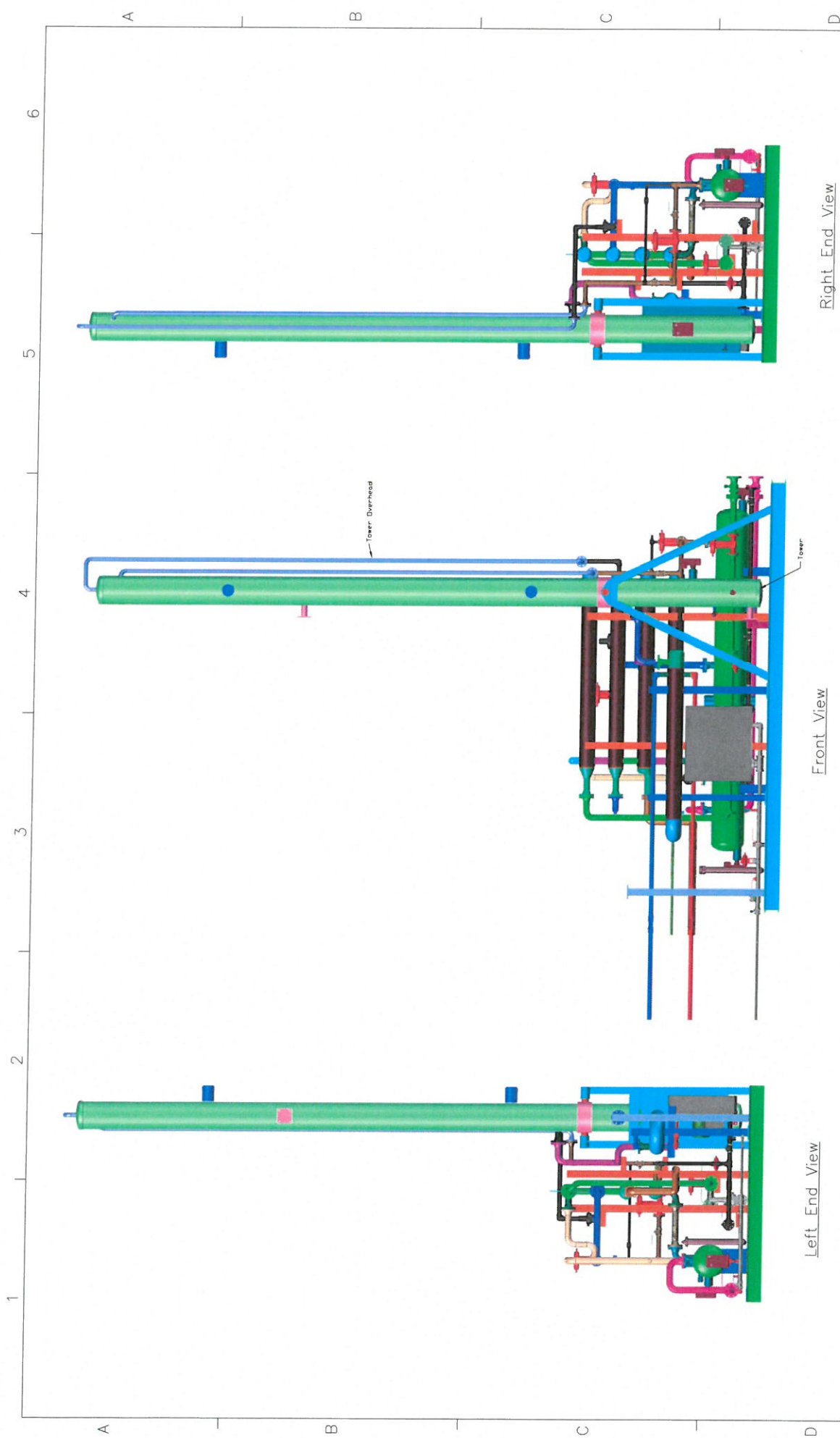
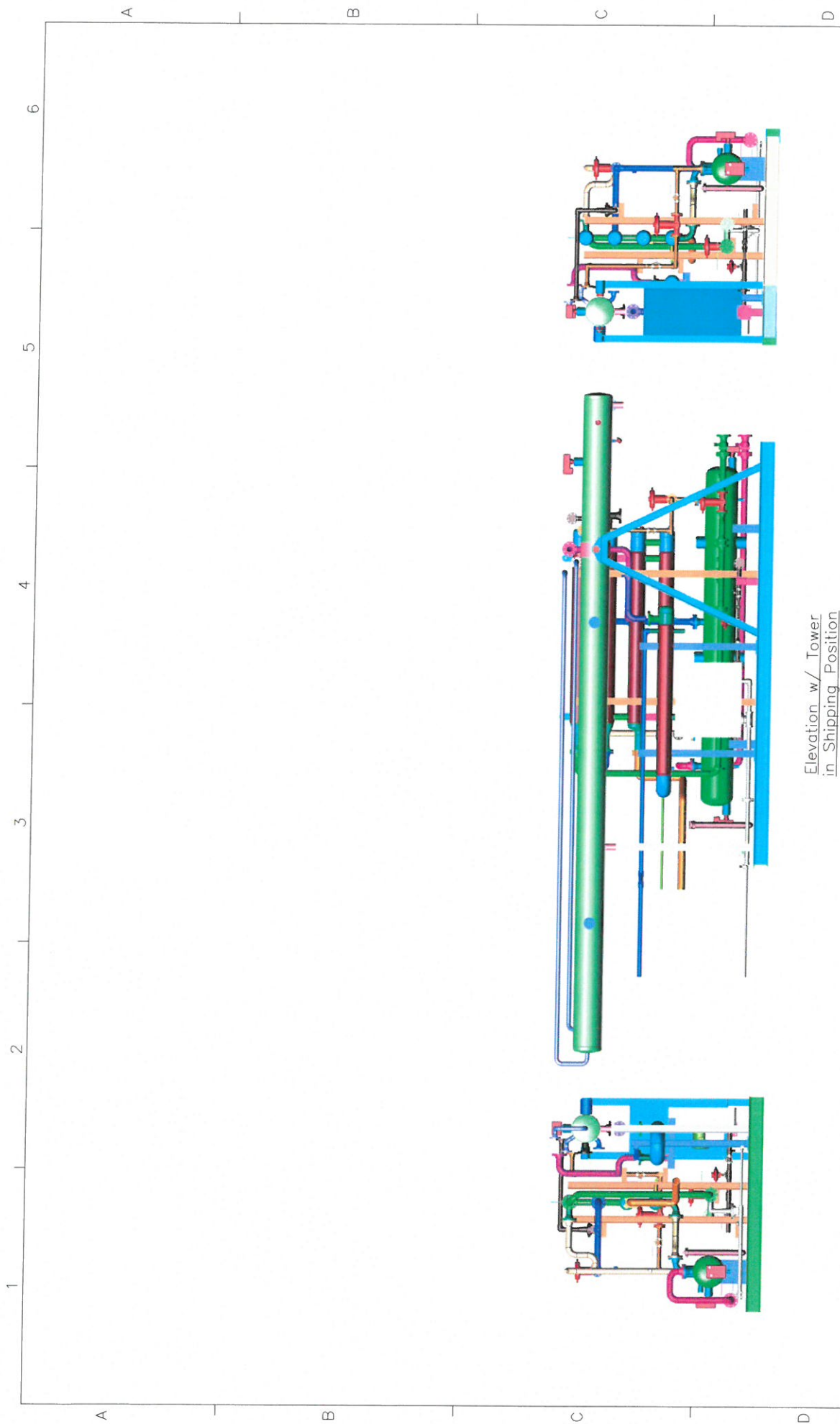
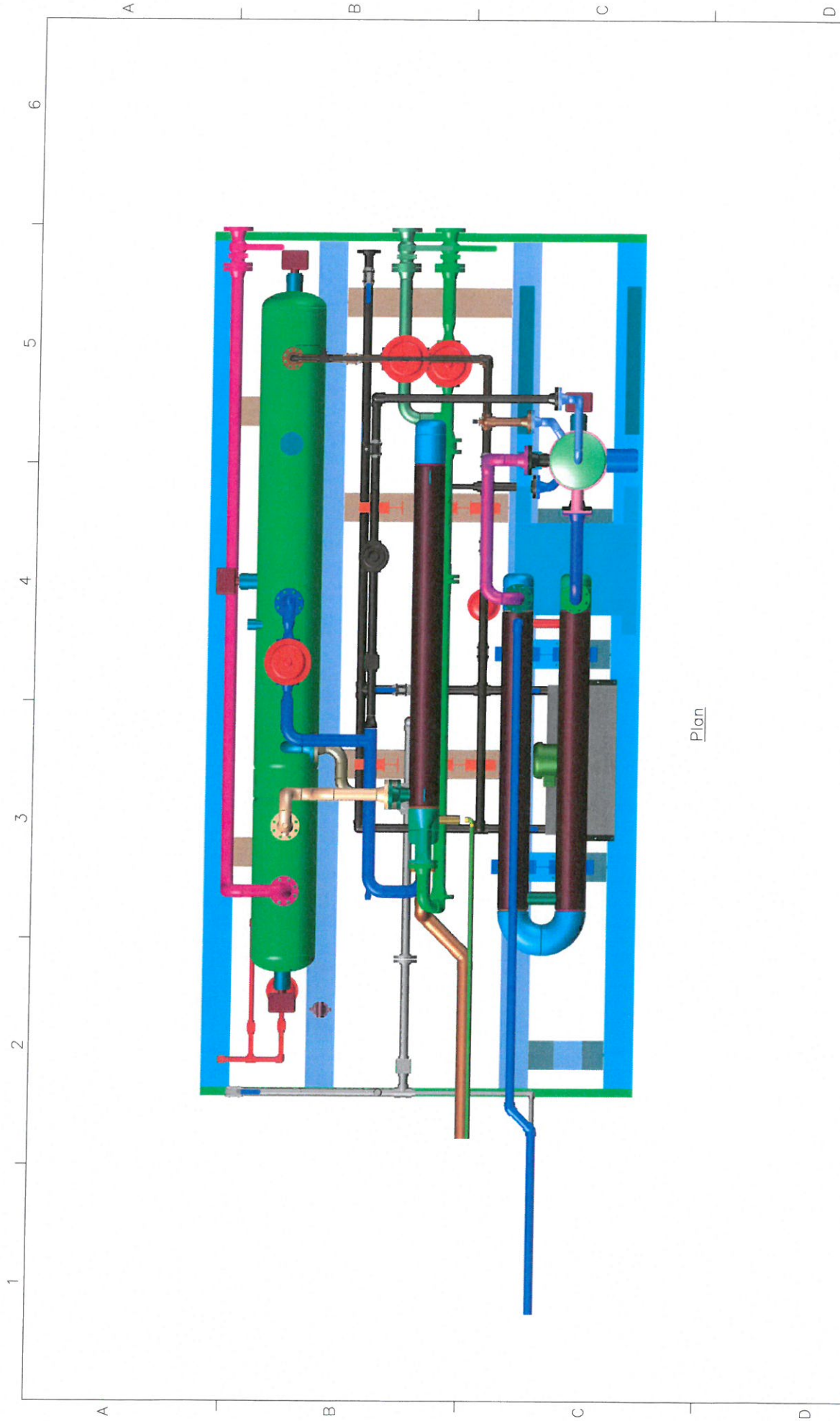




Notes: 1. Drawing layout for review only. 2. All dimensions are approximate. 3. Equipment based on best information available. Subject to change. 4. Skid layout and orientation subject to change.		Specialty Mechanical & Welding Services, Inc. 7803 Mallard Lane 303-776-9243 FAX 303-776-2027	
Process Plant Skid General Layout		Specialty Mechanical & Welding Services, Inc. 7803 Mallard Lane 303-776-9243 FAX 303-776-2027	
DATE: 12/15/14		DATE: 12/15/14	
SCALE: 1/4" = 1'		SCALE: 1/4" = 1'	
REV: 0		REV: 0	
DESCRIPTION		DESCRIPTION	
DATE: 12/15/14		DATE: 12/15/14	
DESIGNED BY: JH		DESIGNED BY: JH	
CHECKED BY: TC		CHECKED BY: TC	
DATE: 12/15/14		DATE: 12/15/14	
PROJECT: 1419-30-GA-11		PROJECT: 1419-30-GA-11	
THIS DRAWING IS THE PROPERTY OF SPECIALTY MECHANICAL & WELDING SERVICES, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF SPECIALTY MECHANICAL & WELDING SERVICES, INC.		THIS DRAWING IS THE PROPERTY OF SPECIALTY MECHANICAL & WELDING SERVICES, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF SPECIALTY MECHANICAL & WELDING SERVICES, INC.	

