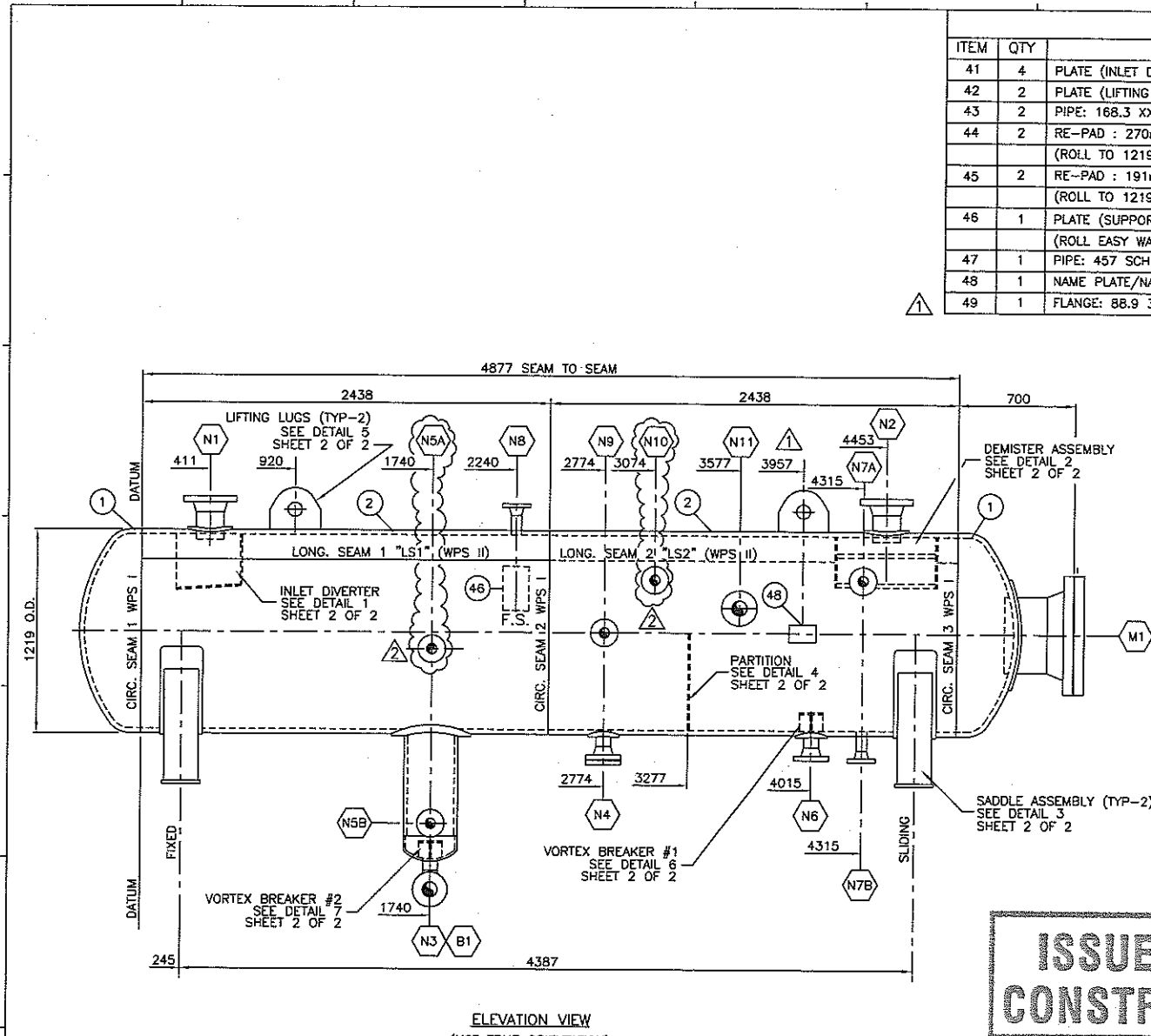




BILL OF MATERIALS			
ITEM	QTY	DESCRIPTION	MATERIAL
41	4	PLATE (INLET DIVERTER): 10mm THK (CUT AS PER DETAIL 1)	SA-516-70N
42	2	PLATE (LIFTING LUG): 300mmW x 250mm LG x 25mm THK(SEE DET.5)	SA-516-70N
43	2	PIPE: 168.3 XXS SMLS x 162mm LONG N1,N2	SA-106-B
44	2	RE-PAD : 270mm OD x 171mm I.D x 6.35mm THK N1,N2	SA-516-70N
45	2	RE-PAD : 191mm OD x 92mm I.D x 12.7mm THK N4,N6	SA-516-70N
46	1	PLATE (SUPPORT PAD): 153mmW x 307mm LG x 6mm THK	SA-516-70N
47	1	PIPE: 457 SCH.80 SMLS x 255mm LONG M1	SA-106-B
48	1	NAME PLATE/NAME PLATE BRACKET	SS/SA-516-70N
49	1	FLANGE: 88.9 300 ANSI RFLWN x 285mm LONG	SA-105N

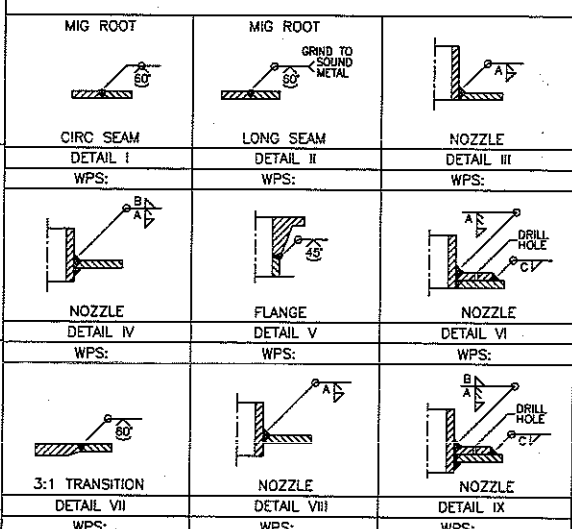
BILL OF MATERIALS			
ITEM	QTY	DESCRIPTION	MATERIAL
1	2	2:1 SE HEAD: 1219mm O.D. x 28.575mm NOM. THK, 25.4mm MTAf, 50mm SF.	SA-516-70N
2	2	PLATE (SHELL) : 1219mm O.D. x 28.575mm NOM. THK x 2438mm LG	SA-516-70N
3	1	PIPE: 324 SCH.100 SMLS x 662mm LG	SA-106-B
4	1	WELD CAP (HEAD): 324 O.D. SCH.80	SA-324-WPB
5	1	RE-PAD : 565mm O.D. x 327mm I.D. x 19mm THK, (ROLL TO 1219mm I.D.)	SA-516-70N
6	1	RE-PAD : 762mm OD x 480mm I.D x 19mm THK (DISH I.D. TO MATCH 1219mm OD 2:1 DISHED HEAD)	SA-516-70N
7	1	FLANGE: 457 300 ANSI RFWN SCH.80 BORE	SA-105N
8	1	BLIND FLANGE: 457 300 ANSI RF	SA-105N
9	2	FLANGE: 168.3 300 ANSI RFWN XXS BORE	SA-105N
10	1	FLANGE: 88.9 300 ANSI RFWN SCH.160 BORE	SA-105N
11	2	FLANGE: 88.9 300 ANSI RFWN XXS BORE	SA-105N
12	7	FLANGE: 60.3 300 ANSI RFWN, SCH.160 BORE	SA-105N
13	1	ELBOW: 88.9 SCH160 90° LR, BW	SA-234-WPB
14	1	PIPE: 88.9 SCH.160 SMLS x 75mm LONG (SHOP CONFIRM LENGTH)	SA-106-B
15	2	PIPE: 88.9 XXS SMLS x 102mm LONG (SHOP CONFIRM LENGTH)	SA-106-B
16	2	PIPE: 60.3 SCH.160 SMLS x 135mm LONG	SA-106-B
17	1	PIPE: 60.3 SCH.160 SMLS x 116mm LONG	SA-106-B
18	1	PIPE: 60.3 SCH.160 SMLS x105mm LONG	SA-106-B
19	3	PIPE: 60.3 SCH.160 SMLS x 110mm LONG	SA-106-B
20	1	1/8" THK FLEXITALLIC GASKET FOR 457 300# FLANGE NOZZLE	316SS
21	24	STUDS : Ø32mm x 197mm LONG	SA-193-B7M
22	48	NUTS : Ø32mm	SA-194-2HM
23	6	BOLT : Ø10mm x 32mm LONG c/w (1) HEX HEAD NUT EACH	SS
24	2	PLATE: Ø140mm x 10mm THK (SEE DET. 6, 7)	SA-516-70N
25	2	PLATE: 110mm W x 140mm LG x 10mm THK (SEE DET.6 & 7, CTS)	SA-516-70N
26	4	PLATE: 110mm W x 65mm LG x 10mm THK (SEE DET.6 & 7, CTS)	SA-516-70N
27	2	1/8" THK FLEXITALLIC GASKET FOR 88.9 300# FLANGE NOZZLE	316SS
28	16	STUDS : Ø19mm x 108mm LONG	SA-193-B7M
29	32	NUTS : Ø19mm	SA-194-2HM
30	6	PLATE (DEMISTER CLIP): 25mm W x 75mm LG x 10mm THK (DET. 2)	SA-516-70N
31	3	PLATE: 25mm W x 10mm THK -REMOVABLE STIFFENERS (SEE DET. 2)	SA-516-70N
32	3	PLATE: 25mm W x 10mm THK - FIXED STIFFENERS (SEE DET. 2)	SA-516-70N
33	1	DEMISTER: 152mm THK @ 9 lbs/ft3 x 590mm O.D., 316SS MESH, 316SS GRID (1/2 MOON SHAPE - 2 SECTIONS)	
34	1	PIPE(DEMISTER HOUSING): 610 SCH.STD SMLS x 302mm LONG (CTS)	SA-106-B
35	4	PLATE: 204mm W x 621mm LG x 10mm THK (SEE DET. 3)	SA-36
36	2	BLIND FLANGE: 88.9 300 ANSI RF	SA-105N
37	2	PLATE (BASE): 229mm W x 1118mm LONG x 19mm THK (SEE DET. 3)	SA-36
38	2	WEAR PLATE: 254mm W x 1603mm LG x 10mm THK (ROLL TO 1574mm I.D.)	SA-516-70N
39	2	PLATE: 621mm W x 1074mm LG x 10mm THK (SEE DETAIL 3, CTS)	SA-36
40	1	PLATE (PARTITION): 10mm THK (SEE DETAIL 4)	SA-516-70N

ISSUED FOR CONSTRUCTION

DJR
10/04/05

ORIENTATION
RIGHT END VIEW
(ELEVATION)

- NOTES:
1. ALL BOLTS TO STRADDLE NATURAL VESSEL CENTERLINES.
2. IMPACT TESTING EXEMPT AS PER UCS-66 (a) (c).



NOZZLE SCHEDULE														
NOZZLE	SIZE	TYPE	SCH	RATING	SERVICE	PROJECTION		RE-PAD	WELD	FILLET WELD SIZE				BOM
						OUTSIDE	INSIDE	OD x THK	DETAIL	A	B	C	D	ITEM
N1	168.3	RFWN	XXS	300#	GAS INLET	200	26	270 x 6.35	V,IX	10	0	6.35		9,43,44
N2	168.3	RFWN	XXS	300#	GAS OUTLET	200	26	270 x 6.35	V,IX	10	0	6.35		9,43,44
N3	88.9	RFWN	160	300#	WATER OUT	SHOWN	GRIND FLUSH	-	III,V	10	-			10,13,14
N4	88.9	RFWN	XXS	300#	DRAIN	150	GRIND FLUSH	191 x 12.7	V,VI	10	-	10	11,15,27,28,29,36,4	
N5A	60.3	RFWN	160	300#	BRIDLE CONN.	SHOWN	GRIND FLUSH	-	IV,V	10	0			12,17
N5B	60.3	RFWN	160	300#	BRIDLE CONN.	150	GRIND FLUSH	-	IV,V	10	0			12,18
N6	88.9	RFWN	XXS	300#	CONDENSATE OUT	150	GRIND FLUSH	191 x 12.7	V,VI	10	-	10	11,15,45	
N7A	60.3	RFWN	160	300#	BRIDLE CONN.	SHOWN	GRIND FLUSH	-	IV,V	10	0			12,16
N7B	60.3	RFWN	160	300#	BRIDLE CONN.	150	GRIND FLUSH	-	IV,V	10	0			12,19
N8	60.3	RFWN	160	300#	PSV	150	GRIND FLUSH	-	IV,V	10	0			12,19
N9	60.3	RFWN	160	300#	TI CONN.	150	GRIND FLUSH	-	IV,V	10	0			12,19
N10	60.3	RFWN	160	300#	PI CONN.	SHOWN	GRIND FLUSH	-	IV,V	10	0			12,16
N11	88.9	RFLWN	20.67mm WT	300#	SPARE	SHOWN	75	-	III,V	10	-			49,27-29,36
B1	324	PIPE	100	-	WATER BOOT	150	GRIND FLUSH	565 x 19	VI,VII	10	0	16		3,4,5
M1	457	RFWN	80	300#	MANWAY c/w DAVIT	150	25 MIN	762 x 19	IX, V	10	0	16		6-8,20-22,47

DESIGN DATA												
DESIGN CODE: ASME CODE SEC. VIII DIV 1 2004 EDITION												
DESIGN PRESSURE: 5102 kPa @ 38°C (740 PSI @ 100°F)												
MINIMUM DESIGN METAL TEMPERATURE: -29°C @ 5102 kPa (-20°F @ 740 PSI)												
MAWP: 5102 kPa @ -29/38°C												
VESSEL HYDROTEST: 6633 kPa (962 PSI)												
VESSEL VOLUME: 5.80m3 (204.81ft3)												
VESSEL WEIGHT: 7,409 kg (16,300 lbs.)												
CORROSION ALLOWANCE: 3.2mm (0.125")												
HEAD THICKNESS: 28.575mm NOM (25.4mm MIN)												
SHELL THICKNESS: 28.575mm NOM												
SHELL JOINT EFFICIENCY: 1.0												
NDT: RT-1 FULL UW-11a TYPE 1												
PWHT: YES, 621°C FOR 75 MINUTES												
CRN: T.B.A.												
SURFACE PREP (EX): SSPC-SP6												
SURFACE PREP (INT): NONE												
INSULATION: NONE												
UNITS REQUIRED: TEA												

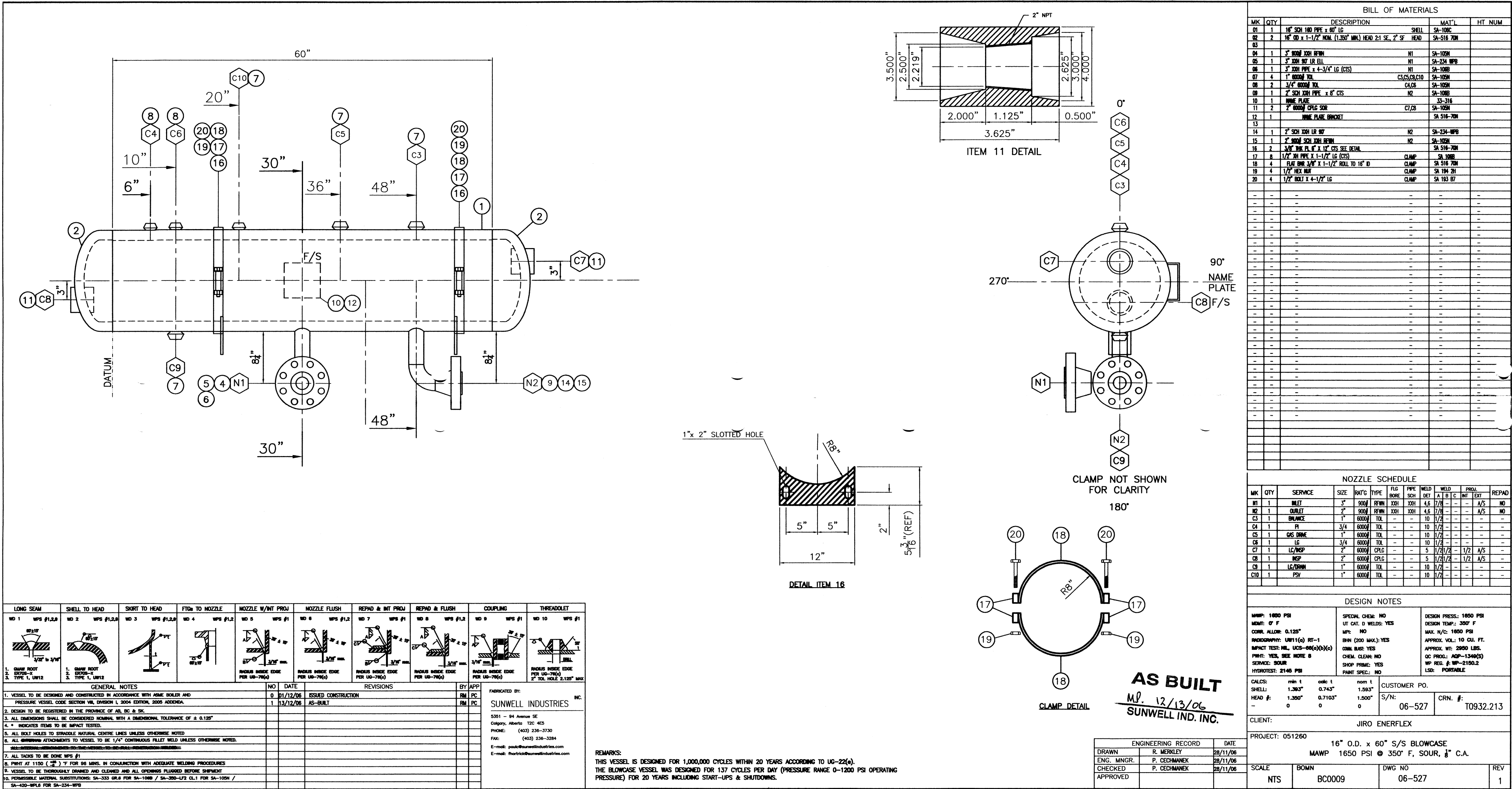
REFERENCE DRAWINGS				REVISIONS				APPROVED			
NUMBER	TITLE			NO.	BY	DATE	ISSUE	CHK'D	APP'D	DISCIPLINE	DATE
05-0062-01A-02	1219 O.D. SEPARATOR PACKAGE - MISCELLANEOUS DETAILS			A	DPB	05/08/15	ISSUED FOR APPROVAL				
05-0062-07A-01	1524 O.D. SEPARATOR PACKAGE - DAVIT DETAIL			0	DRG	05/08/22	ISSUED FOR CONSTRUCTION			MECHANICAL	
				1	DRG	05/09/13	RE-ISSUED FOR CONSTRUCTION			CIVIL/STRUCTURAL	
				2	HW	05/09/26	RE-ISSUED FOR CONSTRUCTION			ELECTRICAL	
										DRAFTING/CHECKED	

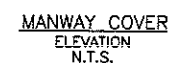
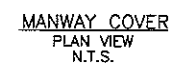


ENERFLEX

1219 O.D. SEPARATOR PACKAGE
SIZE: 1219 O.D. x 4877 S/S x 5102 kPag
ELEVATION AND ORIENTATION
SHEET (1 OF 2)

SCALE	DRAWN	DATE	PROJECT NO.	IFC JOB NO.	DRAWING NO.	REV.
1:40	DPB	05/08/13	05-0062	15091	05-0062-01A-01	2

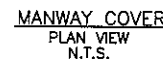




COVER WEIGHT (kg)		93	124	187
ANSI CLASS 300#				
SIZE (IN)		18"	20"	24"
COVER DIAMETER (mm)		712	775	915
DIMENSION 'A' (mm)		487	539	609
DIMENSION 'B' (mm)		565	597	667
DIMENSION 'C' (mm)		152	203	203
DIMENSION 'D' (mm)		203	229	254
DAVIT ARM	SIZE	2"	3"	3"
	SCHEDULE	80	80	80
DAVIT SLEEVE	SIZE	2 1/2"	4"	4"
	SCHEDULE	40	120	120
DAVIT COLLAR	SIZE	2 1/2"	4"	4"
	SCHEDULE	40	120	120
NOMINAL FIT (mm)		2.39	3.15	3.15
COVER WEIGHT (lbs)		390	492	754
COVER WEIGHT (kg)		177	224	343
ANSI CLASS 600#				
SIZE (IN)		18"	20"	24"
COVER DIAMETER (mm)		743	813	940
DIMENSION 'A' (mm)		528	564	629
DIMENSION 'B' (mm)		581	616	679
DIMENSION 'C' (mm)		203	203	203
DIMENSION 'D' (mm)		229	254	279
DAVIT ARM	SIZE	3"	3"	3"
	SCHEDULE	80	80	80
DAVIT SLEEVE	SIZE	4"	4"	4"
	SCHEDULE	120	120	120
DAVIT COLLAR	SIZE	4"	4"	4"
	SCHEDULE	120	120	120
NOMINAL FIT (mm)		3.15	3.15	3.15
COVER WEIGHT (lbs)		665	855	1175
COVER WEIGHT (kg)		302	387	534
ANSI CLASS 900#				
SIZE (IN)		18"	20"	24"
COVER DIAMETER (mm)		788	858	1042
DIMENSION 'A' (mm)		554	590	700
DIMENSION 'B' (mm)		603	638	730
DIMENSION 'C' (mm)		203	203	203
DIMENSION 'D' (mm)		254	279	330
DAVIT ARM	SIZE	3"	3"	4"
	SCHEDULE	80	80	80
DAVIT SLEEVE	SIZE	4"	4"	5"
	SCHEDULE	120	120	120
DAVIT COLLAR	SIZE	4"	4"	5"
	SCHEDULE	120	120	120
NOMINAL FIT (mm)		3.15	3.15	1.60
COVER WEIGHT (lbs)		880	1107	2099
COVER WEIGHT (kg)		294	360	673

