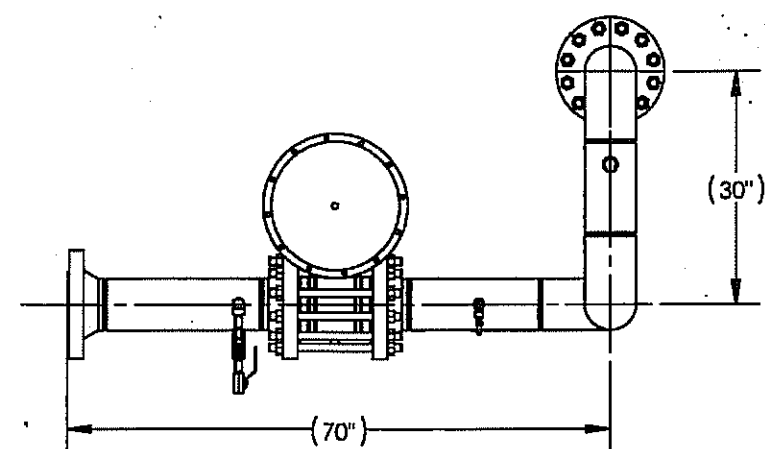
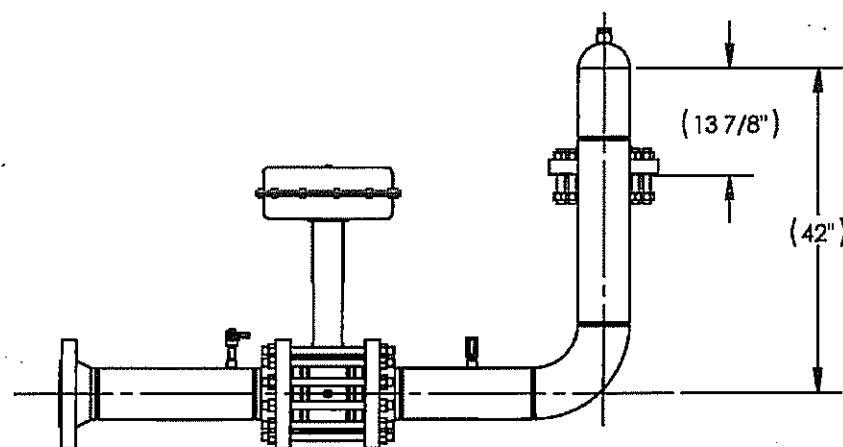
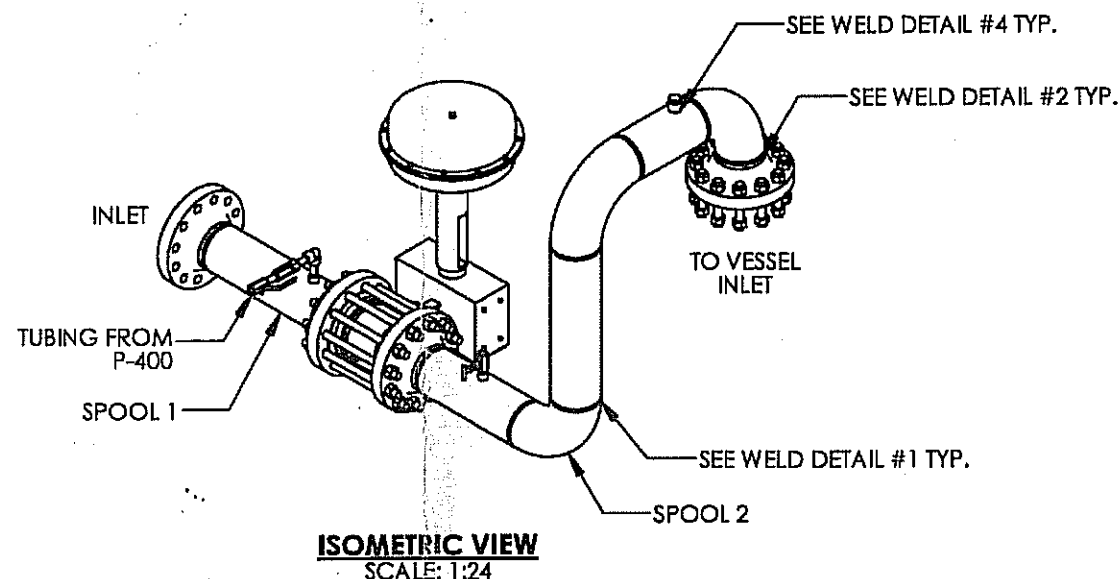