[illegible]

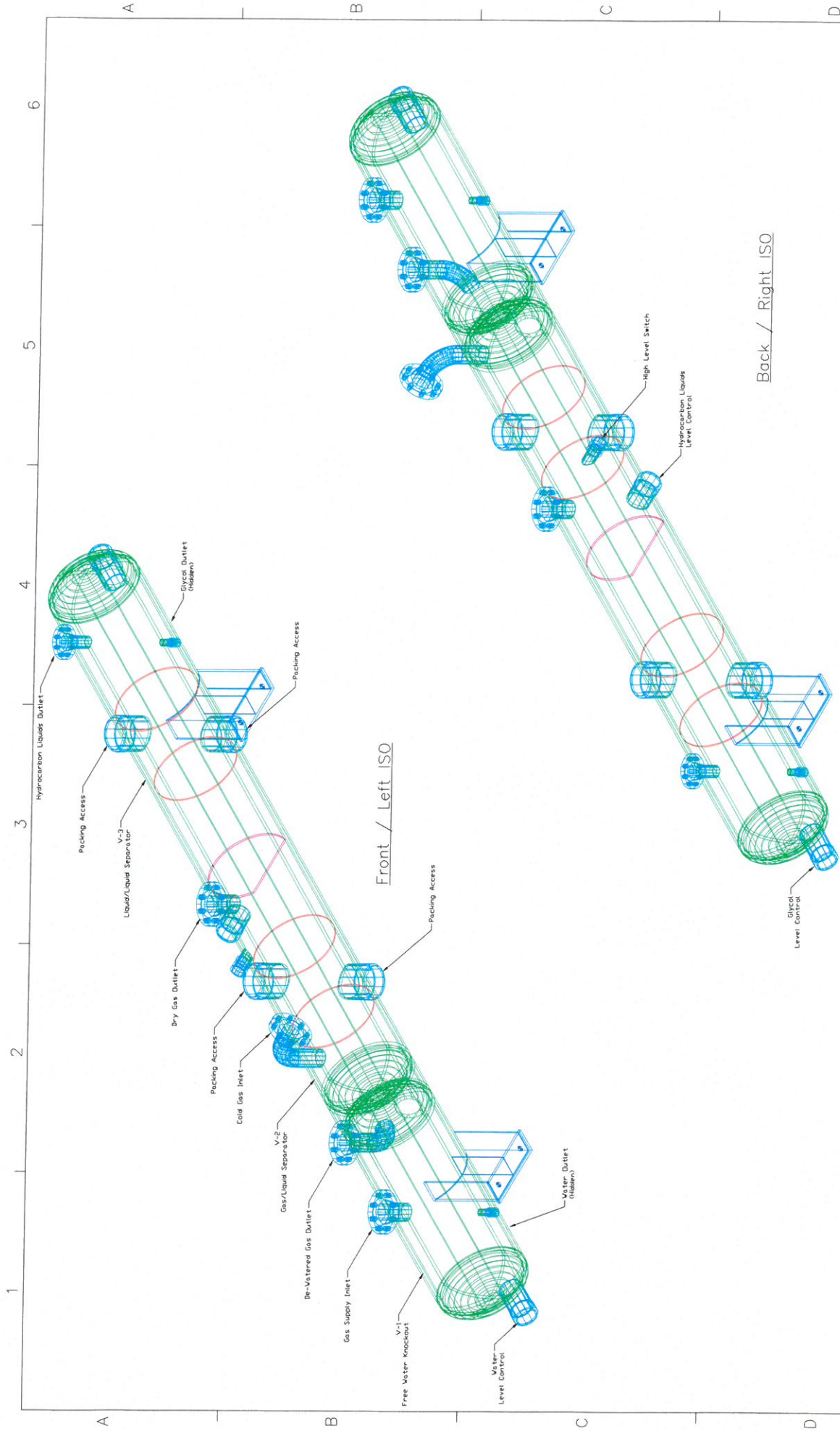


Plan

- Notes:
1. Schematic layout for review only.
 2. All dimensions approximate.
 3. Equipment based on best information available. Subject to change.
 4. Skid layout and orientation subject to change.

REV	DESCRIPTION	DATE	DR	BY	TC	CR	BY	JH
0	For Approval	12/15/14						
CREATIVE MECHANICAL & WELDING SERVICES, INC. 303-778-9242 303-778-9242 FAX 303-778-2057 FILE: Process Plant Skid General Layout DATE: 12/15/14 SCALE: 1/4" = 1' PAGE: 1 of 4 Dwg. No.: 1419-30-GA-11 REV: 0								

THIS DRAWING IS OUR PROPERTY. ALL RIGHTS OF DESIGN, INVENTION OR USE ARE RESERVED.



Front / Left ISO

Back / Right ISO

REV		DESCRIPTION	DATE	DR	BY	IC	CH	BR	JH	DATE	SCALE	SHEET	NO	REV
1		Add scale stamp info, remove glycol coil	12/01/14								12/01/14	1 of 1	1	
0		For Review	10/13/14											
CREATIVE MECHANICAL & WELDING 7803 MILLER AVE. SUITE 100 FARMINGTON, CT 06031 TEL: 860-676-9341 FAX: 860-676-2057 V-1, 2, 3 Free Water Knockout Gas/Liquid Separator, Liquid/Liquid Separator Overall Layout 1419-34-GA-11														

C:\Users\Public\Documents\CADWMS Project Files\GS-1419-1-3MW Plant\Drawings\1419-V-1,2,3_Ren-1.dwg 1419-34-GA-11, 12/27/2014 5:39:54 PM

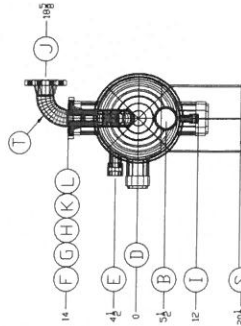
NOT PERMITTED TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM CREATIVE MECHANICAL & WELDING.



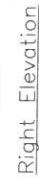
Component	Schedule
1. Project Initiation	Week 1-2
2. Requirements Gathering	Week 3-4
3. System Design	Week 5-6
4. Development	Week 7-10
5. Testing	Week 11-12
6. Deployment	Week 13
7. Post-Deployment Support	Ongoing

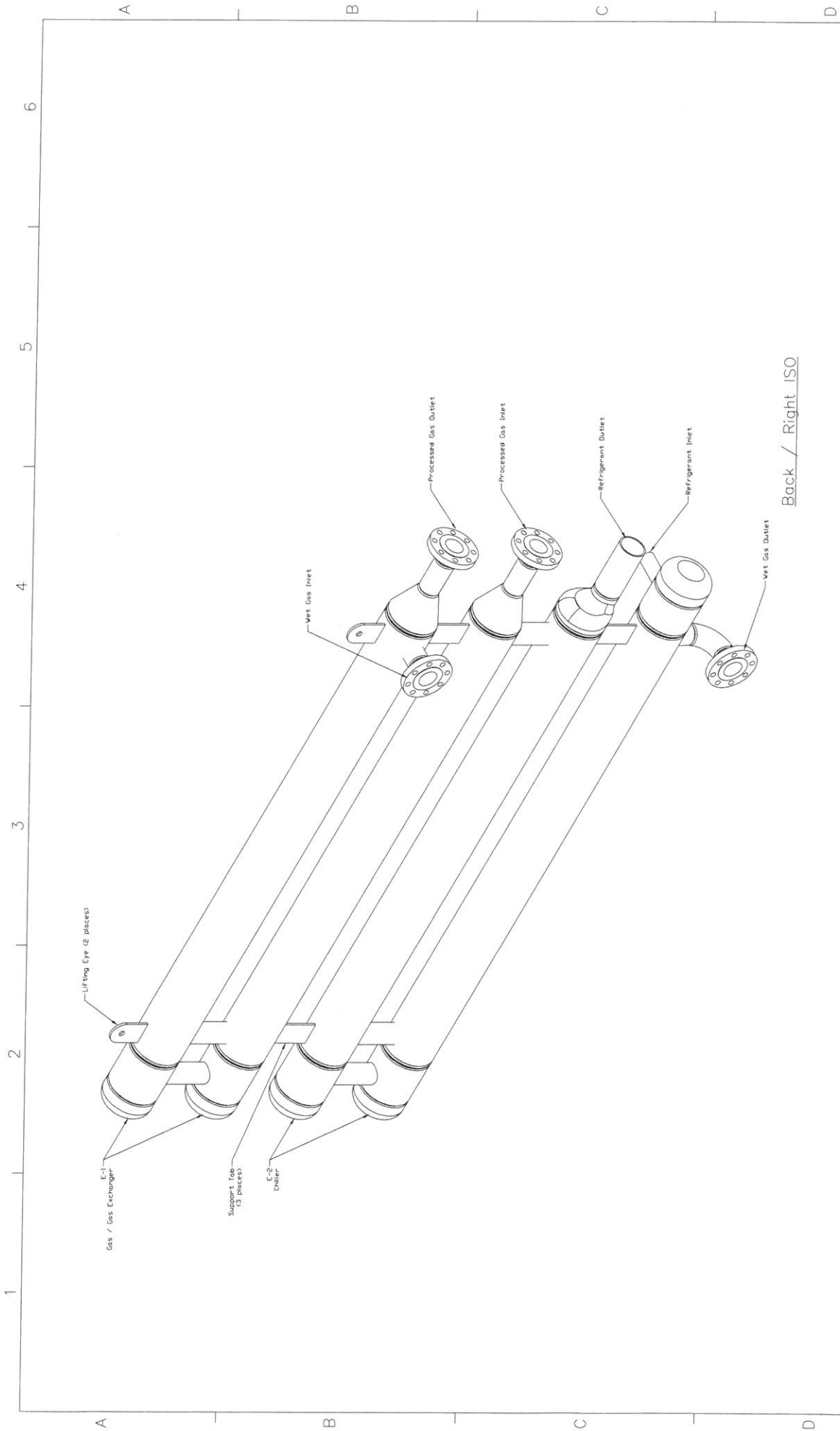
DESIGN DATA

1. NOZZLE MUST HOLD SMALL STRAINABLE MESH, VESSEL, C/L
2. DRILL 1/4" TELL-TALE HOLE IN EACH REINFORCING BAR SEGMENT
3. NOZZLE PROJECTION ARE REQUIRED FROM US OF VESSEL TO FACE OF FLANGE.



