



## Specialty Fabrications



- Manifolds
- Dip Tubes
- Specialty Fittings
- Large Diameter Fittings
- Transition Fittings
- Fabrications

# VNE Specialty Products

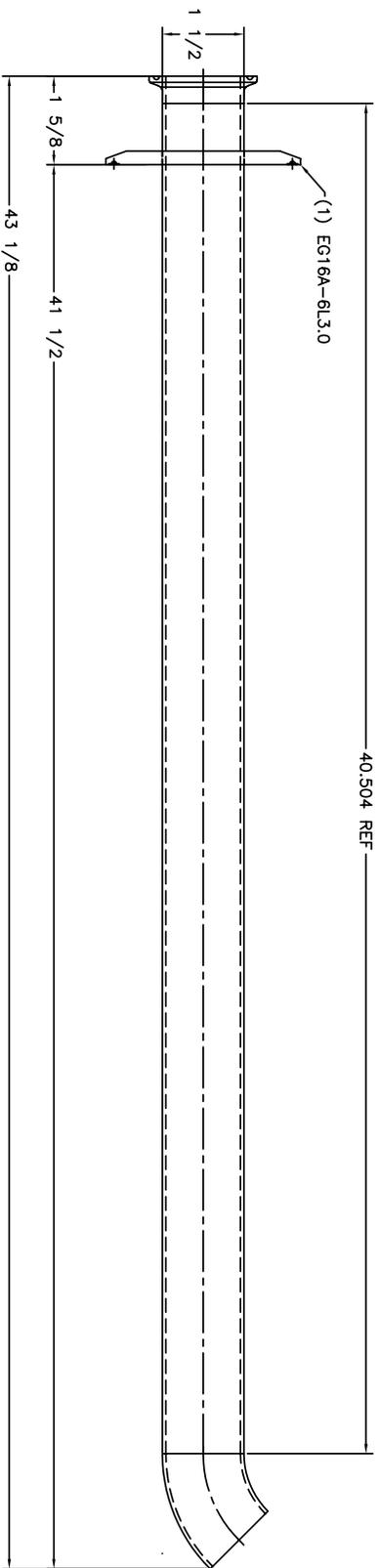
The VNE Manufacturing Division is a leading producer of specialty fittings, pulled manifolds, and stainless steel fabrications. We serve the dairy, food, beverage, biopharmaceutical and other hygienic industries. VNE strives to provide quick responses to your inquiries, have good competitive pricing, deliver in a timely manner, and supply the finest quality in our business today.

Our special products and capabilities are very diverse within our modern fabrication department. Our size range is 1/2" through 8.0", I.D. finished from 10Ra electropolish up to 32 Ra mechanical as well as mill finish. VNE capabilities include CNC machining, extruding / pulling up to 6.0" on manifolds and tees. We manufacture special fittings per your design, precision manifolds, transition adapters, dip tubes and much more. Our engineering staff is available to help with the design and development process to further help our customers.

VNE is proud of our experienced staff who takes great pride in producing the finest special fabrications. It is our state of the art machinery and modern facility coupled with our willingness to create 100% customer satisfaction that makes VNE your choice!

# Table of Contents

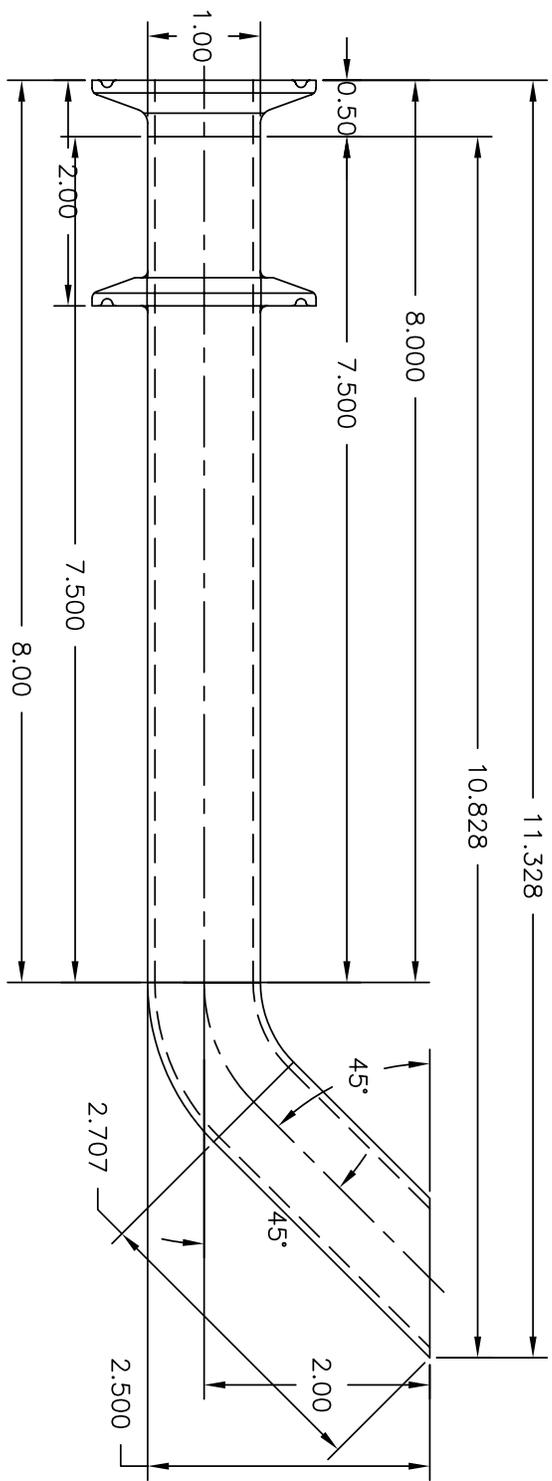
<b>Print #</b>	<b>Part Number</b>	<b>Descriptions</b>
1	CS76-Q3930	1.5 x 3.0 x 41.5" OAL Dip Tube
2	204A003	1.0 x 1.5 Clamped Dip Tube w/45° b/w angle
3	CS29-74676	Intermediate Tank Spray Ball Connector
4	CS229-08AP504325	3.0" Tube Assembly w/ cross
5	CS253-Q3673	2.0" SCH40 x 1.5 clamp port Manifold (pickle finish)
6	CS660-206A378	"T" Type Manifold 21.375" OAL
7	CS413-0501235-005REVC	6.0 x 3.0 Manifold w/ 2.5" clamp ports
8	CS227-C755-9699	1.5" Modified Tee Cross
9	CS399-0020967	1.5 Clamp x Clamp Offset Tube Assembly
10	CS283-5C-011159	Manifold Inlet DI Pump Stand
11	CS229-100353	1.5 x .5 Two Flavor Suction Manifold
12	CS162-6084MC-0	Tri-Powder Inlet Assembly
13	CS639-PG3338813-0	Product Manifold
14	CS485-3283836	Heater Supply Pipe Assembly (Glass Bead Finish)
15	CS198-C1005C10001D01	Body Closed for Head Hopper
16	CS76-0601318-001	6.0 Manifold w/2.0 & 1.5" Tri-Clamp Ports 40.95 OAL
17	CS229-558W1093HL	Inlet Manifold Half Liter
18	CS663-2297	Valve Tree Stand



NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF VNE AND IS LENT TO THE BORROWER FOR CONFIDENTIAL USE ONLY, AND IN CONSIDERATION FOR THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED.

