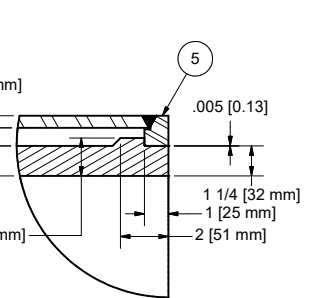
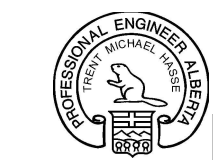


BILL OF MATERIAL			
ITEM	ITEM QTY	PART NUMBER	DESCRIPTION
1	1	A1-18001-230-01 26in elbow	26"-3D XS x 90° FORGED ELBOW, A234 WPB
2	1	A1-18001-230-02 26in pipe - inlet	26" XS x 1679mm PIPE, API 5L Gr.B PSL-2
3	1	A1-18001-230-03 26in pipe - outlet	26" XS x 4435mm PIPE, API 5L Gr.B PSL-2
4	1	A1-18001-230-04 24in dummy leg	24" XS x 1610mm PIPE, API 5L Gr.B PSL-2
5	1	A1-18001-230-05 End ring	Ø660mm x Ø597mm x 1" PLATE, A516 Gr.70N
6	1	A1-18001-230-06 26in CL150 RFWN flange - custom	26" XS CL150 ASME B16.47 Ser.A RFWN FLANGE, A105N
7	1	A1-18001-230-07 24in CL150 RFWN flange	24" XS CLASS 150 ASME B16.5 RFWN FLANGE, A105N
8	1	A1-18001-230-08 HCWI elbow - male	533mm ID x 32mm WALL x 2134mm RADIUS x 45° HCWI ELBOW, ASTM A532 CLASS III TYPE A, PF#743107
9	1	A1-18001-230-09 HCWI elbow - female	533mm ID x 32mm WALL x 2134mm RADIUS x 45° HCWI ELBOW, ASTM A532 CLASS III TYPE A, PF#743106
10	1	A1-18001-230-10 HCWI pipe - inlet	533mm ID x 32mm WALL x 1320mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743104
11	2	A1-18001-230-11 HCWI pipe - center	533mm ID x 32mm WALL x 1473mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743103
12	1	A1-18001-230-12 HCWI pipe - outlet	533mm ID x 32mm WALL x 1473mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743102
13	1	A1-18001-230-13 26in HCWI liner - pup	533mm ID x 32mm WALL x 305mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743101
14	4	A1-18001-230-14 Trap rod	Ø3/8" x 86mm ROUND BAR, A36
15	2	A1-18001-230-15 Lifting lug	450mm x 239mm x 1" PLATE, CSA G40.21 Gr.350 WT Cat.4
16	1	A1-18001-400-00 Pipe shoe - S4-A-2-26	AS PER 074-0000-220-000-026 01
17	1	A1-18001-130-07 2in x 26in CL3000 threadolet	2" x 26" CLASS 3000 THREADOLET, A105N
18	4	ANSI B18.3 - 1/2-13 UNC x 0.5	1/2"-NC x 1/2" SOCKET HEAD SET SCREW, PLATED
19	1	ASME B16.11 Hex Head Plug 2	2"-NPT HEX HEAD PLUG, A105N
20	28	ASME B16.11 Hex Head Plug 3/4	3/4"-NPT HEX HEAD PLUG, A105N
21	4	ASME B16.11 Hex Head Plug 1/2	1/2"-NPT HEX HEAD PLUG, A105N
22	1	Tag mount - 6in	C6x8.2 x 6" [152mm], 44W
23	AS REQ'D	GROUT	SIKA 300PT

REVISION HISTORY		
REV	DATE	DESCRIPTION
0	6/21/19	ISSUED FOR CONSTRUCTION



P.O.#	1462298
P.O. TITLE	CWI PIPING
IOR #	141-3015-66
DOCUMENT #	1462298-A05-0003
SDRL CODE(S)	A05
EQUIPMENT TAG NUMBER(S)	TAG #: SP-K3493 IOR #: 141-3015-66
SUPPLIER DOCUMENT REVIEW	PURCHASER'S REVIEW STATUS, CIRCLE THE APPROPRIATE STATUS: CODE 1 - NO COMMENTS CODE 2 - REVIEWED WITH MINOR COMMENTS CODE 3 - REVIEWED WITH COMMENTS CODE 4 - REJECTED CODE 5 - SUPERSEDED CODE 6 - VOID CODE 7 - FOR INFORMATION PURCHASER REVIEW / REVIEWER SIGNATURE:
DESIGN CODE:	ASME B31.3, Add.2016 EDITION
SERVICE:	BITUMEN FROTH
DESIGN PRESSURE:	1580 kPag (229 psig)
DESIGN TEMPERATURE:	93°C (199°F) -29°C (-20°F)
TEST PRESSURE:	3000 kPag (435 psig)
TEST TEMPERATURE:	15°C (59°F)
TEST DURATION:	10 MINUTES



ALCO INC. APEGGA PERMIT TO PRACTICE No.: P10702	DO NOT SCALE	ALCO Industrial 11650 - 156 Street Edmonton, Alberta, Canada T5M 3T5 Phone: (780) 451-6222 • Fax: (780) 452-4355
DRAWN BY: JDS CHECKED BY: TMH APPROVED: DATE	DATE: 6/21/19 DATE: 6/21/19 DATE:	TITLE: 26" HCWI ELBOW - SPOOL SP-K3493 IOL KEARL PLANT 1 - EXTRACTION
PROJECT No: A1-18001 REFERENCE: 074-2300-080-141-010 01 FILE NAME: A1-18001-230-00 SPOOL SP-K3493.idw	REV: 0 SHEET: 1 OF 1	