



SIF (NPS 28)	
BRANCH IN PLANE	2.01
BRANCH OUT OF PLANE	2.71
RUN IN PLANE	2.81
RUN OUT OF PLANE	1.62

DESIGN CODE: ASME B31.4, 2016

LINE CLASS: USX

SERVICE: COARSE TAILING SANDS

DESIGN PRESSURE: 4447 kPag (645 psig)

DESIGN TEMPERATURE: 93°C (199°F)

TEST PRESSURE: 4892 kPag (710 psig)

TEST TEMPERATURE: 15°C (59°F)

TEST DURATION: 4 HOURS

BILL OF MATERIAL			
ITEM	ITEM QTY	PART NUMBER	DESCRIPTION
1	1	A1-19037-100-01 Trunk shell	106 1/32" x 66 1/2" x 1 1/2" PLATE, A516 Gr.70N, ROLLED TO 35 1/4" OD
2	1	A1-19037-100-02 Branch shell	106 1/32" x 48 15/16" x 1 1/2" PLATE, A516 Gr.70N, ROLLED TO 35 1/4" OD
3	3	A1-19037-100-03 32in pipe	32" x 3/4" WALL x 11 17/32" PIPE, API 5L X52 PSL-2
4	3	A1-19037-100-04 28in CL300 RF flange - custom	28" CLASS 300 B16.47 Ser.A RF&SO FLANGE, A105N, Ø28 7/8" BORE
5	1	A1-19037-100-05 HCWI lateral	26 1/2" ID x 2 1/4" WALL x 45° HCWI LATERAL, 19 1/2" x 51" x 51", ASTM A532 CLASS III TYPE A, LEVEL 2, PF# 503364
6	3	A1-19037-100-06 HCWI liner - pup	26 1/2" ID x 1 1/4" WALL x 12 1/2" HCWI LINER, ASTM A532 CLASS III TYPE A, LEVEL 2, PF# 503363
7	12	A1-19037-100-07 Trap rod	Ø3/8" x 4 7/16" ROUND BAR, A36
8	1	A1-19037-100-08 2in x 36in threadolet	2" x 36" CLASS 3000 THREADOLET, A105N
9	12	ANSI B18.3 - 1/2-13 UNC x 0.5	1/2"-NC x 1/2" FLAT POINT SOCKET HEAD SET SCREW, PLATED
10	1	ASME B16.11 Hex Head Plug 2	2"-NPT HEX HEAD PLUG, A105N
11	9	ASME B16.11 Hex Head Plug 3/4	3/4"-NPT HEX HEAD PLUG, A105N
12	12	ASME B16.11 Hex Head Plug 1/2	1/2"-NPT HEX HEAD PLUG, A105N
13	2	Tag mount - 6in	C6x8.2 x 6" [152mm], 44W

REVISION HISTORY			
REV	DATE	DESCRIPTION	INITIALS
2	2/24/20	ADDED LINE CLASS, ADDED NOTES	GVD
1	2/10/20	32IN PIPE LENGTH WAS 10 17/32". MATERIAL ADDED FOR MACHINING	KLS
0	1/16/20	ISSUED FOR CONSTRUCTION, ADD PF NUMBERS TO DESCRIPTIONS	JDS
D	1/10/20	UPDATED WELD SYMBOL, UPDATED NOTE, ADDED SIF TABLE	GVD
C	12/18/19	CHANGED HYDRO TO 4 HOURS	BEM
B	11/25/19	32" PIPE WAS PSL-1, ADDED "LEVEL 2" TO HCWI DESCRIPTIONS, UPDATED DESIGN DATA, ADDED TAG MOUNTS	GVD
A	11/14/19	ISSUED FOR REVIEW	GVD

ALL EXTERIOR SURFACES TO BE PAINTED WITH KRYLON RUST INHIBITING ENAMEL.

REFER TO DRAWING A1-00001-100-01 FOR ALL GENERAL NOTES AND SPECIFICATIONS

EST. WT. 13,020 lbs.

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. BREAK ALL SHARP EDGES 0.1" OR GRAY. RADI 0.1" I.R. 0.10. INTERPRET DWG PER ANSI Y14.5 STANDARD.

TOLERANCES:  
X = ± 1/16  
X.X = ± .030  
X.XX = ± .015  
X.XXX = ± .005  
ANGLES = ± 1/2°  
12.5° FINISH ON ALL MACHINED SURFACES

DO NOT SCALE  
DRAWN BY: GVD  
DATE: 11/14/19  
CHECKED BY: DATE  
APPROVED: DATE  
MATERIAL & HEAT TREAT

ALCO Industrial

2103 - 8 Street,  
Nisku, Alberta, Canada T9E 7Y9  
Phone: (780) 451-6222 • Fax: (780) 452-4355

TITLE

28" x 28" x 45° HCWI LATERAL

CNUL ALBIAN

PROJECT No.

A1-19037

REFERENCE

3-2-0218 Sht.4 OF 7

REV.

2

FILE NAME

A1-19037-100-00 28in lateral.idw

SHEET

1 OF 1