10/20/05

PROJECT NO.	IFC JOB NO.	DRAWING NO.	REV.
05-0050	10000	10000-001	1



ANSI CLASS 300#			
SIZE (IN)	18"	20"	24"
COVER DIAMETER (mm)	712	775	915
DIMENSION 'A' (mm)	487	539	609
DIMENSION 'B' (mm)	565	597	667
DIMENSION 'C' (mm)	152	203	203
DIMENSION 'D' (mm)	203	229	254
DAVIT ARM	SIZE	2"	3"
	SCHEDULE	80	80
DAVIT SLEEVE	SIZE	2 1/2"	4"
	SCHEDULE	40	120
DAVIT COLLAR	SIZE	2 1/2"	4"
	SCHEDULE	40	120
NOMINAL FIT (mm)	2.39	3.15	3.15
COVER WEIGHT (lbs)	390	492	754
COVER WEIGHT (kg)	177	224	343
ANSI CLASS 600#			
SIZE (IN)	18"	20"	24"
COVER DIAMETER (mm)	743	813	940
DIMENSION 'A' (mm)	528	564	629
DIMENSION 'B' (mm)	581	616	679
DIMENSION 'C' (mm)	203	203	203
DIMENSION 'D' (mm)	229	254	279
DAVIT ARM	SIZE	3"	3"
	SCHEDULE	80	80
DAVIT SLEEVE	SIZE	4"	4"
	SCHEDULE	120	120
DAVIT COLLAR	SIZE	4"	4"
	SCHEDULE	120	120
NOMINAL FIT (mm)	3.15	3.15	3.15
COVER WEIGHT (lbs)	665	855	1175
COVER WEIGHT (kg)	302	387	534
ANSI CLASS 900#			
SIZE (IN)	18"	20"	24"
COVER DIAMETER (mm)	788	858	1042
DIMENSION 'A' (mm)	554	590	700
DIMENSION 'B' (mm)	603	638	730
DIMENSION 'C' (mm)	203	203	203
DIMENSION 'D' (mm)	254	279	330
DAVIT ARM	SIZE	3"	4"
	SCHEDULE	80	80
DAVIT SLEEVE	SIZE	4"	5"
	SCHEDULE	120	120
DAVIT COLLAR	SIZE	4"	5"
	SCHEDULE	120	120
NOMINAL FIT (mm)	3.15	3.15	1.60
COVER WEIGHT (lbs)	880	1107	2099
COVER WEIGHT (kg)	294	360	673

DESIGNED FOR CONSTRUCTION

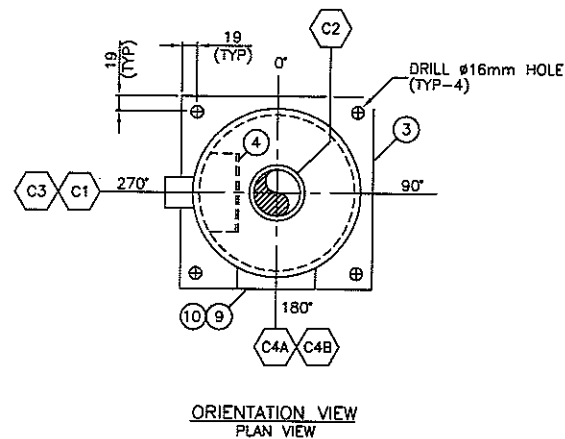
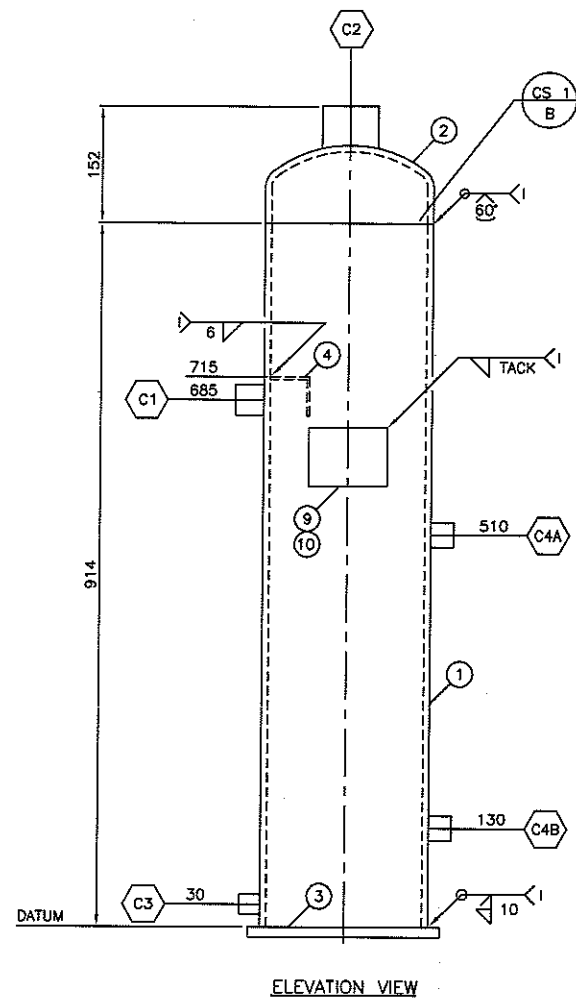
DIR
4/15/05

TIME: 10:45:21

PLOT: 05/07/19

REFERENCE DRAWINGS		REVISIONS					APPROVED			IFC INDUSTRIAL FABRICATION CORPORATION				ENERFLEX 1219 O.D. SEPARATOR HORIZONTAL MANWAY MISCELLANEOUS DETAILS			
NUMBER	TITLE	NO.	BY	DATE	ISSUE	CHK'D	APP'D	DISCIPLINE	INITIALS								
		1	DJR	05/11/15	ISSUED FOR CONSTRUCTION												
									MECHANICAL								
									CIVIL/STRUCTURAL								
									ELECTRICAL								
									DRAFTING/CHECKED								
		SCALE		DRAWN		DATE		PROJECT NO.		IFC JOB NO.		DRAWING NO.		REV.			
		N.T.S.		JSO		05/11/15		16001		16001		16001-07					

DRAWING NO.:



AS BUILT

BILL OF MATERIALS			
ITEM	QTY	DESCRIPTION	MATERIAL
①	1	PIPE: 8 5/8" O.D. x 914mm LONG SCH.40 SMLS (0.322" W.T.)	SA-106-B
②	1	WELD CAP: 8 5/8" O.D. SCH.40 (0.322" W.T.)	SA-234-WPB
③	1	PLATE: 250mm SQUARE x 1/2" THK.	SA-516-70
④	1	ANGLE: 2"x2"x1/4" x 100mm LONG	SA-36
⑤	2	FULL COUPLING: 3/4"-6000# NPT	SA-105
⑥	1	FULL COUPLING: 1"-6000# NPT	SA-105
⑦	1	FULL COUPLING: 2"-6000# NPT	SA-105
⑧	1	FULL COUPLING: 1/2"-6000# NPT	SA-105
9	1	NAME PLATE BRACKET	SA-36
10	1	NAME PLATE	SS
11			
12			
13			
14			
15			

- NOTES:
1. IMPACT TESTING NOT MANDATORY PER UG-20(f)
 2. MPI ITEM #3 PER UG-93(d)
 3. ORIGINALLY BUILT UNDER IFC JOB # 14784
 4. CRN OBTAINED UNDER IFC JOB # 14784

ITEM HEAT NUMBERS :

- ① 440018
- ② 04C30001
- ③ 18686-45657
- ⑤ 306A4
- ⑥ 997
- ⑦ 25F
- ⑧ DUUX

NOZZLE SCHEDULE										DESIGN DATA									
NOZZLE	SIZE	SCH	RATING	SERVICE	PROJECTION		RE-PAD	WELD	FILLET WELD SIZE				BOM	DESIGN CODE: ASME CODE SEC. VIII DIV 1 LATEST EDITION					
					OUTSIDE	INSIDE			A	B	C	D		DESIGN PRESSURE: 250 PSI @ 150°F (1724 kPa @ 66°C)					
C1	1"	NPT	6000#	INLET		SET FLUSH		II	10				6	MINIMUM DESIGN METAL TEMPERATURE: 250 PSI @ -20°F (1724 kPa @ -29°C)					
C2	2"	NPT	6000#	OUTLET		SET FLUSH		II	10				7	MAWP: 250 PSI @ -20/150°F (1724 kPa @ -29/66°C)					
C3	1/2"	NPT	6000#	DRAIN		SET FLUSH		II	10				8	HYDROTEST: 325 PSI (2241 kPa)					
C4AB	3/4"	NPT	6000#	LEVEL GAUGE		SET FLUSH		II	10				5	VESSEL VOLUME: 1.4 ft ³ (0.04 m ³)					
														VESSEL WEIGHT: 140 lbs (63 kg)					
														CORROSION ALLOWANCE: 1/16" (1.6mm)					
														HEAD THICKNESS: 0.282" (7.16mm)					
														SHELL THICKNESS: 0.322" (8.19mm)					
														SHELL JOINT EFFICIENCY: 1.0					
														NDT: SPOT PER UW-11(b)					
														PWHT: NONE					
														CRN: P2308.231 (00-0001-02A-01)					
														SURFACE PREP (EXT): SSPC-SP3, APPLY (1) COAT ZINC CHROMATE, (2) COATS WARM GREY ENAMEL					
														SURFACE PREP (INT): NONE					
														INSULATION: NONE					
														UNITS REQUIRED: 2					

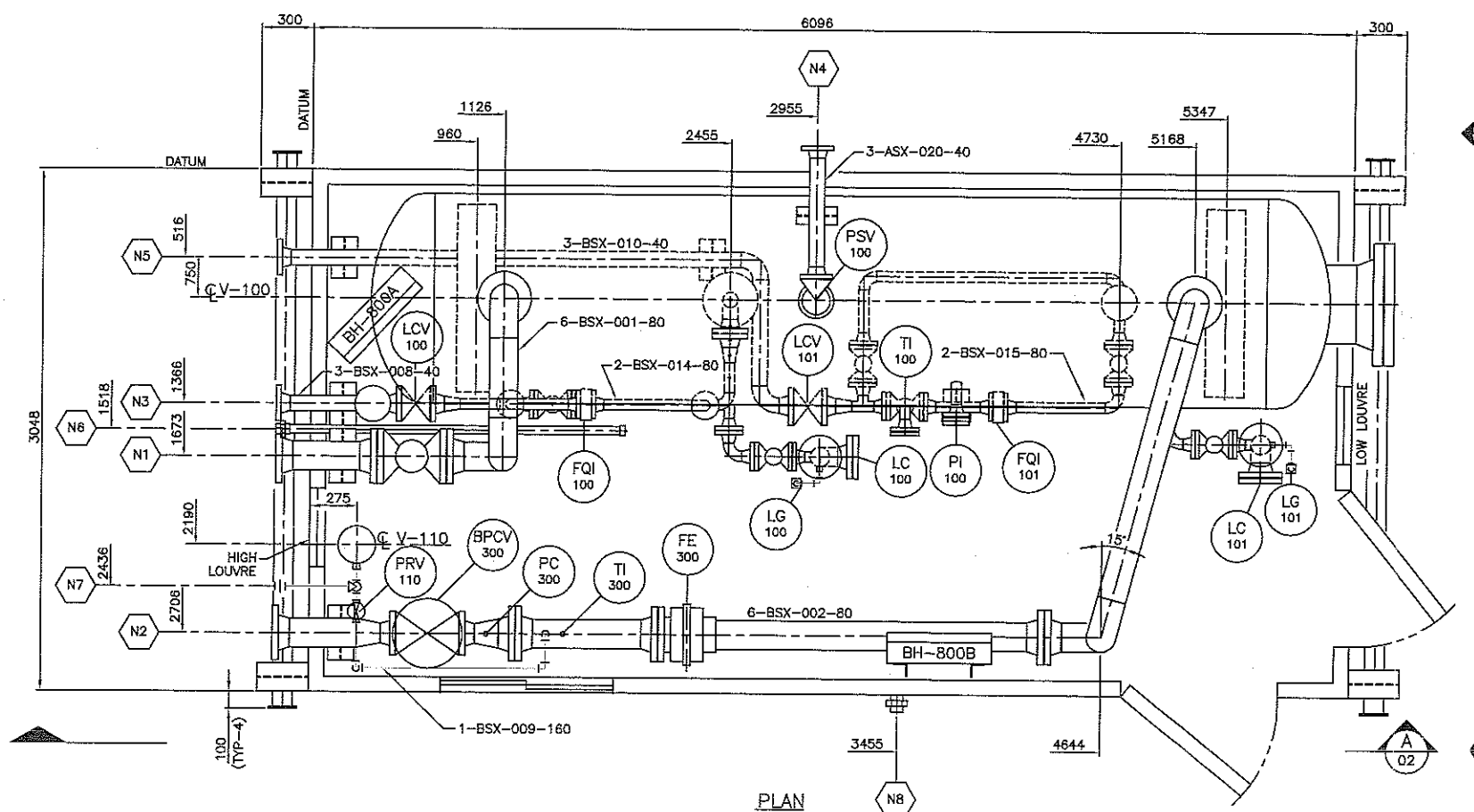
S/N 17013-01

REFERENCE DRAWINGS					REVISIONS					APPROVED					INDUSTRIAL FABRICATION CORPORATION				
NUMBER	TITLE				NO.	BY	DATE	ISSUE		CHK'D	APP'D	DISCIPLINE	INITIALS	DATE	ENERFLEX FUEL GAS SCRUBBER SIZE: 8 5/8" O.D. X 3'-0" LONG				
					0	DJR	10/20/05	ISSUED FOR CONSTRUCTION				MECHANICAL	EA	01/07/05					
												CIVIL/STRUCTURAL			PROJECT NO. 16091 IFC JOB NO. SEE NOTE 3 DRAWING NO. 17013-01 REV. 0				
												ELECTRICAL							
												DRAFTING/CHECKED	DRG	01/07/16	SCALE 1:10 DRAWN DJR DATE 10/20/05				

1. 3048mm WIDE x 6096mm LONG x 3353mm LOW EAVE, 12:1 ROOF SLOPE.
2. 22 GA. GALVANIZED EXTERIOR.
3. 24 GA. WHITE FLUTED ALUMINUM LINER.
4. R12 INSULATION (ROOF & WALL) , 6 MIL VAPOR BARRIER.
5. (2) 914mm WIDE x 2134mm MAN DOORS C/W PANIC HARDWARE, HYDRAULIC CLOSURE, CHECK CHAIN, RWG WINDOW AND CANOPY.
6. (2) 305mm x 305mm STAMPED ALUMINUM LOUVERS WITH SLIDING CLOSURES.
7. (1) 914mm x 914mm DOUBLE GLAZED SLIDING WINDOWS C/W HALF SCREENS.

1. ALL ELEVATIONS ARE REFERENCED TO TOP OF SKID. (CHECKER PLATE NOT INCLUDED)
2. APPROXIMATE SHIPPING DIMENSIONS: 3300mm WIDE x 6700mm LONG x 3990mm HIGH.
3. APPROXIMATE SHIPPING WEIGHT: 7EA
4. THREADED FUEL GAS AND INSTRUMENT GAS LINES TO BE AIR TESTED TO 690 kPa.
5. SHOP TO ELEVATE AND SUPPORT V-100 AS PER STRUCTURAL SKID DRAWING.
6. SHOP TO PROVIDE PIPE SUPPORTS WHERE REQUIRED.
7. ALL INSTRUMENTS REQUIRING VENTING SHALL BE PIPED TO A SEPARATE VENT HEADER.
8. DOORS AND WINDOWS TO BE SHOP LOCATED BASED ON GENERAL ARRANGEMENT.

NOZZLE SCHEDULE						
NOZZLE	SIZE	RATING	FACING	PROJECTION	SERVICE	ELEVATION
N1	168.3	300#	RFWN	200	SOUR PROCESS GAS INLET	468
N2	168.3	300#	RFWN	200	SOUR PROCESS GAS OUTLET	468
N3	88.9	300#	RFWN	200	LIQUID OUTLET	202
N4	88.9	150#	RFWN	150	PSV OUTLET	2642
N5	88.9	300#	RFWN	200	CONDENSATE OUTLET	202
N6	48.3	3000#	UNION	150	DRAIN	182
N7	33.4	3000#	UNION	150	VENT	1050
N8	60.3	3000#	UNION	100	FLOOR DRAIN	-138



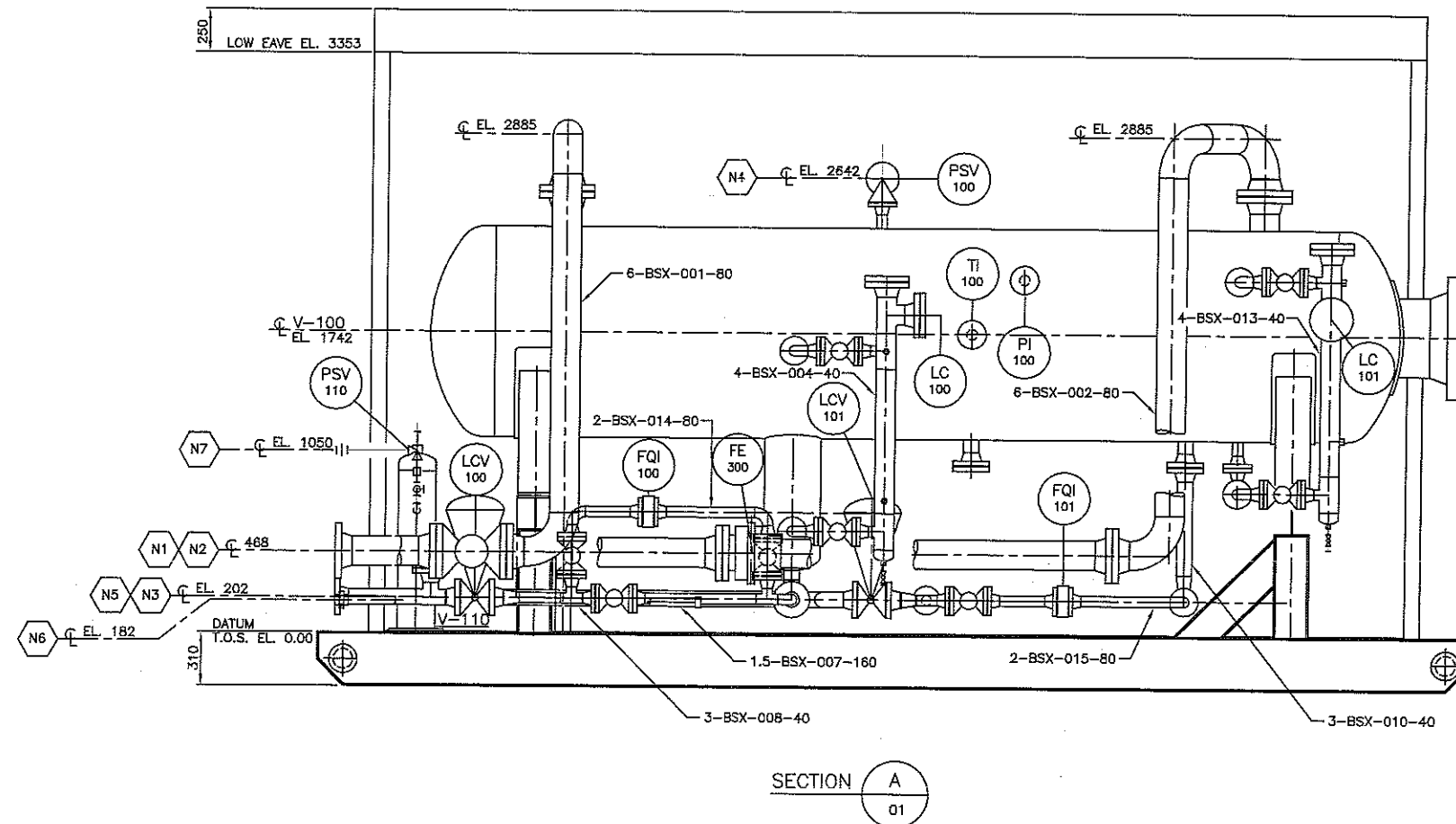
ISSUED FOR
CONSTRUCTION

DR
10/11/05

ENERFLEX UNIT # 8000353

TIME: 17:57:40 <

LOT: 05/08/12 TIME: 17:57:40



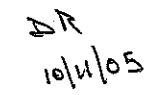
ISSUED FOR
CONSTRUCTION

DR
10/11/05

ENERFLEX UNIT # 8000353

PLOT: 05/09/12 TIME: 18:42:56

REFERENCE DRAWINGS		REVISIONS				APPROVED				INDUSTRIAL FABRICATION CORPORATION ENERFLEX 1219 O.D. SEPARATOR PACKAGE – MODEL SH48302 GENERAL ARRANGEMENT DRAWING SECTION A SHEET (2 OF 3)			
NUMBER	TITLE	NO.	BY	DATE	ISSUE	CHK'D	APP'D	DISCIPLINE	INITIALS				
05-0062-01A-01/02	1219 O.D. SEPARATOR VESSEL -- ELEVATION, ORIENTATION AND DETAILS	A	HW	05/09/27	ISSUED FOR APPROVAL			MECHANICAL			SCALE 1:40 DRAWN DPS DATE 05/09/12 PROJECT NO. 05-0068 IFC JOB NO. 12091 DRAWING NO. 05-0066-91A-02 REV. A		
								CIVIL/STRUCTURAL					
								ELECTRICAL					
								DRAFTING/CHECKED					



TIME: 18:41:17

PLOT: 05/08/12

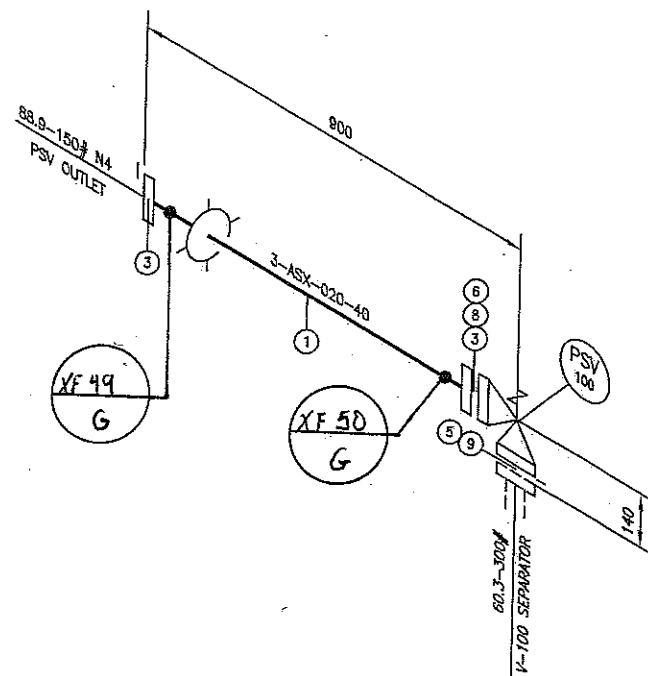
REFERENCE DRAWINGS		REVISIONS						APPROVED			INDUSTRIAL FABRICATION CORPORATION ENERFLEX 1219 O.D. SEPARATOR PACKAGE - MODEL SH48302 GENERAL ARRANGEMENT DRAWING SECTION B SHEET (3 OF 3) SCALE 1:40 DRAWN DPB DATE 05/08/12 PROJECT NO. 05-0068 IFC JOB NO. 16061 DRAWING NO. 05-0066-91A-03 REV. A			
NUMBER	TITLE	NO.	BY	DATE	ISSUE	CHK'D	APP'D	DISCIPLINE	INITIALS	DATE				
05-0062-01A-01/02	1219 O.D. SEPARATOR VESSEL - ELEVATION, ORIENTATION AND DETAILS	A	HW	05/08/27	ISSUED FOR APPROVAL									
								MECHANICAL						
								CIVIL/STRUCTURAL						
								ELECTRICAL						
								DRAFTING/CHECKED						

MISCELLANEOUS WELD DETAILS		
DETAIL I	O'LETS DETAIL II	FLANGE DETAIL III

BILL OF MATERIAL							
PIPE							
MK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F	
1	0.7m	88.9mm	SCH.40	PIPE SMLS	A106 GR.B	S	
2							
FLANGES							
MK	QTY	SIZE	RATING	SCHEDULE	DESCRIPTION	MATERIAL	S/F
3	2	88.9mm	150	SCH.40	FLANGE RF WN	A105 N	S
4							
GASKETS							
MK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	S/F	
5	1	60.3mm	300	GASKET RF 1/8" SPIRAL W/O ASBESTOS	316 SS	S	
6	1	88.9mm	150	GASKET RF 1/8" SPIRAL W/O ASBESTOS	316 SS	S	
7							
BOLTS							
MK	QTY	SIZE	DESCRIPTION	MATERIAL	S/F		
8	1 SET	5/8"x3 1/2"	STUD BOLTS C/W 2 NUTS-4/SET	A193 B7M/A194 2HM	S		
9	1 SET	5/8"x3 1/2"	STUD BOLTS C/W 2 NUTS-8/SET	A193 B7M/A194 2HM	S		
10							

ITEM HEAT NUMBERS:

- ① 17883
③ 133736



AS BUILT

NOTES:

- SHOP/FIELD CHECK ALL DIMENSIONS.
- ISOMETRIC SPOOL 001 ESTIMATED WEIGHT: 110 lbs (50 kg)
- ISOMETRIC DIMENSIONS ACCOUNT FOR A 3mm WELD GAP.