PLAN VIEW
SCALE: 1:24

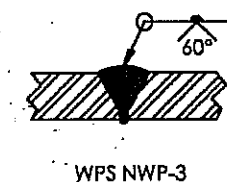


FRONT VIEW
SCALE: 1:24



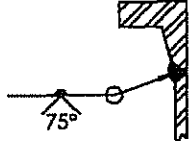
ISOMETRIC VIEW
SCALE: 1:24

WELD DETAIL #1



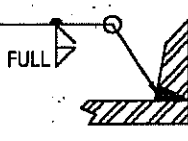
WPS NWP-3

WELD DETAIL #2



WPS NWP-3

WELD DETAIL #4



WPS NWP-1

NOTES

1. ALL DIMENSIONS SHALL HAVE A TOLERANCE OF $\pm 1/8$ " UNLESS OTHERWISE SPECIFIED.
2. ALL BOLT HOLES STRADDLE COMMON CENTER LINE.
3. CUT LENGTHS FOR PIPE ARE FOR REFERENCE ONLY. SHOP TO ADJUST PIPE LENGTHS AS REQUIRED.
4. DIMENSIONS IN PARENTHESIS TO BE CONSIDERED CRITICAL.

DESIGN DATA

LINE NUMBER:	PF-6"-F-80AB-100
CLIENT SPECIFICATION:	-
DESIGN & FABRICATE TO:	ANSI/ASME B31.3 NFS 2010 EDITION
DESIGN PRESSURE:	1440 PSI
MAXIMUM DESIGN TEMPERATURE:	100°F
MINIMUM DESIGN TEMPERATURE:	-20°F
SERVICE:	HYDROCARBONS
HYDROSTATIC TEST PRESSURE:	2160 PSI
RADIOGRAPHY:	10% BW
OTHER NDE:	-
POST WELD HEAT TREATMENT:	NONE
CORROSION ALLOWANCE:	1/16"
Q.C. PROGRAM NO.:	AQP-1253
WELDING PROCEDURE REGISTRATION NO.:	WP-1604.2

AS BUILT

ISSUED FOR CONSTRUCTION ORIGINAL

DOCUMENT NO.	DESCRIPTION	REV	DATE	BY	CHK	APP	DRAWING REVISIONS
08246-2B	PIPING ASSEMBLY						
08246-1	PIPING AND INSTRUMENTATION DIAGRAM						
08246	GENERAL ARRANGEMENT	0	2011.01.16	JHK	BA	D	ISSUED FOR CONSTRUCTION
REFERENCE DRAWINGS							

ISSUED FOR CONSTRUCTION

SIGNED: *[Signature]*
DATE: JAN 25 2012
W.O. 8246-B

S.O.: -

ALL DIMENSIONS IN INCHES



P.O. BOX 6280, INNISFAIR, AB T4G 1S9
PH: (403) 227-4100 FAX: (403) 227-4102

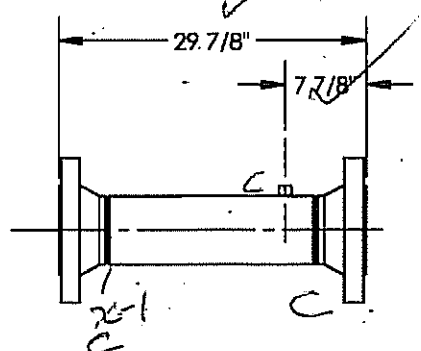
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PERPETUAL ENERGY
HORIZONTAL SEPARATOR PACKAGE
36" OD x 10' S/S 1440 PSI
SWEET SERVICE
WELDED PIPING

DWN: JHK	CHK: <i>[Signature]</i>	APP: <i>[Signature]</i>
DATE: 2012.01.16	DATE: Jan 25/12	DATE: Jan 25/2012
SCALE: 1:24	DWG: 08246-2A	REV: 0
SHEET: 1 OF 4		

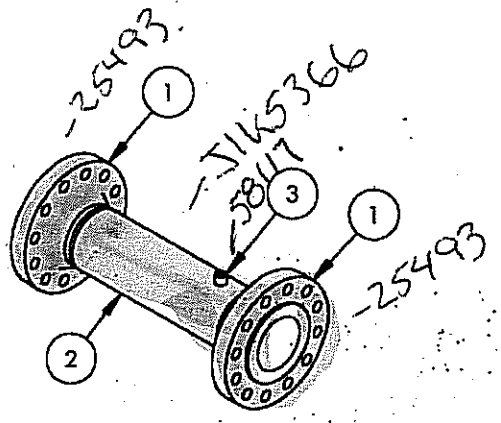
ITEM	PART #	DESCRIPTION	MTR #	LENGTH	QTY.
1	FLA6C80AE	Flange 6" 600 ANSI S/80 RFWN SA105N	25493		2
2	PIP680A	PIPE 6" SCH XH/80 SA106B	51K5366	20 1/8"	1
3	TOL5G.7536E	THREADOLET 1/2" 3M (0.75"-36") SA105N	58117		1