NOTE: BREAK SHARP CORNERS .015 R MAX

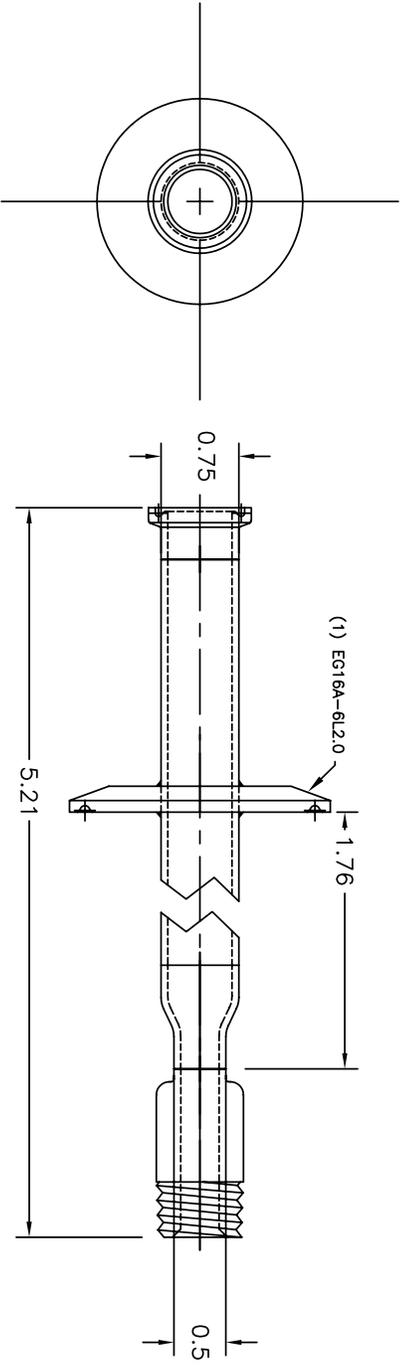
<small>INDUSTRIAL SYSTEMS</small> <small>ENGINEERING SYSTEMS</small> <small>DESIGN/CONSTRUCTION</small>		 <small>VNE MANUFACTURING SYSTEMS</small>
<small>XXX ± .005</small> <small>XX ± .010</small> <small>X ± .015</small> <small>FRACTIONAL ± 1/32</small> <small>ANGULAR ± .5°</small>	<small>SCALE: NTS</small> <small>DATE: 11/28/06</small> <small>CST76-Q3930 1.5 X 3" CL DIP TUBE</small>	
<small>VNE</small>		<small>MAT'L: T316L</small>



NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF VNE AND IS LENT TO THE BORROWER FOR CONFIDENTIAL USE ONLY, AND IN CONSIDERATION FOR THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED.

NOTE: BREAK SHARP CORNERS .015 R MAX

UNLESS INDICATED OTHERWISE	UNLESS INDICATED OTHERWISE
DECIMAL	DECIMAL
XXX ± .005	SCALE: NTS
XX ± .010	DRAWN BY: DJG
X ± .015	DATE: 10/28/03
FRACTIONAL	FIN: 15RAE-P ID & 20RA OD
± 1/32	2044003 1.0 CL X 1.5 CL X 1.0 B/W DIP TUBE
ANGULAR	VNE
± .5°	MAT'L: T316L