DESIGN DATA (ASX)

PIPING DESIGN: AS PER LATEST EDITION OF ASME B31.3
DESIGN PRESSURE: 285 PSI @ -20/100°F (1965 kPa @ -29/38°C)
HYDROTEST: 428 PSI (2948 kPa)
RADIOGRAPHY: 100%
STRESS RELIEVE: NONE
SURFACE PREPARATION: SSPC-SP3
PRIMER: ONE (1) COAT ZINC CHROMATE
FINISH: TWO (2) COATS WARM GREY ENAMEL
INSULATION: NONE
INTERNAL COATING: NONE

REFERENCE DRAWINGS				REVISIONS				APPROVED			
NUMBER	TITLE			NO.	BY	DATE	ISSUE	CHK'D	APP'D	DISCIPLINE	INITIALS
				0	HW	05/09/19	ISSUED FOR CONSTRUCTION			MECHANICAL	
										CIVIL/STRUCTURAL	
										ELECTRICAL	
										DRAFTING/CHECKED	



SCALE NTS	DRAWN HW	DATE 05/09/19	PROJECT NO. 05-0062	IFC JOB NO. 16091	DRAWING NO. 05-0062-92A-01	REV. 0
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ENERFLEX

1219 O.D. SEPARATOR PACKAGE -- MODEL SH48301

ISOMETRIC SPOOL -- 001

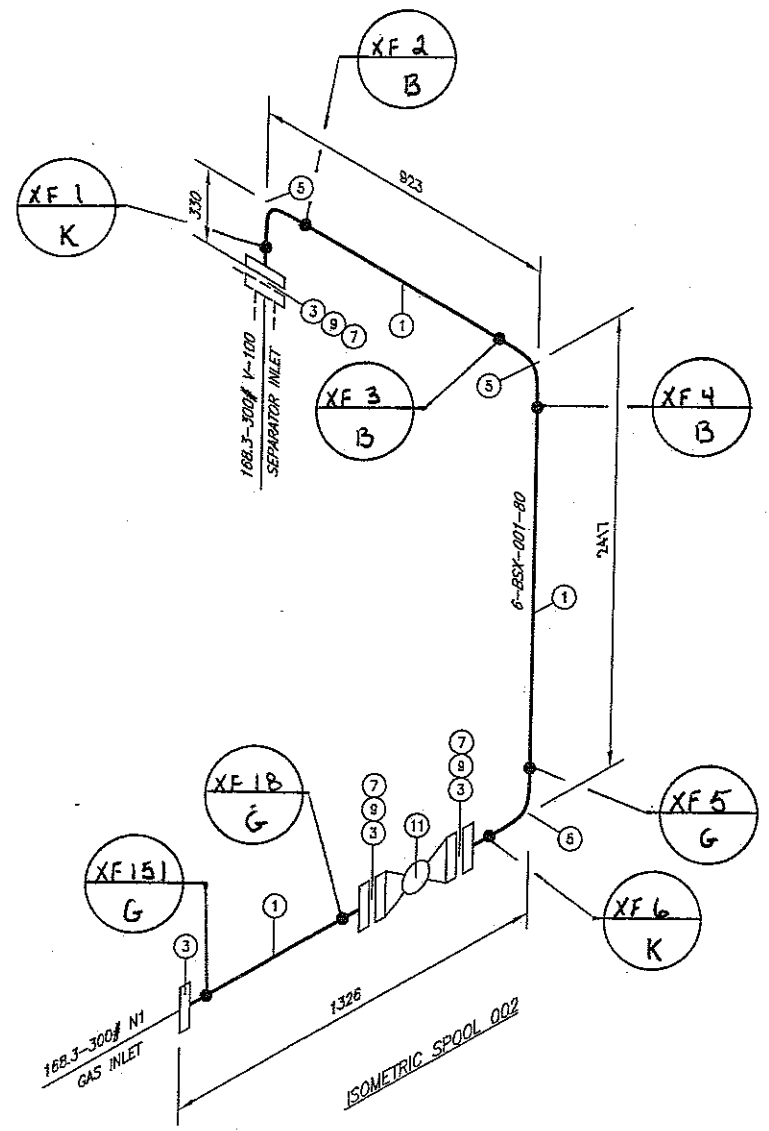
PLOT: 05/09/09 TIME: 13:55:45

DRAWING NO.: 05-0062-92A-01

MISCELLANEOUS WELD DETAILS		
	O'LETS	FLANGE
DETAIL I	DETAIL II	DETAIL III

BILL OF MATERIAL							
PIPE							
W#	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F	
1	2.9m	168.3mm	SCH.80	PIPE SMLS	A106 GR.B	S	
2							
FLANGES							
W#	QTY	SIZE	RATING	SCHEDULE	DESCRIPTION	MATERIAL	S/F
3	4	168.3mm	300	SCH.80	FLANGE RF WN	A105 N	S
4							
WELD FITTINGS							
W#	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F	
5	3	168.3mm	SCH.80	ELBOW 90 DEG LR BW	A234 GR.WPB	S	
6							
GASKETS							
W#	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	S/F	
7	3	168.3mm	300	GASKET RF 1/8" SPIRAL W/O ASBESTOS	315 SS	S	
8							
BOLTS							
W#	QTY	SIZE	DESCRIPTION	MATERIAL	S/F		
9	3 SETS	3/4"x4 3/4"	STUD BOLTS C/W 2 NUTS-12/SET	A193 B7M/A194 2HM	S		
10							
VALVES							
W#	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	VALVE TAG	S/F
11	1	168.3mm	300	BALL VALVE RED PORT RF	STD. TEMP. NACE	BRB10	S
12							

ITEM HEAT NUMBERS:
① 68578
③ 49859, 17832
⑤ 05A00059, 04P00108



AS BUILT

- NOTES:
- 1. SHOP/FIELD CHECK ALL DIMENSIONS.
 - 2. ISOMETRIC SPOOL 002 ESTIMATED WEIGHT: 770 lbs (350 kg)
 - 3. ISOMETRIC DIMENSIONS ACCOUNT FOR A 3mm WELD GAP.

DESIGN DATA (BSX)	
PIPING DESIGN: AS PER LATEST EDITION OF ASME B31.3	
DESIGN PRESSURE: 740 PSI • -20/100°F (5102 kPa • -29/38°C)	
HYDROTEST: 1110 PSI (7653 kPa)	
RADIOGRAPHY: 100%	
STRESS RELIEVE: NONE	
SURFACE PREPARATION: SSPC-SP3	
PRIMER: ONE (1) COAT ZINC CHROMATE	
FINISH: TWO (2) COATS WARM GREY ENAMEL	
INSULATION: NONE	
INTERNAL COATING: NONE	

REFERENCE DRAWINGS				REVISIONS				APPROVED			
NUMBER	TITLE			NO.	BY	DATE	ISSUE	CHK'D	APP'D	DISCIPLINE	INITIALS
				0	HW	05/09/18	ISSUED FOR CONSTRUCTION			MECHANICAL	
										CIVIL/STRUCTURAL	
										ELECTRICAL	
										DRAFTING/CHECKED	



ENERFLEX			
1219 O.D. SEPARATOR PACKAGE - MODEL SH48301			
ISOMETRIC SPOOL - 002			
SCALE NTS	DRAWN HW	DATE 05/09/18	PROJECT NO. 05-0062
IFC JOB NO. 16091		DRAWING NO. 05-0062-92A-02	REV. 0

PLOT: 05/08/08 TIME: 13:55:45

NO. 05-0062-92A-02 REV. 05-0062-92A-02

MISCELLANEOUS WELD DETAILS		
DETAIL I	O'LETS DETAIL II	FLANGE DETAIL III

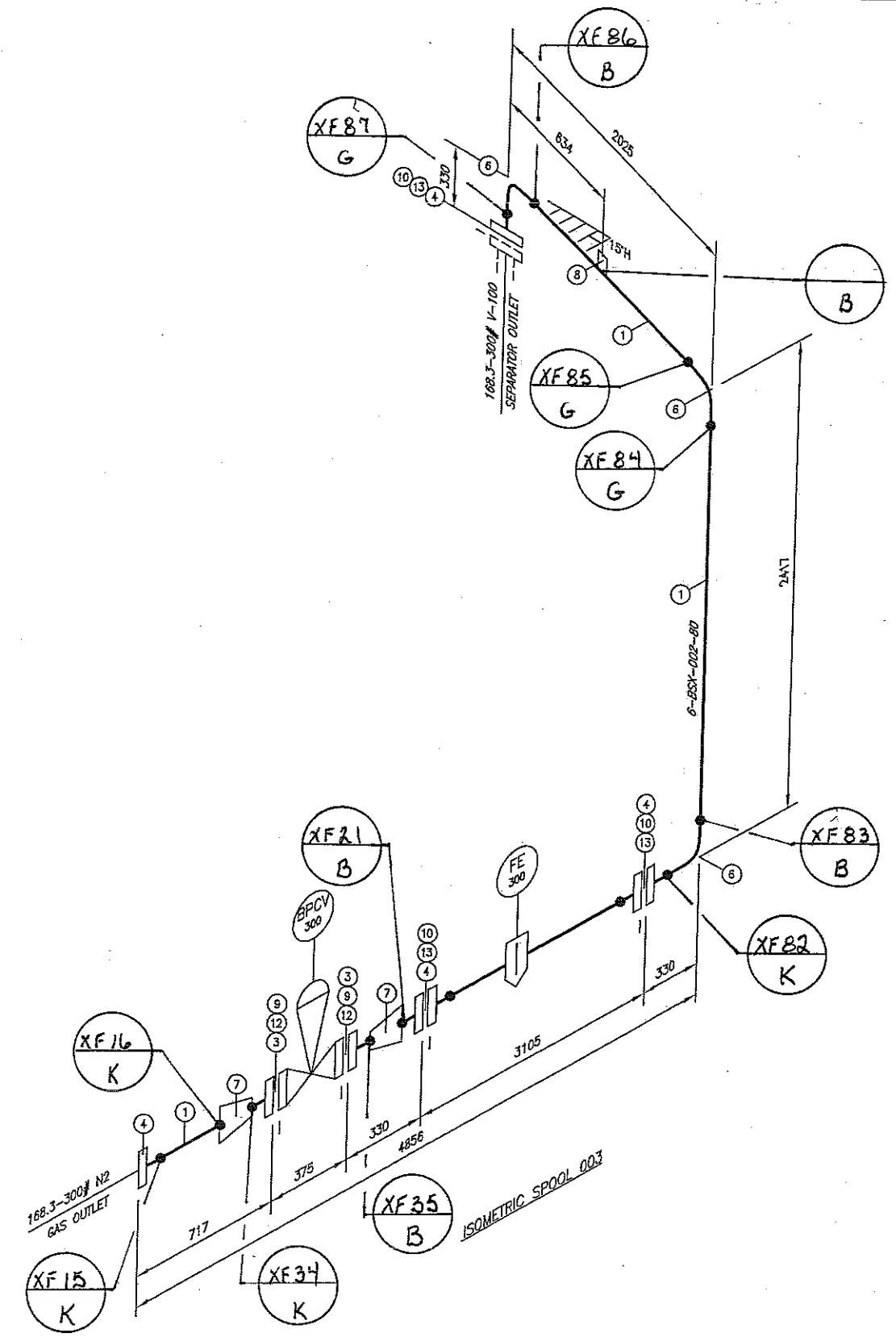
BILL OF MATERIAL						
PIPE						
NK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F
1	4.0m	168.3mm	SCH.80	PIPE SMLS	A106 GR.B	S
2						
FLANGES						
NK	QTY	SIZE	RATING	SCHEDULE	DESCRIPTION	MATERIAL
3	2	114.3mm	300	SCH.40	FLANGE RF WN	A105 N
4	4	168.3mm	300	SCH.80	FLANGE RF WN	A105 N
5						
WELD FITTINGS						
NK	QTY	SIZE	RATING	SCHEDULE	DESCRIPTION	MATERIAL
6	3	168.3mm	300	SCH.80	ELBOW 90 DEG LR BW	A234 GR.WPB
7	2	168.3mm X 114.3mm	300	SCH.80/40	CONC. REDUCER BW	A234 GR.WPB
SCREWED & SOCKET WELD FITTINGS						
NK	QTY	SIZE	RATING	SCHEDULE	DESCRIPTION	MATERIAL
8	1	21.3mm ON 168.3mm	3000		THREDOLET	A105 N
GASKETS						
NK	QTY	SIZE	RATING	SCHEDULE	DESCRIPTION	MATERIAL
9	2	114.3mm	300		GASKET RF 1/8" SPIRAL W/O ASBESTOS	316 SS
10	3	168.3mm	300		GASKET RF 1/8" SPIRAL W/O ASBESTOS	316 SS
11						
BOLTS						
NK	QTY	SIZE	RATING	SCHEDULE	DESCRIPTION	MATERIAL
12	2 SETS	3/4"x4 1/2"			STUD BOLTS C/W 2 NUTS-8/SET	A193 B7M/A194 2HM
13	3 SETS	3/4"x4 3/4"			STUD BOLTS C/W 2 NUTS-12/SET	A193 B7M/A194 2HM
14						

ITEM HEAT NUMBERS:

- ① 08578
- ③ 37455
- ④ 49859
- ⑥ 05A0005
- ⑦ 05F20021
- ⑧ FURS

- NOTES:
- SHOP/FIELD CHECK ALL DIMENSIONS.
 - ISOMETRIC SPOOL 003 ESTIMATED WEIGHT: 950 lbs (428 kg)
 - ISOMETRIC DIMENSIONS ACCOUNT FOR A 3mm WELD GAP.

DESIGN DATA (BSX)	
PIPING DESIGN: AS PER LATEST EDITION OF ASME B31.3	
DESIGN PRESSURE: 740 PSI @ -20/100°F (5102 kPa @ -29/38°C)	
HYDROTEST: 1110 PSI (7653 kPa)	
RADIOGRAPHY: 100%	
STRESS RELIEVE: NONE	
SURFACE PREPARATION: SSPC-SP3	
PRIMER: ONE (1) COAT ZINC CHROMATE	
FINISH: TWO (2) COATS WARM GREY ENAMEL	
INSULATION: NONE	
INTERNAL COATING: NONE	



AS BUILT

REFERENCE DRAWINGS				REVISIONS				APPROVED			
NUMBER	TITLE			NO.	BY	DATE	ISSUE	CHK'D	APP'D	DISCIPLINE	INITIALS
				0	HW	05/05/19	ISSUED FOR CONSTRUCTION			MECHANICAL	
										CIVIL/STRUCTURAL	
										ELECTRICAL	
										DRAFTING/CHECKED	

**INDUSTRIAL
FABRICATION
CORPORATION**

ENERFLEX

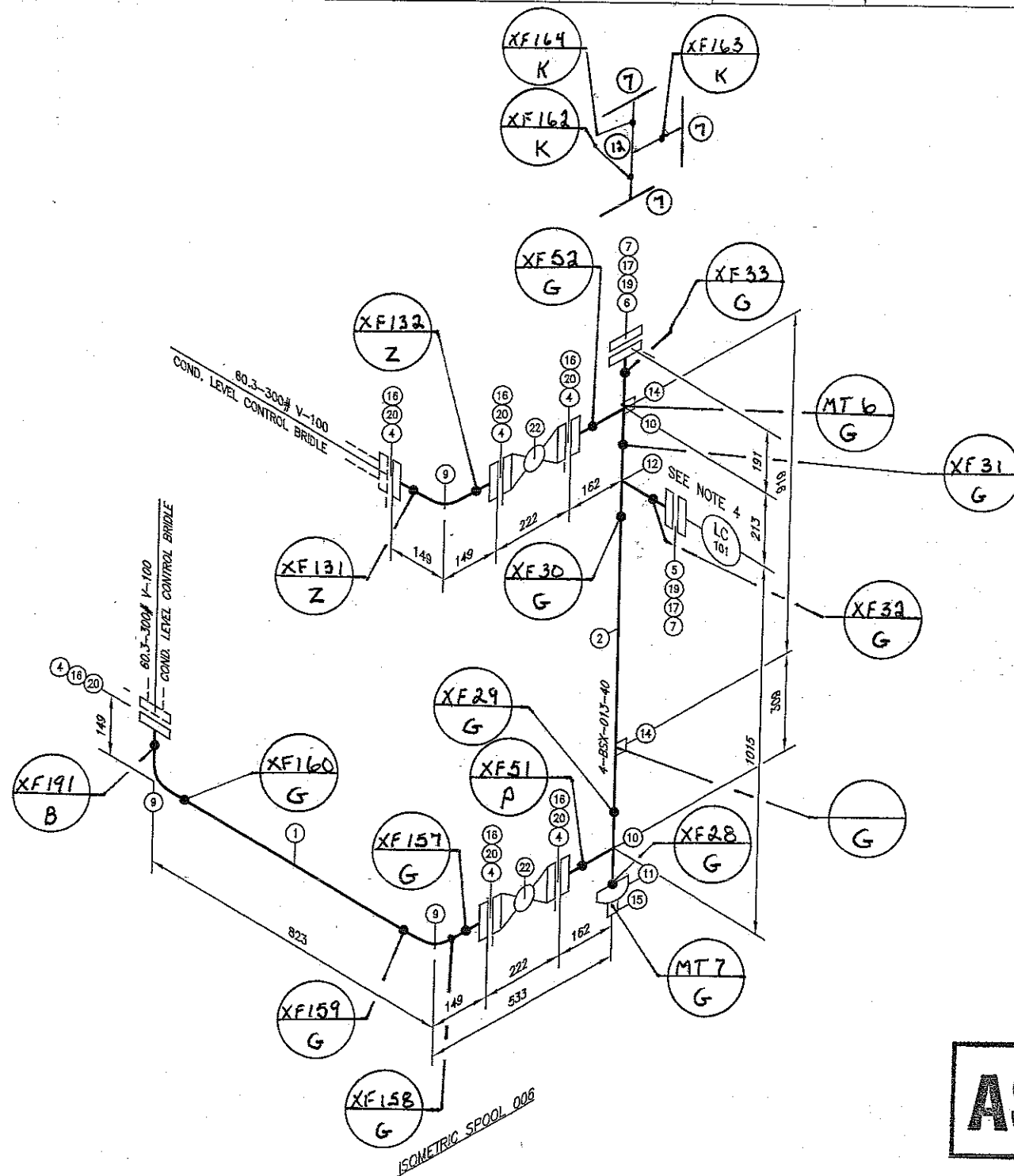
1219 O.D. SEPARATOR PACKAGE -- MODEL SH48301

ISOMETRIC SPOOL -- 003

SCALE NTS	DRAWN HW	DATE 05/05/19	PROJECT NO. 05-0062	IFC JOB NO. 16091	DRAWING NO. 05-0062-92A-03	REV. 0
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PLOT: 05/05/09 TIME: 13:55:45

DRAWING NO: 05-0062-92A-03



AS BUILT

MISCELLANEOUS WELD DETAILS		
DETAIL I	DETAIL II	DETAIL III

BILL OF MATERIAL						
PIPE						
MK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F
1	0.8m	60.3mm	SCH.80	PIPE SMLS	A106 GR.B	S
2	1m	114.3mm	SCH.40	PIPE SMLS	A106 GR.B	S
3						
FLANGES						
MK	QTY	SIZE	RATING	SCHEDULE	DESCRIPTION	MATERIAL
4	6	60.3mm	300	SCH.80	FLANGE RF WN	A105 N
5	1	114.3mm	300		HUB FLANGE RF NPT 60.3 D&T	A105 N
6	1	114.3mm	300		BLIND FLANGE RF	A105 N
7	5	114.3mm	300	SCH.40	FLANGE RF WN	A105 N
8						
WELD FITTINGS						
MK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F
9	3	60.3mm	SCH.80	ELBOW 90 DEG LR BW	A234 GR.WPB	S
10	2	114.3mm X 60.3mm	SCH.40/80	REDUCING TEE BW	A234 GR.WPB	S
11	1	114.3mm	SCH.40	WELD CAP BW	A234 GR.WPB	S
12	2	114.3mm X 114.3mm	SCH.40	STRAIGHT TEE BW	A234 GR.WPB	S
13						
SCREWED & SOCKET WELD FITTINGS						
MK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	S/F
14	2	26.7mm ON 114.3mm	3000	THREDOLET	A105 N	S
15	1	21.3mm ON 114.3mm	3000	THREDOLET	A105 N	S
GASKETS						
MK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	S/F
16	8	60.3mm	300	GASKET RF 1/8" SPIRAL W/O ASBESTOS	316 SS	S
17	2	114.3mm	300	GASKET RF 1/8" SPIRAL W/O ASBESTOS	316 SS	S
18						
BOLTS						
MK	QTY	SIZE	DESCRIPTION		MATERIAL	S/F
19	2 SETS	3/4"x4 1/2"	STUD BOLTS C/W 2 NUTS-8/SET		A193 B7M/A194 2HM	S
20	6 SETS	5/8"x3 1/2"	STUD BOLTS C/W 2 NUTS-8/SET		A193 B7M/A194 2HM	S
21						
VALVES						
MK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	VALVE TAG S/F
22	2	60.3mm	300	BALL VALVE RED PORT RF	STD. TEMP. NACE	BRB10
23						

ITEM HEAT NUMBERS:

- ① 735548
- ② 15126
- ④ 231A5
- ⑦ 35763, 114A4, 37455
- ⑨ GV33
- ⑩ 05B10163
- ⑪ 05B20005
- ⑬ 05B10141
- ⑭ 55954
- ⑮ FURS

- NOTES:
- 1. SHOP/FIELD CHECK ALL DIMENSIONS.
 - 2. ISOMETRIC SPOOL 006 ESTIMATED WEIGHT: 284 lbs (128 kg)
 - 3. ISOMETRIC DIMENSIONS ACCOUNT FOR A 3mm WELD GAP.
 - 4. SHOP TO CONFIRM CLEARANCE FOR LC-101.