19 7/8"

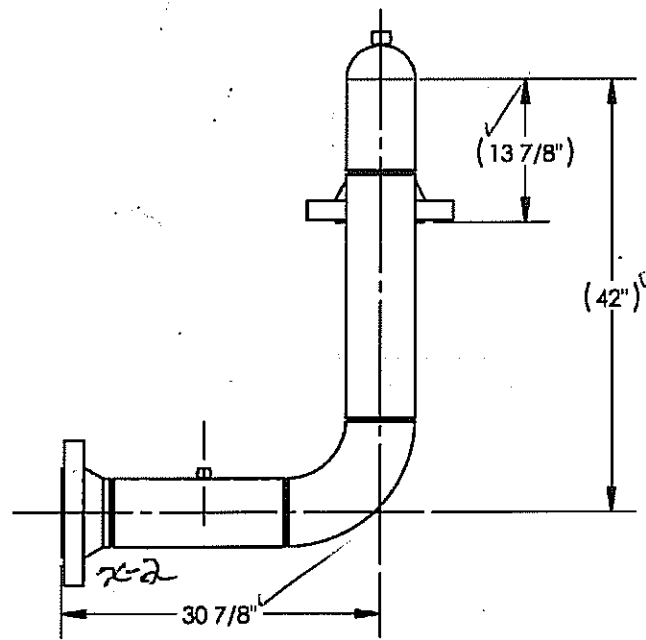


**FRONT VIEW
SPOOL 1
SCALE: 1:18**

QC
RMR
FEB 15/12

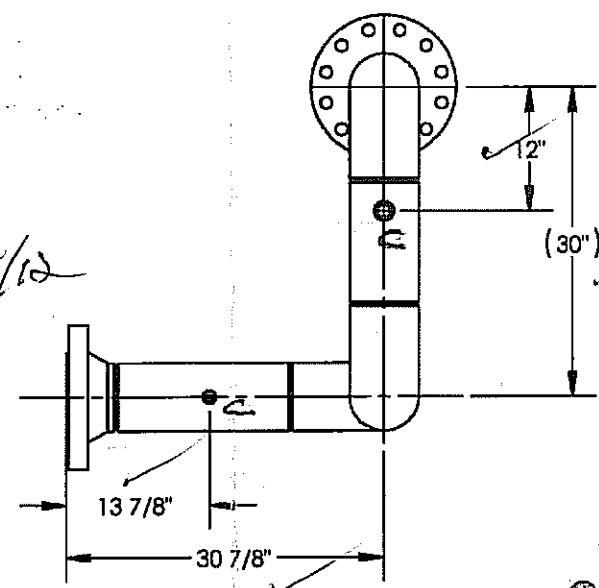


**ISOMETRIC VIEW
SPOOL 1
SCALE: 1:18**



**FRONT VIEW
SPOOL 2
SCALE: 1:18**

QC
RMR
FEB 15/12

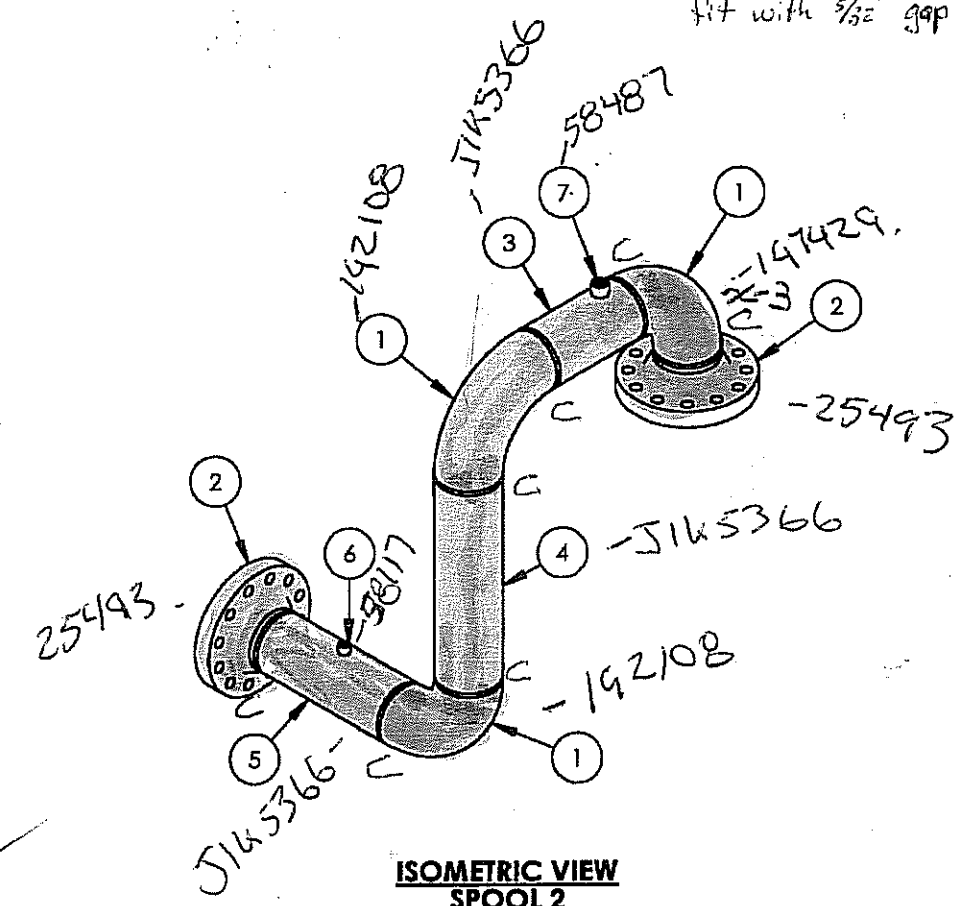


**PLAN VIEW
SPOOL 2
SCALE: 1:18**

ISSUED FOR CONSTRUCTION

ITEM	PART #	DESCRIPTION	MTR #	LENGTH	QTY.
1	EL96L80GC	ELBOW 90 DEG 6" LR SCH XH/80 BW SA234-WPB	167429		3
2	FLA6C80AE	Flange 6" 600 ANSI S/80 RFWN SA105N	25493		2
3	PIP680A	PIPE 6" SCH XH/80 SA106B	51K5366	12"	1
4	PIP680A	PIPE 6" SCH XH/80 SA106B		24"	1