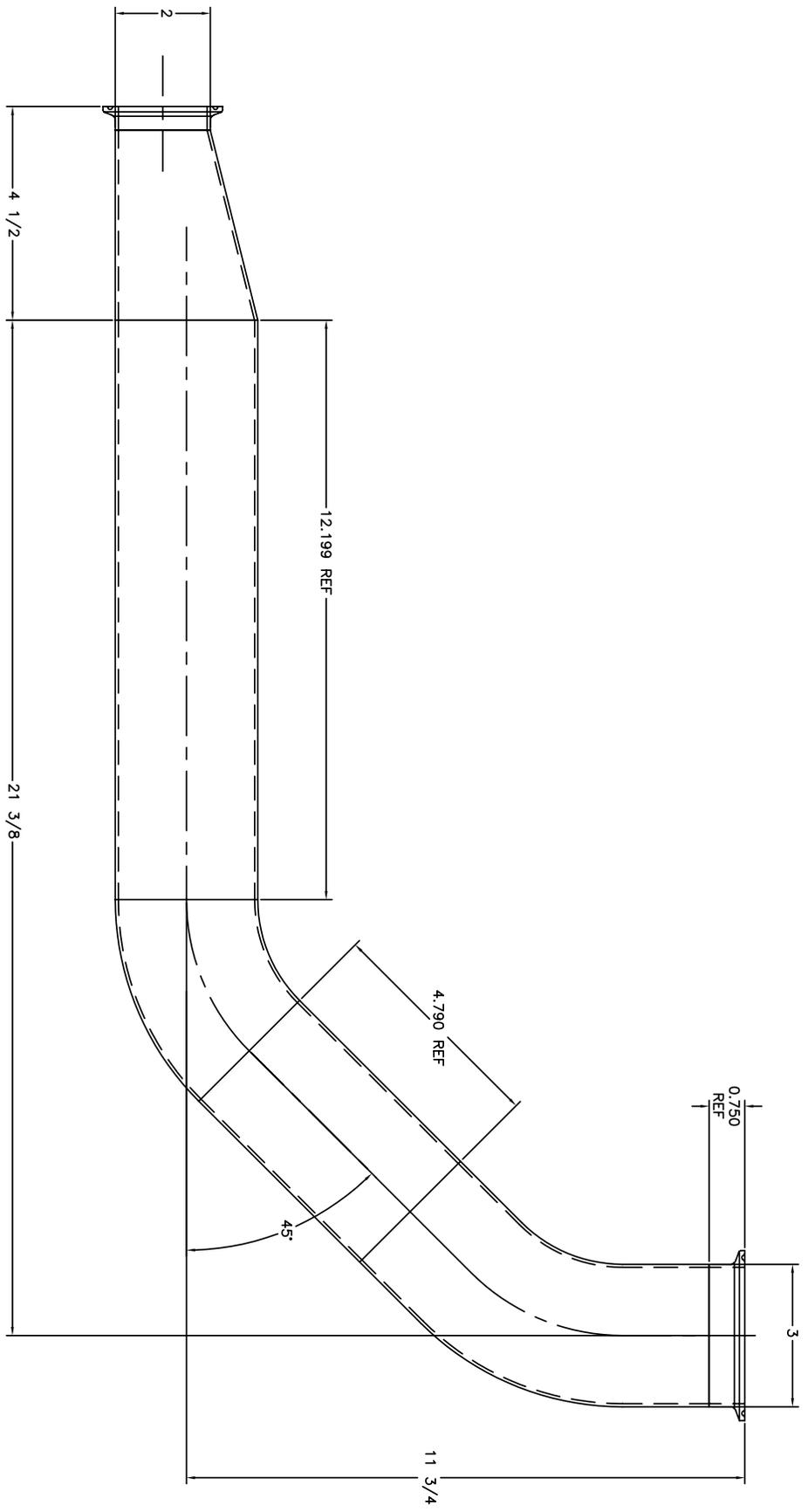
NOTE: BREAK SHARP CORNERS .015 R MAX



TOLERANCES UNLESS OTHERWISE SPECIFIED DECIMAL XXX ±.005 XX ±.010 X ±.015 FRACTIONAL ± 1/32 ANGULAR ± .5°		SCALE: NTS DATE: 08/20/07 CS29-74676 TANK SPRAY BALL CON. FUL POL.	
DRAWN BY: CAH FINISH: 32RA ID, 32RA OD		VNE MAT'L: T316L	

NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF VNE AND IS LENT TO THE BORROWER FOR CONFIDENTIAL USE ONLY. IT IS NOT TO BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY NOR USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED.

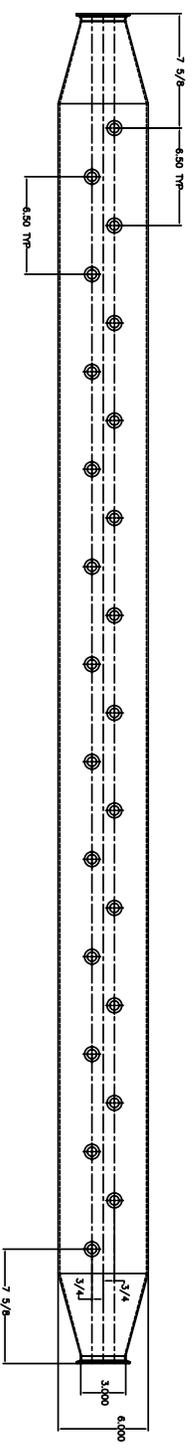
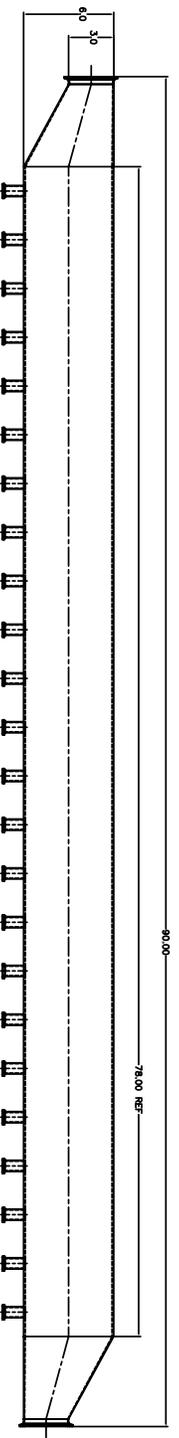




NOTE: BREAK SHARP CORNERS .015 R MAX

TOLERANCES UNLESS OTHERWISE SPECIFIED			
DECIMAL			
XXX ± .005	SCALE: 1=1	APPROVED BY:	DRAWN BY: CAH
XX ± .010	DATE: 12/08/06		FIN: #7 32RA
X ± .015			
FRACTIONAL			
± 1/32	CS660-206A378 "K" TYPE MANIFOLD 11-3/4" C TO F HEIGHT #7 32RA		
ANGULAR			
± .5°	VNE		MAT'L: T316L

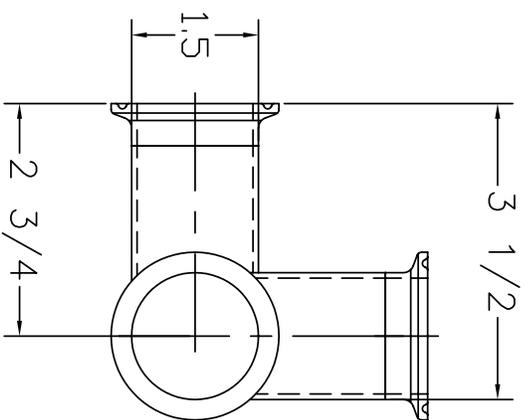
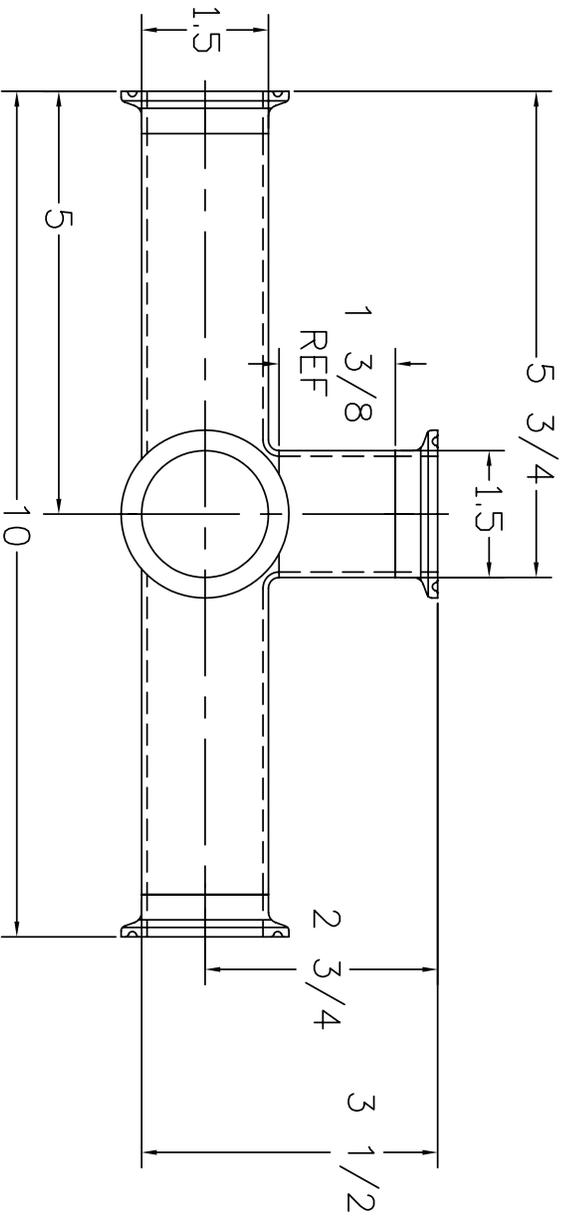
NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF VNE AND IS LENT TO THE BORROWER FOR CONFIDENTIAL USE ONLY, AND IN CONSIDERATION FOR THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND PROMISES NOT TO REPRODUCE, COPY, REPRODUCE, OR OTHERWISE DISPOSE OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED.