DESIGN DATA (BSX)	
PIPING DESIGN: AS PER LATEST EDITION OF ASME B31.3	
DESIGN PRESSURE: 740 PSI @ -20/100°F (5102 kPa @ -29/38°C)	
HYDROTEST: 1110 PSI (7653 kPa)	
RADIOGRAPHY: 100%	
STRESS RELIEVE: NONE	
SURFACE PREPARATION: SSPC-SP3	
PRIMER: ONE (1) COAT ZINC CHROMATE	
FINISH: TWO (2) COATS WARM GREY ENAMEL	
INSULATION: NONE	
INTERNAL COATING: NONE	

REFERENCE DRAWINGS				REVISIONS				APPROVED			
NUMBER	TITLE			NO.	BY	DATE	ISSUE	CHK'D	APP'D	DISCIPLINE	INITIALS
				0	HW	05/09/19	ISSUED FOR CONSTRUCTION			MECHANICAL	
										CIVIL/STRUCTURAL	
										ELECTRICAL	
										DRAFTING/CHECKED	

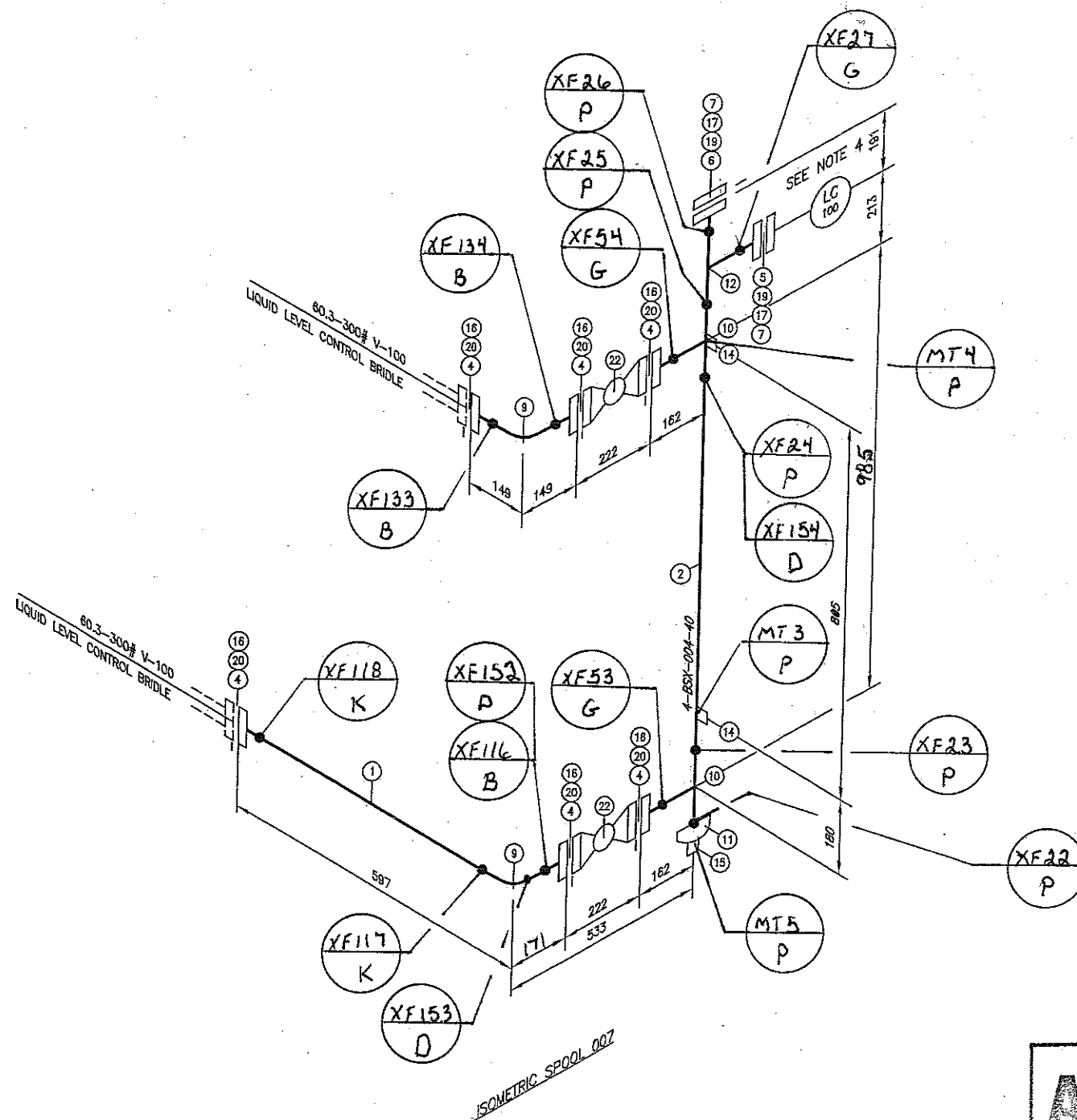


SCALE	DRAWN	DATE	PROJECT NO.	IFC JOB NO.	DRAWING NO.	REV.
NTS	HW	05/09/19	05-0062	16091	05-0062-92A-06	0

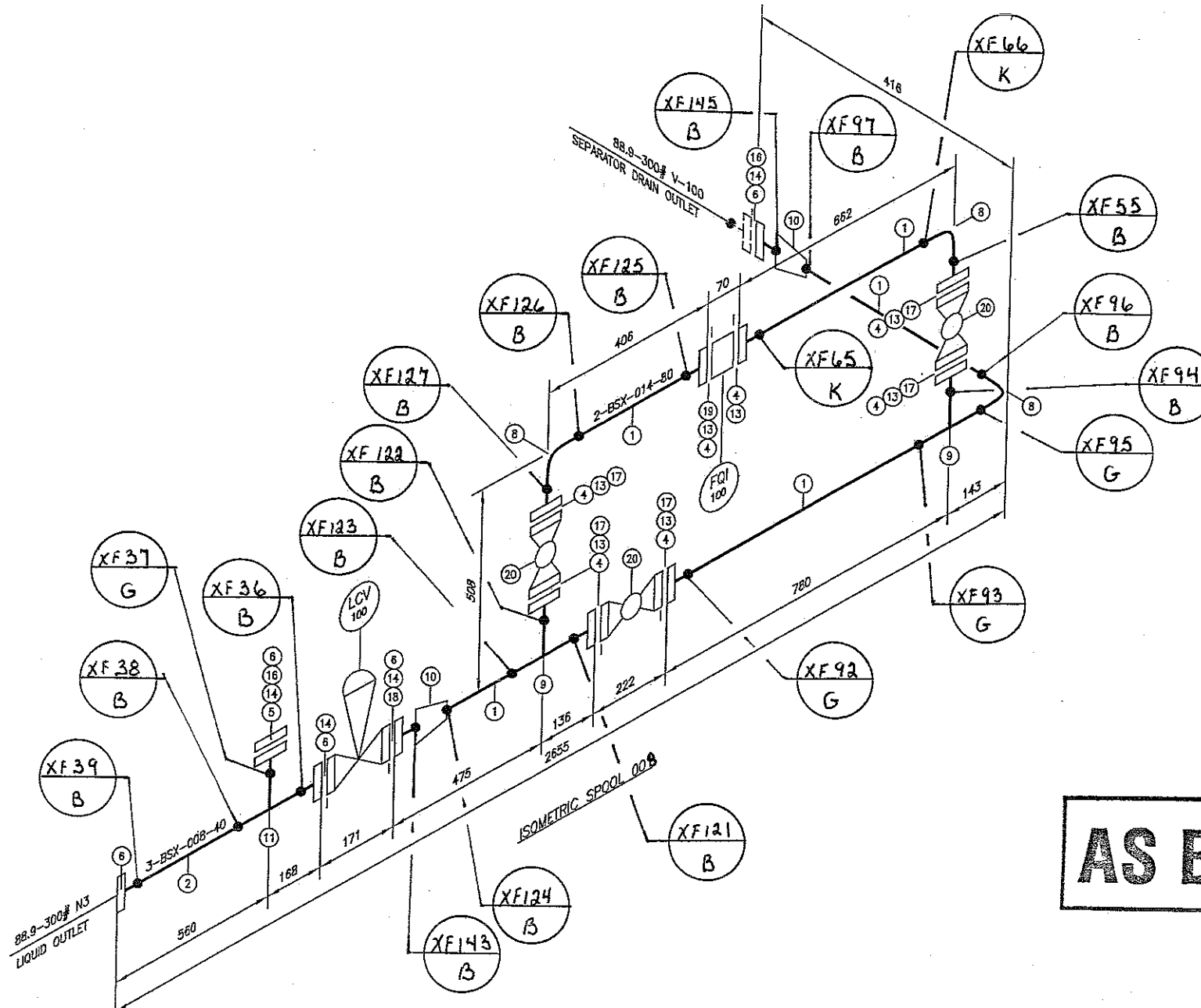
ENERFLEX
1219 O.D. SEPARATOR PACKAGE - MODEL SH48301
ISOMETRIC SPOOL - 006

PLOT: 05/09/19 TIME: 13:55:45

DRAWING NO.: 05-0062-92A-06 REV: 0



MISCELLANEOUS WELD DETAILS		
DETAIL I	O'LETS DETAIL II	FLANGE DETAIL III



AS BUILT

BILL OF MATERIAL							
PIPE							
NK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F	
1	2m	60.3mm	SCH.80	PIPE SMLS	A106 GR.B	S	
2	1m	88.9mm	SCH.40	PIPE SMLS	A106 GR.B	S	
3							
FLANGES							
NK	QTY	SIZE	RATING	SCHEDULE	DESCRIPTION	MATERIAL	S/F
4	8	60.3mm	300	SCH.80	FLANGE RF WN	A105 N	S
5	1	88.9mm	300		BLIND FLANGE RF	A105 N	S
6	5	88.9mm	300	SCH.40	FLANGE RF WN	A105 N	S
7							
WELD FITTINGS							
NK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F	
8	3	60.3mm	SCH.80	ELBOW 90 DEG LR BW	A234 GR.WPB	S	
9	2	60.3mm X 60.3mm	SCH.80	STRAIGHT TEE BW	A234 GR.WPB	S	
10	2	88.9mm X 60.3mm	SCH.40/80	CONC. REDUCER BW	A234 GR.WPB	S	
11	1	88.9mm X 88.9mm	SCH.40	STRAIGHT TEE BW	A234 GR.WPB	S	
12							
GASKETS							
NK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	S/F	
13	8	60.3mm	300	GASKET RF 1/8" SPIRAL W/O ASBESTOS	316 SS	S	
14	4	88.9mm	300	GASKET RF 1/8" SPIRAL W/O ASBESTOS	316 SS	S	
15							
BOLTS							
NK	QTY	SIZE	DESCRIPTION	MATERIAL	S/F		
16	2 SETS	3/4"x4 1/4"	STUD BOLTS C/W 2 NUTS-8/SET	A193 B7M/A194 2HW	S		
17	7 SETS	5/8"x3 1/2"	STUD BOLTS C/W 2 NUTS-8/SET	A193 B7M/A194 2HW	S		
18	1 SET	3/4"x1 1/4"	STUD BOLTS C/W 2 NUTS-8/SET	A193 B7M/A194 2HW	S		
19	1 SET	5/8"x6 1/4"	STUD BOLTS C/W 2 NUTS-8/SET	A193 B7M/A194 2HW	S		
VALVES							
NK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	VALVE TAG	S/F
20	3	60.3mm	300	BALL VALVE FULL PORT RF	STD. TEMP. NACE	DFB10	S
21							

ITEM HEAT NUMBERS:

- ① 735548
- ② 17883
- ④ 231A5
- ⑥ 75892
- ⑧ G-V33
- ⑨ 05810118
- ⑩ 04920039
- ⑪ 03610102

NOTES:

- 1. SHOP/FIELD CHECK ALL DIMENSIONS.
- 2. ISOMETRIC SPOOL 001 ESTIMATED WEIGHT: 450 lbs (205 kg)
- 3. ISOMETRIC DIMENSIONS ACCOUNT FOR A 3mm WELD GAP.

DESIGN DATA (BSX)	
PIPING DESIGN: AS PER LATEST EDITION OF ASME B31.3	
DESIGN PRESSURE: 740 PSI @ -20/100°F (5102 kPa @ -29/38°C)	
HYDROTEST: 1110 PSI (7653 kPa)	
RADIOGRAPHY: 100%	
STRESS RELIEVE: NONE	
SURFACE PREPARATION: SSPC-SP3	
PRIMER: ONE (1) COAT ZINC CHROMATE	
FINISH: TWO (2) COATS WARM GREY ENAMEL	
INSULATION: NONE	
INTERNAL COATING: NONE	

ENERFLEX UNIT # 8000353

REFERENCE DRAWINGS				REVISIONS				APPROVED			
NUMBER	TITLE	NO.	BY	DATE	ISSUE	CHK'D	APP'D	DISCIPLINE	INITIALS	DATE	
		0	DRG	05/10/05	ISSUED FOR CONSTRUCTION			MECHANICAL			
								CIVIL/STRUCTURAL			
								ELECTRICAL			
								DRAFTING/CHECKED			



ENERFLEX
1219 O.D. SEPARATOR PACKAGE - MODEL SH48302
ISOMETRIC SPOOL - 008

SCALE N7S	DRAWN HW	DATE 05/09/15	PROJECT NO. 05-0066	IFC JOB NO. 16091	DRAWING NO. 05-0066-92A-01
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PLOT: 05/08/09 TIME: 13:55:45



BILL OF MATERIAL							
PIPE							
MK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F	
1	3m	60.3mm	SCH.80	PIPE SMLS	A106 GR.B	S	
2	4m	88.9mm	SCH.40	PIPE SMLS	A106 GR.B	S	
3							
FLANGES							
MK	QTY	SIZE	RATING	SCHEDULE	DESCRIPTION	MATERIAL	S/F
4	8	60.3mm	300	SCH.80	FLANGE RF WN	A105 N	S
5	4	88.9mm	300	SCH.40	FLANGE RF WN	A105 N	S
6							
WELD FITTINGS							
MK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F	
7	3	60.3mm	SCH.80	ELBOW 90 DEG LR BW	A234 GR.WPB	S	
8	2	60.3mm X 60.3mm	SCH.80	STRAIGHT TEE BW	A234 GR.WPB	S	
9	2	88.9mm	SCH.40	ELBOW 90 DEG LR BW	A234 GR.WPB	S	
10	2	88.9mm X 60.3mm	SCH.40/80	CONC. REDUCER BW	A234 GR.WPB	S	
11							
GASKETS							
MK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	S/F	
12	8	60.3mm	300	GASKET RF 1/8" SPIRAL W/O ASBESTOS	316 SS	S	
13	3	88.9mm	300	GASKET RF 1/8" SPIRAL W/O ASBESTOS	316 SS	S	
14							
BOLTS							
MK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F	
15	1 SET	3/4"x4 1/4"		STUD BOLTS C/W 2 NUTS-B/SET	A193 B7M/A194 2HM	S	
16	6 SETS	5/8"x3 1/2"		STUD BOLTS C/W 2 NUTS-B/SET	A193 B7M/A194 2HM	S	
17	1 SET	5/8"x6 1/4"		STUD BOLTS C/W 2 NUTS-B/SET	A193 B7M/A194 2HM	S	
18	1 SET	3/4"x11 1/4"		STUD BOLTS C/W 2 NUTS-B/SET	A193 B7M/A194 2HM	S	
19							
VALVES							
MK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	VALVE TAG	S/F
20	3	60.3mm	300	BALL VALVE FULL PORT RF	STD. TEMP. NACE	BFB10	S
21							

- ① 735548
- ② 17883
- ④ 231A5
- ⑤ 75892
- ⑦ GV33
- ⑧ 05B10118
- ⑨ 03H00061, 03K00006
- ⑩ 04B20110

1. SHOP/FIELD CHECK ALL DIMENSIONS.
2. ISOMETRIC SPOOL 002 ESTIMATED WEIGHT: 525 lbs (240 kg)
3. ISOMETRIC DIMENSIONS ACCOUNT FOR A 3mm WELD GAP.

PIPING DESIGN: AS PER LATEST EDITION OF ASME B31.3
DESIGN PRESSURE: 740 PSI @ -20/100°F (5102 kPa @ -29/38°C)
HYDROTEST: 1110 PSI (7653 kPa)
RADIOGRAPHY: 100%
STRESS RELIEVE: NONE
SURFACE PREPARATION: SSPC-SP3
PRIMER: ONE (1) COAT ZINC CHROMATE
FINISH: TWO (2) COATS WARM GREY ENAMEL
INSULATION: NONE
INTERNAL COATING: NONE



**INDUSTRIAL
FABRICATION
CORPORATION**

ENERFLEX UNIT # 8000353

PLOT: 05/08/09 TIME: 13:55:45

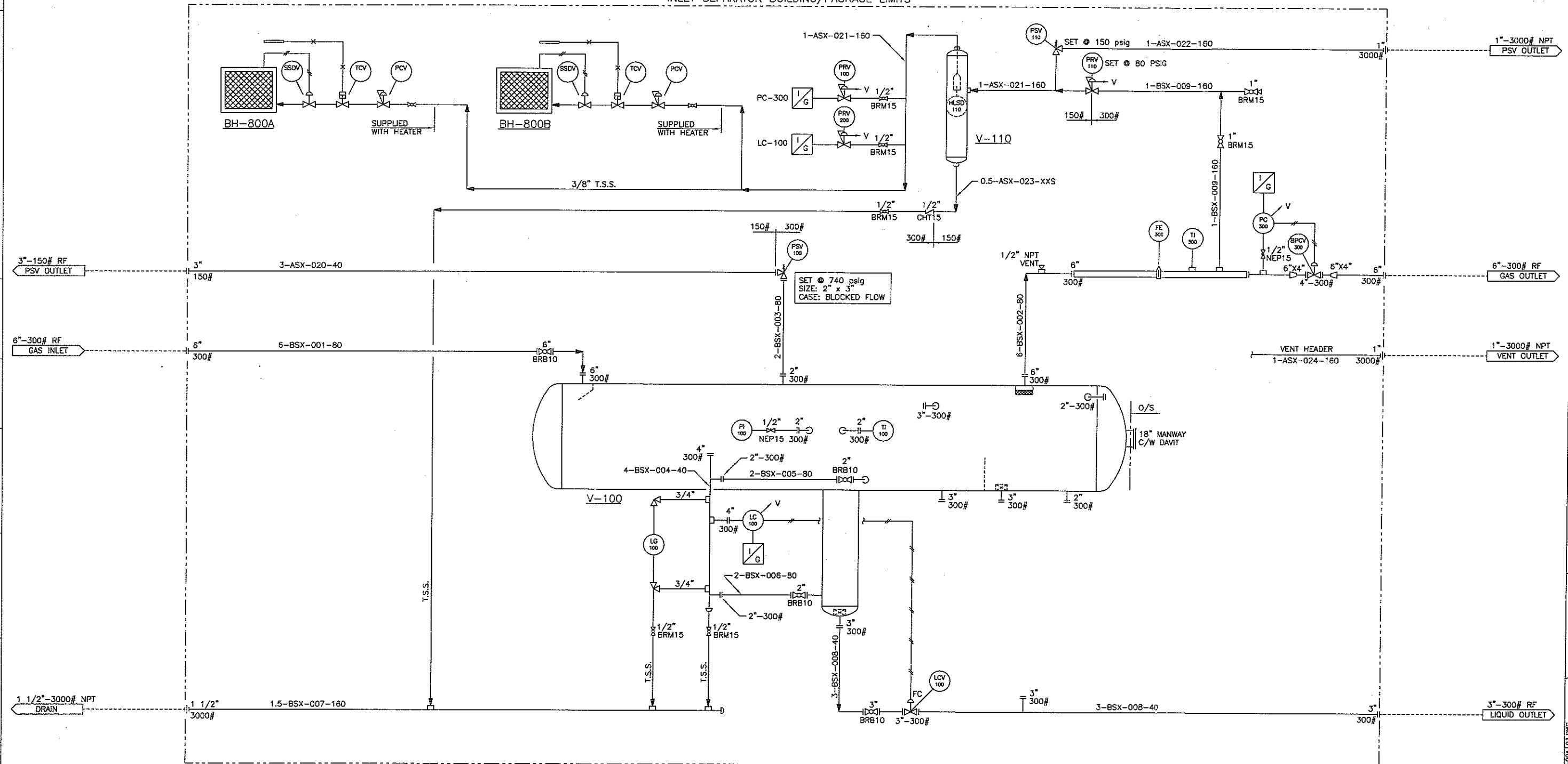
REVITING NO. 0, 0100 JING \PFC\DRAWINGS\05-0056\REV0\05-0056-02A-02.DWG

V-100
SOUR INLET SEPARATOR
SIZE: 48" OD X 192" S/S
D.P.: 740 psig -20°F/100°F
C.A.: 1/8", PWHT, 100% RT
CRN: AB, B.C., SASK.

