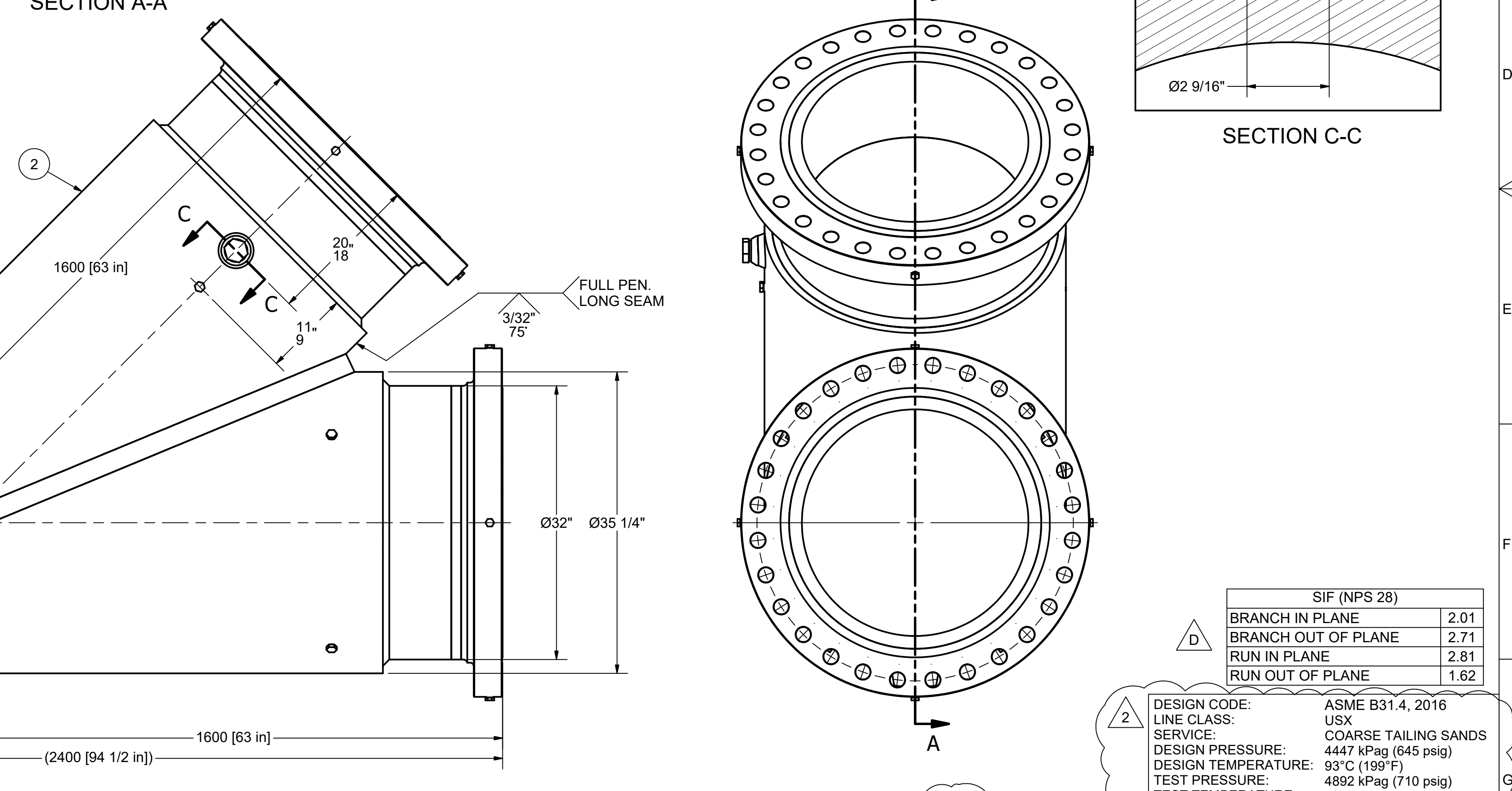


BILL OF MATERIAL			
ITEM	ITEM QTY	PART NUMBER	DESCRIPTION
1	1	A1-19037-100-01 Trunk shell	106 1/32" x 66 1/2" x 1 1/2" PLATE, A516 Gr.70N, ROLLED TO 35 1/4" OD
2	1	A1-19037-100-02 Branch shell	106 1/32" x 48 15/16" x 1 1/2" PLATE, A516 Gr.70N, ROLLED TO 35 1/4" OD
3	3	A1-19037-100-03 32in pipe	32" x 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



SECTION C-C: A cross-sectional view showing a full penetration weld. Dimensions include a diameter of Ø2 9/16" and a full penetration weld.

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

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

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.
TOLERANCES:
X = ± 1/16
XX = ± 0.00
XXX = ± 0.015
XXXX = ± 0.005
ANGLES ± 1/2°
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
FILE NAME: A1-19037-100-00 28in lateral.idw
REV. 2
SHEET 1 OF 1