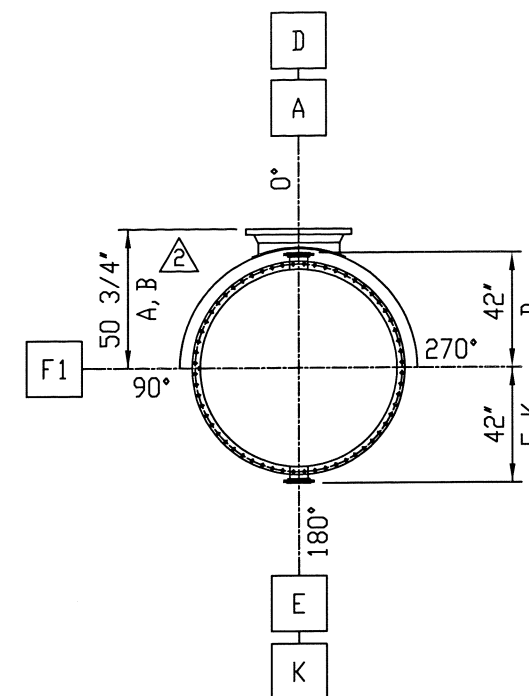




ORIENTATION
VIEWED FROM LEFT END



GENERAL ARRANGEMENT
NOT A TRUE ORIENTATION



ORIENTATION
VIEWED FROM RIGHT END

CONNECTION SCHEDULE

MARK	SIZE	RATING	TYPE	SERVICE
A	30"	150	RFWN	SHELLSIDE - INLET
B	30"	150	RFWN	SHELLSIDE - OUTLET
C	54"	150	LJFX	TUBESIDE - INLET
D	6"	150	LJFX	TUBESIDE - OUTLET
E	6"	150	LJFX	TUBESIDE - OUTLET
F1	1/2"	3000	HC	PRESS. GAGE CPLG
F2	1/2"	3000	HC	PRESS. GAGE CPLG
G	4"	150	RFSO	TUBESIDE - INLET
H	3"	150	RFSO	TUBESIDE - LIQUID INLET
J	2"	150	RFSO	SIGHT GLASS
K	2"	150	RFSO	SIGHT GLASS

△ SURFACE PREP

- 1) COMMERCIAL BLAST CLEAN, EXTERNAL CARBON STEEL PER SSPC-SP6 (ANCHOR PROFILE 1 1/2 TO 3 MILS) PAINT SPEC
- 1) PRIME WITH ONE (1) COAT CARBOLINE CARBOGARD 890 EPOXY, COLOR: 0780 NEUTRAL GRAY (4 TO 6 MILS DFT). FINISH COAT WITH (1) COAT CARBOLINE CARBOTHANE 134 HG POLYURETHANE, COLOR: C705 LT. GRAY (2 TO 2 1/2 MILS DFT)

GENERAL NOTES

- 1) ALL BOLT HOLES TO STRADDLE NATURAL CENTERLINES.
- 2) ALL NOZZLES TO HAVE PROTECTIVE COVERS FOR SHIPMENT.
- 3) ALL THREADED OPENINGS FURNISHED WITH PLUGS.
- 4) 100% JOINT EFFICIENCY USED FOR HEAD CALC' S. - MIN. ONE ADDITIONAL SPOT ON LONG. & CIRC. SEAMS, RT4 TUBESIDE.

MATERIALS:	SHELL SIDE	TUBE SIDE
TUBES (1785) 1 1/4" O.D. x 18BWG (0.049) AVG, SA-249-TP304		
TUBESHEET	SA-240-304/304L	SA-240-304/304L
SHELL	SA-516-70	SA-240-304
BODY FLANGE		SA-105N
HEAD		SA-240-304
NOZZLE NECK	SA-516-70	SA-312-304/304L WLD
NOZZLE FLANGE	SA-105	SA-182-F304L
BOLTING		SA-193-B7/SA-194-2H
GASKETS		P. T. F. E.

CERTIFIED

CORRECT FOR FABRICATION, BY

DATE

DESIGN DATA

DESIGN PRESSURE - INTERNAL	150 PSI	150 PSI
DESIGN PRESSURE - EXTERNAL	FV	FV
DESIGN TEMPERATURE	200°F	300°F
HYDRO TEST PRESSURE	195 PSI	195 PSI
CORROSION ALLOWANCE	0.0625"	0.0"
RADIOGRAPH	NONE	SPOT (NOTE 4) △
STRESS RELIEF	NONE	NONE
NO. OF PASSES	1	1
MIN. DESIGN METAL TEMP	-20°F AT 150 PSI	-20°F AT 150 PSI
TUBE SURFACE (EXTERNAL)	10259 SQ. FT.	
APPROX. WEIGHT EACH	EMPTY	FULL WATER
	57081 LBS.	127200 LBS.
		29838 LBS.
DESIGN & CONSTRUCTION IN ACCORDANCE WITH:		
ASME SECTION VIII, DIV. 1 STAMPED 2004 ED' A' 06 'U' C		
T. E. M. A. CLASS		

NO.	DATE	DESCRIPTION	BY	CHK
△ 2	6-11	MOVED SHELL IN/OUT PER CUST. RETURNS	D. L. L.	
△ 1	5-3	CORRECTED BY H. T. S.	D. L. L.	

REVISIONS

CUSTOMER: DELTA T CORP.

TWO UNITS REQUIRED

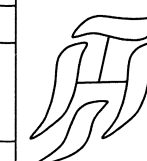
TAG: H. T. S. NO.: 12928-7, 8.
ITEM NO.: E-4504/E-4514
PO NO.: 64000624025

DIMENSIONAL OUTLINE

ALTRA BIOFUELS, CARLETON, NEBRASKA
EVAPORATOR CONDENSER #1

SIZE: 71 - 216

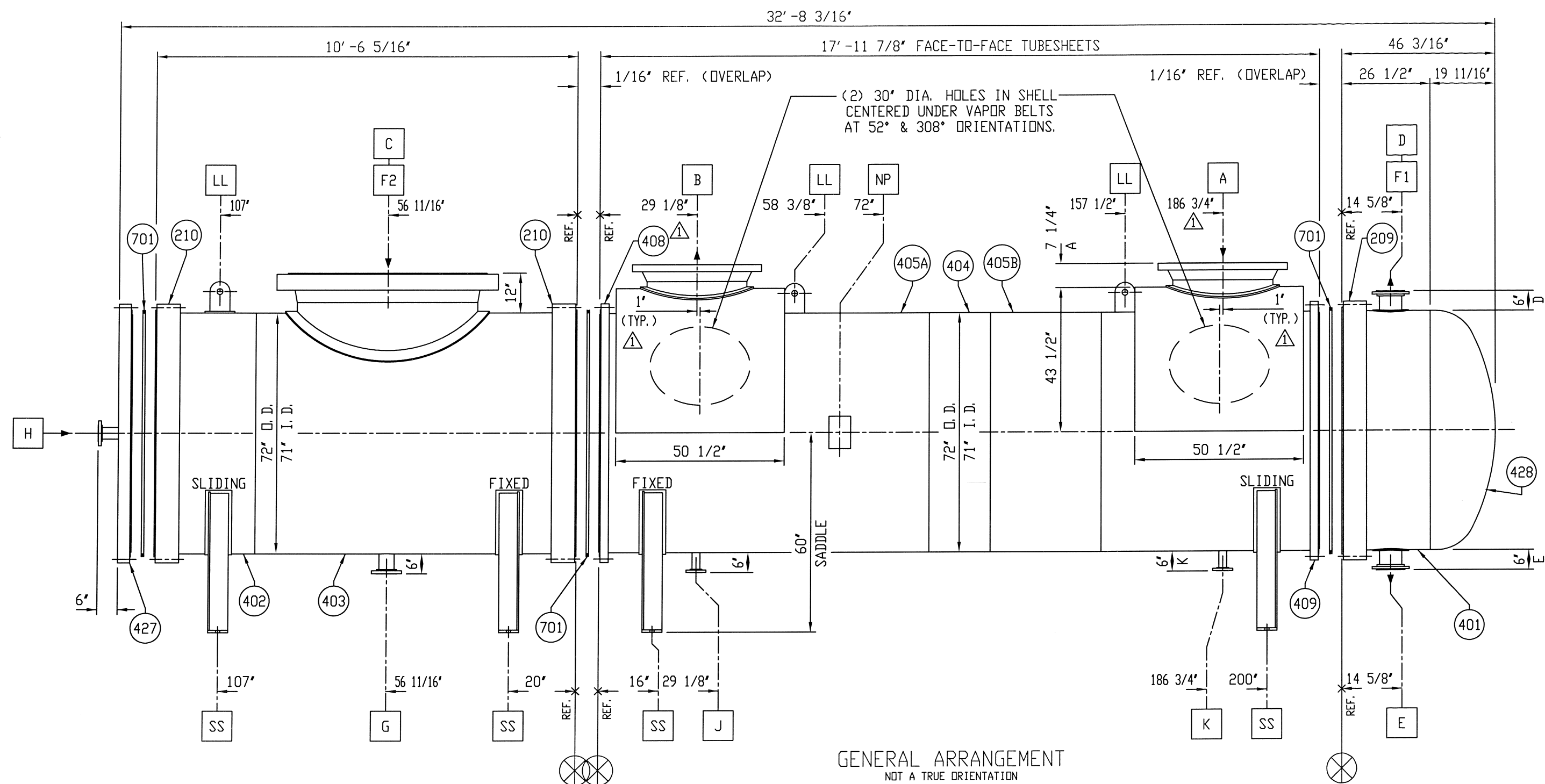
TYPE: AEM



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ST. LOUIS, MO 63111-3655

12928-7. HEX

DR. BY	D. L. L.	HTS 12928-7, 8.	REV
DATE	4-16-07	DWG. NO.	
		B-2928-7-01	
CHK. BY			



GENERAL ARRANGEMENT
NOT A TRUE ORIENTATION

SEE DRAWING B-2928-7-03 FOR TRUE ORIENTATIONS

401	3/8"	RIGHT CHANNEL CYLINDER	428	3/8"	RIGHT HEAD
404, 405A, 405B	1/2"	SHELL CYLINDER	402, 403	1/2"	LEFT CHANNEL CYLINDER
PART	THK.	DESCRIPTION	PART	THK.	DESCRIPTION

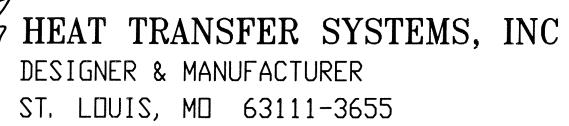
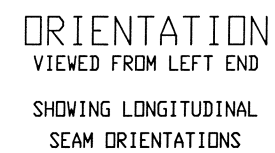