V-110
SCRUBBER
SIZE: 8 5/8" OD X 30" S/S
D.P.: 250 psig -20/100°F
C.A.: 1/8", PWHT, 100% RT
CRN: AB, B.C., SASK.

BH-800A/B
CATADYNE BUILDING HEATER
DUTY: 24000 BTU HEATER C/W 100% SSOV,
GRILL, FISHER 917 TEMPERATURE CONTROL,
NATURAL GAS
MODEL: CATADYNE 8X24X24, 12 VDC START

INLET SEPARATOR BUILDING/PACKAGE LIMITS



- NOTES:
1. ALL PNEUMATIC INSTRUMENTS VENT TO HEADER.
 2. ALL TUBING AND TUBE FITTINGS TO BE 316SS.

REFERENCE DRAWINGS		REVISIONS					APPROVED			INDUSTRIAL FABRICATION CORPORATION ENERFLEX 48" SEPARATOR PACKAGE - MODEL SH48201 48" OD X 192" S/S X 740 PSIG HORIZONTAL SEPARATOR PACKAGE PIPING AND INSTRUMENTATION DIAGRAM				
NUMBER	TITLE	NO.	BY	DATE	ISSUE	CHK'D	APP'D	DISCIPLINE	INITIALS					DATE
		A	JPC	05/07/18	ISSUED FOR APPROVAL			MECHANICAL						
		B	JPC	05/07/18	ISSUED FOR APPROVAL									
		O	DRG	05/06/29	ISSUED FOR CONSTRUCTION			CML/STRUCTURAL						
								ELECTRICAL						
								DRAFTING/CHECKED						
								SCALE	DRAWN	DATE	PROJECT NO.	IFC JOB NO.	DRAWING NO.	REV.
								N.T.S.	DPB	05/07/06	05-0059	16091	05-0059-90A-03	0

DRAWING: NO. 05-0059-90A-03-03 REV. 05-0059-90A-03-03

EQUIPMENT/INSTRUMENTATION NUMBERING SYSTEM			
V 100 1			
		INSTRUMENT NUMBER	
		1-9	
		EQUIPMENT NUMBER	
		100-999	
EQUIPMENT CODES			
A	AIR ROTARY MOTOR	F	FILTER
AC	AIR CHARGER	FDR	FEEDER
AER	AERATOR	FE	METER RUN
AG	AUGER	FL	FLARE
AR	AERIAL COOLER	FLU	FURNACE
BC	BAROMETRIC CONDENSER	GEN	GENERATOR (ELECTRIC)
BE	BUCKET ELEVATOR	GT	GAS TURBINE
BF	BUILDING EXHAUST FAN	H	HEATER
BH	BUILDING HEATER	HST	HOIST
BL	BLOWER	HY	HYDRAULIC MOTOR
BLR	BOILER	INC	INCINERATOR
BNR	BURNER	J	EJECTOR OR EDUCTOR
C	CONTACTOR	K	COMPRESSOR
CF	CENTRIFUGE	LO	LOADER
CH	CHUTE	M	ELECTRIC MOTOR
CO	CONVEYOR	ME	MECHANICAL AGITATOR
DC	DESAND CYCLONE	MIX	MIXER
DH	DEAERATOR	MU	MUFFLER
DMP	DAMPENER	P	PUMP
DRI	DRIER	PNL	PANEL
E	EXCHANGER	R	REACTOR
EF	EXHAUST FAN	RO	REVERSE OSMOSIS UNIT
ENG	ENGINE	S	STEAM RECIPROCATING DRIVER
EV	EVAPORATOR	SCR	SCREEN SHAKER
EX	EXPANDER	SH	STEAM TURBINE DRIVER
		STK	STACK
		STR	STRAINER
		STT	STEAM TRAP
		SW	WATER SOFTENER
		T	TOWER
		TK	TANK
		UH	UNIT HEATER
		V	VESSEL
		VB	VIBRATOR
		WS	WEIGHT SCALE
		X	PIG RECEIVER/SENDER

60.3 BF A 0 0 VALVE CODING SYSTEM	
TYPE OF END CONNECTORS	
FOR N.P.S. 60.3 (2") AND LARGER:	
0	RAISED FACE FLANGES (RF)
1	RING JOINT FLANGES (RJ)
2	BUTT WELDING (BW)
FOR N.P.S. 48.3 (1 1/2") AND SMALLER:	
3	SOCKET WELDING (FEMALE)
4	FEMALE SOCKET WELDING x FEMALE THREADED
5	THREADED (FEMALE)
6	MALE SOCKET WELDING x FEMALE THREADED
7	MALE THREADED x FEMALE THREADED
TRIM MATERIALS AND/OR SERVICE	
0	STANDARD TRIM
1	SOUR TRIM
2	CORROSIVE TRIM
3	LOW TEMPERATURE TRIM
4	LOW TEMPERATURE SOUR TRIM
5	LOW TEMPERATURE CORROSIVE TRIM
6	STANDARD TRIM
7	STEAM & SOUR TRIM
8	TEMPERATURE ≥ -101°C
9	TEMPERATURE ≥ -184°C
9	CORROSIVE TRIM
PRESSURE RATING	
A	150 ANSI
B	300 ANSI
C	600 ANSI
D	900 ANSI
E	1500 ANSI
F	2500 ANSI
J	125 ANSI
K	175 PSI W.O.G.
L	1500 PSI W.O.G.
M	2000 PSI W.O.G.
N	3000 PSI W.O.G.
O	4000 PSI W.O.G.
P	6000 PSI W.O.G.
T	800 API
U	1500 API
V	3000 API
W	5000 API

60.3-A L X-001-40 LINE NUMBERING SYSTEM	
PIPE SCHEDULE	
40	SCH. 40 STD
80	SCH. 80 XS
160	SCH. 160 XXS
LINE NUMBER	
3 DIGITS BEGINNING WITH 001	
SOUR SERVICE DESIGNATION	
X - (OPTIONAL)	
TEMPERATURE CLASS	
T	FROM (-29°C) TO (+260°C) A304L SS PIPE
S	FROM (-29°C) TO (+260°C) A106 GR.8 PIPE
L	FROM (-45°C) TO (+260°C) A333 GR.6 PIPE
C	FROM (-120°C) TO (+260°C) A333 GR.6 PIPE
PRESSURE CLASS	
A	150# ANSI
B	300# ANSI
C	600# ANSI
D	900# ANSI
E	1500# ANSI
F	2500# ANSI
PIPE SIZE	
10.3	(1/8")
13.7	(1/4")
17.1	(3/8")
21.3	(1/2")
26.7	(3/4")
33.4	(1")
42.2	(1 1/4")
48.3	(1 1/2")
60.3	(2")
73.0	(2 1/2")
88.9	(3")
101.6	(3 1/2")
114.3	(4")
141.3	(5")
168.3	(6")
219.1	(8")
273.0	(10")
323.8	(12")
355.6	(14")
406.4	(16")
457.2	(18")
508.0	(20")
558.8	(22")
609.6	(24")
660.4	(26")
711.2	(28")
762.0	(30")

VALVE TYPE AND PORT SIZE	
BF	BALL VALVE, FULL PORT
BR	BALL VALVE, REGULAR PORT
BU	BUTTERFLY VALVE
FOR N.P.S. 60.3 (2") & LARGER CHECK VALVES	
CP	CHECK VALVE, PISTON TYPE
CS	CHECK VALVE, SWING TYPE
CT	CHECK VALVE, TILTING DISC TYPE
FOR N.P.S. 48.3 (1 1/2") & SMALLER CHECK VALVES	
CH	CHECK VALVE, HORIZONTAL FLOW, VERTICAL LIFT - BALL TYPE
CP	CHECK VALVE, HORIZONTAL FLOW, VERTICAL LIFT - PISTON TYPE
CV	CHECK VALVE, VERTICAL FLOW, BALL TYPE
DB	DOUBLE BLOCK VALVE, WITH INTEGRAL BLEED FEATURE
GF	GATE VALVE, FULL PORT
GR	GATE VALVE, REGULAR PORT
GC	GATE VALVE, (CLIP)
GL	GLOBE VALVE
NE	NEEDLE VALVE
PL	PLUG VALVE
VALVE SIZE	
10.3	(1/8")
13.7	(1/4")
17.1	(3/8")
21.3	(1/2")
26.7	(3/4")
33.4	(1")
42.2	(1 1/4")
48.3	(1 1/2")
60.3	(2")
73.0	(2 1/2")
88.9	(3")
101.6	(3 1/2")
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457.2	(18")
508.0	(20")
558.8	(22")
609.6	(24")
660.4	(26")
711.2	(28")
762.0	(30")

INSTRUMENT IDENTIFICATION													
VARIABLE	PRIMARY ELEMENT	INDICATOR	RECORDER	BLIND	CONTROLLER	TRANS-MITTER	ALARM--SHUTDOWN	CONTROL VALVE OR REGULATOR	SELF-ACTIVATED VALVE	RELAY OR CONVERTER			
ANALYSIS	AE	AI	AR	AC	AIC	ARC	AT	AS	AA	AV			AY
BURNER FLAME	BE	BI	BR	BC			BT	BS	BA	BV			BY
CONDUCTIVITY	CE	CI	CR		CIC	CRC	CT	CS	CA	CV			CY
DENSITY	DE	DI	DR		DIC	DRG	DT	DS	DA	DV			DY
VOLTAGE (EMF)	EE	EI	ER	EC	EIC	ERC	ET	ES	EA	EV			EY
FLOW	FE	FI	FR	FC	FIC	FRC	FT	FS	FA	FV	FCV		FY
FLOW RATIO		FFI	FFR	FFC	FFIC	FFRC		FFS	FFA	FFV			
GAUGING (DIMENSIONAL)	GE	GI	GR	GC	GIC	GRC	GT	GS	GA	GV			
HAND				HC	HIC			HS		HV	HCV		
CURRENT	IE	II	IR	IC	IIC	IRC	IT	IS	IA				IY
POWER	JE	JI	JR	JC	JIC	JRC	JT	JS	JA				JY
TIME		KI	KR	KC	KIC	KRC	KT	KS	KA				KY
LEVEL	LE	LI	LR	LC	LIC	LRC	LT	LS	LA	LV	LCV		LY
MOISTURE	ME	MI	MR	MC	MIC	MRC	MT	MS	MA	MV			MY
USER'S CHOICE	NE												
TORQUE	OE	OI	OR	OC	OIC	ORC	OT	OS	OA	OV			OY
PRESSURE	PE	PI	PR	PC	PIC	PRC	PT	PS	PA	PV	PCV		PY
PRESSURE DIFFERENTIAL	PDE	PDI	PDR	PDC	PDIC	PDRG	PDT	PDS	PDA	PDV	PDCV		
QUANTITY OR EVENT		QI	QR	QC	QIC	QRC	QT	QS	QA	QV			QY
RADIATION	RE	RI	RR	RC	RIC	RRC	RT	RS	RA				RY
SPEED OR FREQUENCY		SI	SR	SC	SIC	SRC	ST	SS	SA				SY
TEMPERATURE	TE	TI	TR	TC	TIC	TRC	TT	TS	TA	TV	TCV		TY
TEMPERATURE DIFFERENTIAL		TDI	TDR	TDC	TDIC	TDRG	TDI	TDS	TDA	TDV	TDCV		
MULTI-VARIABLE		UI	UR	UC	UIC	URC				UV			UY
VISCOSITY OR VIBRATION	VE	VI	VR	VC	VIC	VRC	VT	VS	VA	VV			VY
WEIGHT	WE	WI	WR	WC	WIC	WRC	WT	WS	WA	WV			WY
UNCLASSIFIED	XE	XI	XR	XC	XIC	XRC	XT	XS	XA	XV			XY
USER'S CHOICE													YY
POSITION	ZE	ZI	ZR	ZC	ZIC	ZRC	ZT	ZS	ZA				ZY

H:HIGH, HH:EXTRA HIGH, L:LOW, LL: EXTRA LOW, HL:HIGH & LOW, C:CLOSED, O:OPENED

GENERAL INSTRUMENT OR FUNCTION SYMBOLS

	FIELD MOUNTED SHARED CONTROL	PRIMARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR	PRIMARY LOCATION NORMALLY INACCESSIBLE TO OPERATOR OR BEHIND PANEL	AUXILIARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR	AUXILIARY LOCATION NORMALLY INACCESSIBLE TO OPERATOR OR BEHIND PANEL
DISCRETE INSTRUMENTS					
SHARED DISPLAY SHARED CONTROL					
COMPUTER FUNCTION					
PROGRAMMABLE LOGIC CONTROL					

	SHARING COMMON HOUSING *		PILOT LIGHT (SHOW COLOR INSIDE SYMBOL)		PANEL MOUNTED PATCHBOARD POINT 12		HEAT TRACED AND INSULATED INSTRUMENTS
	PURGE OR FLUSHING DEVICE		RESET FOR LATCH-TYPE ACTUATOR		DIAPHRAGM SEAL		UNDEFINED INTERLOCK LOGIC **
	EMERGENCY SHUTDOWN		LOGIC INTERFACE				

* IT IS NOT MANDATORY TO SHOW A COMMON HOUSING

** FOR SPECIFIC LOGIC SYMBOLS, SEE ANSI/ISA STANDARD S5.2.

* IT IS NOT MANDATORY TO SHOW A COMMON HOUSING

** FOR SPECIFIC LOGIC SYMBOLS, SEE ANSI/ISA STANDARD 5.2.

REFERENCE DRAWINGS			REVISIONS					APPROVED			 INDUSTRIAL FABRICATION CORPORATION 48" SEPARATOR PACKAGE – MODEL SH48201 48" OD X 192" S/S X 740 PSIG LEGEND SHEET (1 OF 2) PIPING AND INSTRUMENTATION DIAGRAM							
NUMBER	TITLE		NO.	BY	DATE	ISSUE	CHK'D	APP'D	DISCIPLINE	INITIALS					DATE			
			0	DRG	05/08/29	ISSUED FOR INFORMATION			MECHANICAL									
									CIVIL/STRUCTURAL									
									ELECTRICAL									
									DRAFTING/CHECKED			SCALE N.T.S.	DRAWN DRG	DATE 05/08/25	PROJECT NO. 05-0059	IFC JOB NO. 16091	DRAWING NO. 05-0059-90A-01	REV. 0



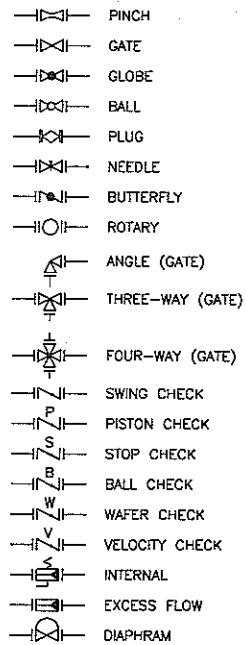
ENERFLEX

48" SEPARATOR PACKAGE - MODEL SH48201

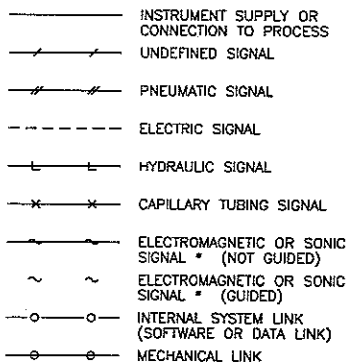
48" OD X 192" S/S X 740 PSIG
LEGEND SHEET (1 OF 2)
PIPING AND INSTRUMENTATION DIAGRAM

DRAWING NO.: 05-0059-90A-01 IFC DRAWINGS 05-0059-90A-01 LONG

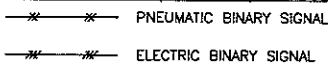
VALVES



INSTRUMENT LINE CODE

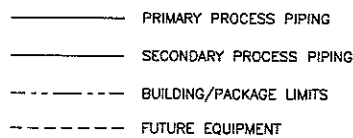


OPTIONAL BINARY (ON - OFF) SYMBOLS

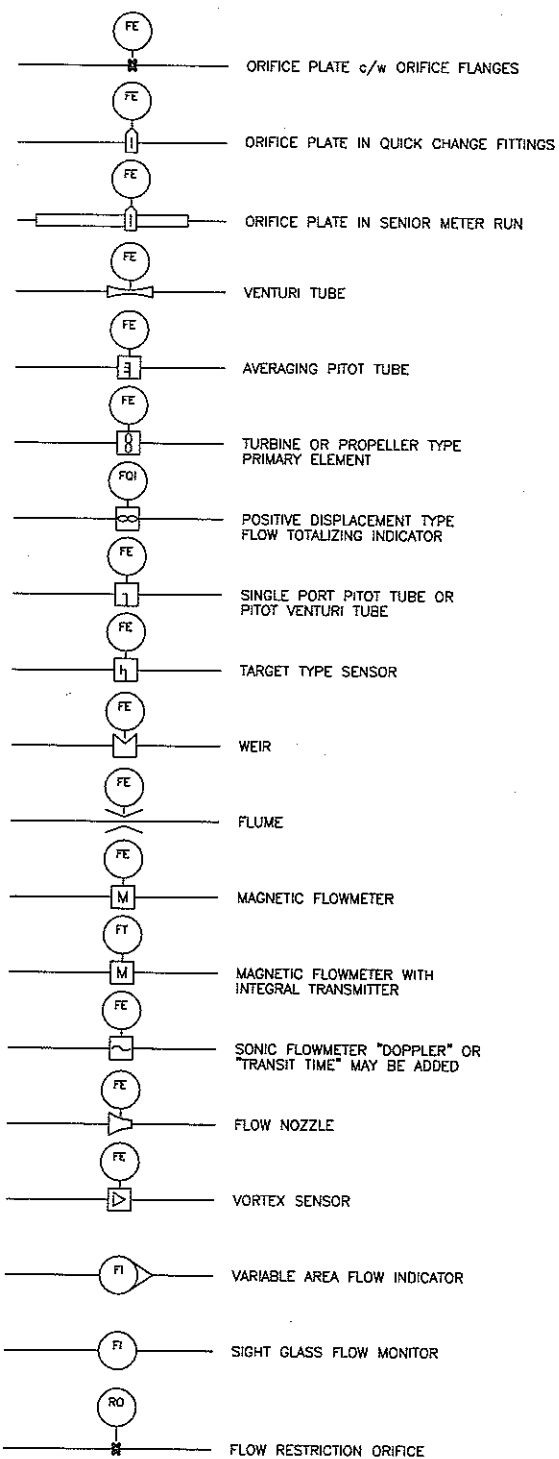


NOTE:
* ELECTROMAGNETIC PHENOMENA INCLUDE HEAT, RADIO WAVES, NUCLEAR RADIATION AND LIGHT.