5	PIP680A	PIPE 6" SCH XH/80 SA106B		17"	1
6	TOL5G.7536E	THREADOLET 1/2" 3M (0.75"-36") SA105N	58117		1
7	TOL1G336E	THREADOLET 1" 3M (3"-36") SA105N	58487		1

Fit with 5/32" gap



**ISOMETRIC VIEW
SPOOL 2
SCALE: 1:18**

**AS BUILT
ORIGINAL**

08246-2B	PIPING ASSEMBLY						
08246-1	PIPING AND INSTRUMENTATION DIAGRAM						
08246	GENERAL ARRANGEMENT	0	2011.01.16	JHK	SA	8	ISSUED FOR CONSTRUCTION
DOCUMENT NO.	DESCRIPTION	REV	DATE	BY	CHK	APP	
REFERENCE DRAWINGS							DRAWING REVISIONS

**ISSUED FOR
CONSTRUCTION**

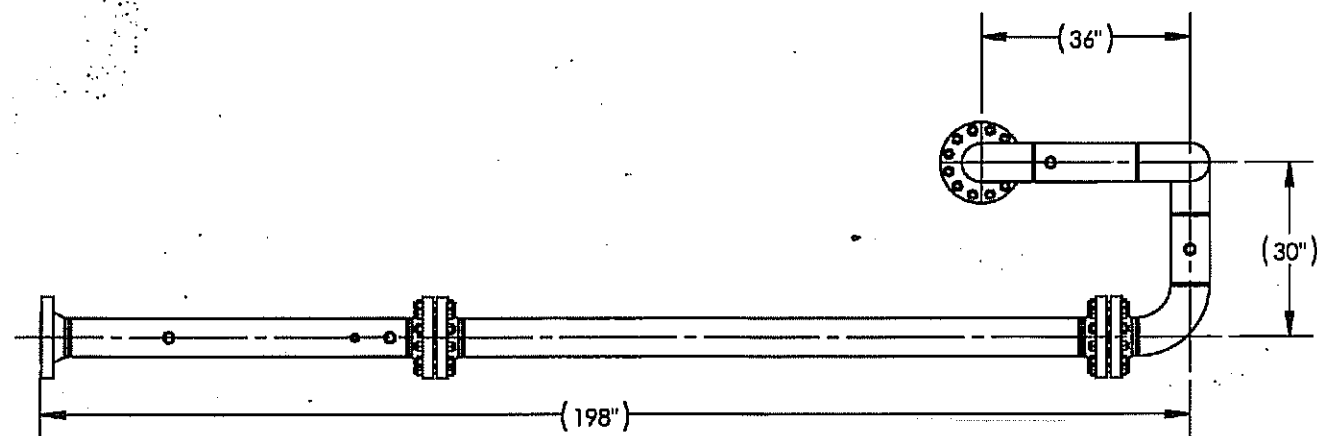
SIGNED: *[Signature]*
DATE: JAN 25 2012
W.O. 246-B
S.O.:
ALL DIMENSIONS IN INCHES