A.I.: _____ DATE: _____
ENG: _____ DATE: _____

Glycol Specialists, Inc.



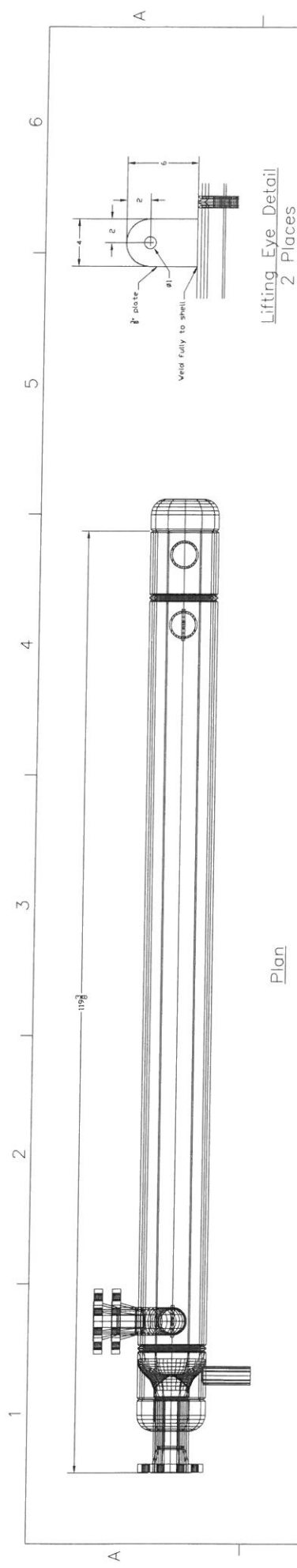
Back / Right ISO

REV		DATE	BY	CHKD	APP'D	DESCRIPTION
2	Approved for Fabrication	12/01/14				
1	Revised for Review	10/13/14	CS	Job #2054		
0	For Review	10/09/14	CMS	Job #1419		

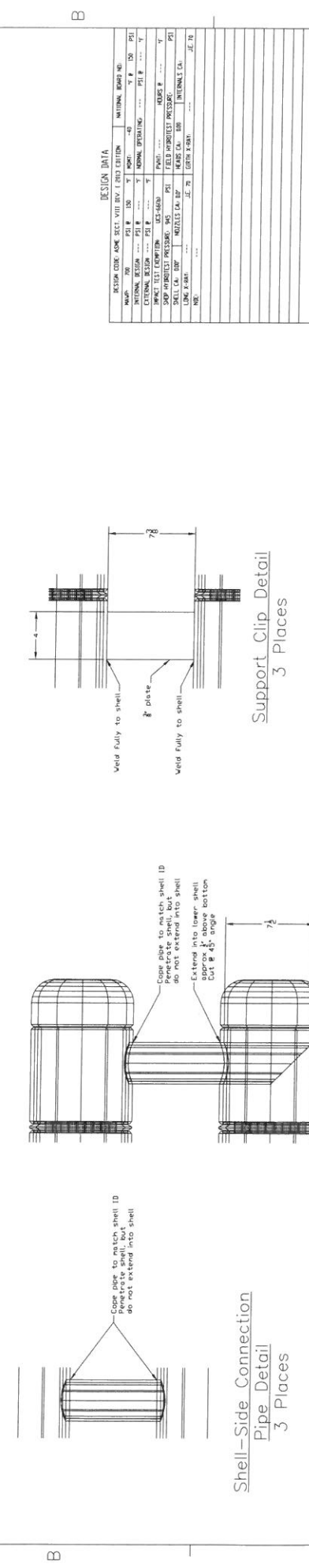
DATE	12/01/14	NA	1 of 1	1419-36-CA-11	REV	2
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CREATIVE MECHANICAL & WELDING SERVICES, INC. 7803 MILLER DR. FREDERICK, CO. 20704 303-776-2941 FAX 303-776-2057	E-1,2 Gas/Gas Heat Exchanger Chiller General Arrangement
--	--

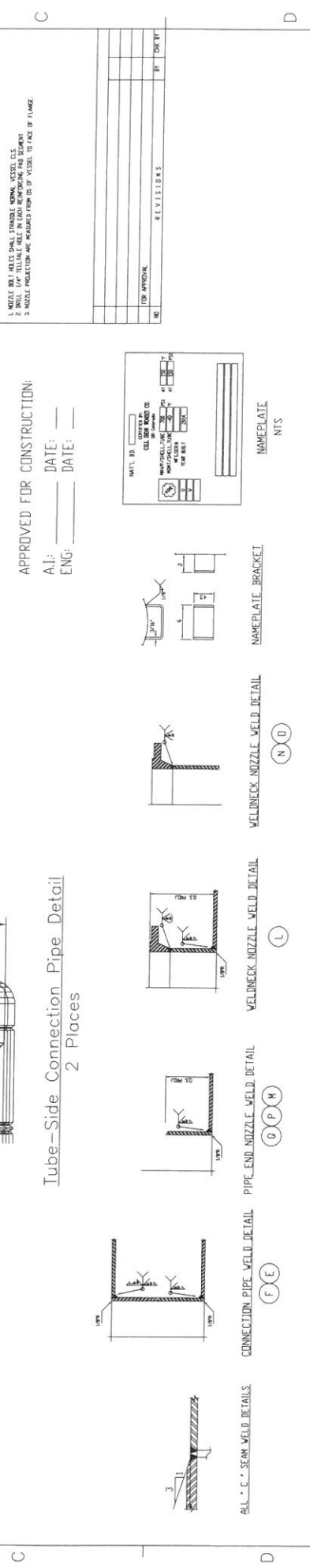
WE OWNED IN ALL PARTICULARS IS OUR PROPERTY. ALL RIGHTS OF DESIGN, INVENTION OR PATENT ARE RESERVED.



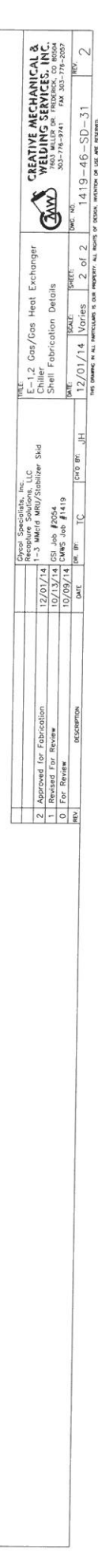
Lifting Eye Detail
2 Places



Shell-Side Connection
Pipe Detail
3 Places



Tube-Side Connection Pipe Detail
2 Places



ALL "C" SEAM WELD DETAILS

PE END NOZZLE WEIRD DETAIL



THE UNIVERSITY OF CHICAGO

1111

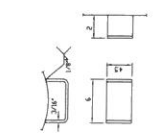
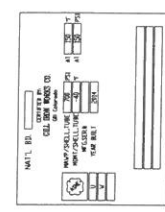
1001

[illegible]

APPROVED FOR CONSTRUCTION:

A.I. _____ DATE: ____

ENG: _____ DATE: ____



REV	DESCRIPTION	DATE	DESIGN	TC	GR'D BY	JH
2	Approved for Fabrication	12/01/14				
1	Revised For Review	10/13/14				
0	For Review	10/09/14				

Cyclo Specialists, Inc.
 Resinure Solutions, LLC
 1-3 Metric MW/Stabilizer Skid
 651 Job #2054
 10 For Review

CREATIVE MECHANICAL & WELDING SERVICES, INC.
 7603 MILLER DR. FREDERICK, CO 20704
 TEL 301-776-3141 FAX 301-776-2057

FILE:
 E-1.2 Gas/Gas Heat Exchanger
 Chiller
 Shell Fabrication Details

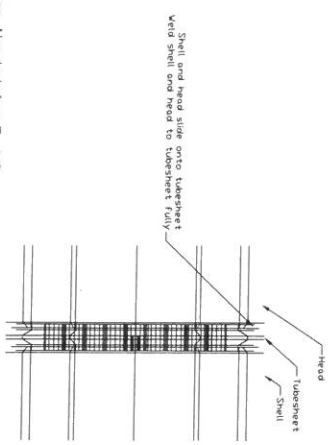
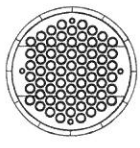
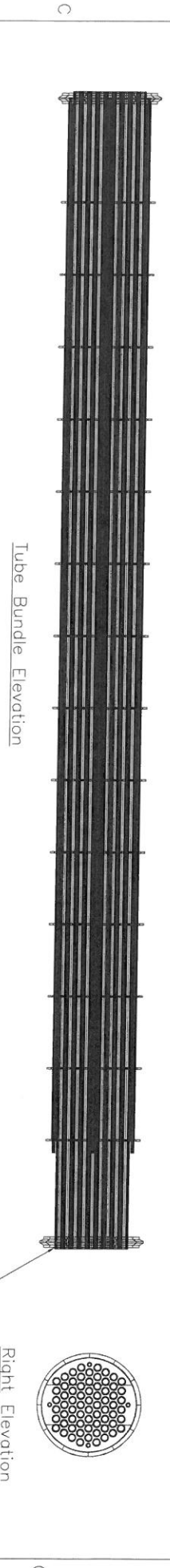
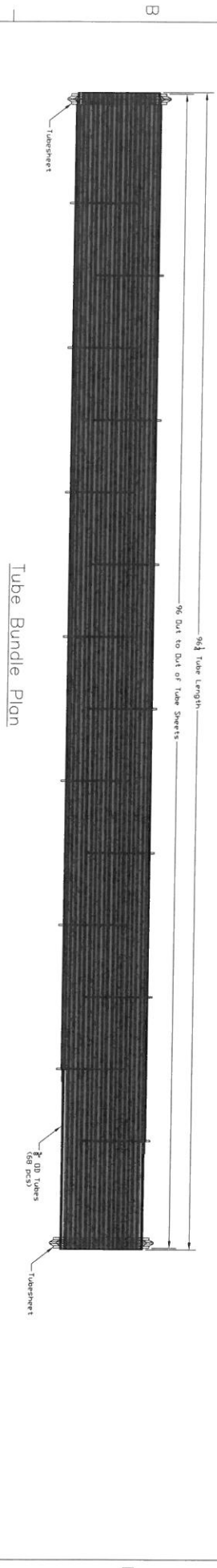
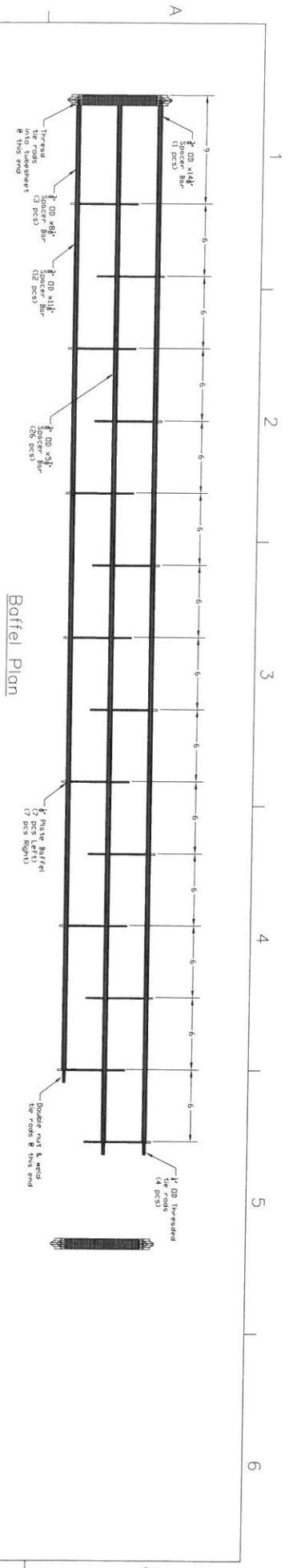
DATE: 12/01/14 **VARIES:** 2 of 2
SCALE: 1/8"=1' **SHEET:** 2 of 2

THIS DRAWING IS OUR PROPERTY. ALL RIGHTS OF DESIGN, INVENTION, OR PATENT RESERVED.