NOTE: BREAK SHARP CORNERS .015 R MAX

TOLERANCES UNLESS OTHERWISE SPECIFIED		VNE MANUFACTURING DIVISION	
DECIMAL	XXX ± .005	SCALE: NTS	APPROVED BY:
FRACTIONAL	XX ± .010	DATE: 08/21/08	DRAWN BY: CAH
ANGULAR	X ± .015		FINISH: RA 10, MILL DD
	± 1/32	CS413-0901235-005BVC 6 X 3 MANIFOLD 90° OAL W/24 CLD PORTS POL ID ONLY	
	± .5°		MAT'L: T316L
		VNE	

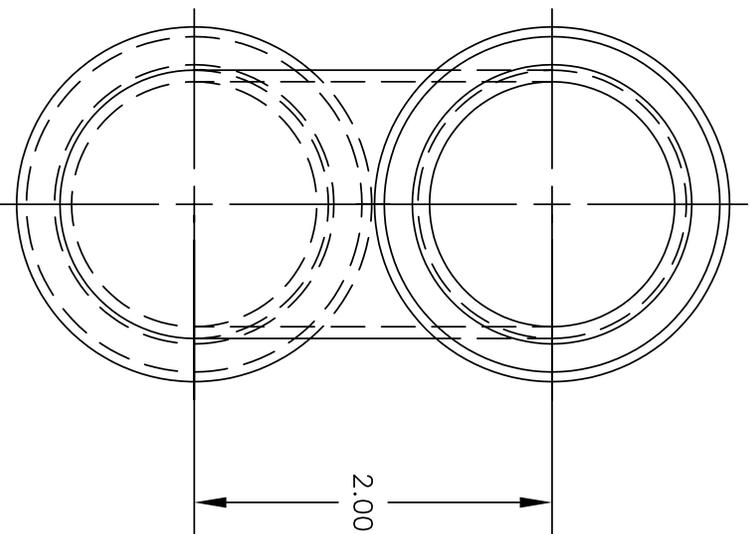
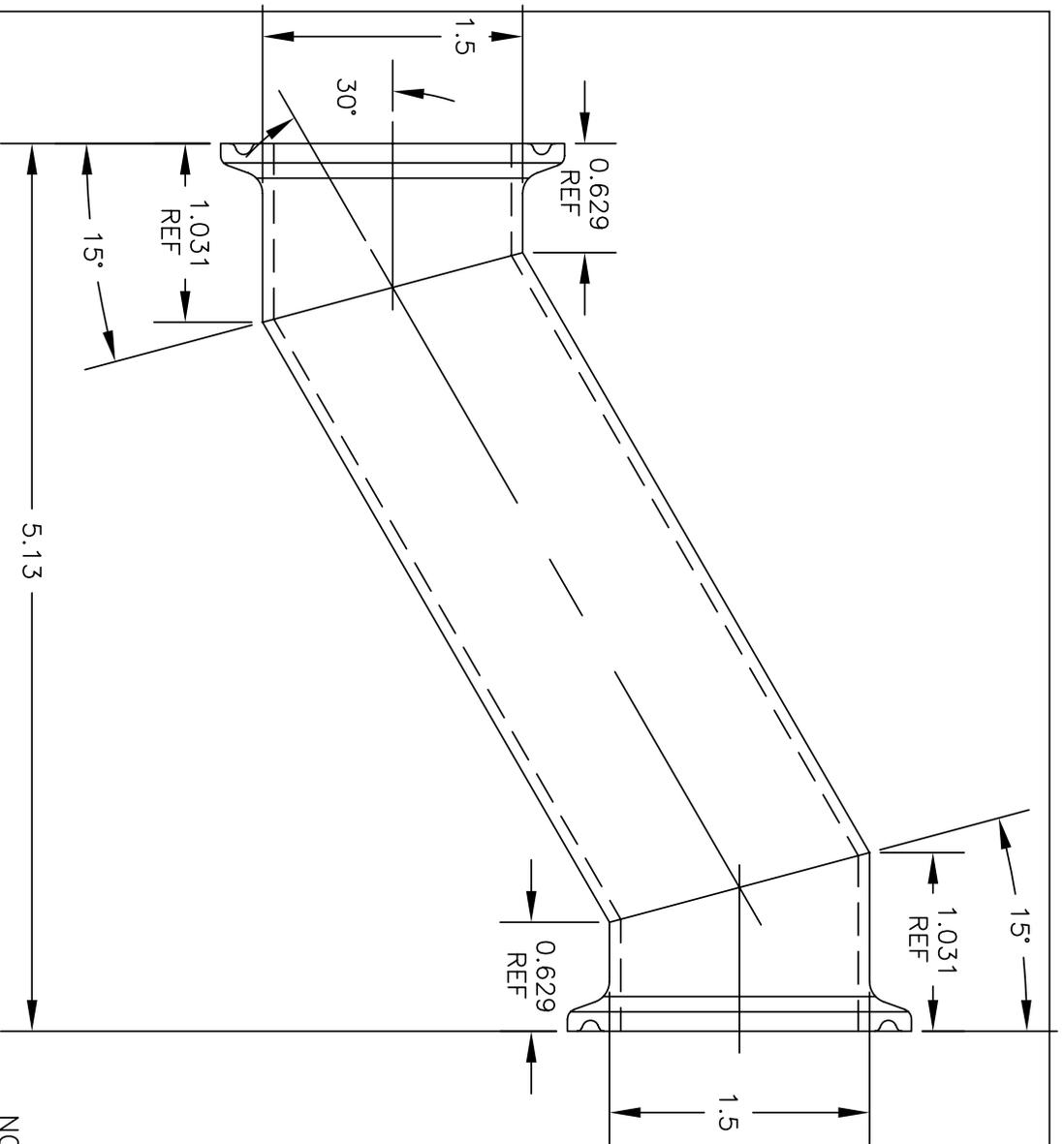
NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF VNE AND IS LENT TO THE BORROWER FOR CONFIDENTIAL USE ONLY AND IN CONSIDERATION FOR THE LOAN OF THIS DRAWING THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED.



NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF VNE AND IS LENT TO THE BORROWER FOR CONFIDENTIAL USE ONLY, AND IN CONSIDERATION FOR THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED.