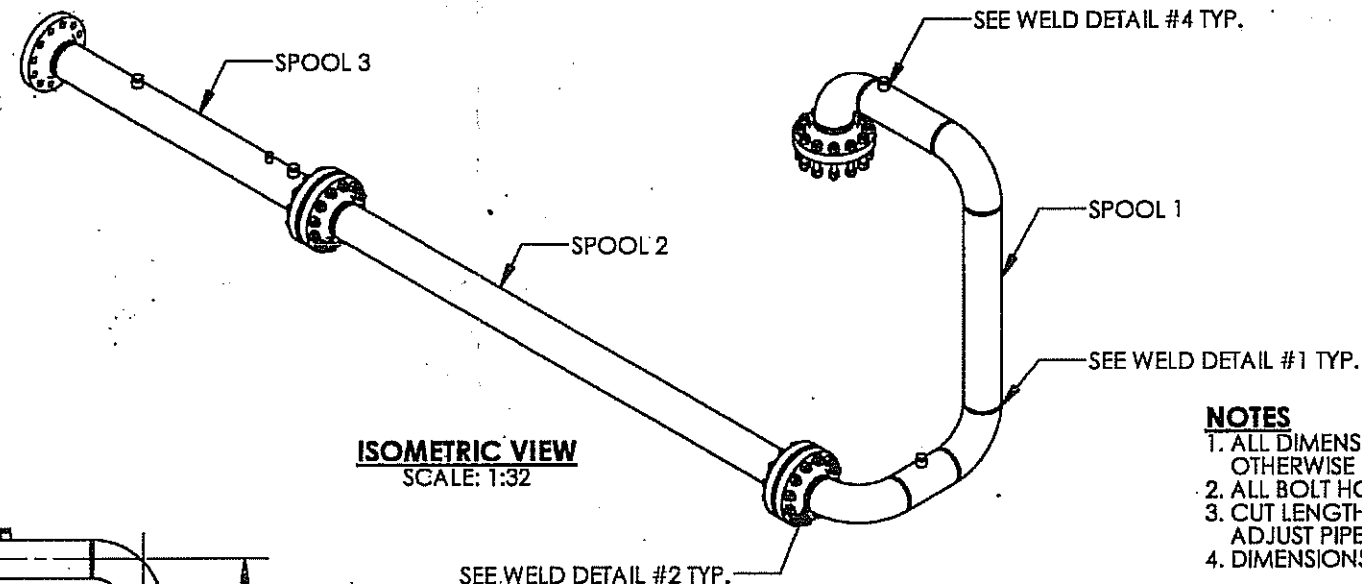
P.O. BOX 6280, INNISFAIR, AB T4G 1S9
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PERPETUAL ENERGY
HORIZONTAL SEPARATOR PACKAGE
36" OD x 10' S/S 1440 PSI
SWEET SERVICE
WELDED PIPING

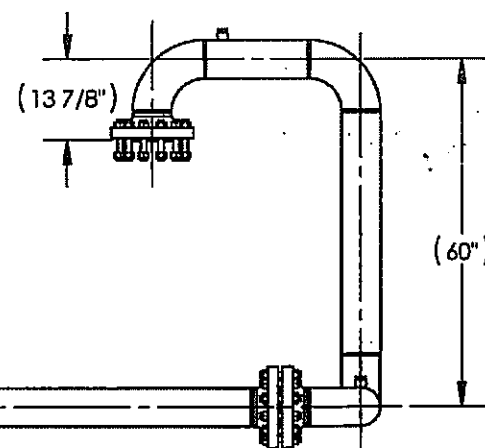
DWN: JHK	CHK: SA	APP: 8
DATE: 2012.01.16	DATE: Jan 25/12	DATE: Jan 20/2012
SCALE: 1:18	DWG: 08246-2A	REV: 0
SHEET: 2 OF 4		