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12928-7. HEX

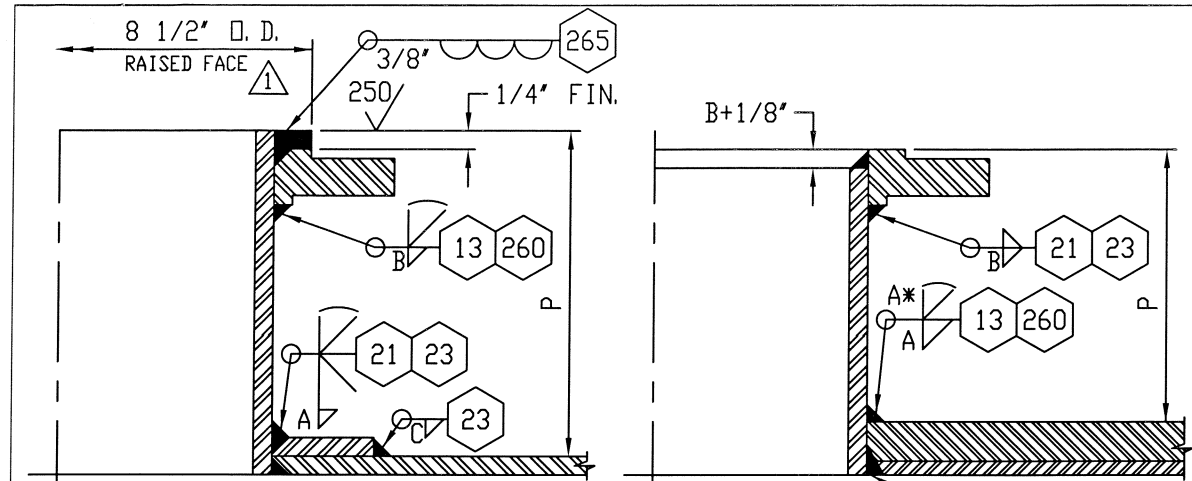
SHELL & CHANNEL DETAILS

					DR. BY	D. L. L.	HTS 12928-7, 8.	
①	6-11	MOVED SHELL INLET/OUTLET PER CUST. RETURNS	D. L. L.		DATE	4-16-07	DWG. NO.	REV
NO.	DATE	DESCRIPTION	BY	CHK	CHK. BY		B-2928-7-02	①
REVISIONS								

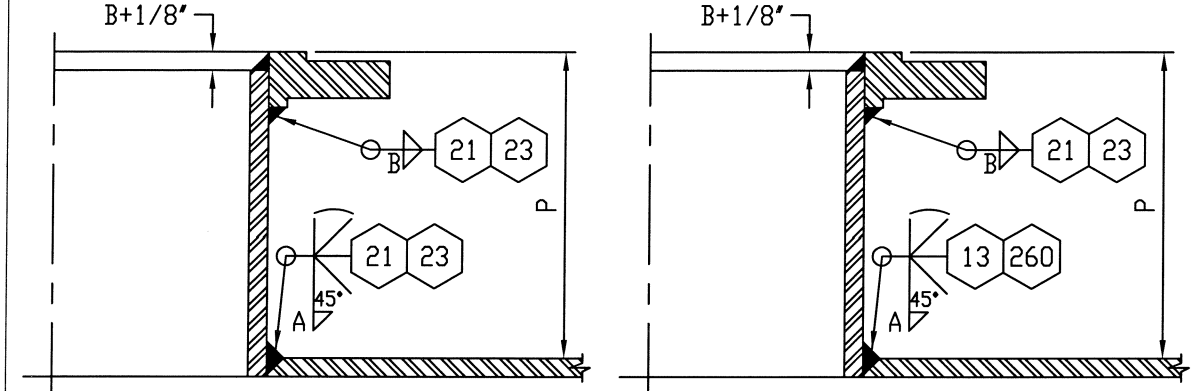


TRUE ORIENTATIONS

					DR. BY	D. L. L.	HTS 12928-7, 8.	
①	6-11	REVISED (NOZ. G PROJ) PER CUST. RETURNS	D. L. L.		DATE	4-16-07	DWG. NO.	REV
NO.	DATE	DESCRIPTION	BY	CHK	CHK. BY		B-2928-7-03	①
REVISIONS								



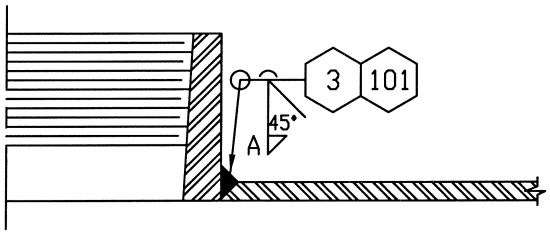
D E
LAP JOINT NOZZLE



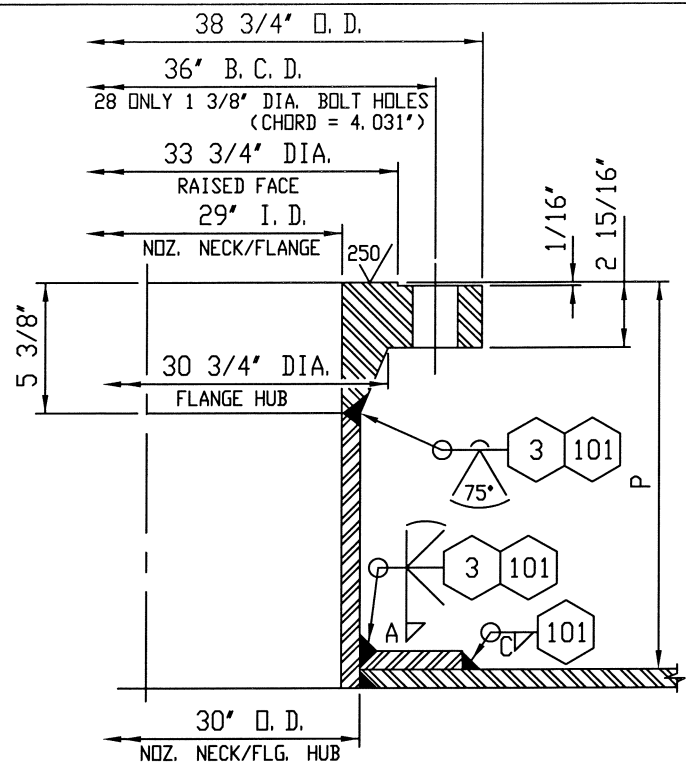
H
SLIP-ON NOZZLE
* = MIN. GROOVE DEPTH IN C/S

G
SLIP-ON NOZZLE

J K
SLIP-ON NOZZLE



F1 F2
HALF COUPLING DETAIL



A B
WELD NECK NOZZLE
30" CLASS 150 SERIES A RFWN FLANGE
H. T. S. TO FABRICATE PER
ASME B16.47 - 1990

WELD	WELD PROCEDURE (WP)	
	SHELL SIDE	TUBE SIDE
LONG.	3, 101	21, 23
CIRC.	3, 101	21, 23

LONG. AND CIRC. SEAMS

K	1	2'	150	RFSO	202	2 3/8'	6'	301	---	---	---	---	---	---	---	---	---	3/16'	3/16'	---	SIGHT GLASS	---
J	1	2'	150	RFSO	202	2 3/8'	6'	301	---	---	---	---	---	---	---	---	---	3/16'	3/16'	---	SIGHT GLASS	---
H	1	3'	150	RFSO	203	3 1/2'	6'	302	---	---	---	---	---	---	---	---	---	1/4'	1/4'	---	TUBESIDE - LIQUID INLET	---
G	1	4'	150	RFSO	204	4 1/2'	6'	303	---	---	---	---	---	---	---	---	---	5/16'	1/4'	---	TUBESIDE - INLET	---
F2	1	1/2'	3000	HC	205	---	---	---	---	---	---	---	---	---	---	---	---	5/16'	---	---	PRESS. GAGE CPLG	---
F1	1	1/2'	3000	HC	205	---	---	---	---	---	---	---	---	---	---	---	---	5/16'	---	---	PRESS. GAGE CPLG	---
E	1	6'	150	LJFX	207	6 5/8'	6'	304	---	---	2'	1/4'	411	---	---	---	---	1/4'	5/16'	3/16'	TUBESIDE - OUTLET	---
D	1	6'	150	LJFX	207	6 5/8'	6'	304	---	---	2'	1/4'	411	---	---	---	---	1/4'	5/16'	3/16'	TUBESIDE - OUTLET	---
C	1	54'	150	LJFX	208	54'	12'	423	1/4'	413	3 1/2'	1/2'	412	---	---	---	---	3/8'	---	3/8'	TUBESIDE - INLET	---
B	1	30'	150	RFWN	201	30'	7 1/4'	424	---	---	2'	1/2'	417	---	---	---	---	3/8'	---	3/8'	SHELLSIDE - OUTLET	---
A	1	30'	150	RFWN	201	30'	7 1/4'	424	---	---	2'	1/2'	417	---	---	---	---	3/8'	---	3/8'	SHELLSIDE - INLET	---
MK	QTY	SIZE	RATING	TYPE	PART	OD	PROJ.	PART	MIN. THK.	PART	WIDTH	THK	PART	PART	PART	PART	PART	A	B	C	SERVICE	REMARKS