NOTE: BREAK SHARP CORNERS .015 R MAX

TOLERANCES UNLESS OTHERWISE SPECIFIED		 <b>VNE</b> MANUFACTURING DIVISION	
DECIMAL	XXX ± .005	SCALE: 1=1	APPROVED BY:
FRACTIONAL	XX ± .010	DATE: 06/04/08	DRAWN BY: CAH
ANGULAR	X ± .015		FIN: #7 32RA
	± 1/32	CS227-C755-9699 1.5" MODIFIED CROSS FULL POL	
	± .5°	VNE	MAT'L: 1316L



NOTE: BREAK SHARP CORNERS .015 R MAX

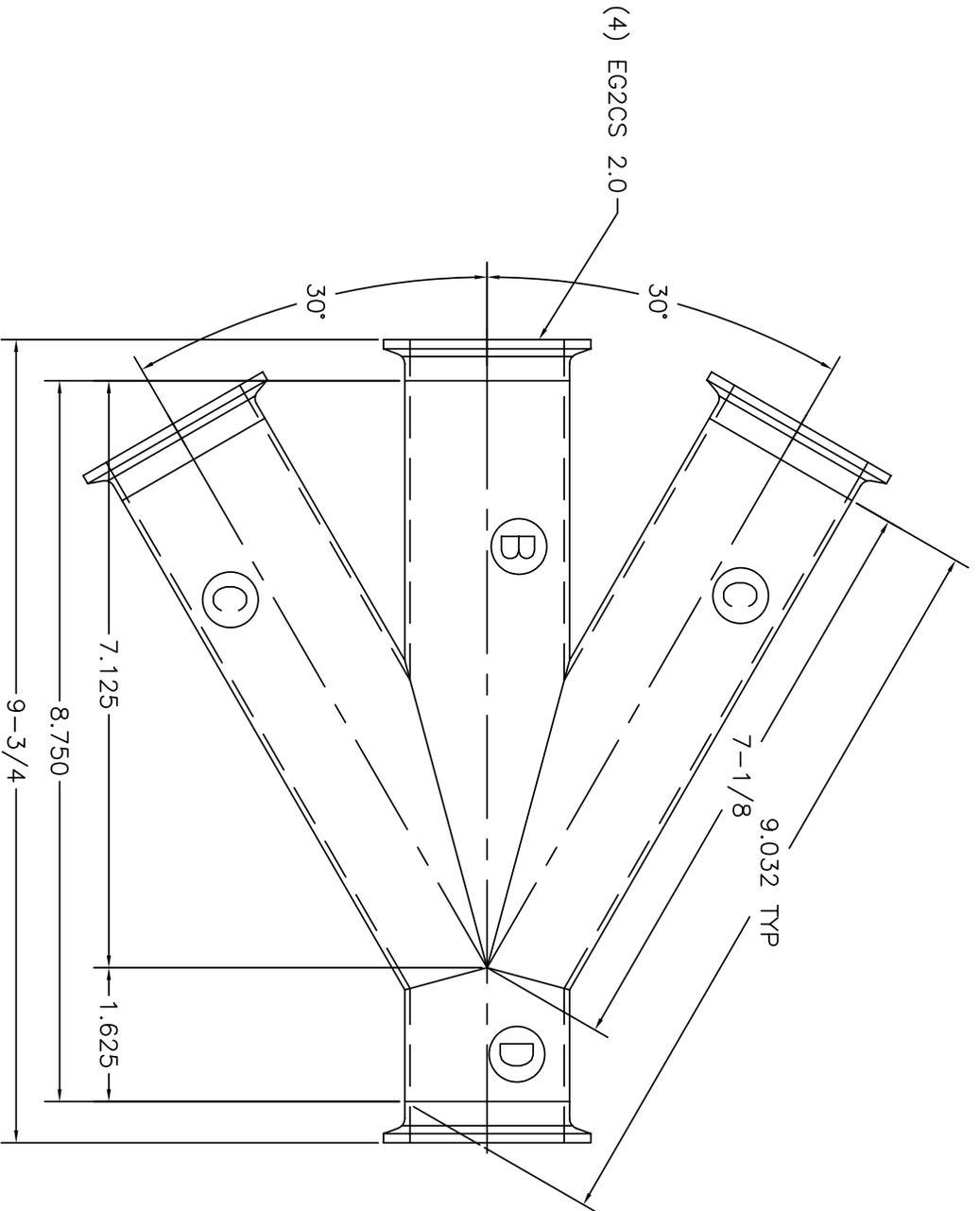
NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF VNE AND IS LENT TO THE BORROWER FOR CONFIDENTIAL USE ONLY, AND IN CONSIDERATION FOR THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED.

TOLERANCES UNLESS OTHERWISE SPECIFIED	
DECIMAL	XXX ± .005
	XX ± .010
	X ± .015
FRACTIONAL	± 1/32
ANGULAR	± .5°

 <b>VNE</b> MANUFACTURING DIVISION		
SCALE: 1=1	APPROVED BY:	DRAWN BY: DJG/CAH
DATE: 05/24/04		FIN: #7 32RA
CS399-0020967 1-1/2" OFFSET TUBE #7 32RA		
VNE	MAT'L: T304	





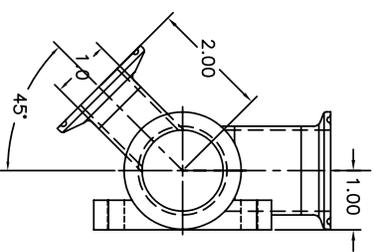
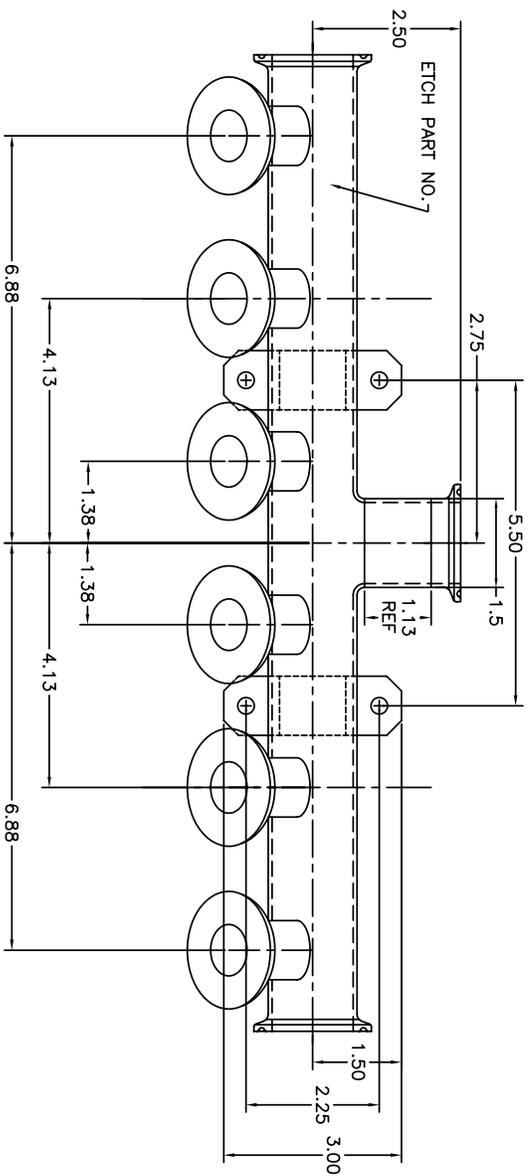
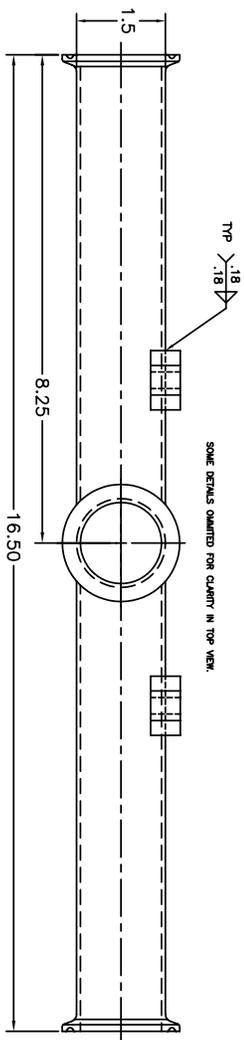
NOTE: BREAK SHARP CORNERS .015 R MAX

NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF VNE AND IS LENT TO THE BORROWER FOR CONFIDENTIAL USE ONLY, AND IN CONSIDERATION FOR THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED.

TOLERANCES UNLESS OTHERWISE SPECIFIED	
DECIMAL	XXX ± .005
	XX ± .010
	X ± .015
FRACTIONAL	± 1/32
ANGULAR	± .5°



SCALE: NTS	APPROVED BY:	DRAWN BY: DJG/CAH
DATE: 02/28/00		FINISH:#7 32RA
CS162-6084MC-0 TRI-POWDER INLET MANIFOLD ASSEMBLY		
VNE	MAT'L: (26") 2.0 X .065 #7 T304	

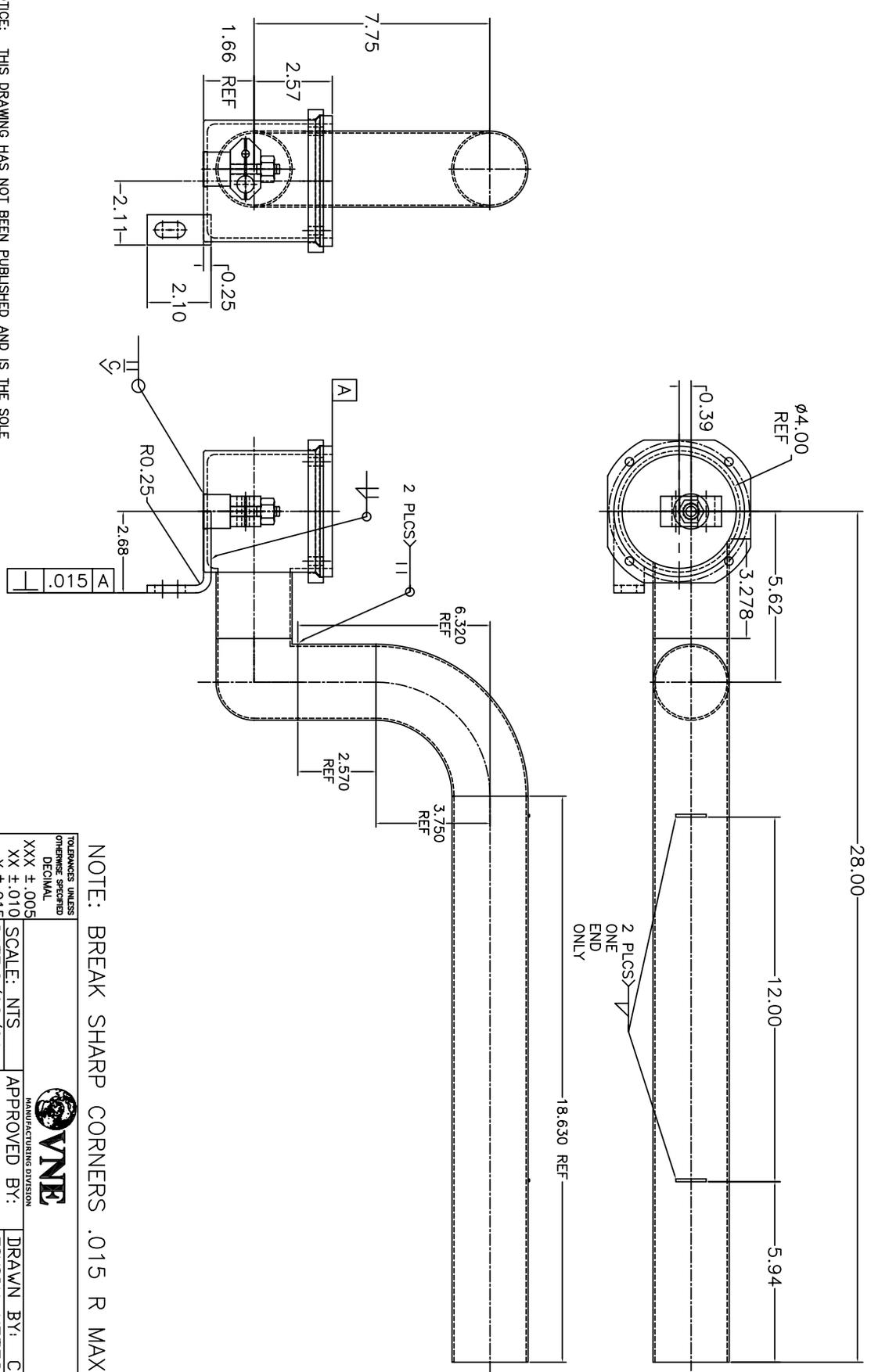


NOTE: BREAK SHARP CORNERS .015 R MAX

NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF VNE AND IS LOAN TO THE BORROWER FOR CONTEMPORARY USE ONLY, AND IN CONSIDERATION FOR THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND TO MAINTAIN IT IN CONFIDENTIALITY AND NOT TO REPRODUCE OR DISSEMINATE IT IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF VNE. PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED.