PLAN VIEW
SCALE: 1:32

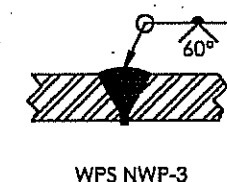


ISOMETRIC VIEW
SCALE: 1:32

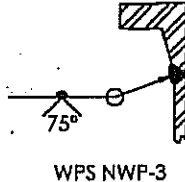


FRONT VIEW
SCALE: 1:32

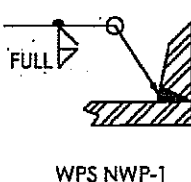
WELD DETAIL #1



WELD DETAIL #2



WELD DETAIL #4



NOTES

1. ALL DIMENSIONS SHALL HAVE A TOLERANCE OF $\pm 1/8"$ UNLESS OTHERWISE SPECIFIED.
2. ALL BOLT HOLES STRADDLE COMMON CENTER LINE.
3. CUT LENGTHS FOR PIPE ARE FOR REFERENCE ONLY. SHOP TO ADJUST PIPE LENGTHS AS REQUIRED.
4. DIMENSIONS IN PARENTHESIS TO BE CONSIDERED CRITICAL.

DESIGN DATA

LINE NUMBER:	PG-6"-F-80AB-101
CLIENT SPECIFICATION:	-
DESIGN & FABRICATE TO:	ANSI/ASME B31.3 NFS 2010 EDITION
DESIGN PRESSURE:	1440 PSI
MAXIMUM DESIGN TEMPERATURE:	100 °F
MINIMUM DESIGN TEMPERATURE:	-20 °F
SERVICE:	HYDROCARBONS
HYDROSTATIC TEST PRESSURE:	2160 PSI
RADIOGRAPHY:	10% BW
OTHER NDE:	-
POST WELD HEAT TREATMENT:	NONE
CORROSION ALLOWANCE:	1/16"
Q.C. PROGRAM NO.:	AQP-1253
WELDING PROCEDURE REGISTRATION NO.:	WP-1604.2

AS BUILT

ISSUED FOR CONSTRUCTION

DOCUMENT NO.	DESCRIPTION	REV	DATE	BY	CHK	APP	
08246-2B	PIPING ASSEMBLY						
08246-1	PIPING AND INSTRUMENTATION DIAGRAM						
08246	GENERAL ARRANGEMENT	0	2011.01.16	JHK	GH	D	ISSUED FOR CONSTRUCTION
REFERENCE DRAWINGS		DRAWING REVISIONS					

ISSUED FOR CONSTRUCTION

SIGNED: *[Signature]*
DATE: JAN 25 2012
W.O. 08246-B

S.O.:
ALL DIMENSIONS IN INCHES



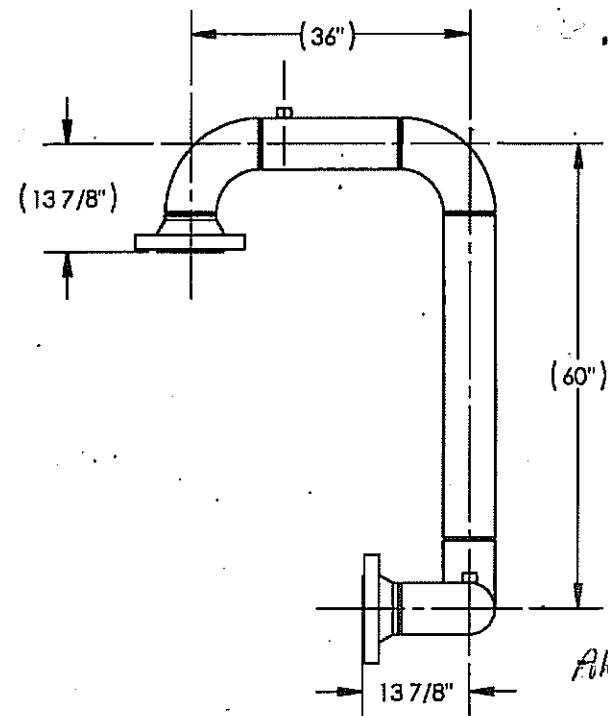
P.O. BOX 6280, INNISFAIR, AB T4G 1S9
PH: (403) 227-4100 FAX: (403) 227-4102

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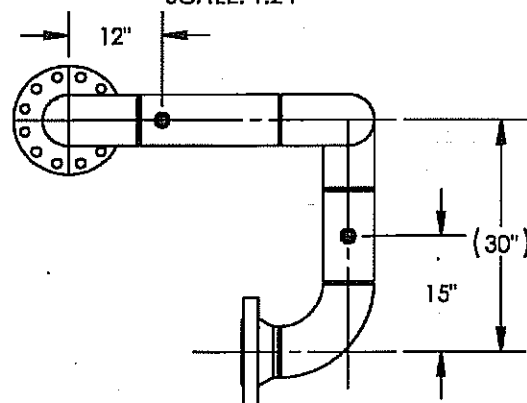
PERPETUAL ENERGY
HORIZONTAL SEPARATOR PACKAGE
36" OD x 10' S/S 1440 PSI
SWEET SERVICE
WELDED PIPING