NOZZLE SCHEDULE

DRILL AND TAP FOR 1/4" PIPE SIZE HOLE IN EACH REINFORCING PAD SEGMENT

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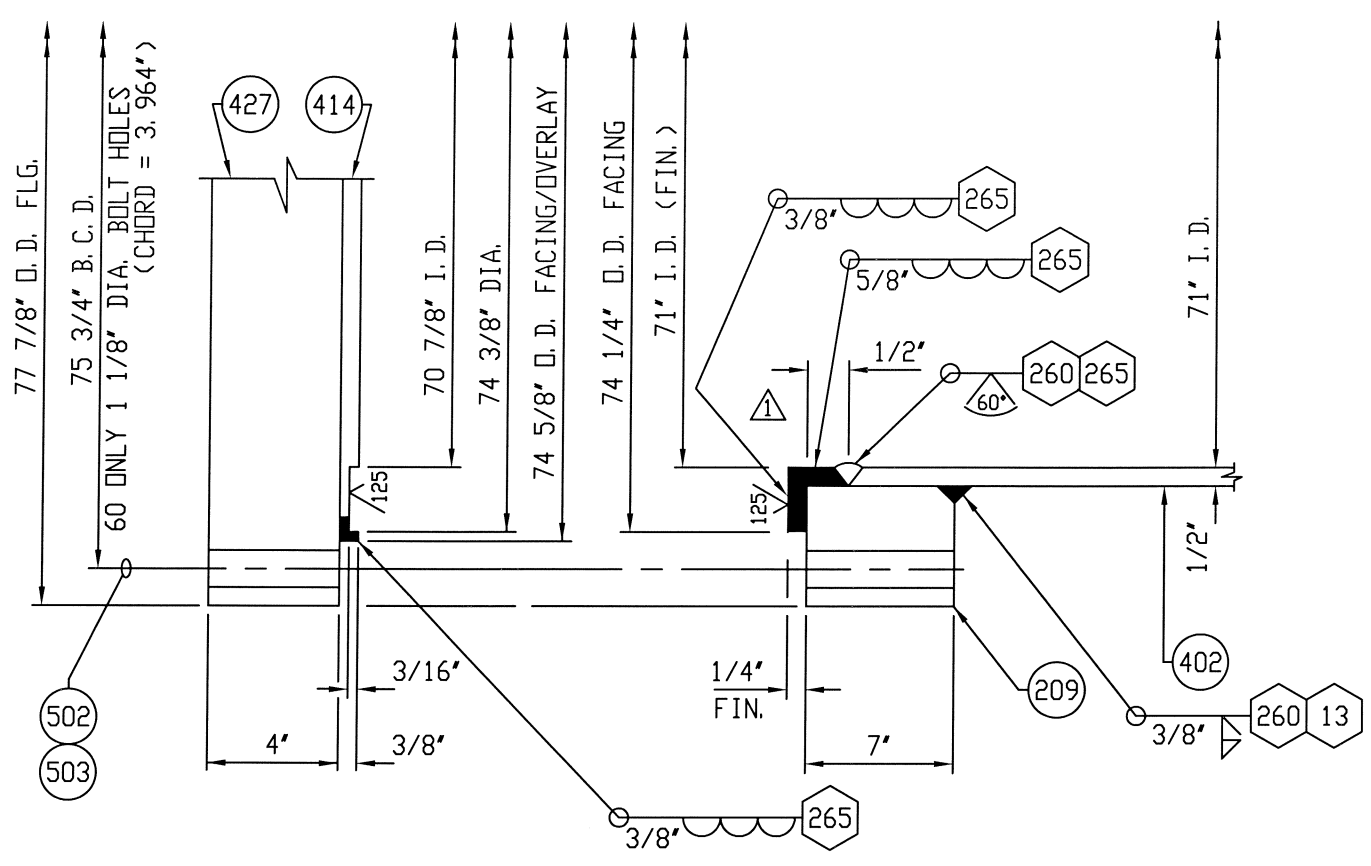
12928-7. HEX

NOZZLE & WELDING DETAILS

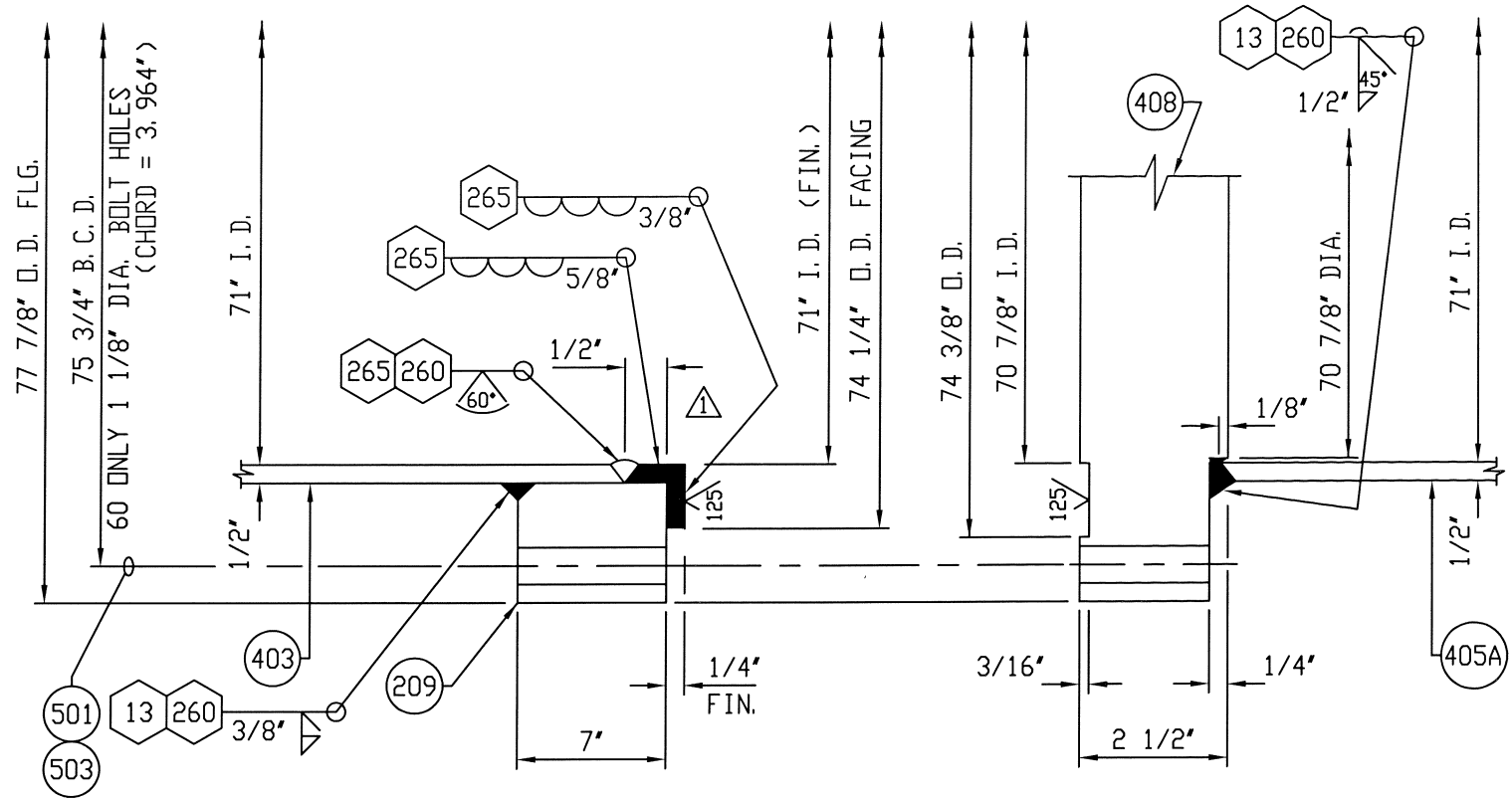
					DR. BY	D. L. L.	HTS 12928-7, 8.	
					DATE	4-16-07	DWG. NO.	REV
					CHK. BY	D. L. L.	B-2928-7-04	1

NO.	DATE	DESCRIPTION	BY	CHK
1	8-1	ADDED RAISED FACE (OVERLAY) DIA. BY H. T. S.	D. L. L.	D. L. L.

REVISIONS



LEFT COVER CONNECTION DETAIL



LEFT TUBESHEET CONNECTION DETAIL

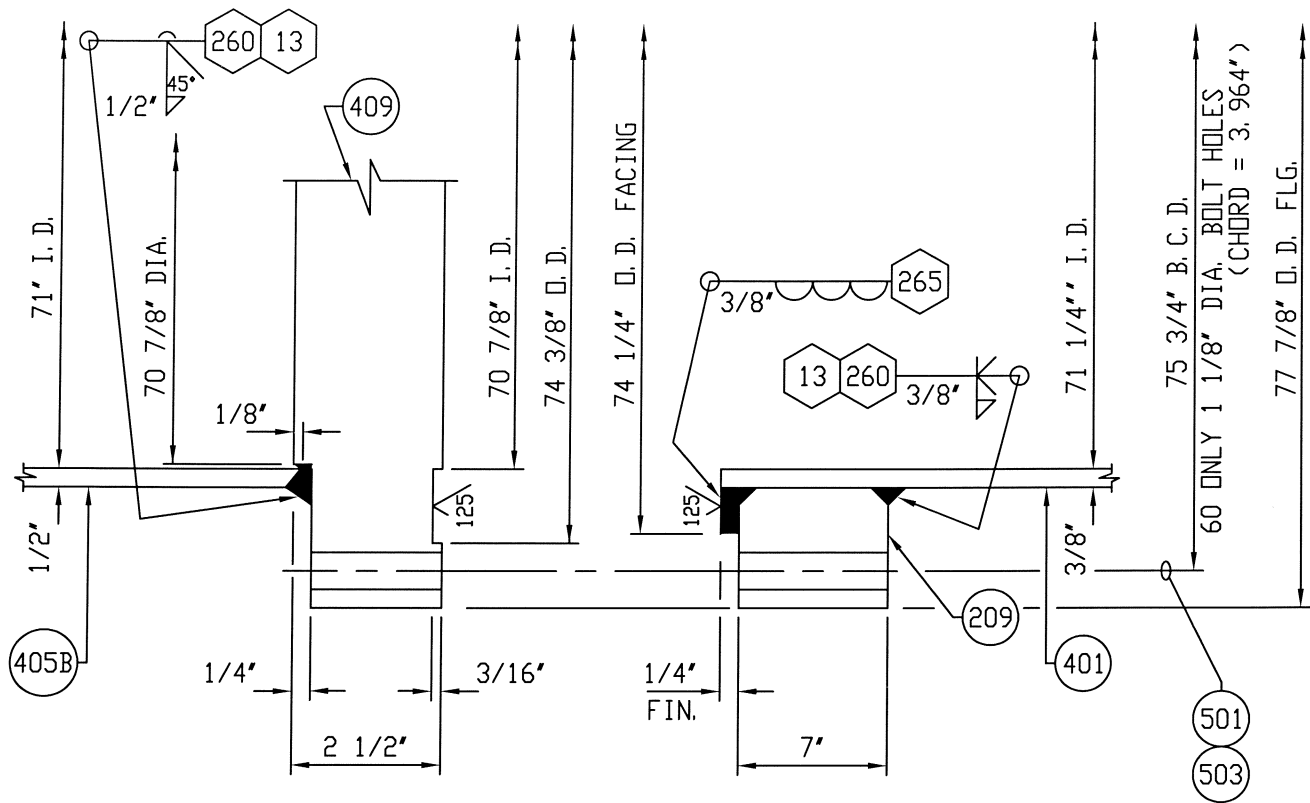


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12928-7. HEX

MACHINING DETAILS

					DR. BY	D. L. L.	HTS 12928-7, 8.	
△	6-18	REVISED LAP FACING DETAIL FOR FABRICATION	D. L. L.		DATE	4-16-07	DWG. NO.	REV
NO.	DATE	DESCRIPTION	BY	CHK	CHK. BY		B-2928-7-05	△ 1
REVISIONS								