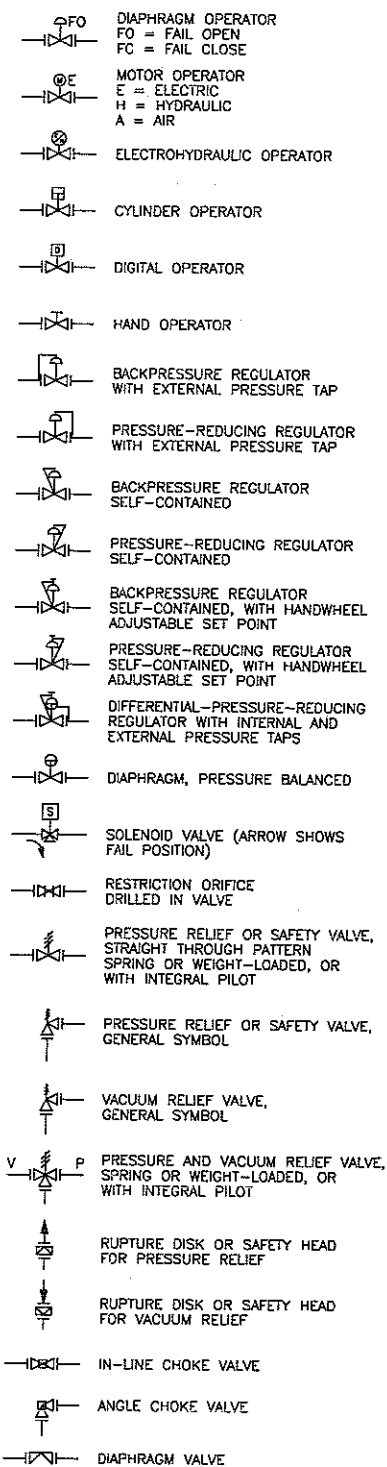
LINE CODE



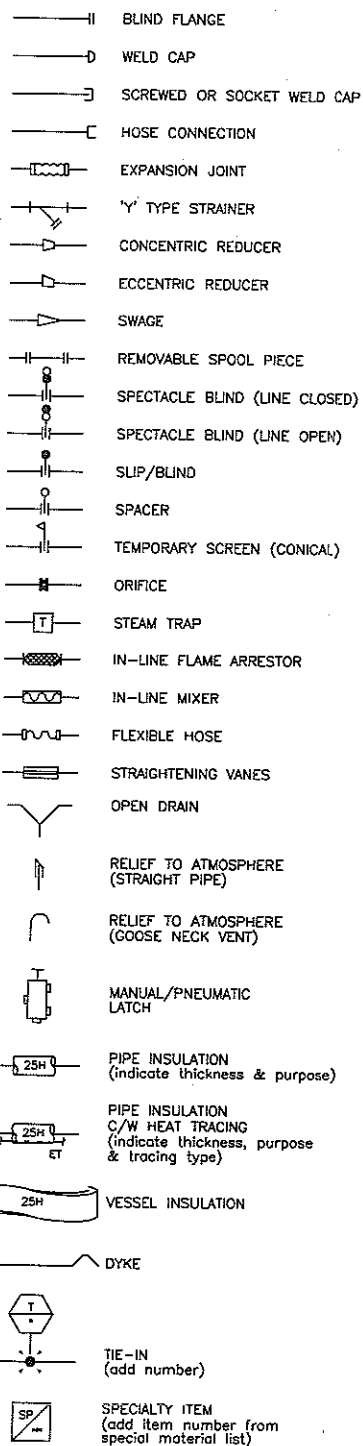
FLOW INSTRUMENT SYMBOLS



CONTROL VALVES



MISCELLANEOUS SYMBOLS

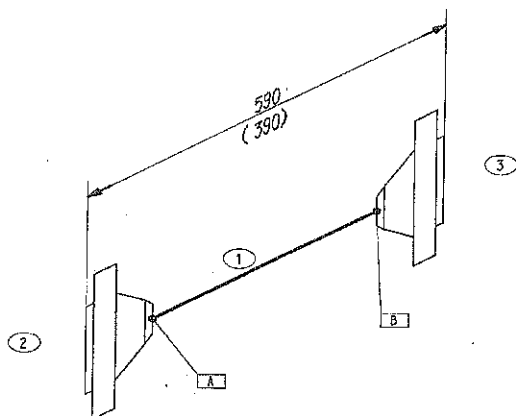


ABBREVIATIONS

AC - AIR CLOSE
AO - AIR OPEN
A/G - ABOVE GROUND
A/S - AIR SUPPLY
ATM - ATMOSPHERE
BDV - BLOWDOWN VALVE
CC - CORROSION COUPON
CHO - CHAIN OPERATED
CO - CLEAN OUT
CSC - CAR SEAL CLOSED
CSO - CAR SEAL OPEN
DBB - DOUBLE BLOCK & BLEED
ESD - EMERGENCY SHUTDOWN
ESDD - EMERGENCY SHUTDOWN & DEPRESSURE
ESDV - EMERGENCY SHUTDOWN VALVE
FC - FAIL CLOSED
F/G - FUEL GAS
FO - FAIL OPEN
FOB - FLAT ON BOTTOM
FOT - FLAT ON TOP
FP - FULL PORT
GO - GEAR OPERATED
HOA - HAND OFF AUTO
I/A - INSTRUMENT AIR
I/G - INSTRUMENT GAS
I/P - CURRENT/PRESSURE TRANSDUCER
LEL - LOWER EXPLOSIVE LIMIT
NC - NORMALLY CLOSED
NO - NORMALLY OPEN
O/H - OVERHEAD
O/S - OUTSIDE BUILDING
PH - ACID CONCENTRATION
PO - PUMP OUT
Q - TOTALIZING
S - STRAIGHT THROUGH (DIAPHRAGM VALVE)
SC - SAMPLE CONNECTION
S/D - SHUTDOWN (INDIVIDUAL EQUIPMENT)
SP - SET POINT
S/S - SEAM TO SEAM
TL - TANGENT LINE
T/T - TANGENT TO TANGENT
TYP - TYPICAL
W - WEIR (DIAPHRAGM VALVE)

REFERENCE DRAWINGS		REVISIONS				APPROVED				 INDUSTRIAL FABRICATION CORPORATION			ENERFLEX 48" SEPARATOR PACKAGE - MODEL SH48201 48" OD X 192" S/S X 740 PSIG LEGEND SHEET (2 OF 2) PIPING AND INSTRUMENTATION DIAGRAM					
NUMBER	TITLE	NO.	BY	DATE	ISSUE	CHK'D	APP'D	DISCIPLINE	INITIALS								DATE	
		0	DRG	05/08/29	ISSUED FOR INFORMATION													
								MECHANICAL										
								CIVIL/STRUCTURAL										
								ELECTRICAL										
								DRAFTING/CHECKED				SCALE N.T.S.	DRAWN DRG	DATE 05/08/25	PROJECT NO. 05-0059	IFC JOB NO. 16091	DRAWING NO. 05-0059-90A-02	REV. 0

48" 3 Phase Seperator Package

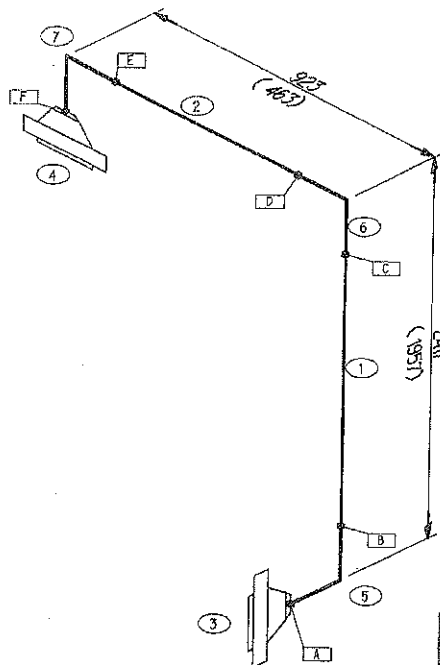


AS BUILT

DOUBLE CHECK ALL MEASUREMENTS BEFORE WELDING
RECORD ALL HEAT #S AND WELDER STAMPS
SIGN OFF PRINT ONLY AFTER IT IS RECHECKED

RT 1004						INT 1004		PWHT none		PIPE SPEC BSK		SURF AREA 9.2 sq ft.		JOB CODE B313		PAINT GREY	
PT						VISUAL 1004		HYDRO 1102 est		FAB CODE B313		INSUL		REF DRG 02-0062-ZA-02		REV. 0	
WELD PROC.						IPC #1										2 butt welds	
Industrial Fabrication Corporation RR 3, Site 1, Box 14 Grande Prairie, AB T8V 5N3 (780) 539-3268 fax (780) 532-1066																	
CLIENT Enerflex Leasing P.O. No. PLU000175 DIA IN 18 WEIGHT 127 lb																	
PROJECT IFC Job # 18010 JOB NO. CONTROL NO.																	
SPOOL 6" 300# GAS INLET SPOOL 1 REV. 0 SHEET 1 of 1 18010 Nt-01																	
REVISIONS BY CHK DATE 2006-12-19																	

48" 3 Phase Seperator Package



AS BUILT

DOUBLE CHECK ALL MEASUREMENTS BEFORE WELDING
RECORD ALL HEAT #'S AND WELDER STAMPS
SIGN OFF PRINT ONLY AFTER IT IS RECHECKED

RT X006		MT Y004	PMTT none	PPE SPEC B5X	SURF AREA 28.8 sq ft	JOB CODE B3L3	PARTY
PT	VISUAL X00Y	MTRD 110.0 in	FAB CODE B3L3	B3L1		REF DRG 05-2082-922-02	REV. 0
WELD PROC IEC J1							
				DIN SRS	Industrial Fabrication Corporation		
				DATE 2006-12-30	RR 3, Site 1, Box 14		
				CHK	Grande Prairie, AB T8V 5N3		
				APP	(780) 539-3268 fax (780) 532-1066		
REVISIONS				BY	CHK	DATE	2006-12-19

6 butt welds

CLIENT	Enerflex Leasing
PROJECT	IFC Job # 18010

P.O.No. PLU000175

DI-NS	
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	WEIGHT
1	100
2	100
3	100
4	100
5	100
6	100
7	100
8	100
9	100
10	100
11	100
12	100
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6" 300# GAS INLET SPOOL 2

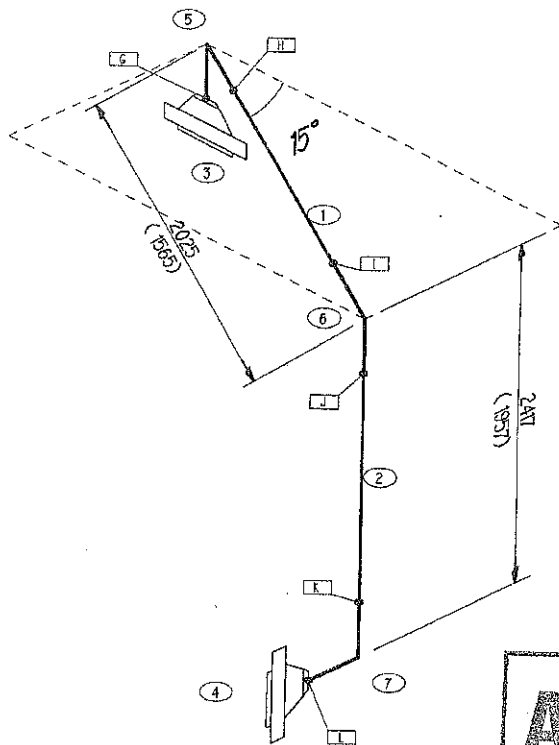
REV.

SHEET 1 of 1

JCB No.
18010

CONTROL No.
N1-02

48" 3 Phase Seperator Package



AS BUILT

DOUBLE CHECK ALL MEASUREMENTS BEFORE WELDING
RECORD ALL HEAT #'S AND WELDER STAMPS
SIGN OFF PRINT ONLY AFTER IT IS RECHECKED

RT 1001		MT 1001	PAINT none	PIPE SPEC	RSX	SURF AREA	331.64 IL	JOB CODE	B31.3	PAINT
PT	VISUAL 1004	HYDRO 1002		FAB CODE	B31.3	INSTA		REF DRG	05-0068-324-03	REV. 0
WELD PROC.		EC #1								
								Industrial Fabrication Corporation		
								RR 3, Site 1, Box 14		
								Grande Prairie, AB T8V 5N3		
								(780) 539-3268 fax (780) 532-1066		
REVISIONS				BY	CHK	DATE	APP			
						2006-12-19				

6 butt welds

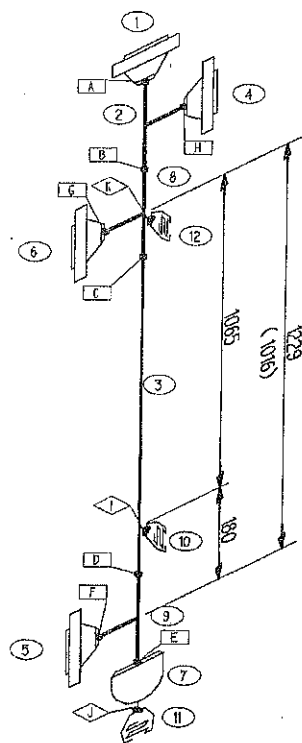
CLIENT	Enerflex Leasing
PROJECT	IFC Job # 18010

6" 300# GAS OUTLET SPOOL #1

[illegible]

Enerflex Leasing

48" 3 Phase Separator Package



AS BUILT

DOUBLE CHECK ALL MEASUREMENTS BEFORE WELDING
RECORD ALL HEAT #'S AND WELDER STAMPS
SIGN OFF PRINT ONLY AFTER IT IS RECHECKED

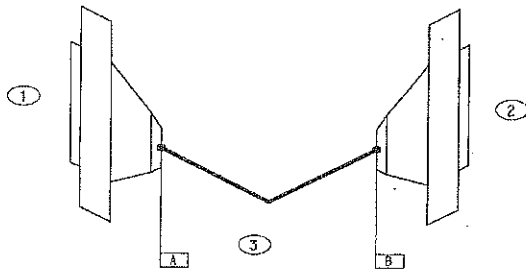
RT 1001	NT 1001	PM-IT 1001	PIPE SPEC	BSX	SURF AREA	15.6 sq ft	JOB CODE	B313	PAINT
PT	VISUAL 1002	HYDRO 1101	FAB CODE	B313	INSUL		REF DRG	05-0062-32A-07	REV. 0
WELD PROC.			IFC #1						
REVISIONS			BY	CHK	DATE	2006-12-19	Industrial Fabrication Corporation RR 3, Site 1, Box 14 Grande Prairie, AB T8V 5N3 (780) 539-3268 fax (780) 532-1066		

Heat No.	ITEM	QTY	DESCRIPTION	SIZE	WELDS	WELDER	X-Ray	Visual
0512223	3	1	A105-B SMLS Pipe	4" Sch 40(237) BE x BE	1016			
			Total length	1016				
			A105N Flanges					
32510	1	1	4" 300# RF Weld Neck	Sch 40	A-4" BW	P	XF-96	SRS
32510	4	1	4" 300# RF Weld Neck	Sch 40	B-4" BW	J	XF-99	SRS
165A6	5	1	2" 300# RF Weld Neck	Sch 80	C-4" BW	J	XF-98	SRS
165A6	6	1	2" 300# RF Weld Neck	Sch 80	D-4" BW	J	XF-100	SRS
			A105N Fittings					
56717	10	1	3/4" x 4" 3,000# Thredolet		E-4" BW	4	XF-101	SRS
56717	12	1	3/4" x 4" 3,000# Thredolet		F-2" BW	4	XF-59	SRS
F1E1	11	1	1/2" x FL 3,000# Thredolet		G-2" BW	B	XF-68	SRS
			SA234-WPB Fittings					
08030029	7	1	4" Std BW Cap	Sch 40	H-4" BW	4	XF-99	SRS
4504126	2	1	4" Strt Tee	Sch 40	I-3/4" Olet	J	MP-12	SRS
49B100035	8	1	4" x 2" Red Tee	Sch 40/Sch 80	J-1/2" Olet	B	MP-13	SRS
49B100035	9	1	4" x 2" Red Tee	Sch 40/Sch 80	K-3/4" Olet	B	MP-11	SRS

8 butt welds

CLIENT	Enerflex Leasing	P.O. No.	PLU000175	DIA-INS	40	WEIGHT	139 lb
PROJECT	IFC Job # 18010	JOB No.	18010	CONTROL No.	N5-02		
SPOOL	2" 300# BRIDLE SPOOL #2	REV.	0	SHEET	1 of 1		

48" 3 Phase Seperator Package



AS BUILT

DOUBLE CHECK ALL MEASUREMENTS BEFORE WELDING
RECORD ALL HEAT #S AND WELDER STAMPS
SIGN OFF PRINT ONLY AFTER IT IS RECHECKED

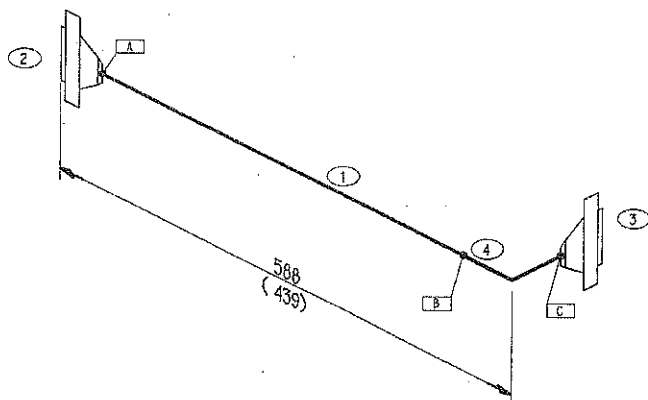
RT CODE	HT	ROCK	PMT	NAME	PIPE SPEC	BSX	SURF AREA	2.7 sq ft	JOB CODE	B3L3	PANT
PT	VISUAL	CODE	HYDRO	INFO SHEET	FAB CODE	B3L3	INSUL		REF DRG	OS-0682-32A-06	REV. 0
WELD PROC.		UFC #1									
							DWN	SRS	Industrial Fabrication Corporation RR 3, Site 1, Box 14 Grande Prairie, AB T8V 5N3 (780) 539-3268 fax (780) 532-1066		
							DATE	2006-10-31			
							CHK	APP			
REVISIONS					BY	CHK	DATE	2006-12-18			

2 butt welds

CLIENT	Enerflex Leasing
PROJECT	IFC Job # 18010
SPOOL	2" 300# BRIDLE SPOOL #3

[illegible]

48" 3 Phase Separator Package



AS BUILT

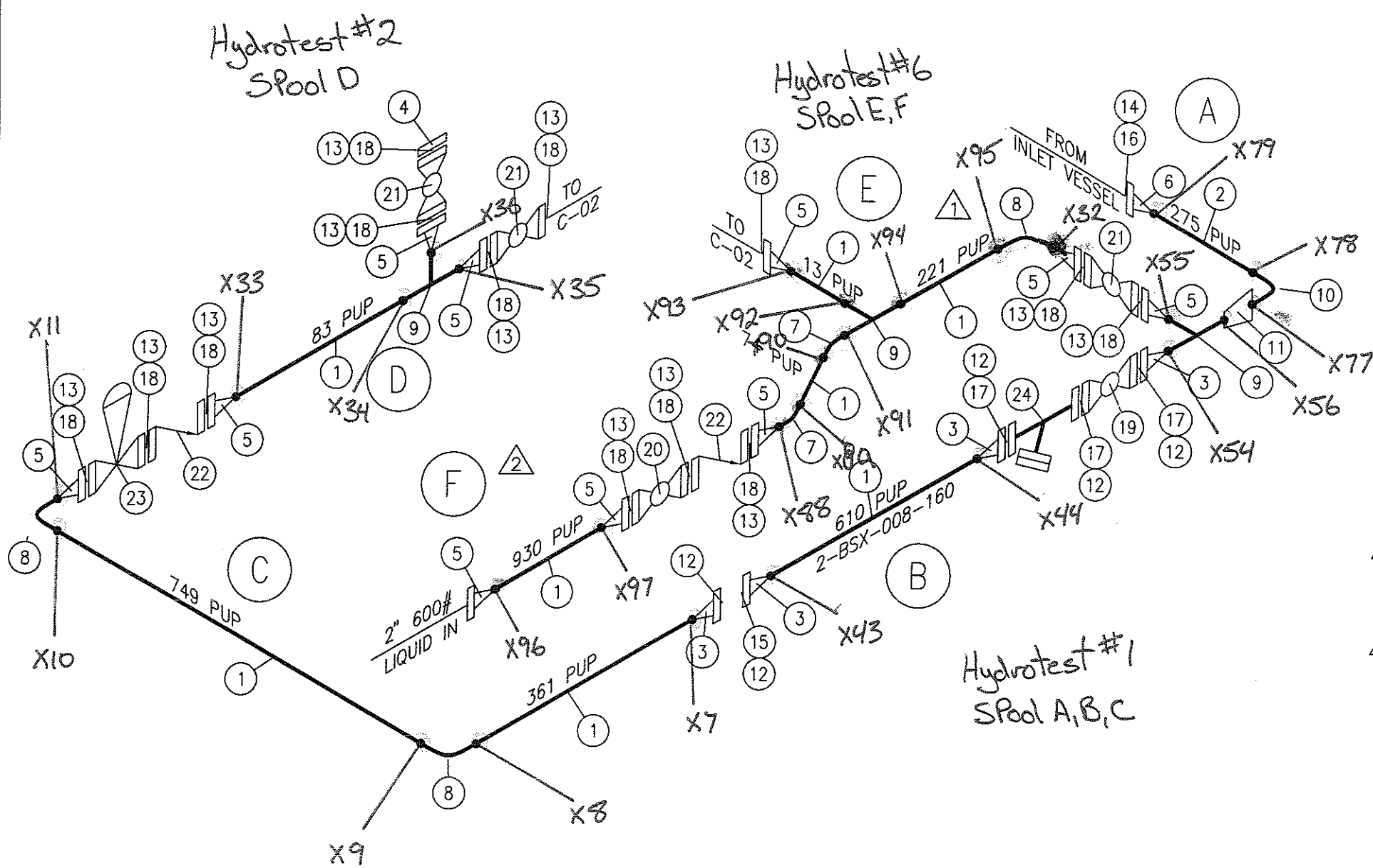
DOUBLE CHECK ALL MEASUREMENTS BEFORE WELDING
RECORD ALL HEAT #S AND WELDER STAMPS
SIGN OFF PRINT ONLY AFTER IT IS RECHECKED

RT 100%	WT 100%	PAINT name	PIPE SPEC	BSX	SURF AREA	3.6 sq ft	JOB CODE	B313	PAINT
PT	USUAL 100%	HYDRO 100 psi	FAB CODE	B313	INSUL		REF DRG	OS-0082-323-07	REV. 0
WELD PROC.		IPC #1							
					DRW	SRS	Industrial Fabrication Corporation		
					DATE	2006-10-31	RR 3, Site 1, Box 14		
					CHK		Grande Prairie, AB T8V 5N3		
					APP		(780) 539-3268 fax (780) 532-1066		
REVISIONS					BY	CHK	DATE	PHONE (780) 532-1066	

3 butt welds

CLIENT	Enertflex Leasing	P.O. No.	PLU000175	DIA-BS	6	WEIGHT	25 lb
PROJECT	IFC Job # 18010			JOB No.	18010	CONTROL No.	N5-01
SPOOL	2" 300# BRIDLE SPOOL #5	REV.	0	SHEET	1 of 1		

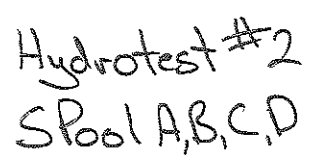
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BILL OF MATERIAL