TOLERANCES UNLESS OTHERWISE SPECIFIED	DECIMAL
XXX ± .005	
XX ± .010	
X ± .015	
FRACTIONAL	
± 1/32	
ANGULAR	
+ .5°	

SCALE: NTS	APPROVED BY:	DRAWN BY: CAH
DATE: 08/16/06		FINISH: #7 32RA
CS639-PG3338813-0 1-1/2" 6 PORT MANI CL'D X 16-1/2" OAL (SEE FINISH)		
VNE		MAT'L: T316L

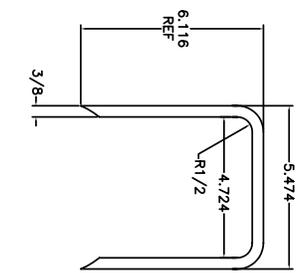
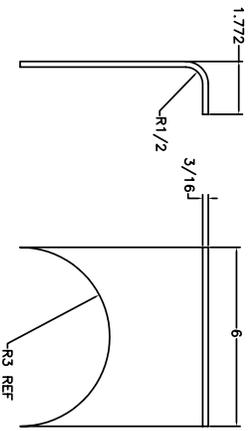
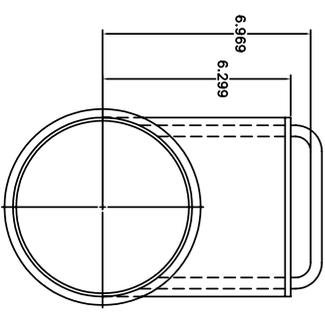
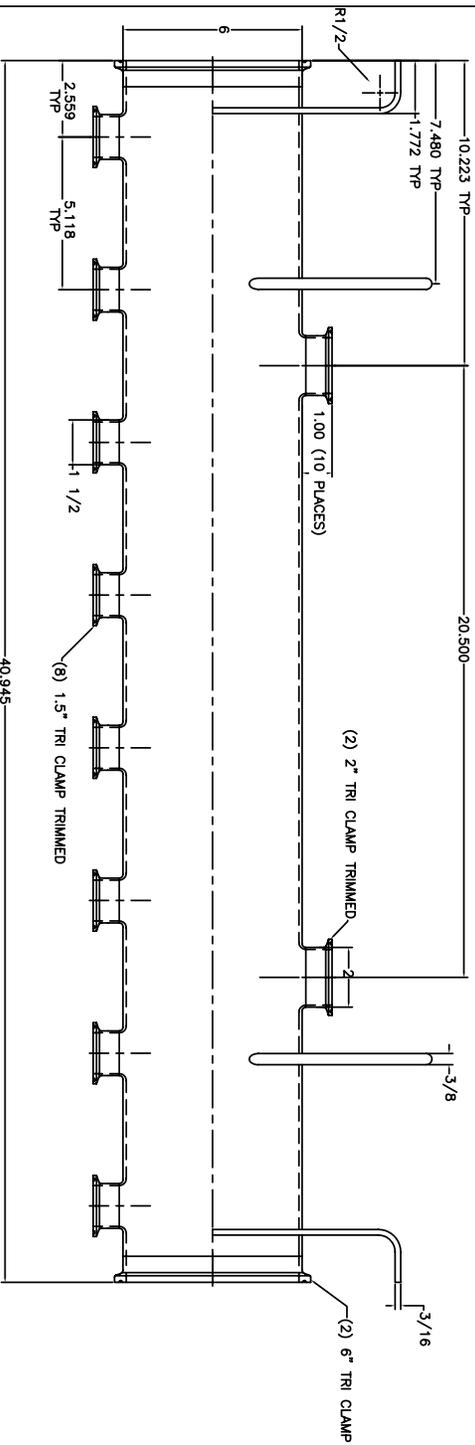


NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF VNE AND IS LENT TO THE BORROWER FOR CONFIDENTIAL USE ONLY, AND IN CONSIDERATION FOR THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED.

NOTE: BREAK SHARP CORNERS .015 R MAX

TOLERANCES UNLESS OTHERWISE SPECIFIED DECIMAL			
XXX ± .005	SCALE: NTS	APPROVED BY:	DRAWN BY: CAH
XX ± .010	DATE: 8/08/01		FINISH: NOTES
X ± .015			
FRACTIONAL ± 1/32	CS485-3283636 HTR SUPPLY PIPE ELEC OVEN SUB ASSY TOP		
ANGULAR ± .5°	VNE		MAT'L: T304





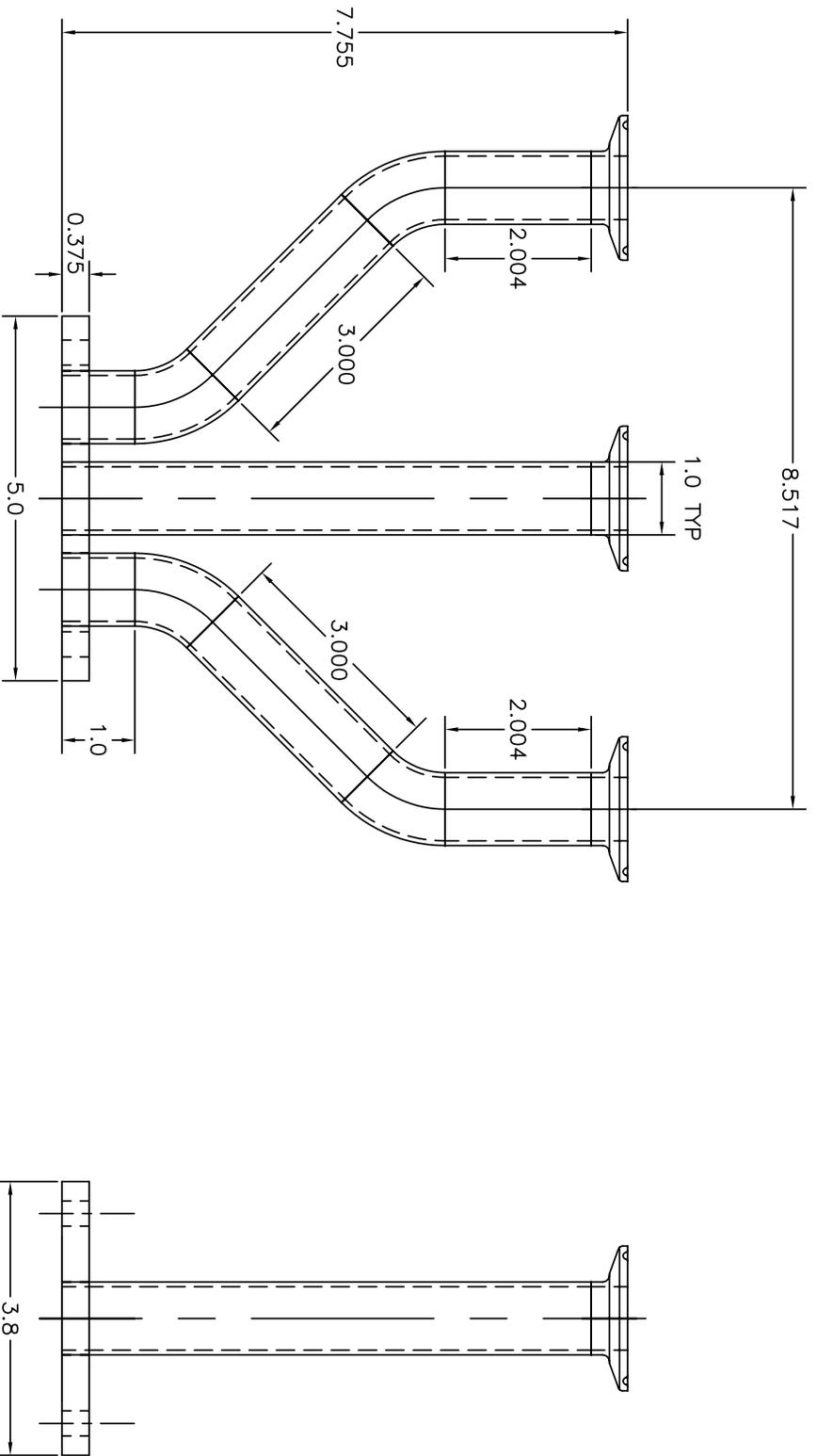
BRACKET DETAILS

HANDLE DETAILS

NOTE: BRACKET AND HANDLE WELDS WILL NOT BE POLISHED.