RIGHT TUBESHEET CONNECTION DETAIL

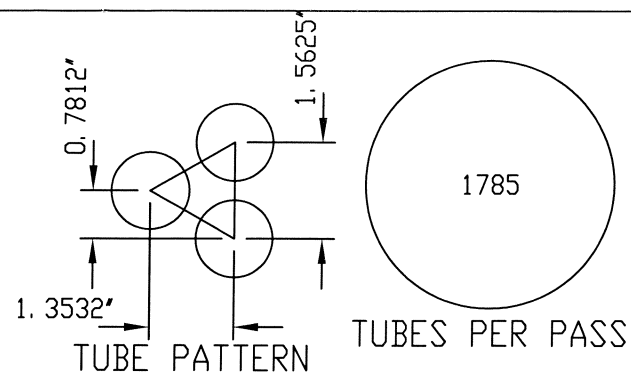


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12928-7. HEX

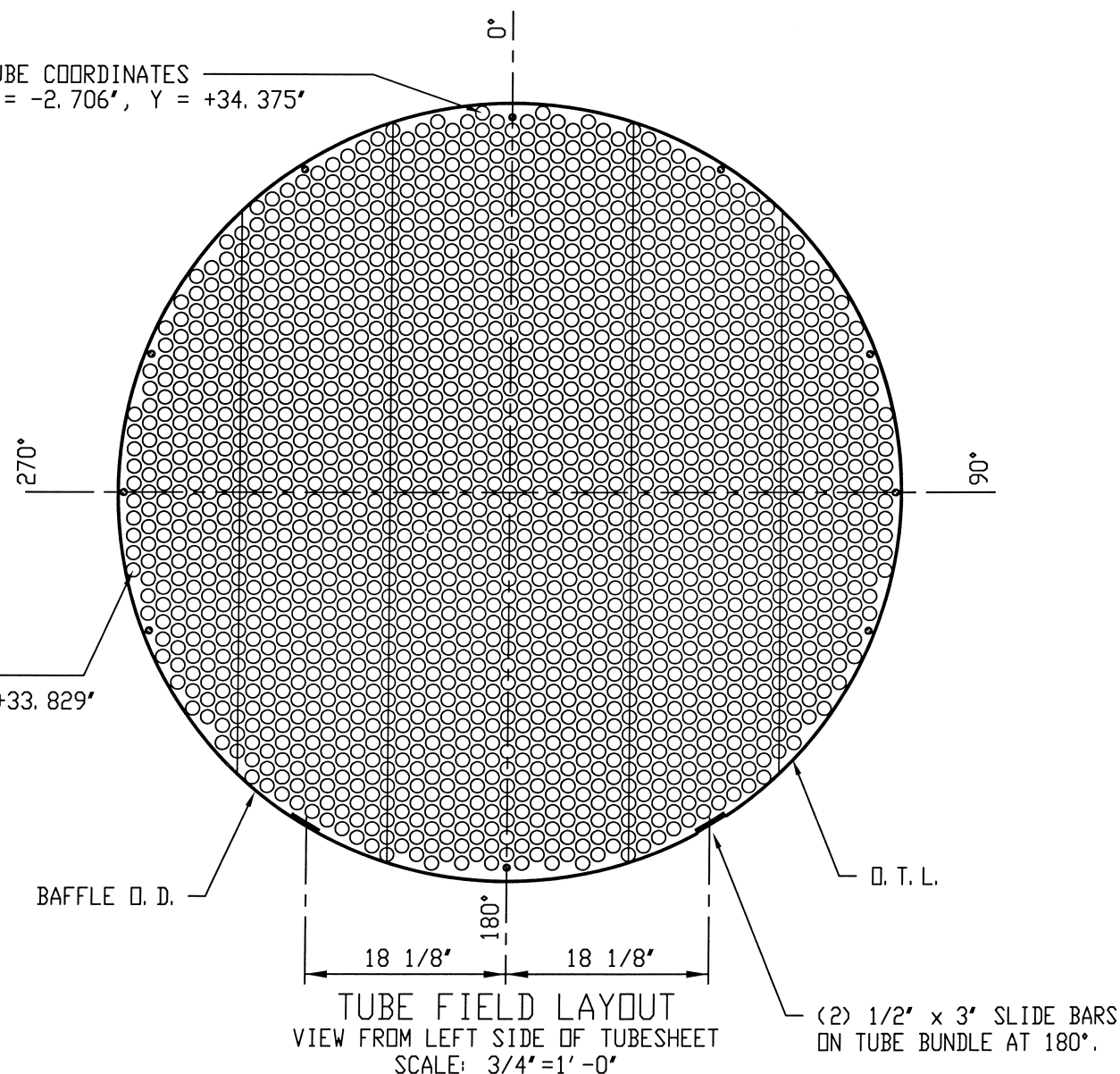
MACHINING DETAILS

				DR. BY	D. L. L.	HTS 12928-7, 8.	
				DATE	4-16-07	DWG. NO.	REV
				CHK. BY	<i>[Signature]</i>	B-2928-7-06	
NO.	DATE	DESCRIPTION	BY	CHK	REVISIONS		



TUBE COORDINATES
X = -2.706', Y = +34.375'

TUBE COORDINATES
X = -7.031', Y = +33.829'
(ROTATED 90°)



LAYOUT DATA

TUBE HOLES

Quantity: 1785
Tube Dia.: 1.25'
Hole Dia.: 1.264' +0.003', -0.006'
Pattern: TRI.
Pitch: 1.5625'
Passes: 1

TIERODS

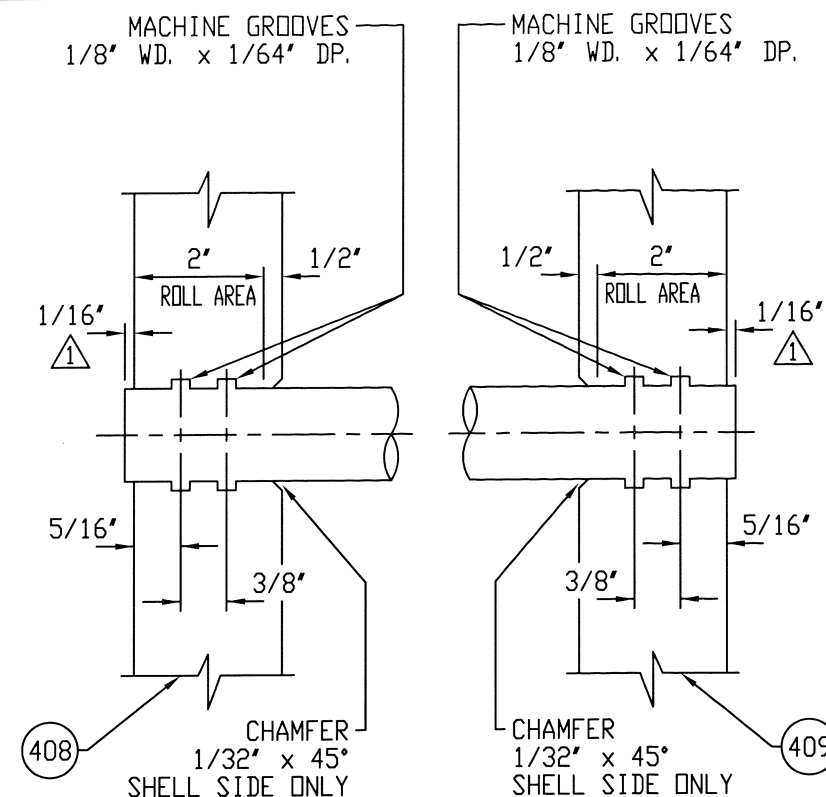
Quantity: 10
Diameter: 0.625'

LAYOUT

Baf O.D.: 70.6875'
Max O.T.L.: 70.3542'

BAFFLES

Type: DBL. SEG.
Rotation: VERT.
Cut: 30/30%
Tube Hole: 1.2812'
Tie Rod Hole: 0.6875'



TUBESHEET TUBE HOLE DETAIL

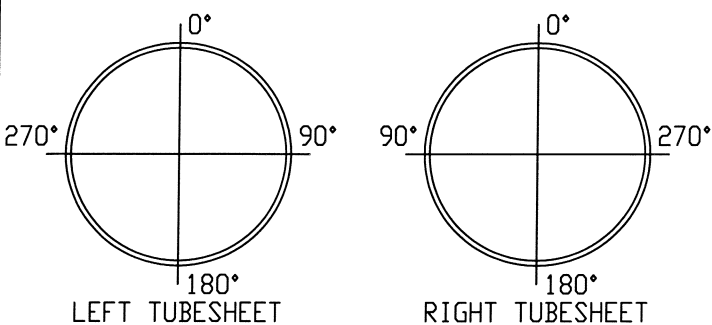


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12928-7. HEX

TUBE FIELD LAYOUT

					DR. BY D. L. L.	HTS 12928-7, 8.	
NO.	DATE	DESCRIPTION	BY	CHK	DATE 4-16-07	DWG. NO. B-2928-7-07	REV 1
REVISIONS					CHK. BY		