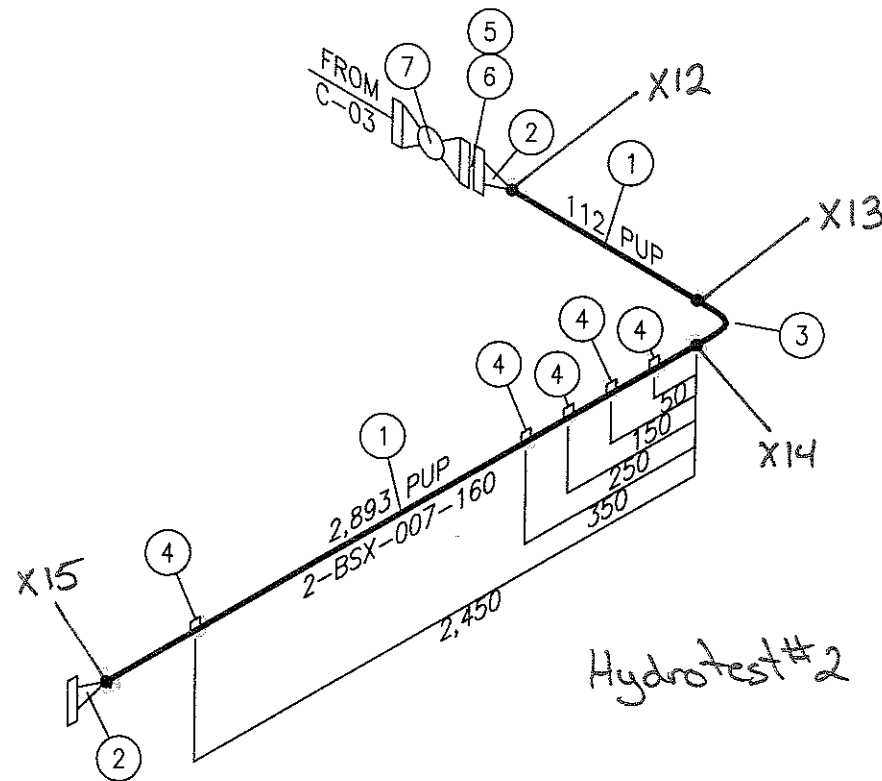
PIPE							
MK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F	M.T.R. NO.
1	11'	2"	SCH.160	PIPE SMLS	A106 GR. B	S	2CP-160, 2CQ-160
2	1'	3"	SCH.80	PIPE SMLS	A106 GR. B	S	3EU-80
FLANGES							
MK	QTY	SIZE	RATING	SCHEDULE	DESCRIPTION	MATERIAL	S/F
3	4	2"	300#	SCH.160	FLANGE RF WN	A105N	M.T.R. NO
4	1	2"	600#		BLIND FLANGE RF	A 105N	29572, 78044
5	10	2"	600#	SCH.160	FLANGE RF WN	A105N	47278, 72319
6	1	3"	300#	SCH.80	FLANGE RF WN	A105N	79576
WELD FITTINGS							
MK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F	M.T.R. NO
7	2	2"	SCH.160	ELBOW 45 DEG BW	A234 GR. WPB	S	388A
8	3	2"	SCH.160	ELBOW 90 DEG LR BW	A234 GR. WPB	S	6G7676
9	3	2" X 2"	SCH.160	STRAIGHT TEE BW	A234 GR. WPB	S	333998, 82656
10	1	3"	SCH.80	ELBOW 90 DEG LR BW	A234 GR. WPB	S	604760
11	1	3" X 2"	SCH80/160	CONC REDUCER BW	A234 GR. WPB	S	616466
GASKETS							
MK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	S/F	
12	5	2"	300#	GASKET RF 1/8" SPIRAL WOUND	316 SS	S	
13	13	2"	600#	GASKET RF 1/8" SPIRAL WOUND	316 SS	S	
14	1	3"	300#	GASKET RF 1/8" SPIRAL WOUND	316 SS	S	
BOLTS							
MK	QTY	SIZE	DESCRIPTION	MATERIAL	S/F		
15	1 SET	5/8"X6"	STUD BOLTS CW/2 NUTS-8/SET	A193 B7M/A194 2HM	S		
16	1 SET	3/4"X4 1/4"	STUD BOLTS CW/2 NUTS-8/SET	A193 B7M/A194 2HM	S		
17	3 SETS	5/8"X3 1/2"	STUD BOLTS CW/2 NUTS-8/SET	A193 B7M/A194 2HM	S		
18	13 SETS	5/8"X4 1/4"	STUD BOLTS CW/2 NUTS-8/SET	A193 B7M/A194 2HM	S		
VALVES							
MK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	VALVE TAGS/F	
19	1	2"	300#	BALL VALVE RED PORT RF	A105N		S
20	1	2"	600#	BALL VALVE NACE TRIM FP RF	A 105N		S
21	3	2"	600#	BALL VALVE RF	A 105N		S
22	2	2"	600#	CHECK VALVE SWING RF	A 105N		S
23	1	2"	600#	D3 FLO PRO			S
SUPPORTS & MISC							
MK	QTY	SIZE	DESCRIPTION	MATERIAL	S/F		
24	1	2"	Y-STRAINER - FLANGED		S		

COLOR	WELDER	ENGINEER'S STAMP								NOTES	MAT. SPEC/GRADE A-105/A-106B	5221-48th St. Stettler Alberta Box 1450, T0C 2L2 Phone: 403.742.5538 Fax: 403.742.5539				Jiro ENERFLEX	
	McNeill		△							-SPOOLS A,B & C DESIGN PRESSURE IS 740PSI & TESTED AT 1,080PSI@100°F	DESIGN TEMP. -20°F to 100°F	JOB NO. P5408 DRAWING NO. CDL-P5408-C-01 LINE NO. LIQUID DUMP 1					
	Cyr		△							-SPOOLS D,E & F DESIGN PRESSURE IS 1,200PSI & TESTED AT 2,160PSI@100°F	DESIGN PRES. SEE NOTES						
			△								TEST PRES. SEE NOTES						
			4	AS BUILT FOR P5408 REV.3	JTH	07-02-06	WST	SE			X-RAY 100%						
			3	REVISED FOR P5408 REV.3	SLS	07-01-25	WST	SE			STRESS RELIEF YES	DRAWN BY: WST DATE: 06-12-13 CHECKED BY: WST APPROVED BY: SE REVISION: 4					
			2	AS BUILT	WST	07-01-12	CAD	ENG			CORROSION ALLOWANCE 0.125"						
			1	REVISED PUP LENGTH	WST	07-01-05	WST	SE			CODE OF CONSTRUCTION B31.3						
			0	ISSUED FOR CONSTRUCTION FOR P5408	WST	06-12-18	WST	SE			PIPING SPEC 509						
			REV	REVISION DESCRIPTION	BY	DATE	CHKD	APPD				COMPANY: PRODUCTION SERVICES		WFS: JML-2			



BILL OF MATERIAL							
PIPE							
MK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F	M.T.R. NO.
1	1'	2"	SCH.160	PIPE SMLS	A106 GR. B	S	2CK-160
2	5'	3"	SCH.80	PIPE SMLS	A106 GR. B	S	3EU-80
FLANGES							
MK	QTY	SIZE	RATING	SCHEDULE	DESCRIPTION	MATERIAL	S/F M.T.R. NO.
3	1	2"	600#		BLIND FLANGE RF	A 105N	S
4	8	2"	600#	SCH.160	FLANGE RF WN	A105N	S 47278
5	4	3"	600#	SCH.80	FLANGE RF WN	A105N	S 37669
6	1	3"	900#	SCH.80	FLANGE RF WN	A105N	S 440582
WELD FITTINGS							
MK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F	M.T.R. NO.
7	1	2"	SCH.160	ELBOW 90 DEG LR BW	A234 GR. WPB	S	667676
8	3	2" X 2"	SCH.160	STRAIGHT TEE BW	A234 GR. WPB	S	333998
9	3	3"	SCH.80	ELBOW 90 DEG LR BW	A234 GR. WPB	S	656384, 604760
10	1	3" X 2"	SCH80/160	CONC REDUCER BW	A234 GR. WPB	S	616466
11	2	3" X 2"	SCH80/160	REDUCING TEE BW	A234 GR. WPB	S	616463
GASKETS							
MK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	S/F	
12	6	2"	600#	GASKET RF 1/8" SPIRAL WOUND	316 SS	S	
13	3	3"	600#	GASKET RF 1/8" SPIRAL WOUND	316 SS	S	
14	1	3"	900#	GASKET RF 1/8" SPIRAL WOUND	316 SS	S	
BOLTS							
MK	QTY	SIZE		DESCRIPTION	MATERIAL	S/F	
15	3 SETS	3/4"x5"		STUD BOLTS CW/2 NUTS-8/SET	A193 B7M/A194 2HM	S	
16	6 SETS	5/8"x4 1/4"		STUD BOLTS CW/2 NUTS-8/SET	A193 B7M/A194 2HM	S	
17	1 SET	7/8"x5 3/4"		STUD BOLTS CW/2 NUTS-8/SET	A193 B7M/A194 2HM	S	
VALVES							
MK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	VALVE TAGS/F	
18	1	2"	600#	BALL VALVE RF	A 105N		S
19	1	3"	600#	BALL VALVE RF	A 105N		S

COLOR	WELDER	ENGINEER'S STAMP						NOTES	MAT. SPEC/GRADE A-105/A-106B	5221-48th St. Stettin, Alberta Box 1450, T0C 2L2 Phone: 403.742.5538 Fax: 403.742.5539 Jiro ENERFLEX			
	McNeill		△						DESIGN TEMP. -20°F to 100°F	JOB NO. P5408 DRAWING NO. CDL-P5408-C-02 LINE NO. LIQUID DUMP 2			
			△						DESIGN PRES. 1,200psi				
			△						TEST PRES. 2,160 psi hydro @ 100°F				
			△						X-RAY 100%				
			△						STRESS RELIEF YES				
			△						CORROSION ALLOWANCE 0.125"	DRAWN BY: WST DATE: 06-12-13 CHECKED BY: WST APPROVED BY: SE REVISION: 1 COMPANY: PRODUCTION SERVICES WPS: JMI-2			
			1	AS BUILT	WST	07-01-12	WST	SE	CODE OF CONSTRUCTION B31.3				
			0	ISSUED FOR CONSTRUCTION FOR P5408	WST	06-12-18	WST	SE	PIPING SPEC SOUR				
			REV	REVISION DESCRIPTION	BY	DATE	CHKD	APPD					



BILL OF MATERIAL									
PIPE									
MK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F	M.T.R. NO.		
1	11'	2"	SCH.160	PIPE SMLS	A106 GR. B	S	2CK-160, 2CQ-160		
FLANGES									
MK	QTY	SIZE	RATING	SCHEDULE	DESCRIPTION	MATERIAL	S/F	M.T.R. NO.	
2	2	2"	600#	SCH.160	FLANGE RF WN	A105N	S	47278	
WELD FITTINGS									
MK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F	M.T.R. NO.		
3	1	2"	SCH.160	ELBOW 90 DEG LR BW	A234 GR. WPB	S	667676		
SCREWED & SOCKET WELD FITTINGS									
MK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	S/F	M.T.R. NO.		
4	5	1/2" ON 2"	6000#	THREDOLET	A 105N	S	56814		
GASKETS									
MK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	S/F			
5	1	2"	600#	GASKET RF 1/8" SPIRAL WOUND	316 SS	S			
BOLTS									
MK	QTY	SIZE	DESCRIPTION		MATERIAL	S/F			
6	1 SET	5/8"x4 1/4"	STUD BOLTS CW/2 NUTS-8/SET		A193 B7M/A194 2HM	S			
VALVES									
MK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	VALVE TAGS/F			
7	1	2"	600#	BALL VALVE TRIM	A 105N	S			

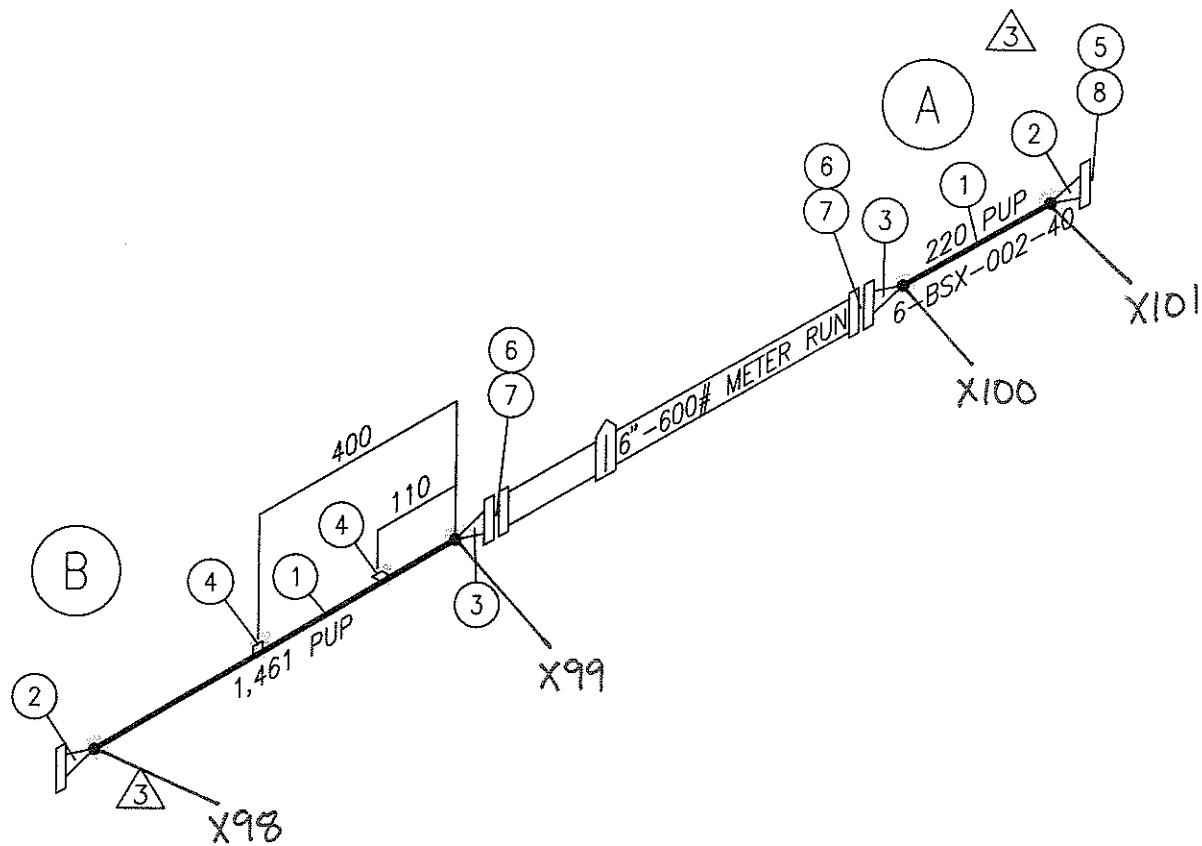
COLOR	WELDER	ENGINEER'S STAMP								NOTES	MAT. SPEC/GRADE A-105/A-106B	5221-46th St. Steffler Alberta Box 1450, T0C 2L2 Phone: 403.742.5538 Fax: 403.742.5539 Jiro ENERFLEX
	Cyr		▲								DESIGN TEMP. -20°F to 100°F	
			▲								DESIGN PRES. 740psi	
			▲								TEST PRES. 2,160 psi hydro @ 100°F	
			▲								X-RAY 100%	
			▲								STRESS RELIEF YES	
			▲								CORROSION ALLOWANCE 0.125"	
			1	AS BUILT	WST	07-01-12					CODE OF CONSTRUCTION B31.3	
			0	ISSUED FOR CONSTRUCTION FOR P5408	WST	06-12-18	WST	SE			PIPING SPEC SOUR	
			REV	REVISION DESCRIPTION	BY	DATE	CHKD	APPD				

JOB NO. P5408				
DRAWING NO. CDL-P5408-C-04				
LINE NO. DRAIN				
DRAWN BY: WST	DATE: 06-12-13	CHECKED BY: WST	APPROVED BY: SE	REVISION: 1
COMPANY: PRODUCTION SERVICES				WPS: JML-2



JOB NO.	P5408			
DRAWING NO.	CDL-P5408-C-05			
LINE NO.	BLOWCASE OULET			
DRAWN BY: WST	DATE: 06-12-13	CHECKED BY: WST	APPROVED BY: SE	REVISION:
COMPANY:	PRODUCTION SERVICES		WPS: 141-2	1

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BILL OF MATERIAL

PIPE							
MK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F	M.T.R. NO.
1	2'	6"	XS	PIPE SMLS	A106 GR. B	S	6BS-80
FLANGES							
MK	QTY	SIZE	RATING	SCHEDULE	DESCRIPTION	MATERIAL	M.T.R. NO.
2	2	6"	300#	XS	FLANGE RF WN	A105N	31964
3	2	6"	600#	XS	FLANGE RF WN	A105N	372A6
SCREWED & SOCKET WELD FITTINGS							
MK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	S/F	M.T.R. NO.
4	2	1" ON 6"	3000#	THREDOLET	A105N	S	56503
GASKETS							
MK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	S/F	M.T.R. NO.
5	1	6"	300#	GASKET RF 1/8" SPIRAL WOUND	316 SS	S	
6	2	6"	600#	GASKET RF 1/8" SPIRAL WOUND	316 SS	S	
BOLTS							
MK	QTY	SIZE	DESCRIPTION	MATERIAL	S/F		
7	2 SETS	1"x6 3/4"	STUD BOLTS CW/2 NUTS-12/SET	A193 B7M/A194 2HM	S		
8	1 SET	3/4"x4 3/4"	STUD BOLTS CW/2 NUTS-12/SET	A193 B7M/A194 2HM	S		

COLOR	WELDER	ENGINEER'S STAMP							
	Potter								
			4	AS BUILT FOR P5408 REV.3	JTH	07-02-06	WST	SE	
			3	CHANGED ALL FITTING TO BE SCH.XS	WST	07-01-29	WST	SE	
			2	REVISED FOR P5408 REV.3	SLS	07-01-25	WST	SE	
			1	AS BUILT	WST	07-01-12	CAD	ENG	
			0	ISSUED FOR CONSTRUCTION FOR P5408	WST	06-12-18	WST	SE	
			REV	REVISION DESCRIPTION	BY	DATE	CHKD	APPD	

NOTES

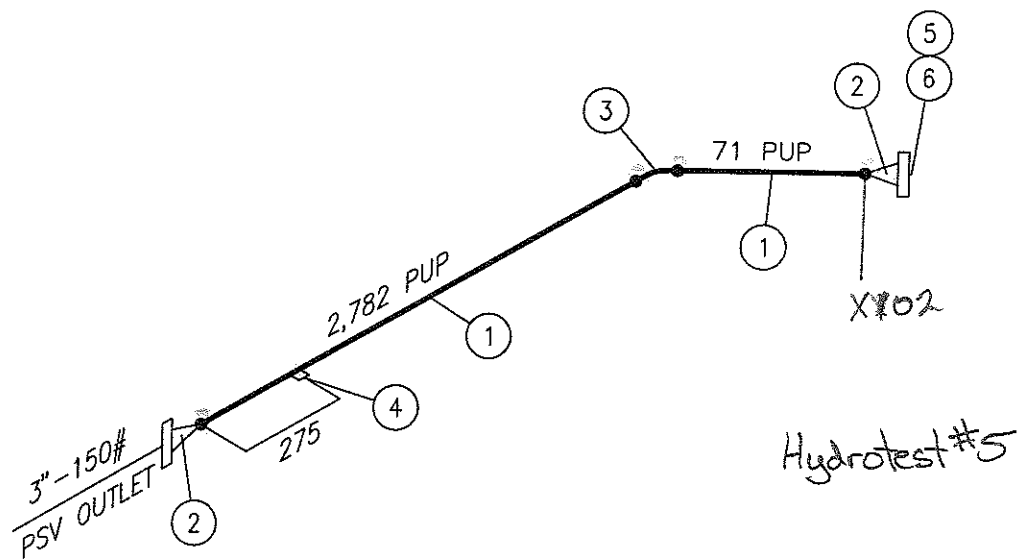
MAT. SPEC/GRADE A-105/A-106B
DESIGN TEMP. -20°F to 100°F
DESIGN PRES. 740psi
TEST PRES. 1,080 psi hydro @ 100°F
X-RAY 100%
STRESS RELIEF YES
CORROSION ALLOWANCE 0.125"
CODE OF CONSTRUCTION B31.3
PIPING SPEC SOUR

5221-48th St.
Stettler Alberta
Box 1450, T0C 2L2
Phone: 403.742.5538
Fax: 403.742.5539

Jiro
ENERFLEX

JOB NO.	P5408								
DRAWING NO.	CDL-P5408-C-06								
LINE NO.	GAS OUTLET								
DRAWN BY:	WST	DATE:	06-12-13	CHECKED BY:	WST	APPROVED BY:	SE	REVISION:	4
COMPANY:	PRODUCTION SERVICES				WPS:	JML-2			

BILL OF MATERIAL								
PIPE								
MK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F	M.T.R. NO.	
1	10'	3"	STD	PIPE SMLS	A106 GR. B	S	3EU-40	
FLANGES								
MK	QTY	SIZE	RATING	SCHEDULE	DESCRIPTION	MATERIAL	S/F	M.T.R. NO.
2	2	3"	150#	STD	FLANGE RF WN	A105N	S	73287
WELD FITTINGS								
MK	QTY	SIZE	SCHEDULE	DESCRIPTION	MATERIAL	S/F	M.T.R. NO.	
3	1	3"	STD	ELBOW 45 DEG BW	A234 GR. WPB	S	06M00063	
SCREWED & SOCKET WELD FITTINGS								
MK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	S/F	M.T.R. NO.	
4	1	1" ON 3"	3000#	THREDOLET	A105N	S	56503	
GASKETS								
MK	QTY	SIZE	RATING	DESCRIPTION	MATERIAL	S/F		
5	1	3"	150#	GASKET RF 1/8" SPIRAL WOUND	316 SS	S		
BOLTS								
MK	QTY	SIZE		DESCRIPTION	MATERIAL	S/F		
6	1 SET	5/8"X3 1/2"		STUD BOLTS CW/2 NUTS-4/SET	A193 B7M/A194 2HM	S		



COLOR	WELDER	ENGINEER'S STAMP									NOTES
	Potter		▲								
			▲								
			▲								
			▲								
			▲								
			▲								
			▲								
			1	AS BUILT FOR P5408 REV.3	JTH	07-02-06	WST	SE			
			0	ISSUED FOR CONSTRUCTION FOR P5408 REV.3	SLS	07-01-25	WST	SE			
			REV	REVISION DESCRIPTION	BY	DATE	CHKD	APPD			

MAT. SPEC/GRADE
A-105/A-106B

DESIGN TEMP.
-20°F to 230°F

DESIGN PRES.
250psi

TEST PRES.
427 psi hydro @ 100°F

X-RAY
10%

STRESS RELIEF
NO

CORROSION ALLOWANCE
0.0625"