NOTE: BREAK SHARP CORNERS .015 R MAX

VNE VENTURE NATIONAL ENGINEERING CONSULTANTS, INC.	SCALE: NTS XX ± 0.10 X ± 0.15 PRACTICAL 1/4" ± .002 ± .5°	APPROVED BY: DRAWN BY: CAH DATE: 08/23/06 PART: 3204 (SEE LIST) 6276-0001316-001 6 X 2 X 1.5 W/BRACKET WITH BRACKETS AND HANDLES P/ 3204
VNE	MAT'L: T316L	



NOTE: BREAK SHARP CORNERS .015 R MAX



MANUFACTURING DIVISION

APPROVED BY: CAH

DATE: 04/07/09

SCALE: NTS

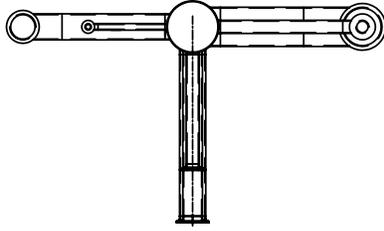
DRAWN BY: CAH

FINISH:#7 32RA

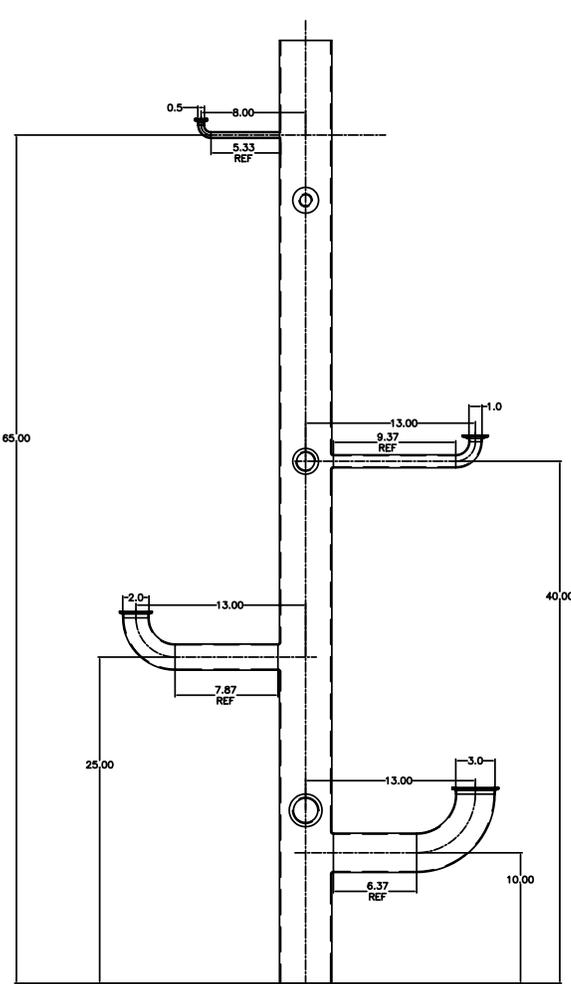
MAT'L: T304

TOLERANCES UNLESS OTHERWISE SPECIFIED	
DECIMAL	XXX ± .005
	XX ± .010
	X ± .015
FRACTIONAL	± 1/32
ANGULAR	°
	± .5

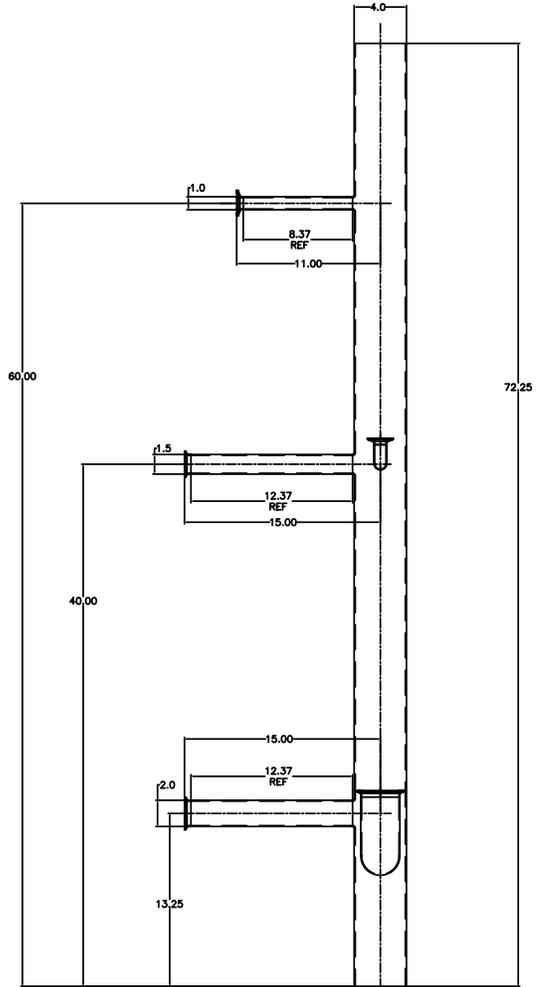
NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF VNE AND IS LENT TO THE BORROWER FOR CONFIDENTIAL USE ONLY, AND IN CONSIDERATION FOR THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED.



TOP VIEW



FRONT VIEW



RIGHT VIEW

NOTE: BREAK SHARP CORNERS .015 R MAX

TOLERANCES UNLESS OTHERWISE SPECIFIED

DECIMAL  
 XXX ±.005  
 XX ±.010  
 X ±.015

FRACTIONAL  
 ± 1/32

ANGULAR  
 ± .5°



SCALE: NTS

DATE: 02/13/08

APPROVED BY:

DRAWN BY: CAH

FIN:#5 32RA OD ONLY

CS663-2297 STAINLESS TREE STAND (7) PORTS #5 FINISH 32RA OD ONLY

VNE

MAT'L:T304

NOTICE: THIS DRAWING HAS NOT BEEN PUBLISHED AND IS THE SOLE PROPERTY OF VNE AND IS LENT TO THE BORROWER FOR CONFIDENTIAL USE ONLY. AND IN CONSIDERATION FOR THE LOAN OF THIS DRAWING, THE BORROWER PROMISES AND AGREES TO RETURN IT UPON REQUEST AND AGREES THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS FURNISHED.