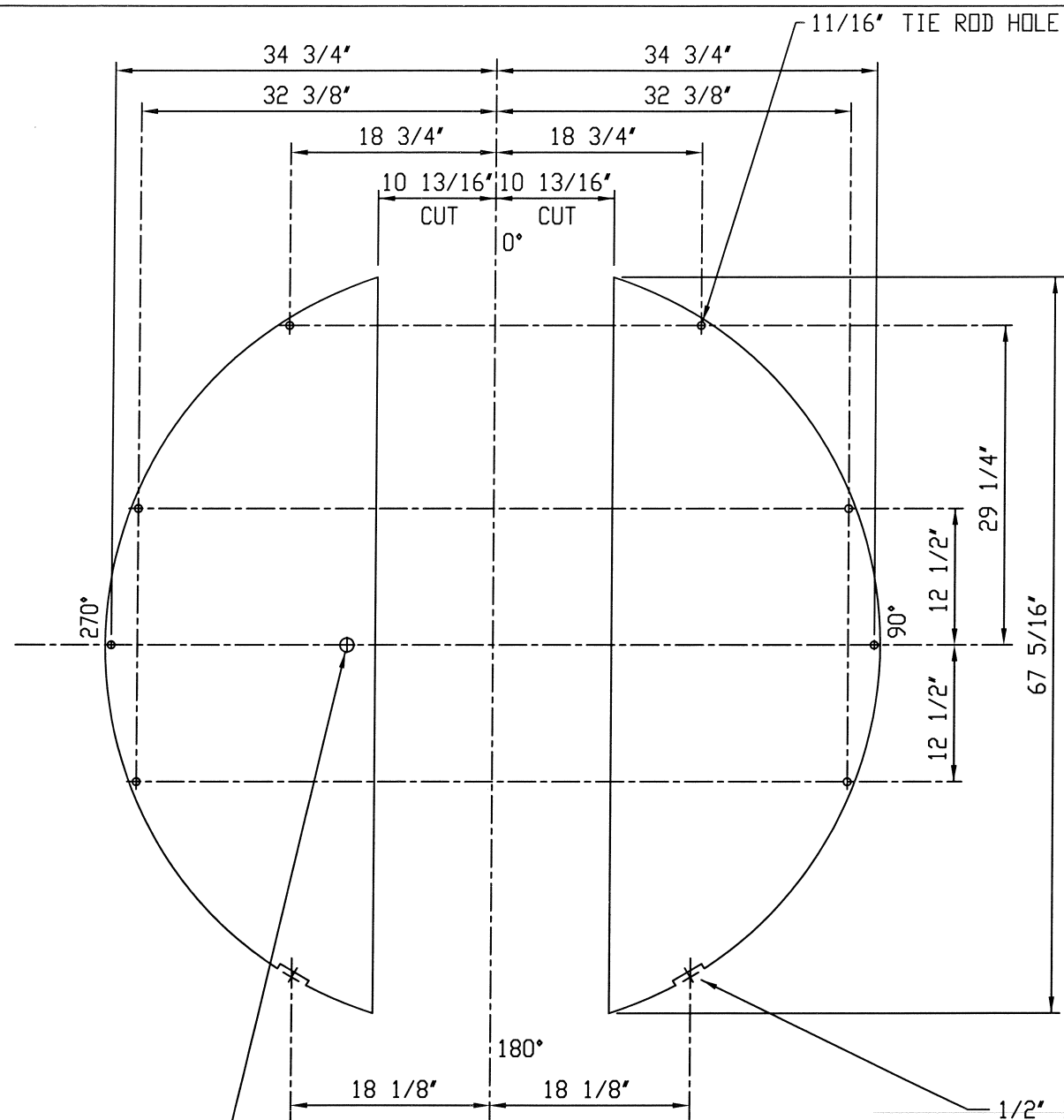
MACHINING DETAIL
VIEWED FROM MACHINED SIDE



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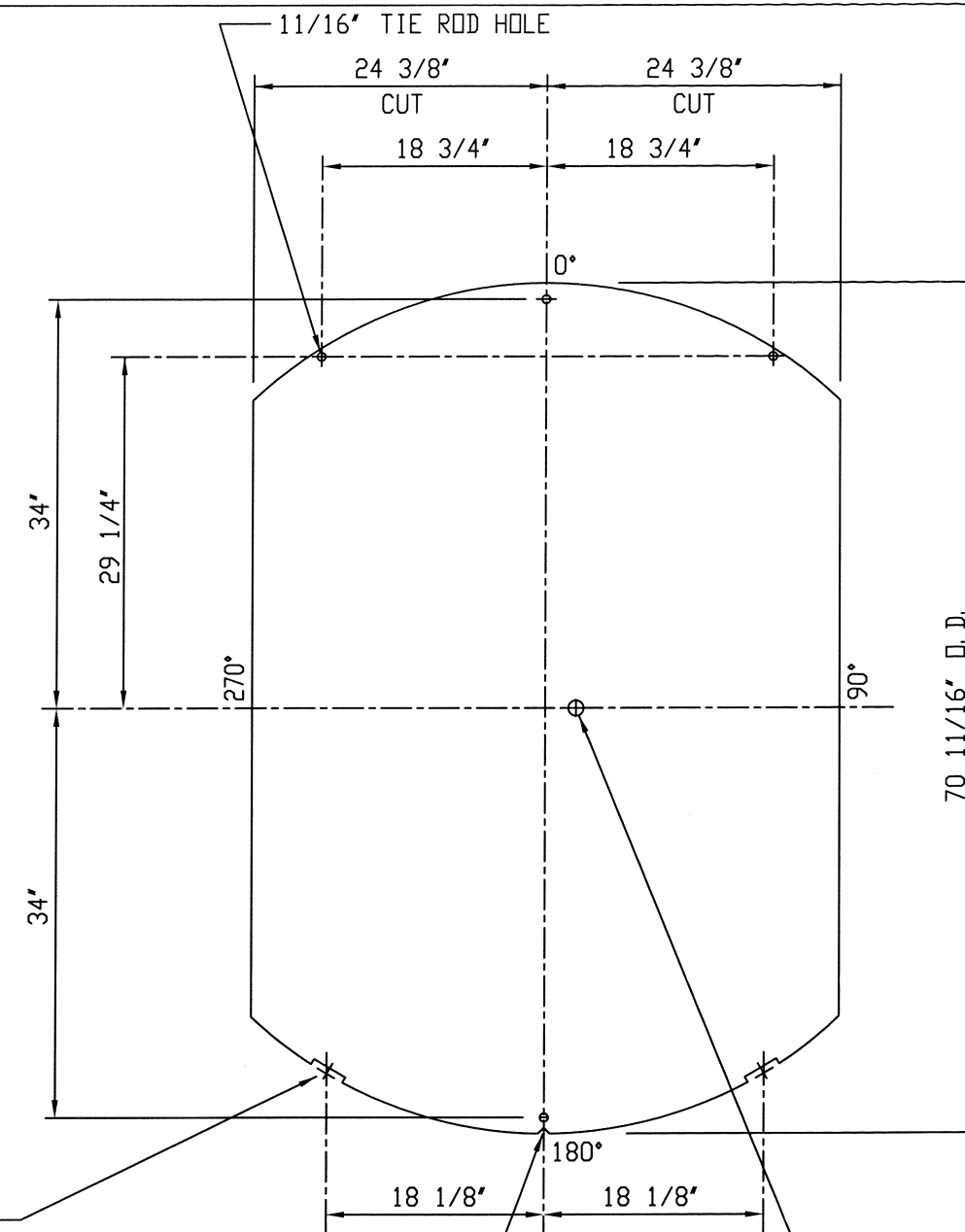
BUNDLE DETAIL

					DR. BY	D. L. L.	HTS 12928-7, 8.	
					DATE	4-16-07	DWG. NO.	REV
NO.	DATE	DESCRIPTION	BY	CHK	CHK. BY		B-2928-7-08	
REVISIONS								



1.28" TUBE HOLE DIA. IN BAFFLE

(407) BAFFLE
QUANTITY = 6



1/2" x 90° DRAIN NOTCH

1.28" TUBE HOLE DIA. IN BAFFLE

(406) BAFFLE
QUANTITY = 7

1/2" DEEP x 3 1/16" WIDE SLOTS
FOR 1/2" x 3" SLIDE BARS
2 PLACES AT 180°
TYPICAL ALL BAFFLES

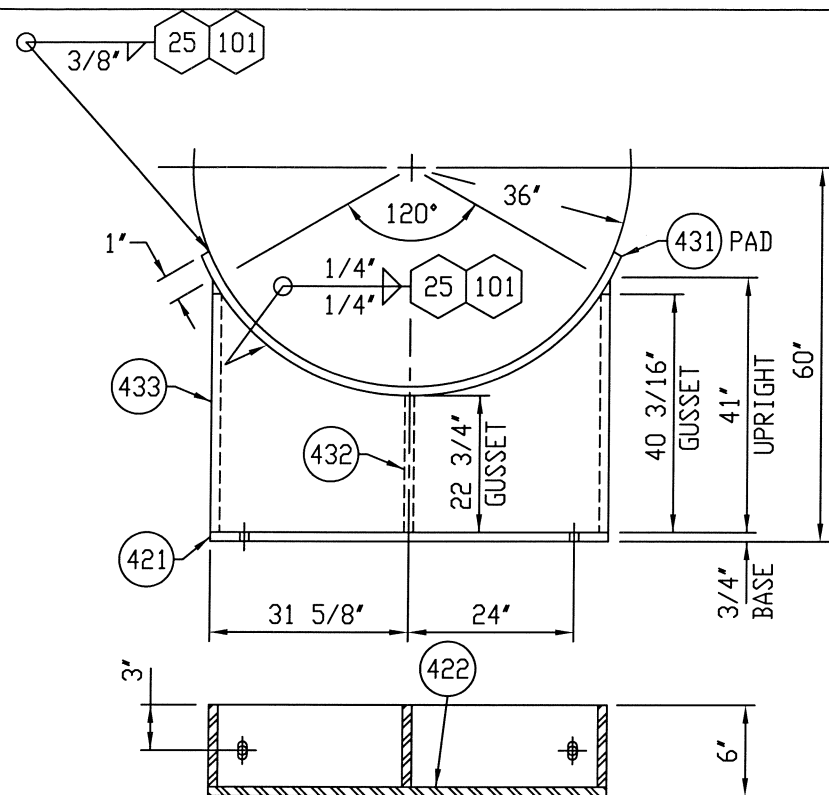


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12928-7, HEX

BAFFLE DETAIL

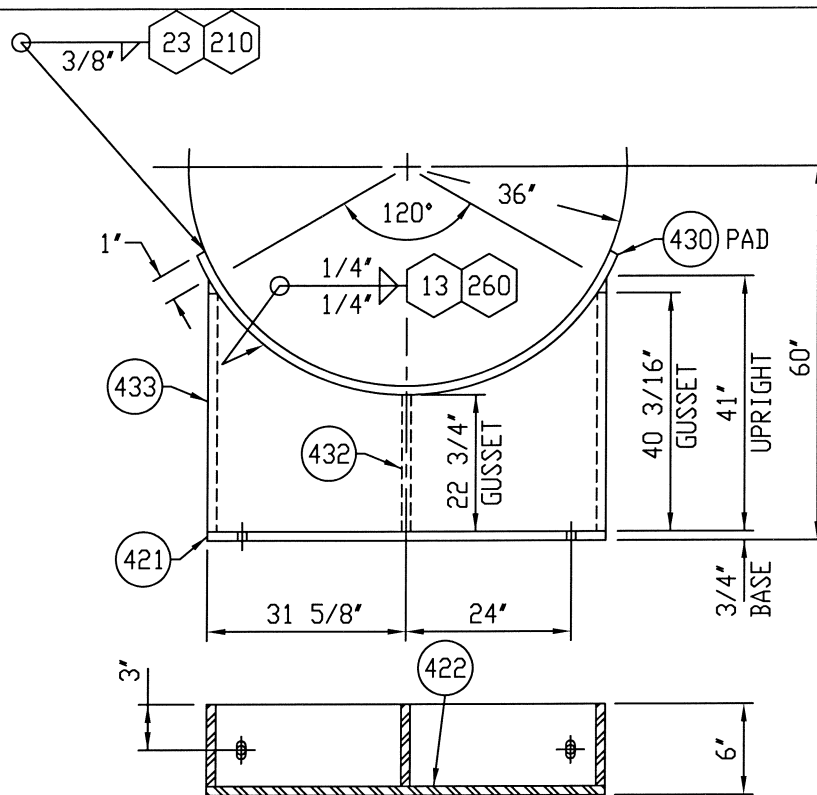
NO.	DATE	DESCRIPTION	BY	CHK	DR. BY	D. L. L.	HTS 12928-7, 8.	REV
					DATE	4-16-07	DWG. NO.	
					CHK. BY		B-2928-7-09	
REVISIONS								



SLOTTED HOLES: 1 1/4" DIA. x 2 1/4" LONG
BOLT HOLED: 1 1/4" DIA.