DWN: JHK	CHK: GH	APP: D
DATE: 2012.01.16	DATE: Jan 25/12	DATE: Jan 24/2012
SCALE: 1:32	DWG: 08246-2A	REV: 0
SHEET: 3 OF 4		

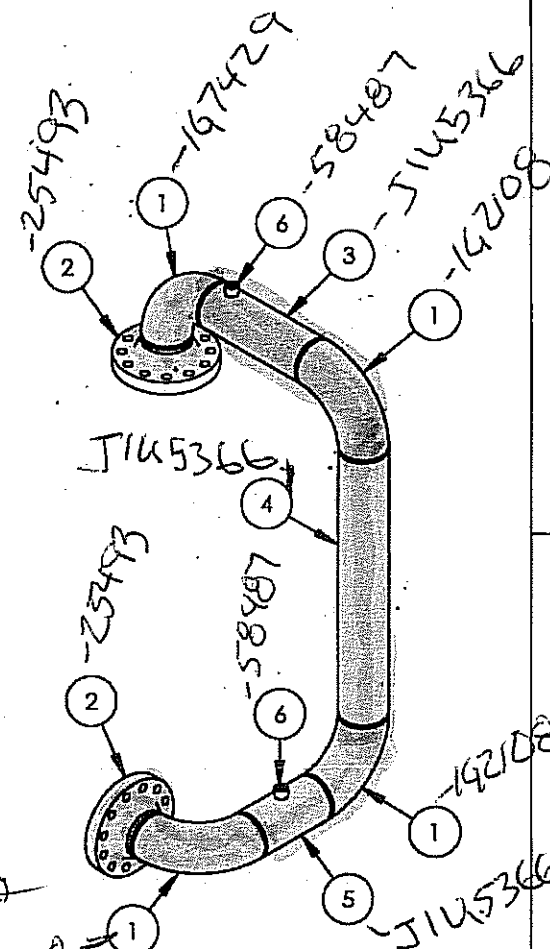
ITEM	PART #	DESCRIPTION	MTR #	LENGTH	QTY.
1	EL96L80GC	ELBOW 90 DEG 6" LR SCH XH/80 BW SA234-WPB	167429/162108		4
2	FLA6C80AE	Flange 6" 600 ANSI S/80 RFWN SA105N	25493		2
3	PIP680A	PIPE 6" SCH XH/80 SA106B	51K5366	18"	1
4	PIP680A	PIPE 6" SCH XH/80 SA106B		42"	1
5	PIP680A	PIPE 6" SCH XH/80 SA106B		12"	1
6	TOL1G336E	THREDOLET 1" 3M (3"-36") SA105N	58487	-	2



FRONT VIEW
SPOOL 1
SCALE: 1:24



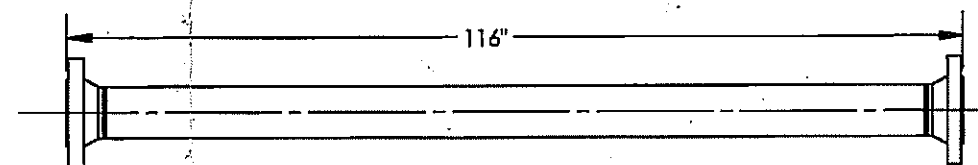
PLAN VIEW
SPOOL 1
SCALE: 1:24



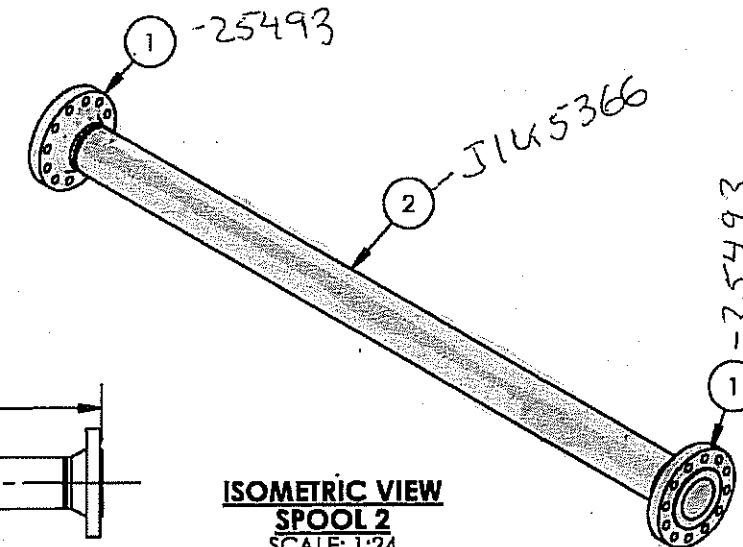
ISOMETRIC VIEW
SPOOL 1
SCALE: 1:24

ISSUED FOR CONSTRUCTION

ITEM	PART #	DESCRIPTION	MTR #	LENGTH	QTY.
1	FLA6C80AE	Flange 6" 600 ANSI S/80 RFWN SA105N	25493		2
2	PIP680A	PIPE 6" SCH XH/80 SA106B	51K5366	106 1/4"	1