CREATIVE MECHANICAL & WELDING SERVICES, INC.
7603 MILLER DR. FREDERICK, CO 80504
303-776-9741 FAX 303-776-2057

12/01/14	Vories	2 of 2	1419-46-SD-3
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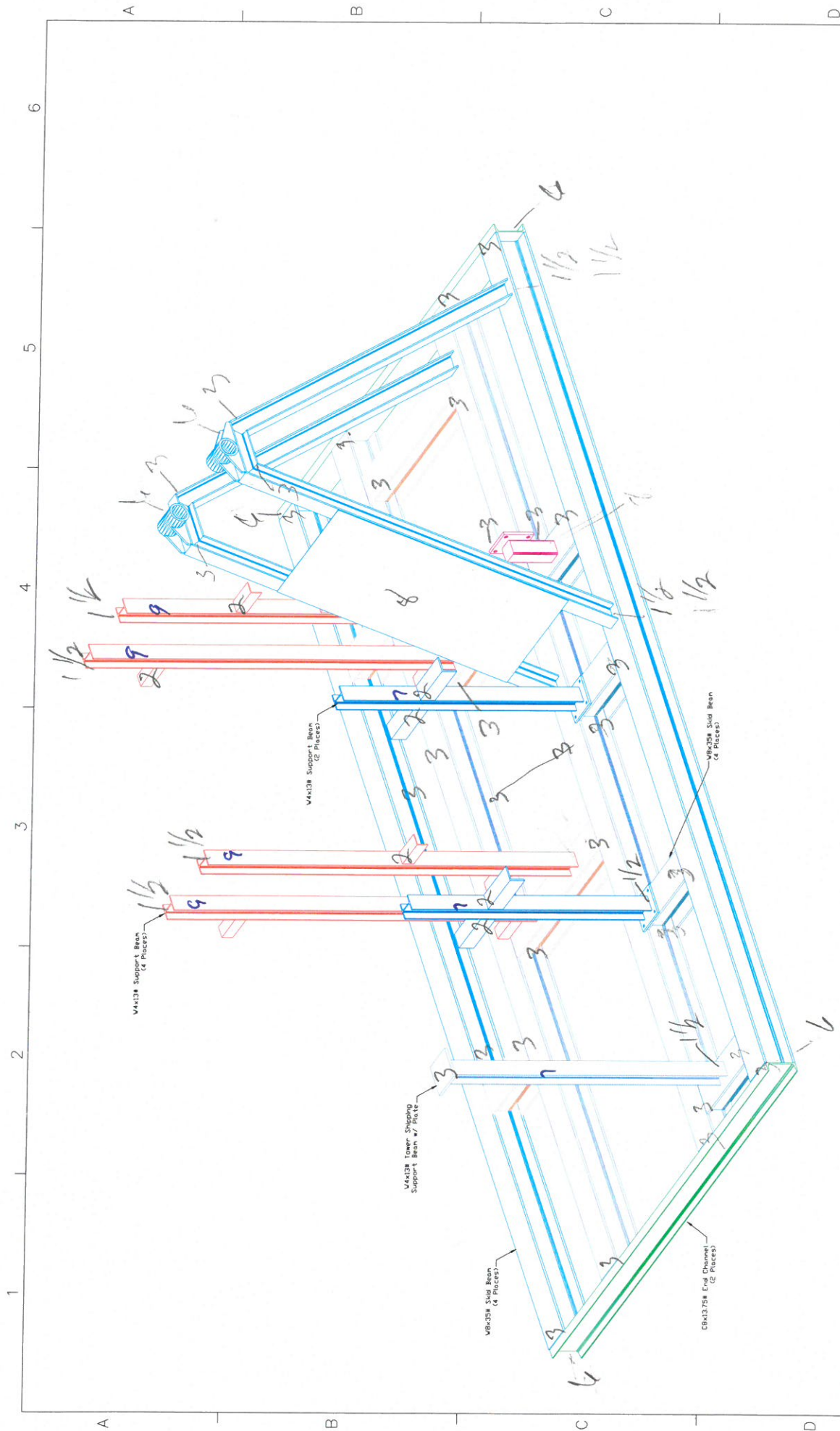
THIS DRAWING IN ALL PARTICULARS IS OUR PROPERTY. ALL RIGHTS OF DESIGN, INVENTION OR USE ARE RESERVED.



Notes:
1. Four Total Tube Bundles Needed for E-1.2

REV	DESCRIPTION	DATE	BY	CHK	APP
2	Approved for Fabrication	12/01/14	TC	JH	
1	Reviewed for Review	10/13/14	TC	JH	
0	For Review	10/09/14	TC	JH	

INT: E-1.2 Gas/Gas Heat Exchanger
Chiller
Tube Bundle Assembly Details
DATE: 12/01/14
SCALE: 1/5"=1'-0"
SHEET: 1 of 1
DWG. NO.: 1419-46-SD-32
CREATIVE MECHANICAL & WELDING SERVICES, INC.
7803 WILDER FREEDOM CO 80504
303-779-5141 FAX 303-779-0897



Notes:

1. Schematic layout for review only.
2. All dimensions approximate.
3. Equipment based on best information available. Subject to change.
4. Skid layout and orientation subject to change.

REV	DESCRIPTION	DATE	BY	CHK	APP	DATE	BY	CHK	APP
1	For Construction	12/31/14	CS	JH	TC	12/31/14	JH	TC	1
0	For Review	12/27/14	CMS	JH	TC	12/27/14	JH	TC	1