25 101 ALL WELDS NOT SHOWN TO BE 1/4"
CONTINUOUS WELDS ALL AROUND

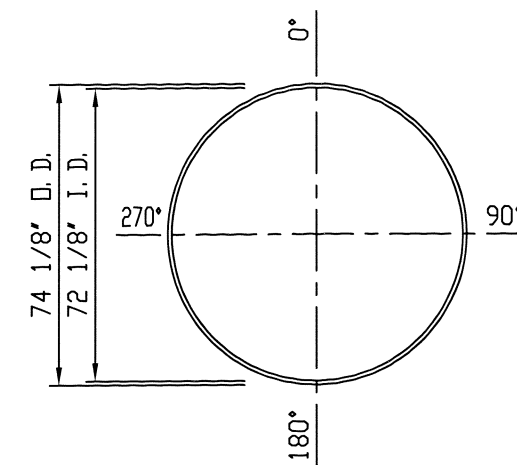
HEAT EXCHANGER
SADDLE SUPPORT DETAIL



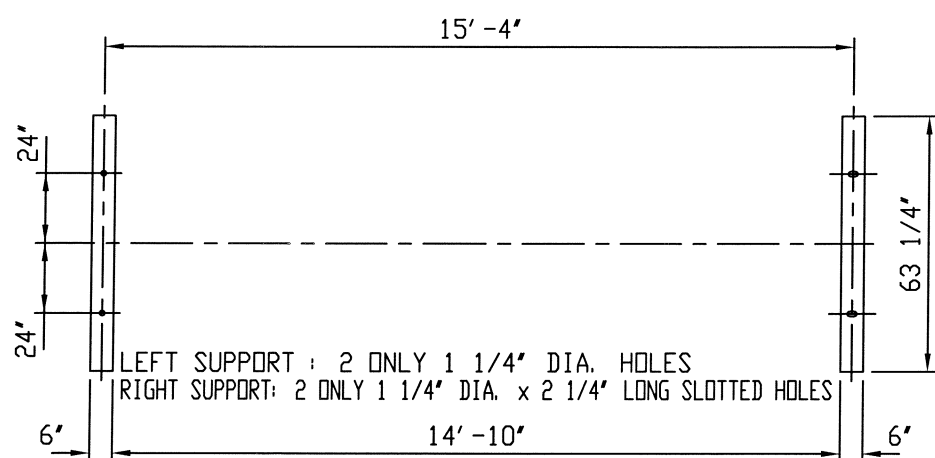
SLOTTED HOLES: 1 1/4" DIA. x 2 1/4" LONG
BOLT HOLED: 1 1/4" DIA.

25 101 ALL WELDS NOT SHOWN TO BE 1/4"
CONTINUOUS WELDS ALL AROUND

CHANNEL CYLINDER
SADDLE SUPPORT DETAIL

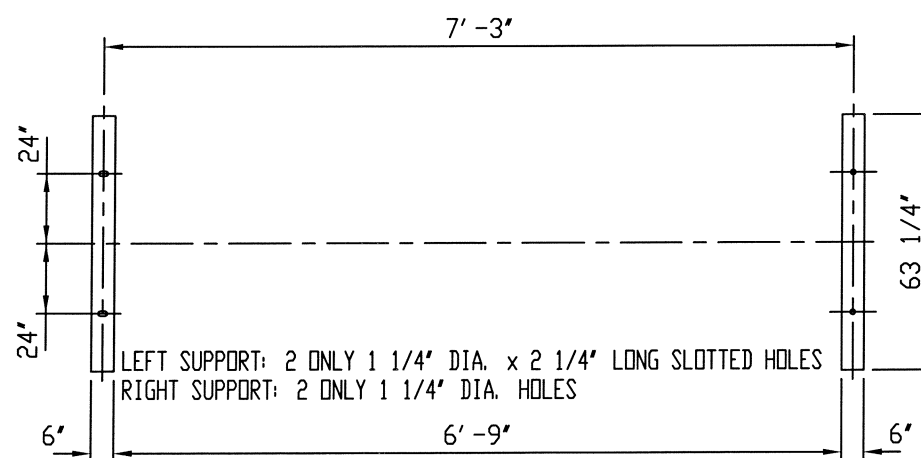


701 GASKET DETAIL
QUANTITY = 3
SCALE: 1/4" = 1'-0"
MATERIAL:
1/8" THK SOLID P. T. F. E.



LEFT SUPPORT: 2 ONLY 1 1/4" DIA. HOLES
RIGHT SUPPORT: 2 ONLY 1 1/4" DIA. x 2 1/4" LONG SLOTTED HOLES

HEAT EXCHANGER
ANCHOR BOLT SETTING PLAN SS
SCALE: 1/4" = 1'-0"



LEFT SUPPORT: 2 ONLY 1 1/4" DIA. x 2 1/4" LONG SLOTTED HOLES
RIGHT SUPPORT: 2 ONLY 1 1/4" DIA. HOLES

CHANNEL CYLINDER
ANCHOR BOLT SETTING PLAN SS
SCALE: 1/4" = 1'-0"

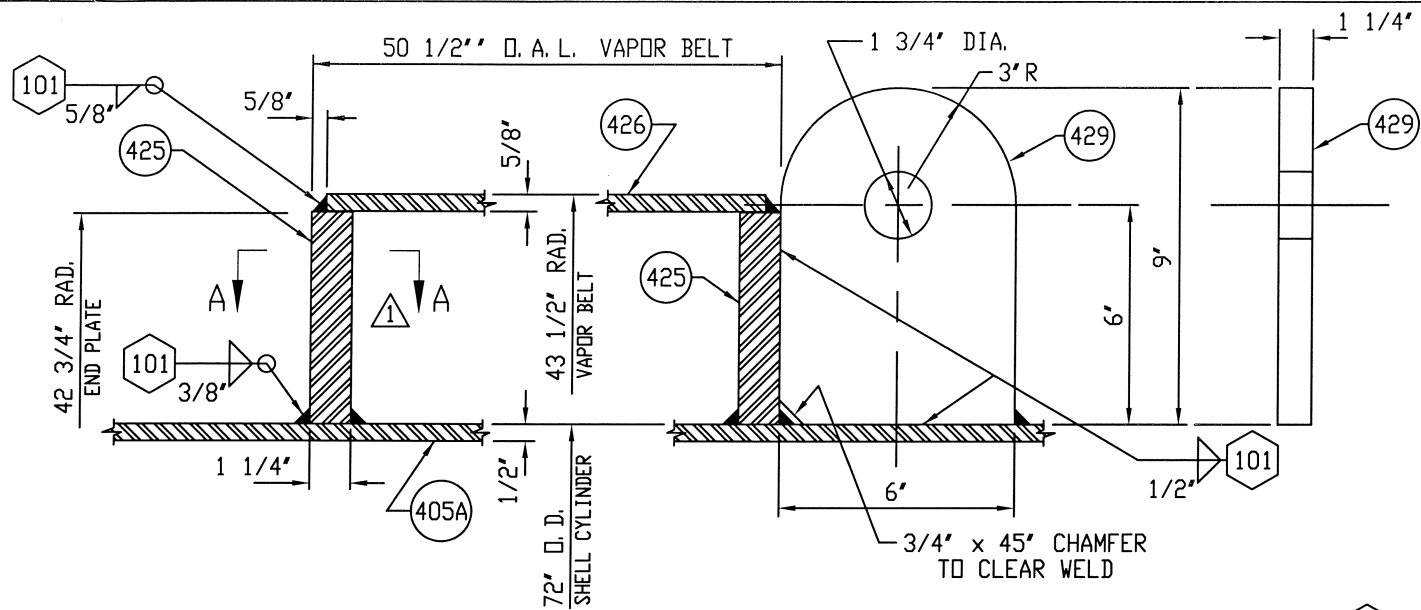


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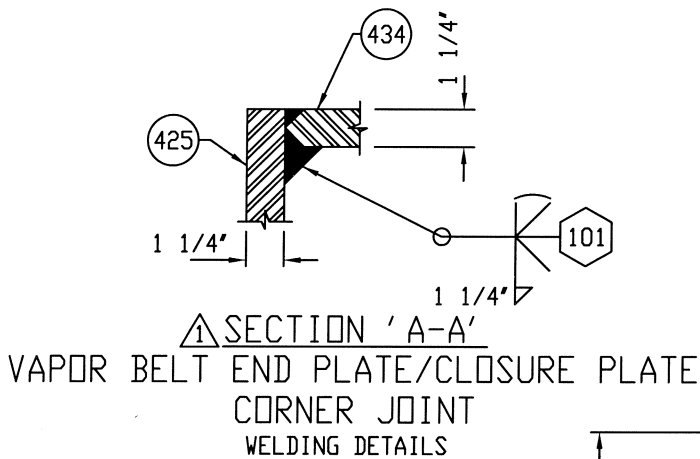
12928-7. HEX