CODE OF CONSTRUCTION
B31.3

PIPING SPEC
150BAR (SOUR)

5221-46th St.
Stettler Alberta
Box 1450, T0C 2L2
Phone: 403.742.5538
Fax: 403.742.5539

Jiro
ENERFLEX

JOB NO. P5408

DRAWING NO. CDL-P5408-C-07

LINE NO. PSV OUTLET

DRAWN BY: SLS

DATE: 07-01-25

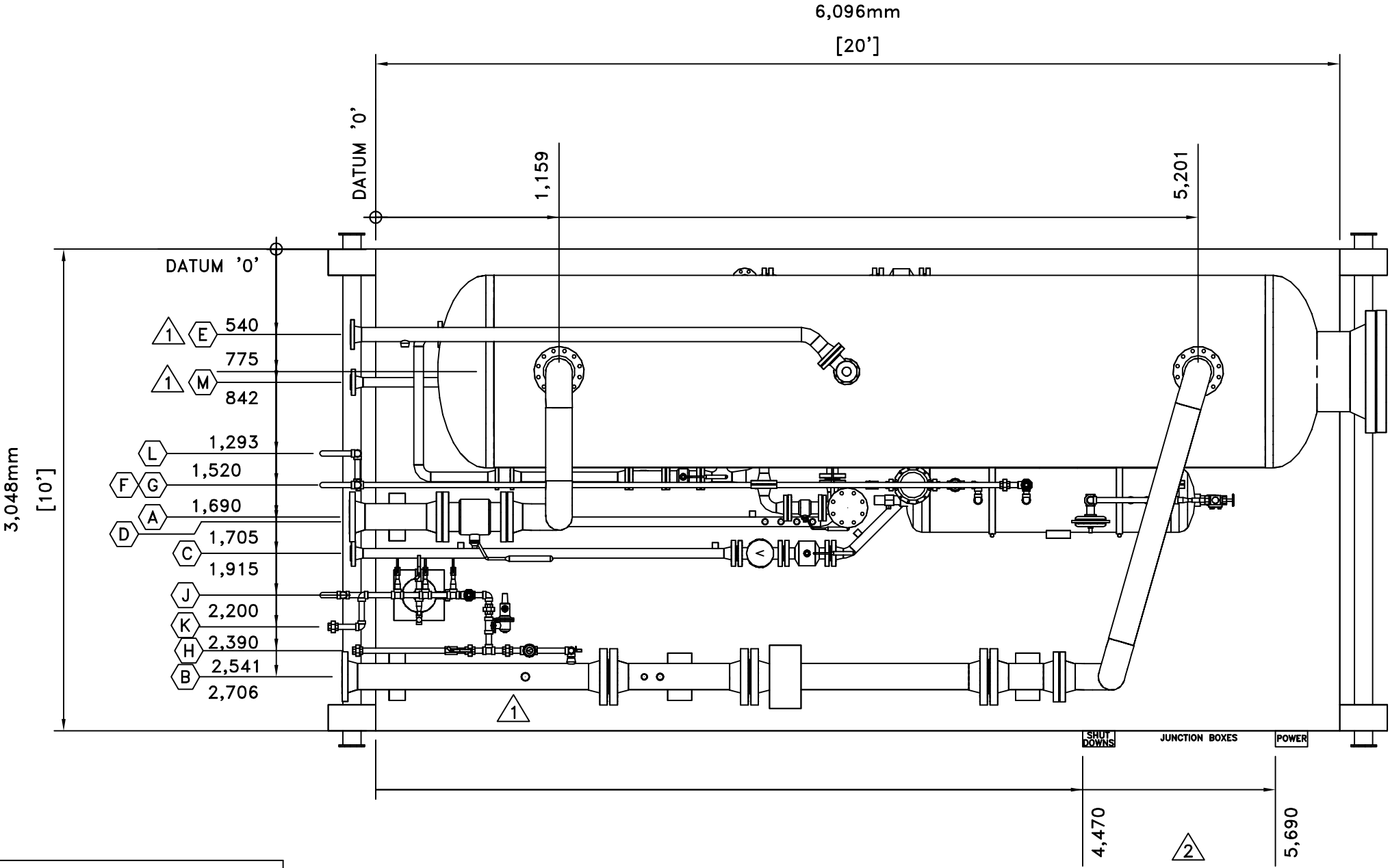
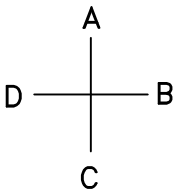
CHECKED BY: WST

APPROVED BY: SE

REVISION: 1

COMPANY: PRODUCTION SERVICES

WPS: JML-1



CUSTOMER CONNECTIONS				
ITEM	DESCRIPTION	SIZE	ELEVATION	PROJ.
A	GAS INLET	6"-300#RF	445mm F.T.O.S.	195mm
B	GAS OUTLET	6"-300#RF	435mm F.T.O.S.	195mm
C	LIQUID OUTLET	2"-600#RF	190mm F.T.O.S.	115mm
D	DRAIN	2"-600#RF	190mm F.T.O.S.	150mm
E	PSV OUTLET	3"-150#RF	2625mm F.T.O.S.	160mm
F	CHARGE GAS	1" NPT	940mm F.T.O.S.	125mm
G	BLOWCASE PSV	1" NPT	3,740mm F.T.O.S.	VENT
H	FUEL GAS INLET	1" NPT	685mm F.T.O.S.	145mm
J	FUEL GAS PSV	1" NPT	3,740mm F.T.O.S.	VENT
K	INSTRUMENT AIR INLET	1" NPT	1,520mm F.T.O.S.	300mm
L	INSTRUMENT VENT HEADER	1" NPT	3,740mm F.T.O.S.	VENT
M	LIQUID IN	2"-600#RF	111mm F.T.O.S.	160mm

3	REVISED AS BUILT	JTH	07-02-23		
2	REVISED TO SHOW LOCATION OF JUNCTION BOXES	SLS	07-02-06	CAD	ENG
1	REVISED FOR P5408 REV.3	SLS	07-01-25	CAD	ENG
0	AS BUILT FOR JIRO JOB# P5408	WST	06-01-10	CAD	ENG
REV.	DESCRIPTION	BY	DATE	CHKD	APPD

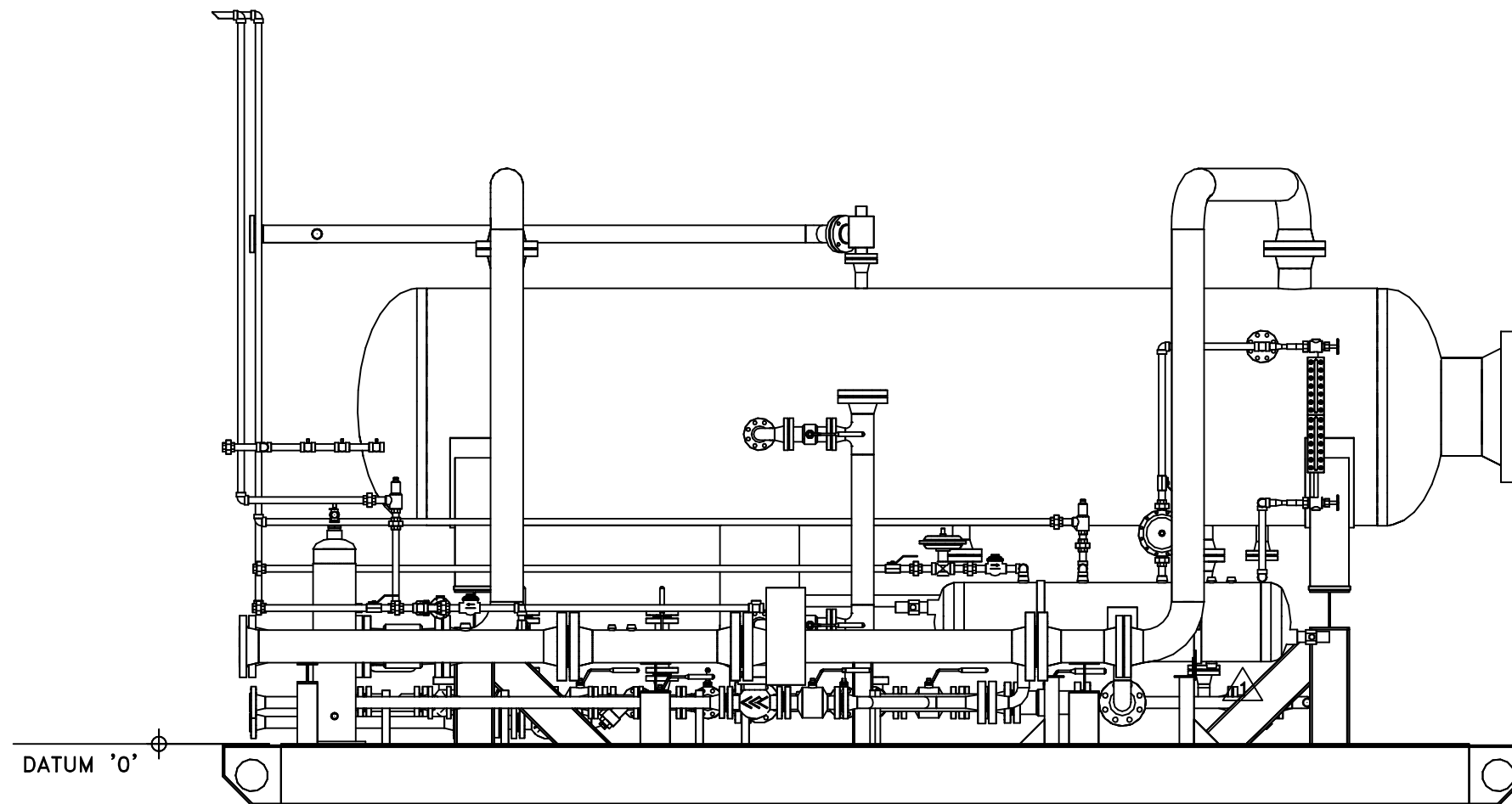
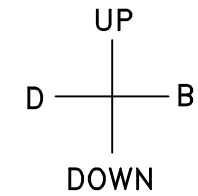


5221-46th St. Stettler Alberta Box 1450, T0C 2L2 Phone: 403.742.5538 Fax: 403.742.5539

48" OD x 192" S/S, 740PSIG
HORIZONTAL SEPARATOR PACKAGE
GENERAL ARRANGEMENT

Company: PRODUCTION SERVICES				JOB NO.: 8000353	
Drawn by: WST	Checked by: CAD	Approved by: ENG	Date: 06-01-10	Scale: 1:30	Drawing NO.: CDL-8000353-B-01 Rev.: 3

PLAN VIEW
SCALE 1:30



'C' ELEVATION VIEW
SCALE 1:30

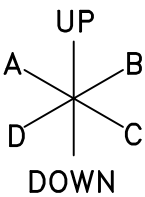
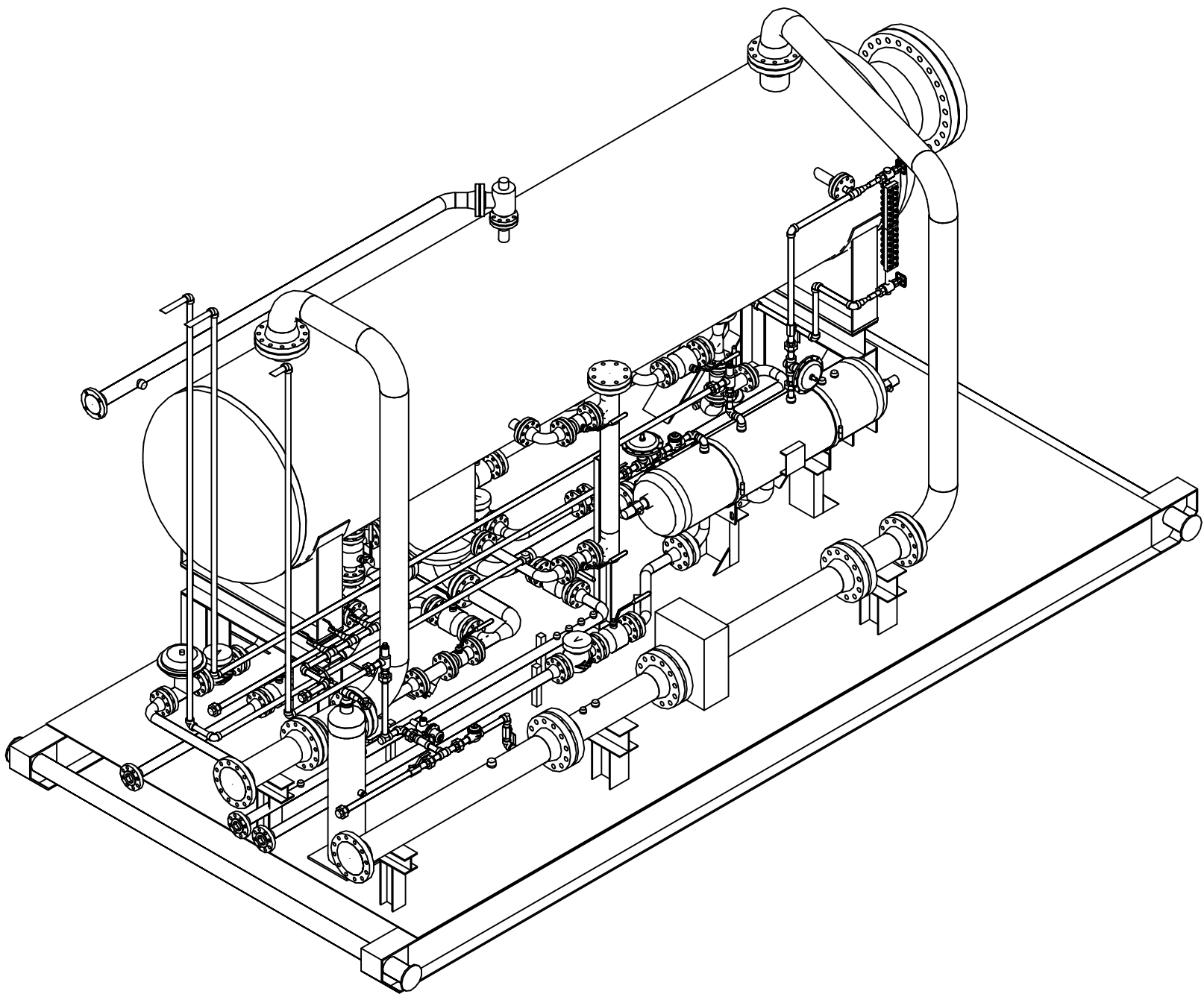
REV.	DESCRIPTION	BY	DATE	CHKD	APPD
2	REVISED AS BUILT	JTN	07-02-23		
1	REVISED FOR PS408 REV.3	SLS	07-01-25	CAD	ENG
0	AS BUILT FOR JIRO JOB# PS408	WST	06-01-10	CAD	ENG

Jiro
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48" OD x 192" S/S, 740PSIG
HORIZONTAL SEPARATOR PACKAGE
GENERAL ARRANGEMENT

Company: PRODUCTION SERVICES					JOB NO.: 8000353	
Drawn by: WST	Checked by: CAD	Approved by: ENG	Date: 06-01-10	Scale: 1:30	Drawing NO.: CDL-8000353-B-02	Rev.: 2



SW ISOMETRIC VIEW
SCALE 1:30

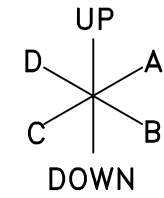
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1	REVISED FOR P5408 REV.3	SLS	07-01-25	CAD	ENG
0	AS BUILT FOR JIRO JOB# P5408	WST	06-01-10	CAD	ENG
REV.	DESCRIPTION	BY	DATE	CHKD	APPD



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48" OD x 192" S/S, 740PSIG
HORIZONTAL SEPARATOR PACKAGE
GENERAL ARRANGEMENT

Company: PRODUCTION SERVICES					JOB NO.: 8000353	
Drawn by: WST	Checked by: CAD	Approved by: ENG	Date: 06-01-10	Scale: 1:30	Drawing NO.: CDL-8000353-B-03	Rev.: 2



48" OD x 192" S/S, 740PSIG
HORIZONTAL SEPARATOR PACKAGE
GENERAL ARRANGEMENT

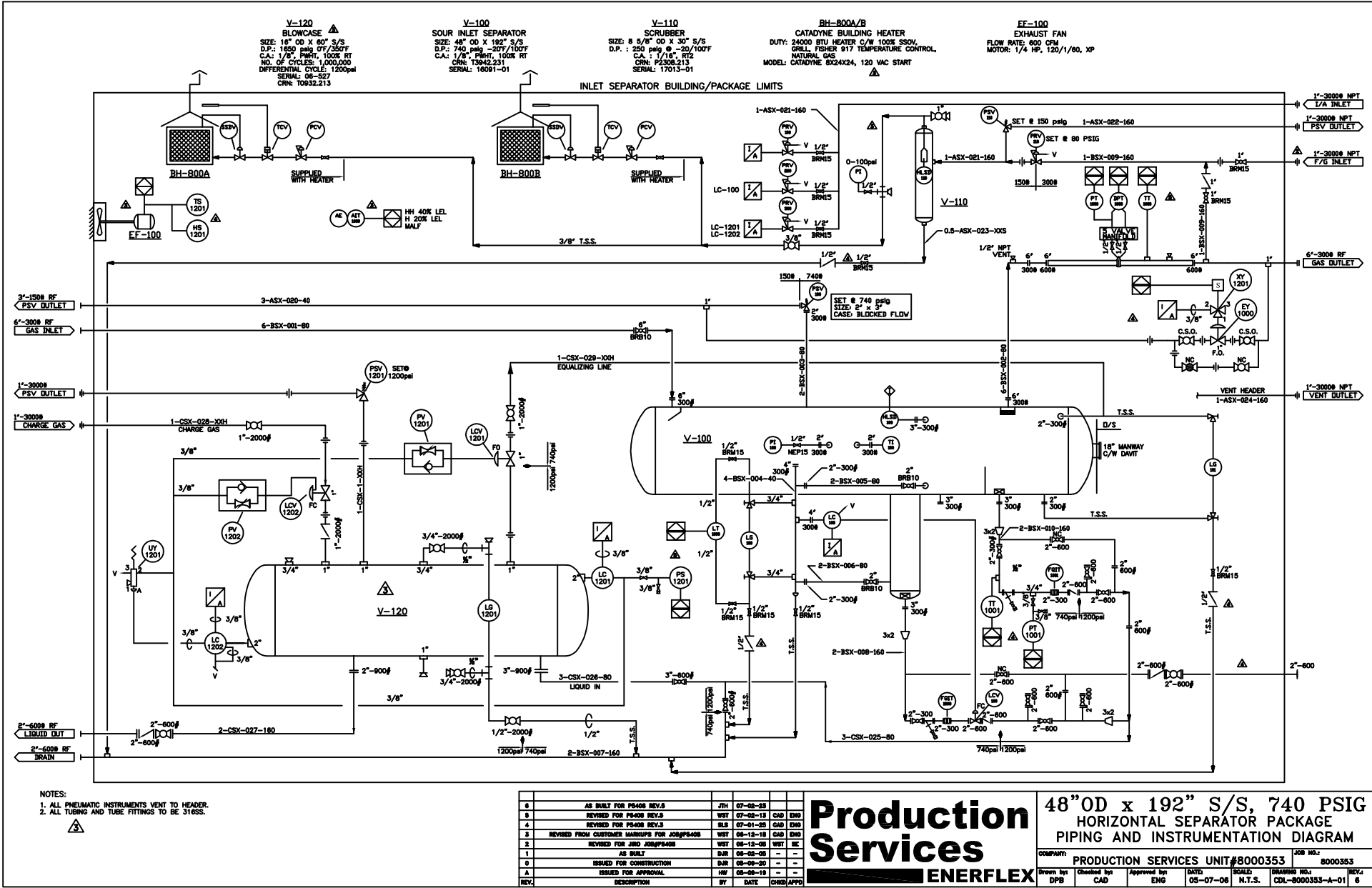
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1	REVISED FOR P5408 REV.3	SLS	07-01-25	CAD	EN
0	AS BUILT FOR JIRO JOB# P5408	WST	06-01-10	CAD	EN
REV.	DESCRIPTION	RV	DATE	CHKD	APR

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Company:					JOB NO.:	
PRODUCTION SERVICES					8000353	
Drawn by:	Checked by:	Approved by:	Date:	Scale:	Drawing NO.:	Rev.:
WST	CAD	ENG	06-01-10	1:30	CDL-8000353-B-04	2

MATERIAL LIST			
ITEM	DESCRIPTION	MAKE	MODEL
LC-1201	LEVEL CONTROLLER	MURPHY	LI3000
LC-1202	LEVEL CONTROLLER	MURPHY	LI3000HD
LCV-1201	LEVEL CONTROL VALVE, 1" NPT, 1/2" PORT F.D.	NORMEAL	SH400TY-08A2
LCV-1202	LEVEL CONTROL VALVE, 1" NPT, 1/2" PORT F.D.	NORMEAL	SH400TY-08A4
LG-1201	LEVEL GAUGE	JERUSALEM	GS-1725A-04A
UV-1201	PRESSURE SWITCH, TYPE CO	AMOT	4050001H2
PV-1201	RESTRICTOR VALVE	SMC	MA6400-402
PV-1202	RESTRICTOR VALVE	SMC	MA6400-402
PSV-1201	PRESSURE SAFETY VALVE, 1"x1" NPT, SET @1200 psig	MINICOR	E 08F12
AT-1101	LEL DETECTION, 54VDC		
SDV-1201	BLOWDOWN VALVE, 1" NPT, 3" PORT, F.D.	NORMEAL	SH400TY-08A2
ZV-1201	SOLINOID	ASCO	EF680002-54
PT-1201	PRESSURE TRANSMITTER, 0-150 PS RANGE	ROSEMOUNT	2061
TT-1201	PRESSURE TRANSMITTER, 4" THERMOWELL	ROSEMOUNT	2144
PS-1201	PRESSURE SWITCH, SET @ 20psig MINIMUM	CCS	88000214



[illegible]