Scale: None

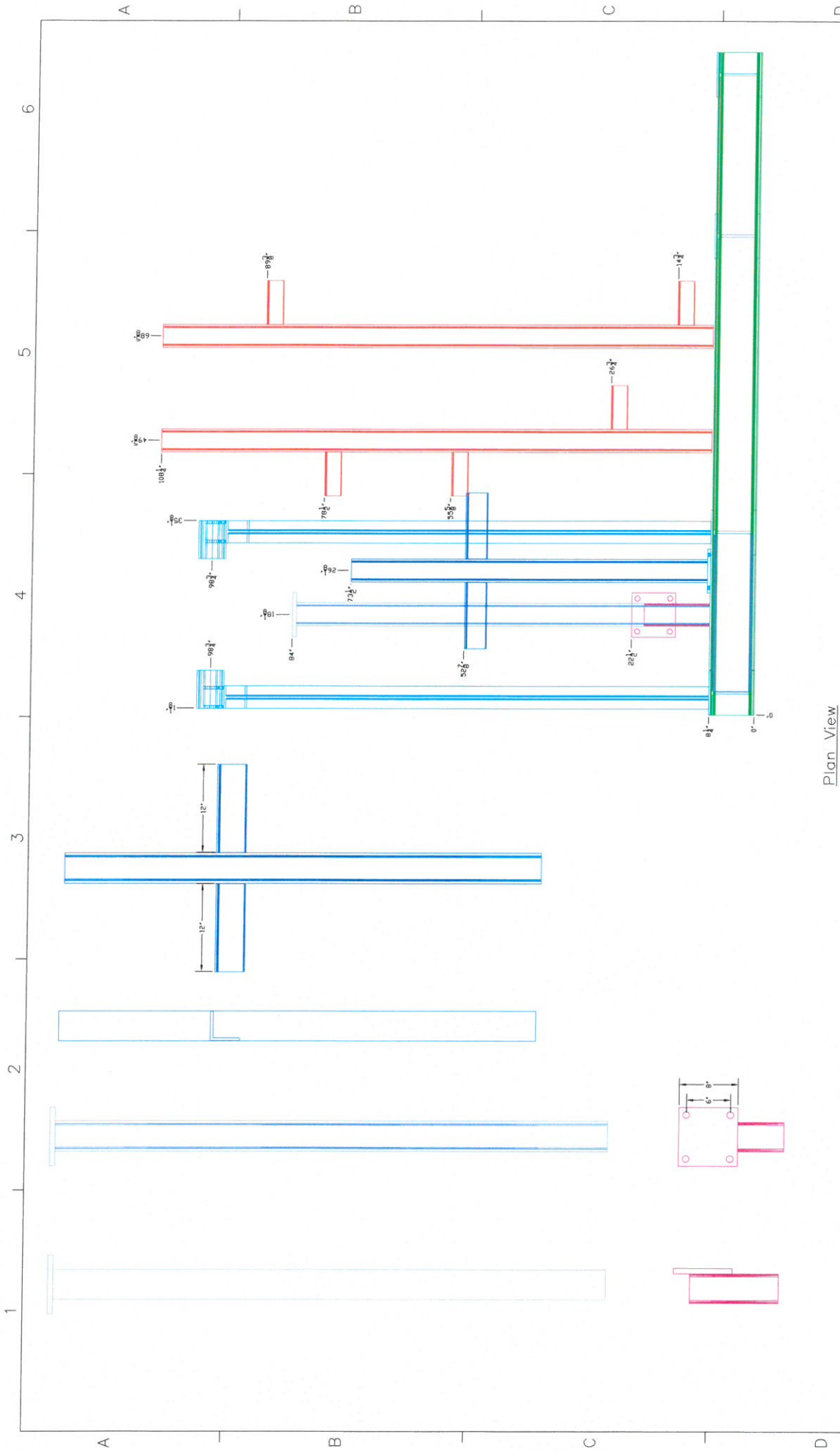
Project: 1419-41-SD-31

Drawn by: JH

Checked by: TC

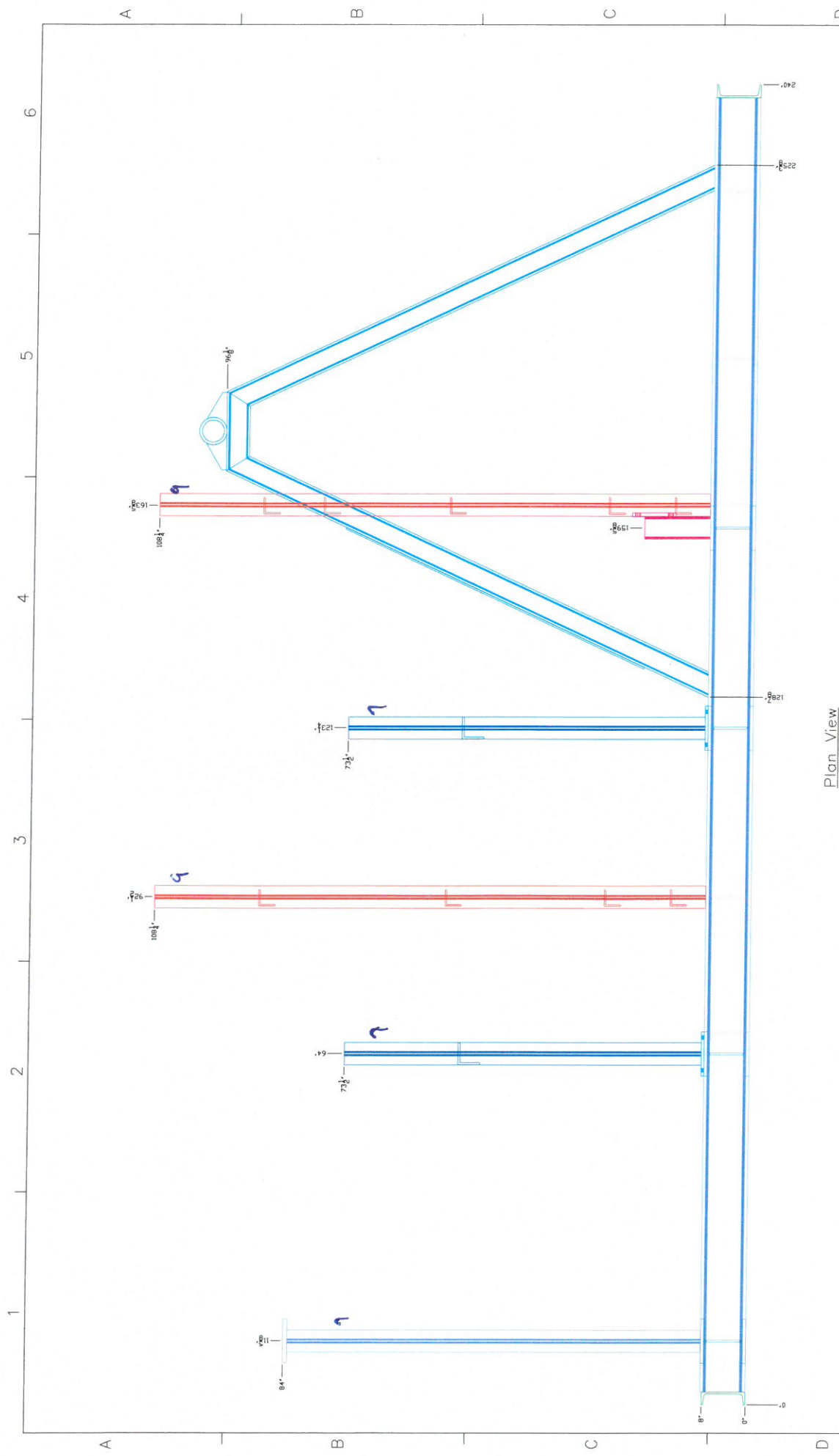
Approved by: JH

CREATIVE MECHANICAL & STRUCTURAL ENGINEERING, INC.
 1603 MILLER RD. #200
 303-778-3741 FAX 303-778-2057



Plan View

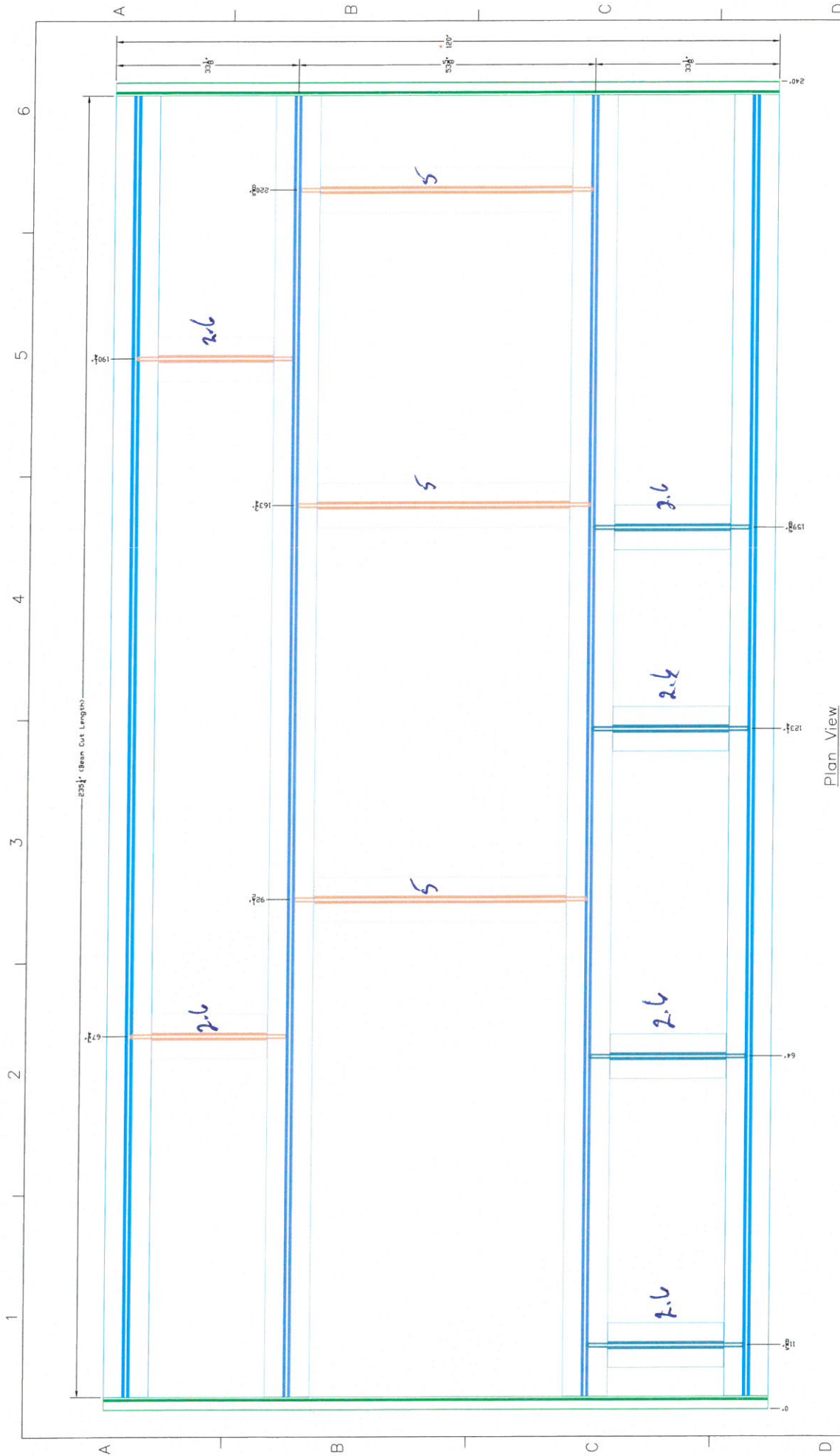
Notes: 1. Field Verify All Dimensions!		Project: Skid Base Fabrication Details		 CREATIVE MECHANICAL & WELDING SERVICES, INC. 7803 MILLER DR. FREDERICK, MD 21704 301-776-5141 FAX 301-776-2057	
REV	DESCRIPTION	DATE	BY	CHK'D BY	DATE
1	For Construction	12/31/14	CS Job #2004	CS Job #1419	12/27/14
0	For Review	12/27/14	DATE	DATE	DATE
THE DRAWING IS THE PROPERTY OF THE CLIENT. NO PARTS OF THIS DRAWING ARE TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE CLIENT.		DATE: 12/31/14 11:27:11 DRAWN BY: JH CHECKED BY: JC SCALE: 1/2"=1'-3 OF 1		REV: 1	



Notes:
1. Field Verify All Dimensions!

[illegible]

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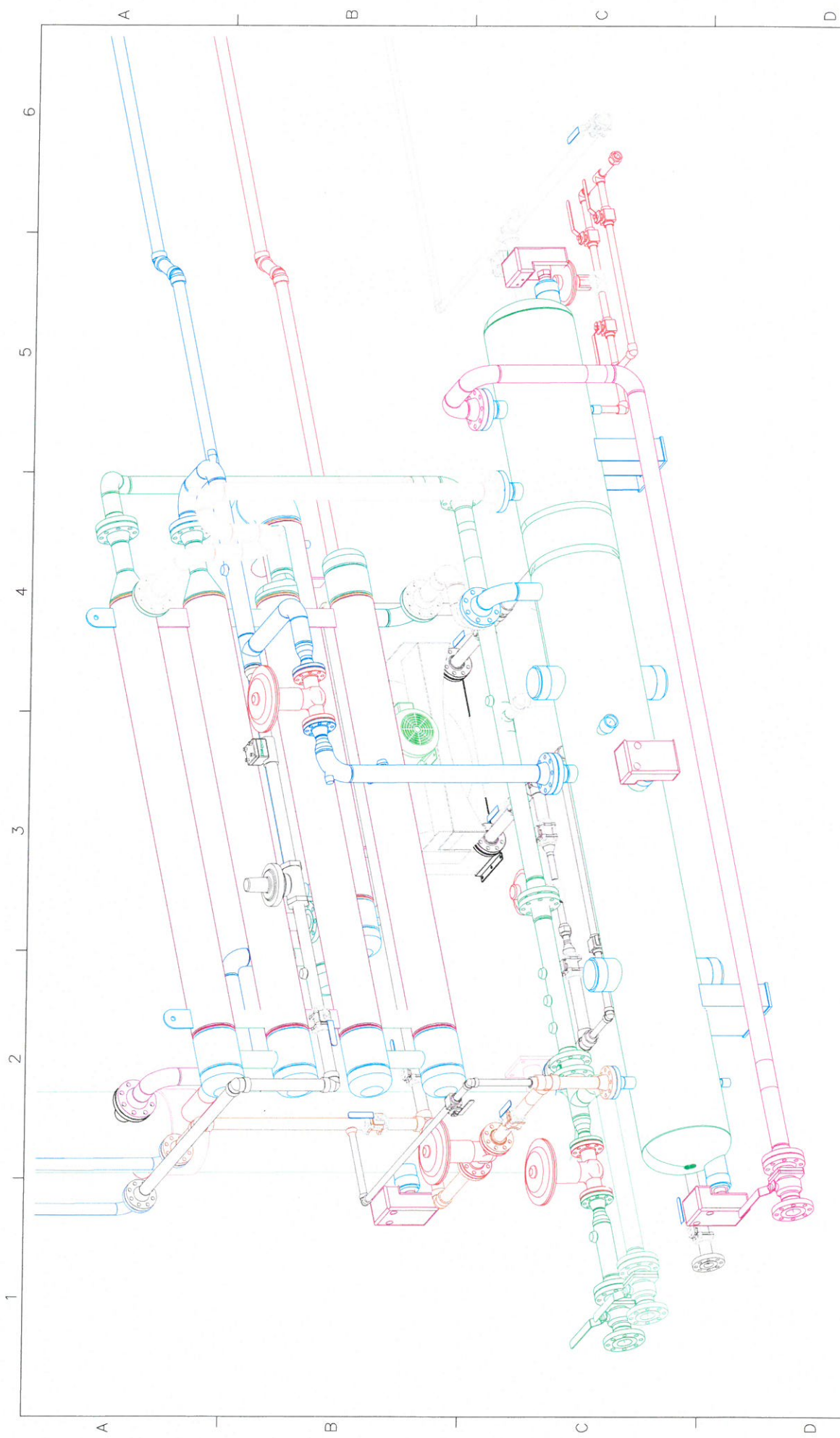
Notes:
1. Field Verify All Dimensions!

