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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:	30 MINUTES

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 10 17/32" PIPE, API 5L X52 PSL-2
4	3	A1-19037-100-04 28in CL.300 RF flange - custom	28" CLASS 300 B16.47 Ser.A FFSO 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#(TBD)
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#(TBD)
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
D	1/10/20	UPDATED WELD SYMBOL, UPDATED NOTE, ADDED SIF TABLE
C	12/18/19	CHANGED HYDRO TO 4 HOURS
B	11/25/19	32" PIPE WAS PSL-1, ADDED "LEVEL 2" TO HCWI DESCRIPTIONS, UPDATED DESIGN DATA, ADDED TAG MOUNTS
A	11/14/19	ISSUED FOR REVIEW

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

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION. ANY REUSE OR REPRODUCTION OF THIS INFORMATION WITHOUT WRITTEN PERMISSION FROM ALC OR ITS DIVISIONS.	EST. WT. 13,020 lbs.		DO NOT SCALE	
	UNLESS OTHERWISE SPECIFIED		DRAWN BY: GVD	DATE: 11/25/19
	ALL DIMENSIONS ARE IN INCHES. BREAK ALL SHARP EDGES 0.1-0.03R OR .45- RADI		CHECKED BY:	DATE:
	5.0 11.0 0.10 INTERPRET DWG PER ANSI Y14.5 STANDARD.		APPROVED:	DATE:
	TOLERANCES		MATERIAL & HEAT TREAT	
	X = ± 1/16			
	X.X = ± .030			
	X.XX = ± .015			
	X.XXX = ± .005			
	ANGLES: ± 1/2°			
125/ FINISH ON ALL MACHINED SURFACES				

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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. D  
SHEET 1 OF 1