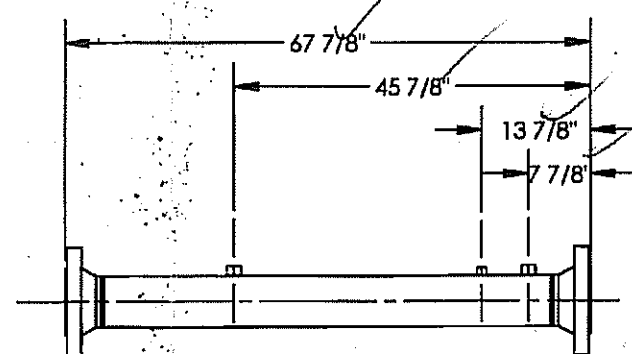


FRONT VIEW
SPOOL 2
SCALE: 1:24

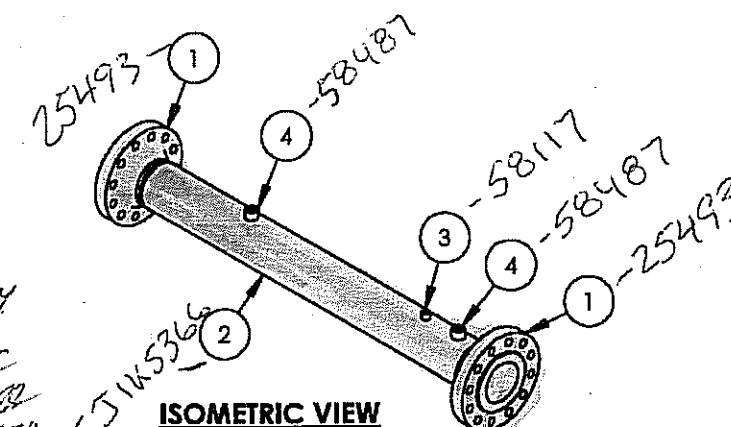


ISOMETRIC VIEW
SPOOL 2
SCALE: 1:24

ITEM	PART #	DESCRIPTION	MTR #	LENGTH	QTY.
1	FLA6C80AE	Flange 6" 600 ANSI S/80 RFWN SA105N	25493		2
2	PIP680A	PIPE 6" SCH XH/80 SA106B	51K5366	58 1/8"	1
3	TOL5G7536E	THREDOLET 1/2" 3M (0.75"-36") SA105N	58117	-	1
4	TOL1G336E	THREDOLET 1" 3M (3"-36") SA105N	58487	-	2



FRONT VIEW
SPOOL 3
SCALE: 1:24



ISOMETRIC VIEW
SPOOL 3
SCALE: 1:24

AS BUILT ORIGINAL

DOCUMENT NO.	DESCRIPTION	REV	DATE	BY	CHK	APP
08246-2B	PIPING ASSEMBLY					
08246-1	PIPING AND INSTRUMENTATION DIAGRAM					
08246	GENERAL ARRANGEMENT	0	2011.01.16	JHK	SA	ISSUED FOR CONSTRUCTION
08246-2A	PIPING AND INSTRUMENTATION DIAGRAM					

ISSUED FOR CONSTRUCTION
SIGNED: <i>[Signature]</i>
DATE: JAN 25 2012
W.O. 08246-B
S.O.:
ALL DIMENSIONS IN INCHES

NWP INDUSTRIES INC. Total oilfield supply.
P.O. BOX 6280, INNISFAIL, AB T4G 1S9 PH: (403) 227-4100 FAX: (403) 227-4102
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PERPETUAL ENERGY HORIZONTAL SEPARATOR PACKAGE 36" OD x 10' S/S 1440 PSI SWEET SERVICE WELDED PIPING		
DWN: JHK	CHK: SA	APP: SA
DATE: 2012.01.16	DATE: Jan 25/12	DATE: Jan 20/2012
SCALE: 1:24	DWG: 08246-2A	REV: 0
SHEET: 4 OF 4		