REV	DESCRIPTION	DATE	BY	TC	DRD BY	JH
1	For Construction	12/31/14	GS	Job #2054		
0	For Review	12/27/14	CMS	Job #1419		

DATE	SCALE	SHEET	NO.
12/31/14	1/2" = 1'	2 of 2	1419-41-SD-31

TITLE	DATE	NO.
Skid Base Fabrication Details	12/31/14	1

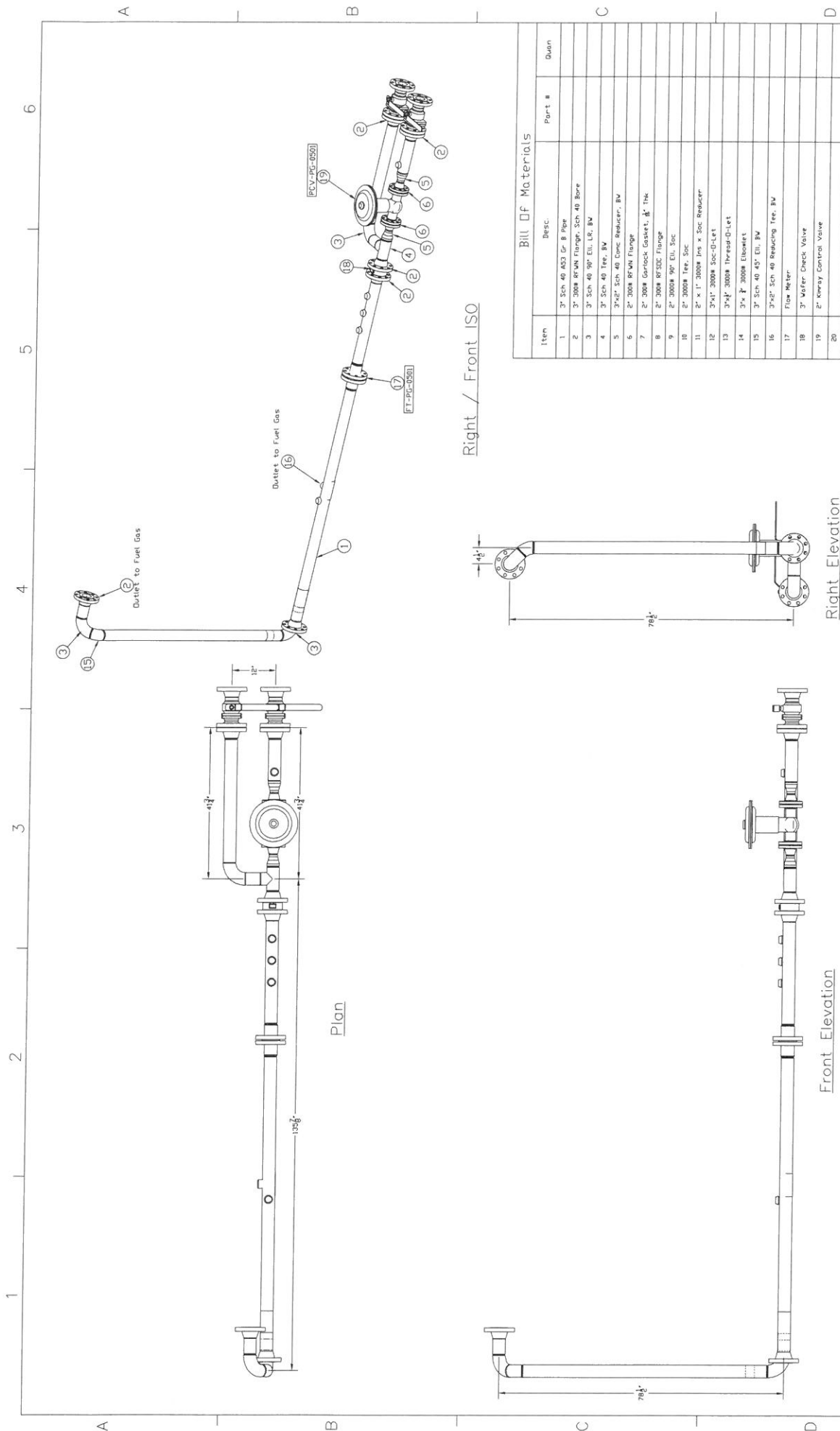
CREATIVE MECHANICAL & WELDING SERVICES, INC.
 3001 W. 14TH AVE. SUITE 100
 DENVER, CO 80202
 303.776.1971
 FAX 303.776.1972



REVISIONS		DESCRIPTION		DATE	BY	CHK	APP	DATE	DESCRIPTION
1	For Construction			12/27/14	TC	JH			
0	For Review			12/27/14	TC	JH			

Global Specialist Resophore Solutions, LLC 1-3 MCFD Gas / Liquids Plant		DATE		12/27/14	SCALE	1/2"=1'	2 of 2	1419-41-SD-50	1
CS Job #2054 CAMS Job #1419		DATE		12/27/14	SCALE	1/2"=1'	2 of 2	1419-41-SD-50	1

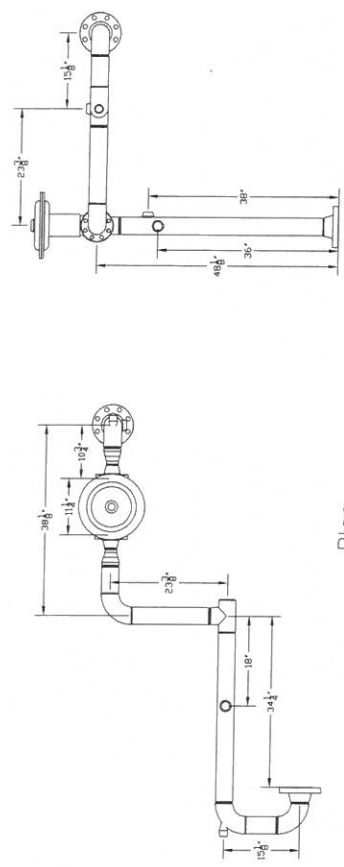
CREATIVE MECHANICAL & WELDING SERVICES, INC. 7603 MILLER BLVD. FREDERICK, MD 20704 301-775-9441 FAX 301-775-2057		DATE		12/27/14	SCALE	1/2"=1'	2 of 2	1419-41-SD-50	1
THE DRAWING IS AN INSTRUMENT OF SERVICE. ALL RIGHTS OF INVENTION ARE RESERVED.		DATE		12/27/14	SCALE	1/2"=1'	2 of 2	1419-41-SD-50	1



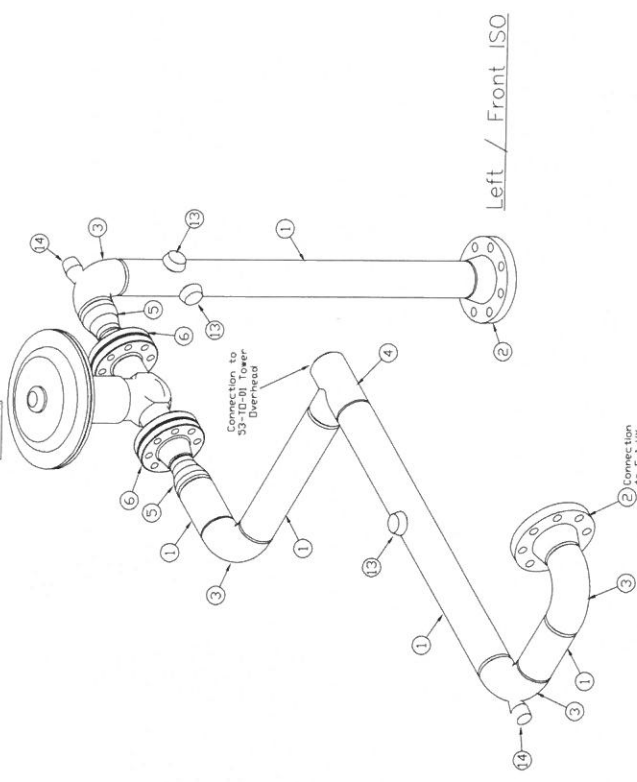
Item	Desc.	Part #	Quan
1	3" Sch 40 A53 Gr. B Pipe		
2	3" 300# 80°M Flange, Sch 40 Bore		
3	3" Sch 40 90° Ell. LR, BW		
4	3" Sch 40 Tee, BW		
5	3"x2" Sch 40 Conc. Reducer, BW		
6	2" 300# 90°M Flange		
7	2" 300# Girth Gasket, AS ¹ Tie		
8	2" 300# 89°S/C Flange		
9	2" 300# 90° Ell. Soc		
10	2" 300# Tee, Soc		
11	2" x 1" 300# Ins x Soc Reducer		
12	3"x1" 300# Soc-Ellet		
13	3"x1" 300# Thread-0-Let		
14	3"x1" 300# Elbowlet		
15	3" Sch 40 45° Ell. BW		
16	3"x2" Sch 40 Reducing Tee, BW		
17	Flow Meter		
18	3" Wafer Check Valve		
19	2" Kneey Control Valve		
20			

[illegible]

1 2 3 4 5 6

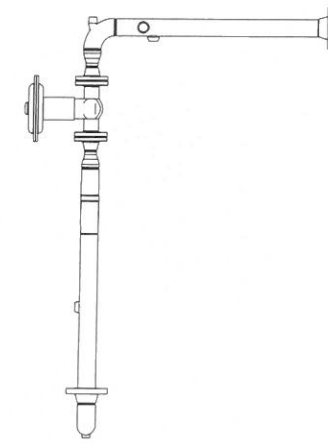


Plan



Left Elevation

Left / Front ISO



Front Elevation

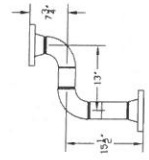
Bill of Materials

Item	Desc.	Part #	Quan
1	3" Sch 40 AS2 Gr B Pipe		10
2	3" 300# RFM Flange, Sch 40 Bore		2
3	3" Sch 40 90° Ell, LB, BW		4
4	3" Sch 40 Tee, BW		1
5	3"x2" Sch 40 Conc Reducer, BW		2
6	2" 300# RFM Flange		2
7	2" 300# Gaisick Gasket, 1/2" Thk		2
8	3"x4" 300# Thread-Outlet		3
9	3"x 2" 300# Elbow		2
10			
11			
12			

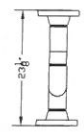
Notes:		1.	
REV	DESCRIPTION	DATE	BY
1	For Construction	12/31/14	GS Job #2054
0	For Review	12/27/14	CMS Job #1419
Client: Resolute Solutions, LLC		1-3 MFD Gas / Liquids Plant	
PG-04 V2 to E-1 Hx			
Piping Fabrication Details			
CREATIVE MECHANICAL & WELDING SERVICES		1603 MILLER DR. FREEDOM, CO. 80047	
303-775-9741		FAX 303-776-2057	
TWC: VJ		1419-41-SD-54	REV: 1

1 2 3 4 5 6

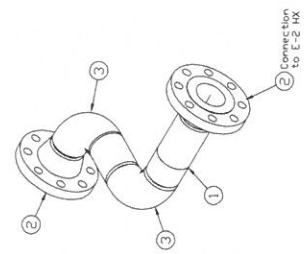
A B C D



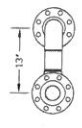
Plan



Right Elevation



Left / Front ISO



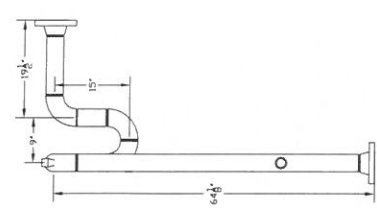
Front Elevation

Bill Of Materials			
Item	Desc.	Part #	Quan
1	3" Sch 40 MSS 90° Elbow		2
2	3" 3008 850N Flange Sch 40 Bore		2
3	3" Sch 40 90° EL. LB. BM		2
4	3"x 1/2" 30008 Elbow		
5	3"x 1/2" 30008 Thread-Off-Let		
6			
7			
8			
9			
10			

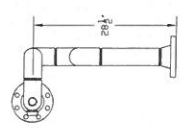
Notes: 1.		PG-03 Chilled Gas to V-2 Piping Tag Details		CREATIVE MECHANICAL & WELDING SERVICES, INC. 1760 MILLER RD. 303-778-9441 FAX 303-778-2052	
REV.	DESCRIPTION	DATE	DES. BY	CHKD BY	JFH
1	For Construction	12/31/14	GS Job #2054		
0	For Review	12/27/14	CMS Job #1419		
		DATE	DES. BY	CHKD BY	JFH
		12/31/14	1/2-1	1 OF	
		1419-41-SD-53		REV.	