SUPPORTS & GASKET DETAILS

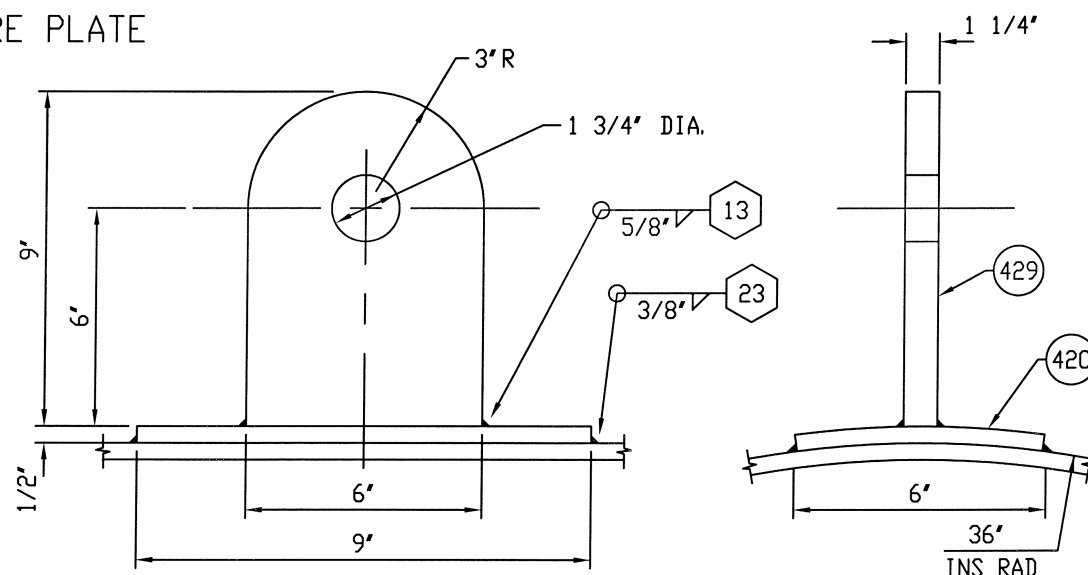
NO.	DATE	DESCRIPTION	BY	CHK	DR. BY	HTS 12928-7, 8.	REV
					DATE	DWG. NO.	
					4-16-07	B-2928-7-10	
REVISIONS					CHK. BY		



VAPOR BELT/END PLATE/VESSEL LIFT LUGS (AT 0°)
WELDING DETAILS

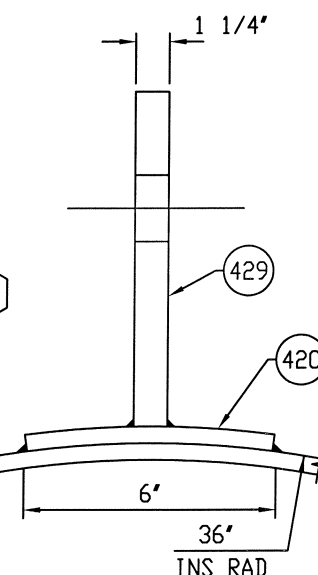


SECTION 'A-A'
VAPOR BELT END PLATE/CLOSURE PLATE
CORNER JOINT
WELDING DETAILS

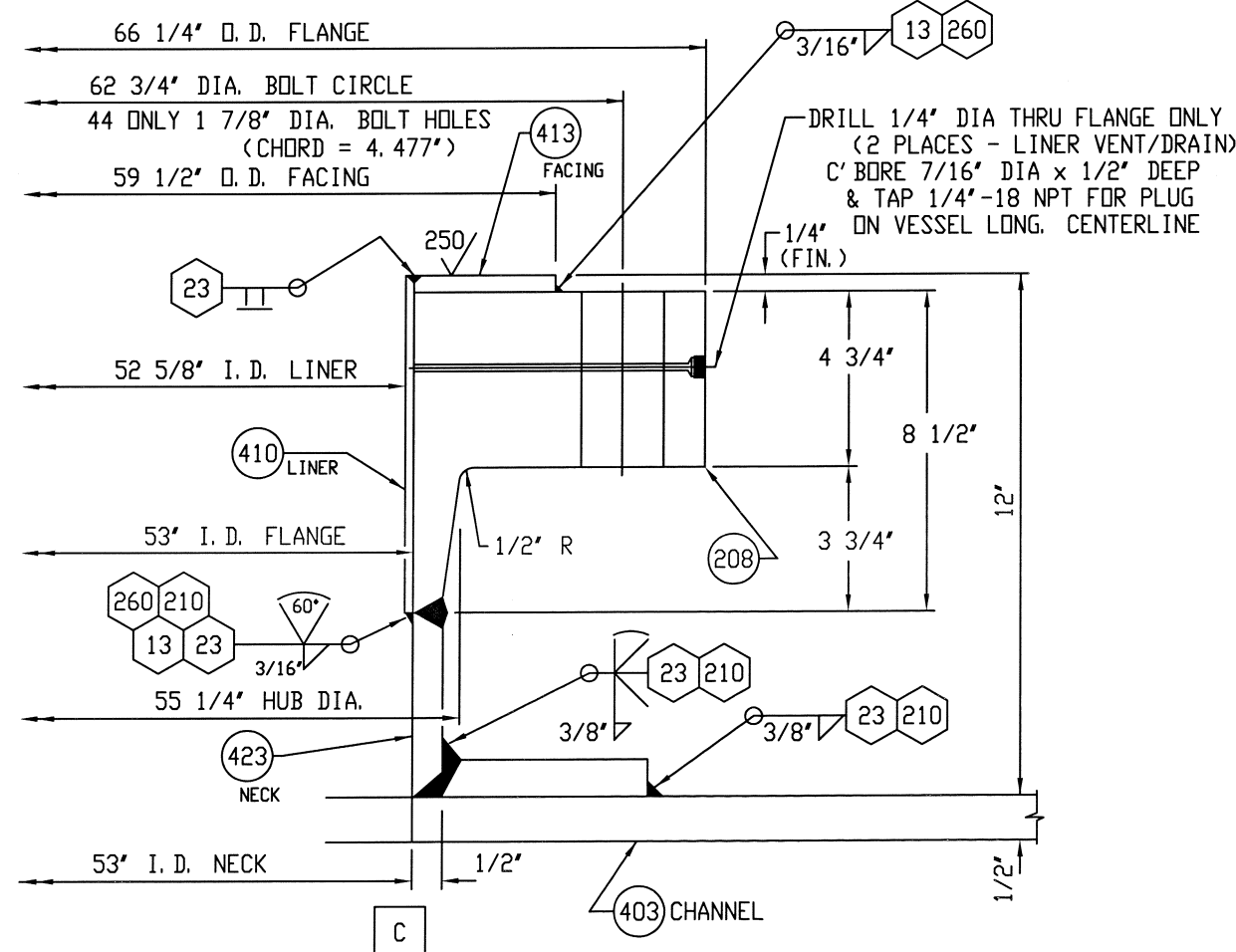
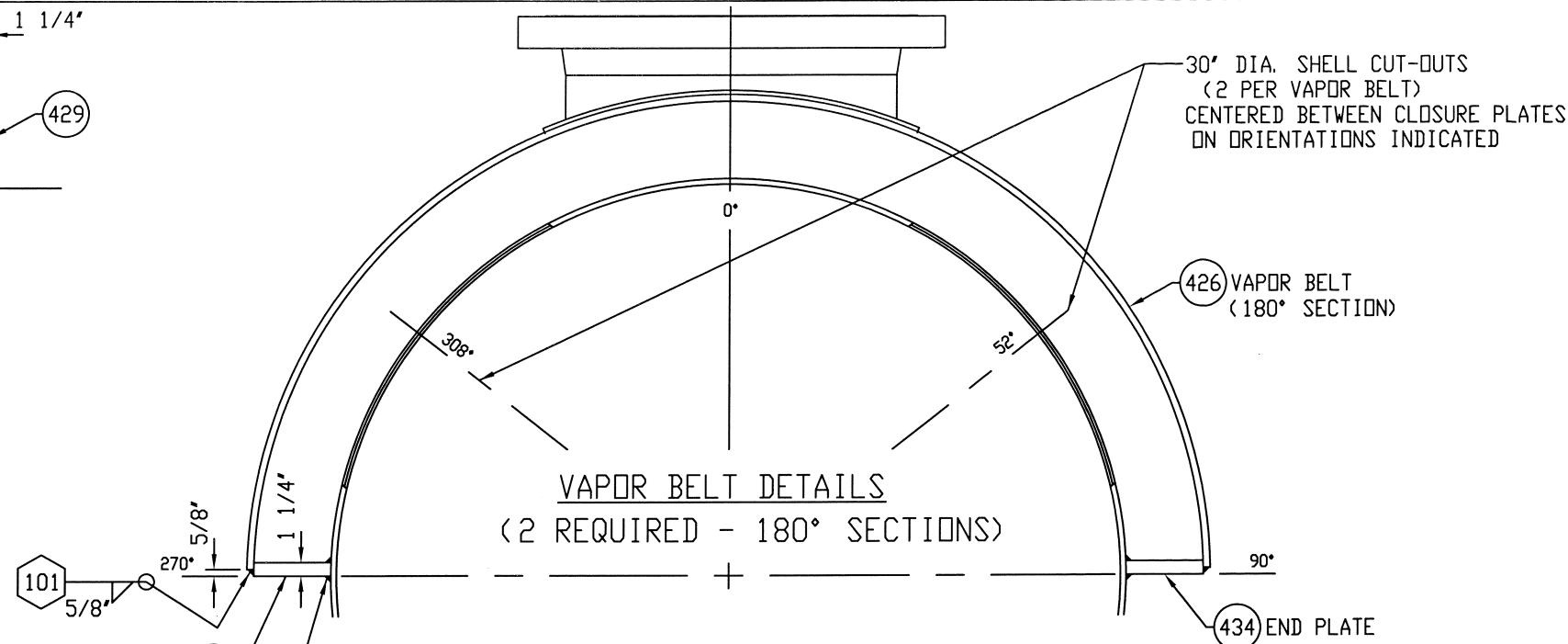


LL LIFTING LUG DETAIL (ON REMOVABLE CHANNEL)

1 REQUIRED
LIFTING LUGS SIZED FOR 1 1/2" NOM SHACKLES
RATED CAPACITY 60,000 LBS. (EACH)



LINED LAP JOINT NOZZLE - SET-ON CONSTRUCTION
54" CLASS 150 SERIES A FLANGE (H. T. S. TO FABRICATE PER ASME B16.47 - 1990)