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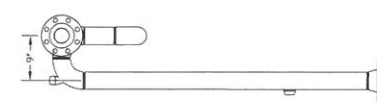
1 2 3 4 5 6



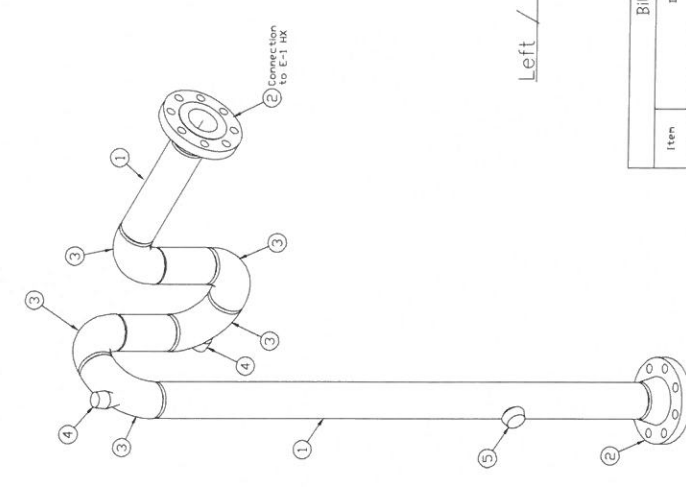
Right Elevation



Plan



Front Elevation



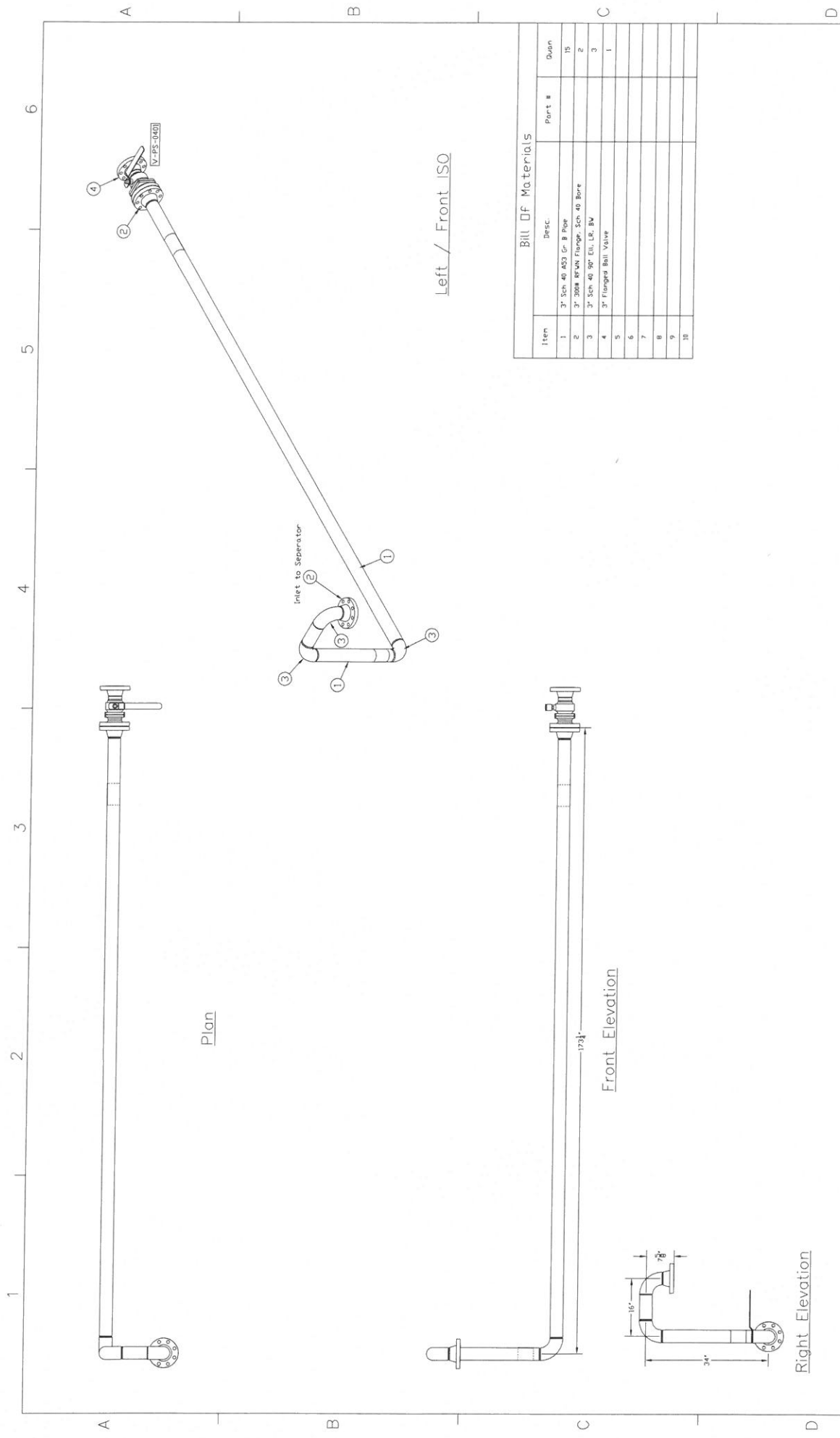
Left / Front ISO

Bill Of Materials

Item	Desc.	Part #	Quan
1	3" Sch 40 MSK 8' B Pipe		10
2	3" 300# 8" NPS Flange, Sch 40 Bore		2
3	3" Sch 40 90° EL. LR, BW		5
4	3" 3" 300# Elbow		2
5	3" 3" 300# Thread-On-Let		1
6			
7			
8			
9			
10			

Notes: 1.		PG-02 V-1 to HX Inlet Piping Job Details		CREATIVE MECHANICAL & WELDING SERVICES, LLC 7653 MILLER AVE. FREEDOM, MO 64025 303-778-2741 FAX 303-778-2057	
REV	DESCRIPTION	DATE	DR	BY	CHK
1	For Construction	12/31/14	GS	Job #2024	
0	For Review	12/27/14	CMS	Job #1419	
		DATE	DR	BY	CHK
		12/31/14	1/2/14	1/1	GF
		1419-41-SD-52		REV	
				1	

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Bill Of Materials

Item	Desc.	Part #	Quan
1	3" Sch 40 453 Gr B Pipe		15
2	3" 3048 8744 Flange, Sch 40 Bore		2
3	3" Sch 40 90° Elb, LR, BW		3
4	3" Flanged Ball Valve		1
5			
6			
7			
8			
9			
10			

Notes:

- 1.

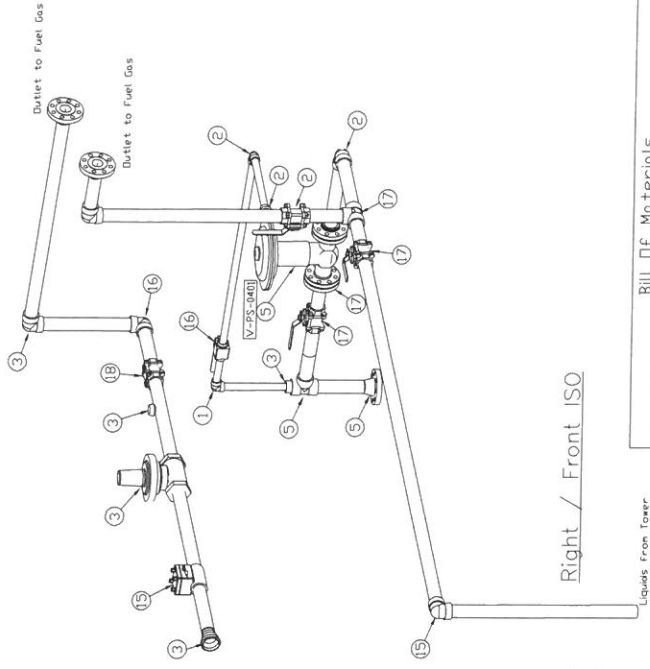
Project Summary:
 1-3 WCD Gas / Liquids Plant
 12/31/14 OSI Job #1054
 12/27/14 CMS Job #1419

Revision History:

REV	DATE	DESCRIPTION	BY	CHK
1	12/31/14	1/2" = 1'	JH	
0	12/27/14		TC	

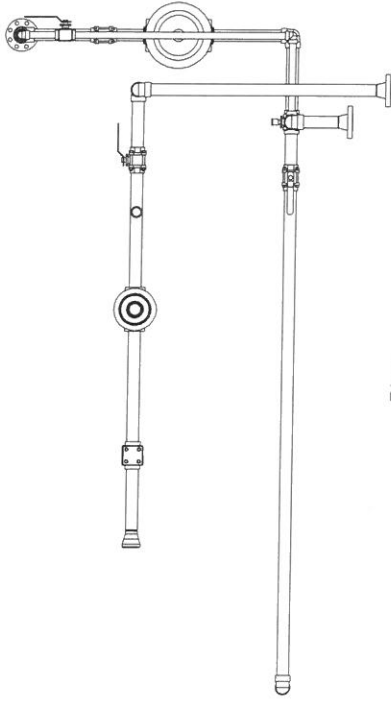
CREATIVE MECHANICAL & WELDING SERVICES, INC.
 7603 MILLER DR. BREITENBURG, MO 64604
 503-776-5943 FAX 503-776-2057

1419-41-SD-51

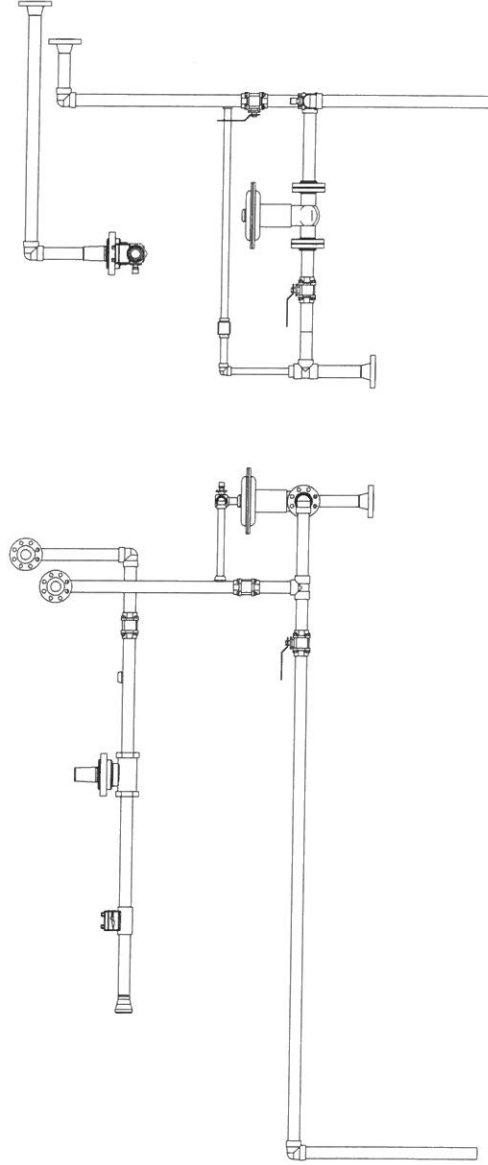


Right / Front ISO

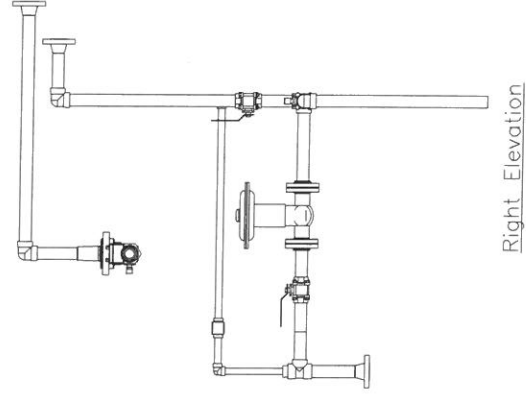
Bill Of Materials			
Item	Desc:	Part #	Quan
1	3" Sch 40 AS3 Gr. B Pipe		
2	3" 300# RFWN Flange, Sch 40 Bore		
3	3" Sch 40 90° Ell. LB. BW		
4	3" Sch 40 Tee, BW		
5	3/4" Sch 40 Conc. Reducer, BW		
6	2" 300# RFWN Flange		
7	2" 300# Gatecock Estret. 1/4" Thk.		
8	2" 300# RF502 Flange		
9	2" 300# 90° Ell. Soc		
10	2" 300# Tee, Soc		
11	2" x 1" 300# In x Soc Reducer		
12	3/4" 300# Soc-Dr-Let		
13	3/4" 300# Thread-Or-Let		
14	3" x 1" 300# Elbowlet		
15	3" Sch 40 45° Ell. BW		
16	3/4" Sch 40 Reducing Tee, BW		
17	Flow Meter		
18	3" Wafer Check Valve		
19			
20			



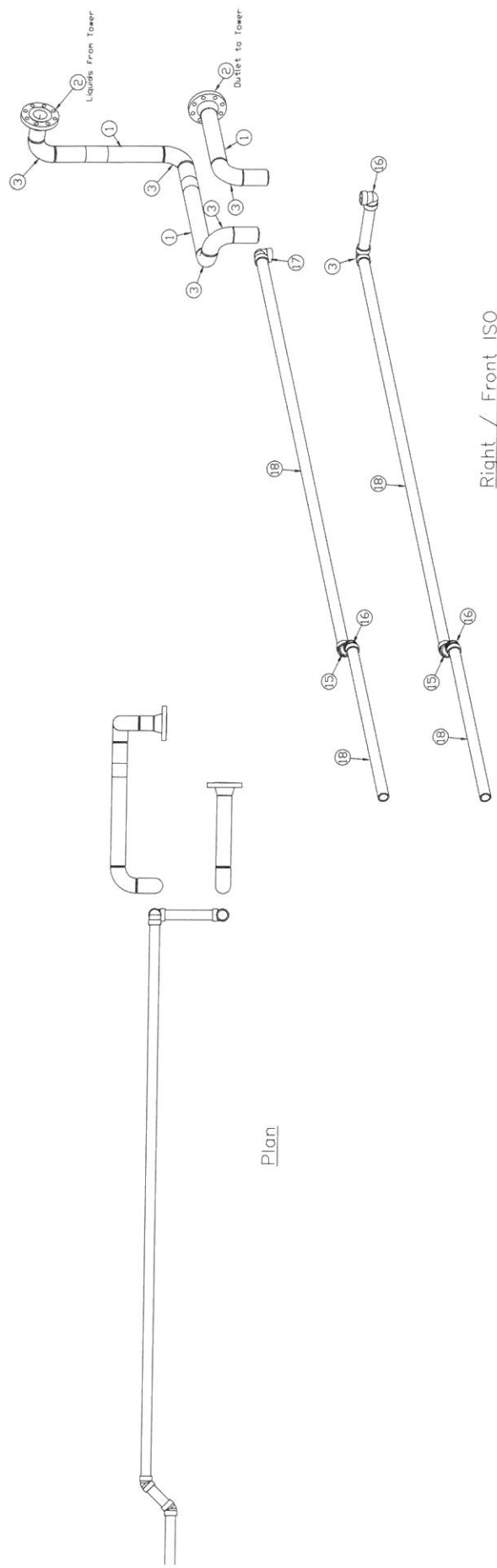
Plan



Front Elevation



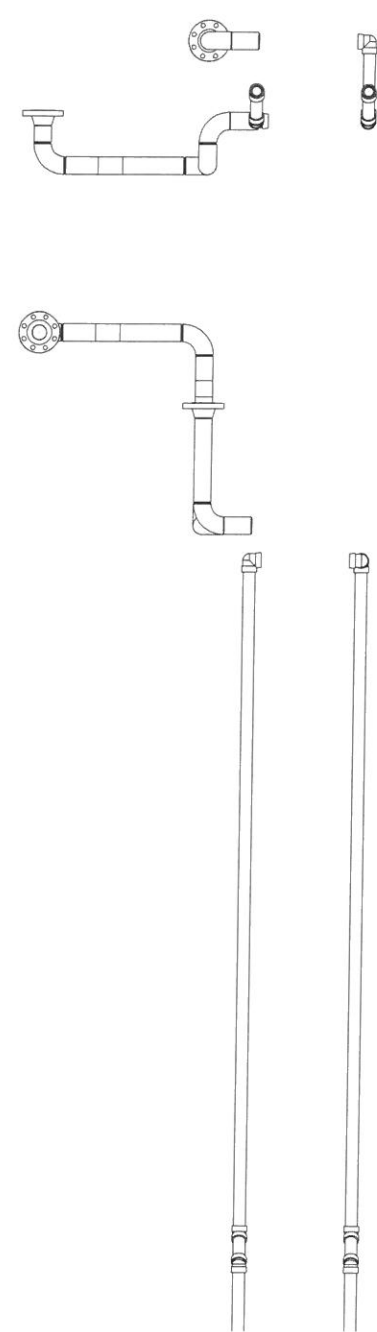
Right Elevation



Plan

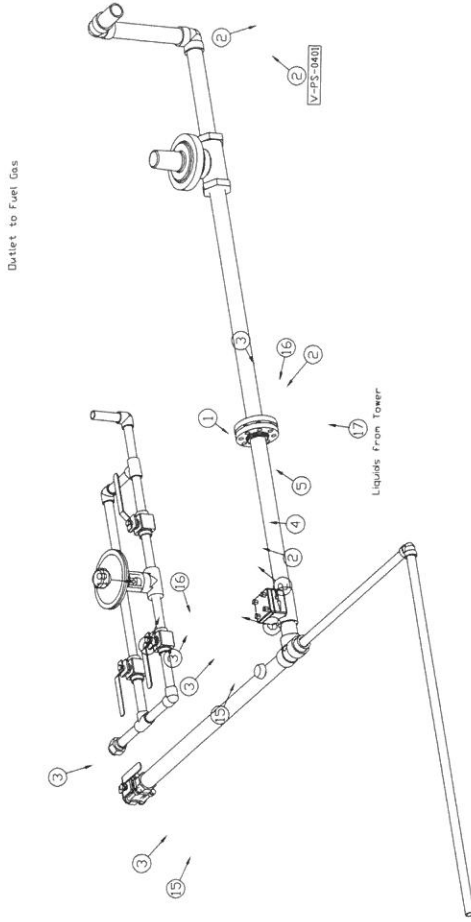
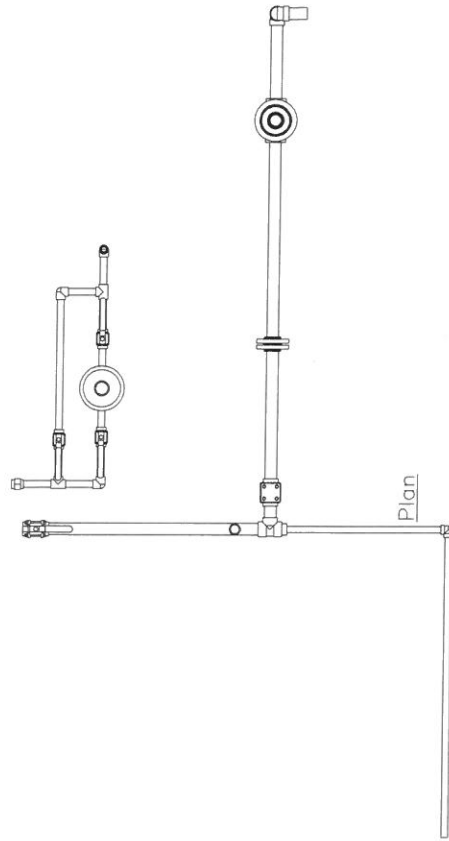
Right / Front ISO

Bill Of Materials			
Item	Desc:	Part #	Quan
1	3" Sch 40 452 Gr B Pipe		
2	3" 3008 RFVN Flange Sch 40 Bore		
3	3" Sch 40 90° Ell. LB. BW		
4	3" Sch 40 Tee. BW		
5	3"x2" Sch 40 Conc Reducer. BW		
6	2" 3008 RFVN Flange		
7	2" 3008 Gasket Gasket, & Tie		
8	2" 3008 RF50C Flange		
9	2" 3008 90° Ell. Soc		
10	2" 3008 Tee. Soc		
11	2" x 1" 3008 In x Soc Reducer		
12	3"x1" 3008 Soc-O-Let		
13	3"x1" 3008 Thread-O-Let		
14	3"x 1" 3008 Elbowet		
15	3" Sch 40 45° Ell. BW		
16	3"x2" Sch 40 Reducing Tee. BW		
17	Flow Meter		
18	3" Wafer Check Valve		
19			
20			



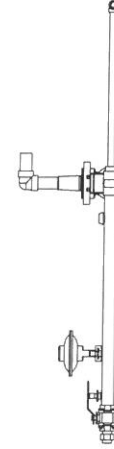
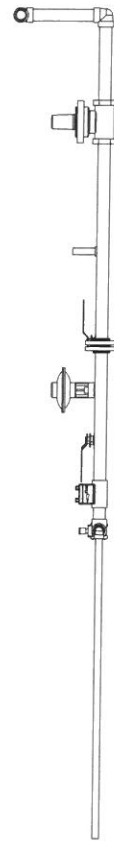
Front Elevation

Right Elevation



Right / Front ISO

Bill Of Materials			
Item	Desc.	Part #	Quan
1	3" Sch 40 453 Gr. B Pipe		
2	3" 3008 RFVN Flange, Sch 40 Bore		
3	3" Sch 40 90° Ell. LG. BW		
4	3" Sch 40 Tee, BW		
5	3"x2" Sch 40 Conc. Reducer, BW		
6	3" 3008 RFVN Flange		
7	2" 3008 Gatecock Gasket, 8" Tite		
8	2" 3008 RF30C Flange		
9	2" 3008 90° Ell. Soc		
10	2" 3008 Tee, Soc		
11	2" x 1" 3008 In. x Soc Reducer		
12	3"x1" 3008 Soc-Q-Let		
13	3"x1" 3008 Thread-Glet		
14	3"x 1" 3008 Elbowlet		
15	3" Sch 40 45° Ell. BW		
16	3"x2" Sch 40 Reducing Tee, BW		
17	Flow Meter		
18	3" Wafer Check Valve		
19			
20			



Front Elevation

Right Elevation

[illegible]