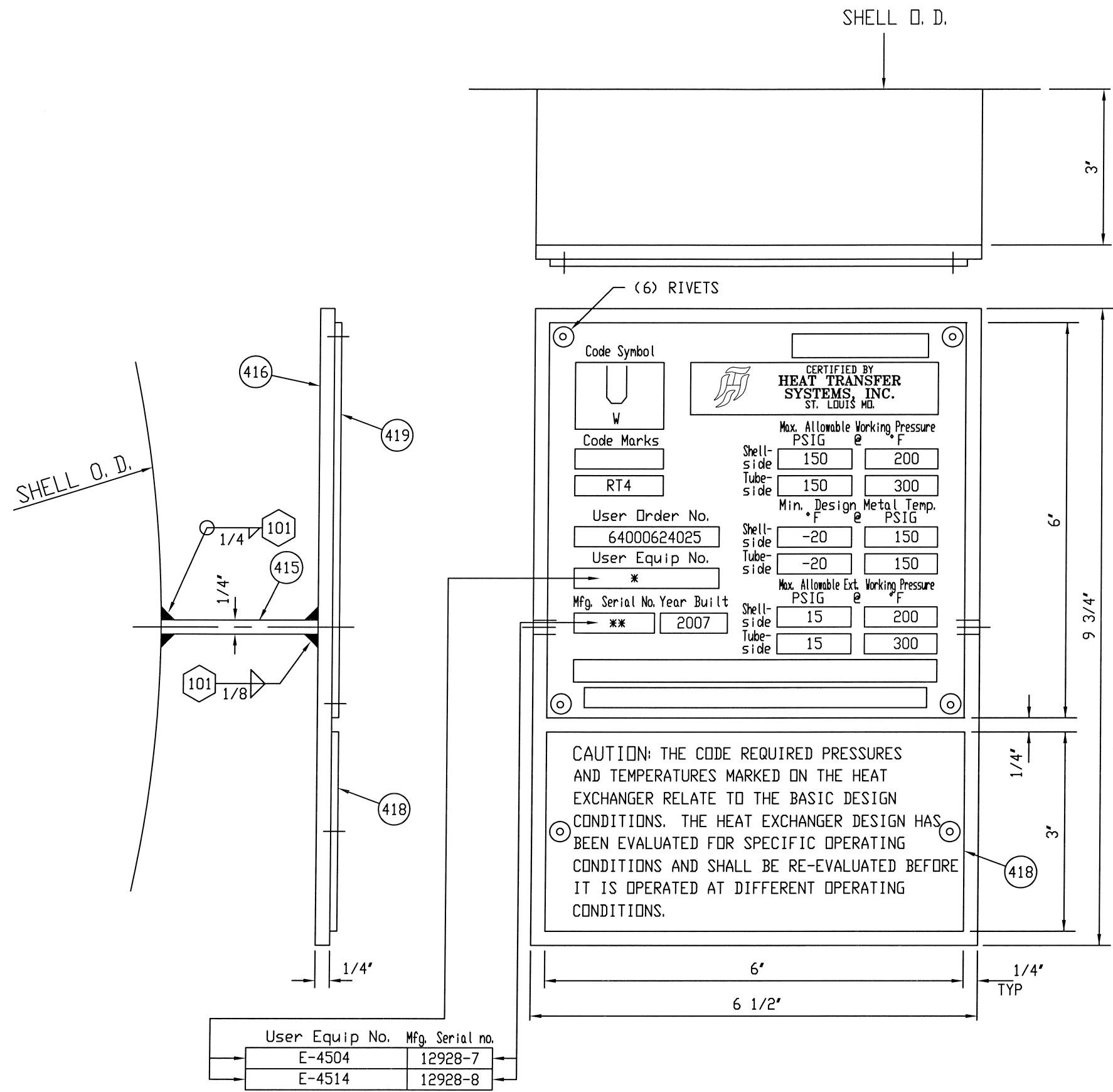


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12928-7. HEX

LINED 54" NOZ. C, VAPOR BELT & LIFTING LUG DETAILS

NO.	DATE	DESCRIPTION	BY	CHK	DR. BY	DATE	DWG. NO.	REV
8-1		ADDED CORNER JOINT DETAIL BY H. T. S.	D. L. L.	D. L. L.	D. L. L.	4-16-07	B-2928-7-11	1
REVISIONS								



HORIZONTAL NAME PLATE
WITH CODE CAUTION PLATE

				DR. BY	D. L. L.	HTS 12928-7, 8.	
				DATE	4-16-07	DWG. NO.	REV
				CHK. BY		B-2928-7-12	
NO.	DATE	DESCRIPTION	BY	CHK	REVISIONS		

[illegible]

- # - ADVANCED REQUISITIONED
- * - MATERIAL CERTIFICATION REQ'D
- ⊗ - MILL TEST REQ'D

HEAT TRANSFER SYSTEMS, INC

DR. BY D. L. L.				BILL OF MATERIALS						HTS 12928-7, 8,		
DATE 4-16-07				SIZE: 71 - 216 TYPE: AEM CUSTOMER: DELTA T CORP.						SHEET 2 OF 10		
CHK. BY				TWO UNITS REQUIRED P.D. NO.: 64000624025								
PART NAME	NQ.	MATERIAL	DESCRIPTION			QUANTITY EA. TOT.		VENDOR	P. Q. NO.	PROM ISED	REC'D	HEAT NUMBER ACTUAL COST
B, A	201	SA-105N	5 3/8" THK x 38 3/4" O. D. x 29" I. D. <FIN. DIM.>			2	4					
J, K	202	SA-182-F304L	2' 150# ANSI B16. 5 RF SD FLANGE			2	4					
H	203	SA-182-F304L	3' 150# ANSI B16. 5 RF SD FLANGE			1	2					
G	204	SA-182-F304L	4' 150# ANSI B16. 5 RF SD FLANGE			1	2					
F2, F1	205	SA-182-F304L	1/2' 3000# HALF THRD CPLG			2	4					
F1, F2	206	SA-182-F304L	1/2' DIA MPT HEX HD PLUG			2	4					
D, E	207	SA-105	6' 150# ANSI B16. 5 RF SD FLANGE			2	4					
C	208	SA-105N	8 1/2' THK x 66 1/4" O. D. x 53" I. D. <FIN. DIM.>			1	2					
FLANGE	209	SA-105N	7' THK x 77 7/8" O. D. x 72 1/8" I. D. <FIN. DIM>			3	6					

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- ⊙ - MILL TEST REQ'D

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DR. BY D. L. L.		8-1-2007		D. L. L.		BILL OF MATERIALS	HTS 12928-7, 8.
DATE 4-16-07		6-18-2007		D. L. L.			
		DATE		BY			
CHK. BY D. L. L.				REVISIONS		SIZE: 71 - 216 TYPE: AEM	CUSTOMER: DELTA T CORP.
						TWO UNITS REQUIRED	P. D. NO.: 64000624025
							SHEET 4 OF 10

PART NAME	NO.	MATERIAL	DESCRIPTION	QUANTITY		VENDOR	P. O. NO.	PROG I S E D	REC'D	HEAT NUMBER	
				EA.	TOT.					ACTUAL	COST
CHANNEL	401	SA-240-304	3/8" THK x 18'-9" x 2'-2 5/8" LG, ROLL 72" O.D. x 2'-2 5/8" LG	1	2						
CHANNEL	402	SA-240-304	1/2" THK x 18'-8 5/8" x 2'-4 13/16" LG, ROLL 72" O.D. x 2'-4 13/16" LG	1	2						
CHANNEL	403	SA-240-304	1/2" THK x 18'-8 5/8" x 8'-0" LG, ROLL 72" O.D. x 8'-0" LG	1	2						
SHELL	404	SA-516-70	1/2" THK x 18'-8 5/8" x 19 1/8" LG, ROLL 72" O.D. x 19 1/8" LG	1	2						
SHELL	405A	SA-516-70	1/2" THK x 18'-8 5/8" x 8'-0" LG, ROLL 72" O.D. x 8'-0" LG	2	4						
BAFFLE	406	SA-36	1/2" THK x 70 11/16" O.D. (FIN. DIM)	7	14						
BAFFLE	407	SA-36	1/2" THK x 70 11/16" O.D. (FIN. DIM)	6	12						
TUBESHEET	408	SA-240-304/304L DUAL CERT.	2 1/2" THK x 77 7/8" O.D. (FIN. DIM)	1	2						
TUBESHEET	409	SA-240-304/304L DUAL CERT.	2 1/2" THK x 77 7/8" O.D. (FIN. DIM)	1	2						
C LINER	410	SA-240-304L	3/16" THK x 13'-9 7/8" x 8 5/8" LG, ROLL 53" O.D. x 8 5/8" LG	1	2						
E,D REPAD	411	SA-240-304	1/4" THK x 10 3/4" x 10 5/8" LG, ROLL 36" INS. RAD. x 10 5/8" LG	2	4						
C REPAD	412	SA-240-304	1/2" THK x 68" x 61" LG, ROLL 36" INS. RAD. x 61" LG	1	2						
C FACE	413	SA-240-304L	3/8" THK x 59 1/2" O.D. x 53" I.D. (FIN. DIM.)	1	2						
CVR FACE	414	SA-240-304L	3/8" THK x 73 3/4" O.D.	1	2						

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HEAT TRANSFER SYSTEMS, INC.

DR. BY D. L. L.					
DATE 4-16-07					
CHK. BY 		DATE	BY		
		REVISIONS			

PART NAME	ND.	MATERIAL	DESCRIPTION	QUANTITY		VENDOR	P. O. NO.	PROCESSED	REC'D	HEAT NUMBER	
				EA.	TOT.					ACTUAL	COST
NAME PLATE	415	SA-36	1/4" THK x 3' x 6 1/2" LG	1	2						
NAME PLATE	416	SA-36	1/4" THK x 6 1/2' x 9 3/4' LG	1	2						
B, A REPAD	417	SA-516-70	1/2" THK x 35' x 34' LG, ROLL 43 1/2' INS. RAD. x 34' LG	2	4						
CAUTION PLATE	418	S/S	HTS STANDARD CODE CAUTION PLATE	1	2						
NAME PLATE	419	S/S	HTS STANDARD NAMEPLATE	1	2						
LUGS	420	SA-240-304	1/2" THK x 6' x 9' LG, ROLL 36' INS. RAD. x 9' LG	1	2						
SAJL SUPP BASE	421	SA-516-70	3/4" THK x 6' x 63 1/4' LG	4	8						
SAJL SUPP VERT	422	SA-516-70	1/2" THK x 63 1/4' WD x 41' LG	4	8						
C NECK	423	SA-240-304/304L DUAL CERT.	1/2" THK x 14'-0 1/16' x 16' LG, ROLL 54' D.D. x 16' LG	1	2						
A, B NECK	424	SA-516-70	1/2" THK x 7'-8 11/16' x 6' LG, ROLL 30' D.D. x 6' LG	2	4						
CLOSURE PL	425	SA-516-70	1 1/4" THK x 85 1/2' D.D. x 72 1/8' I.D. (1 RING CUTS TWO HALF-CIRCLE CLOSURE PLATES)	2	4						
VPR BELT	426	SA-516-70	5/8" THK x 11'-2 11/16' x 4'-1 1/4' LG, ROLL 42 7/8' INS RAD x 4'-1 1/4' LG	2	4						
COVER	427	SA-516-70N	(VAPOR BELT SECTION - 180° HALF-CYLINDER) 4" THK x 77 7/8' D.D. (FIN. DIM)	1	2						
HEAD	428	SA-240-304	5/16" MIN, 3/8" NOM x 72' OD ASME 2 1 S.E. HD, 1 1/2' SF, DAH = 19 11/16'	1	2						

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