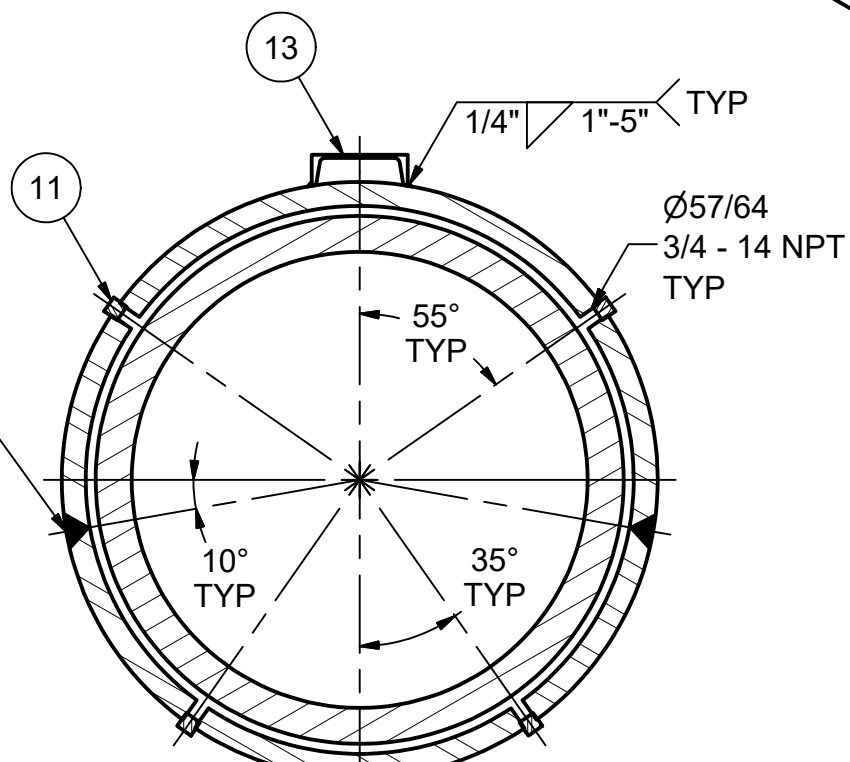
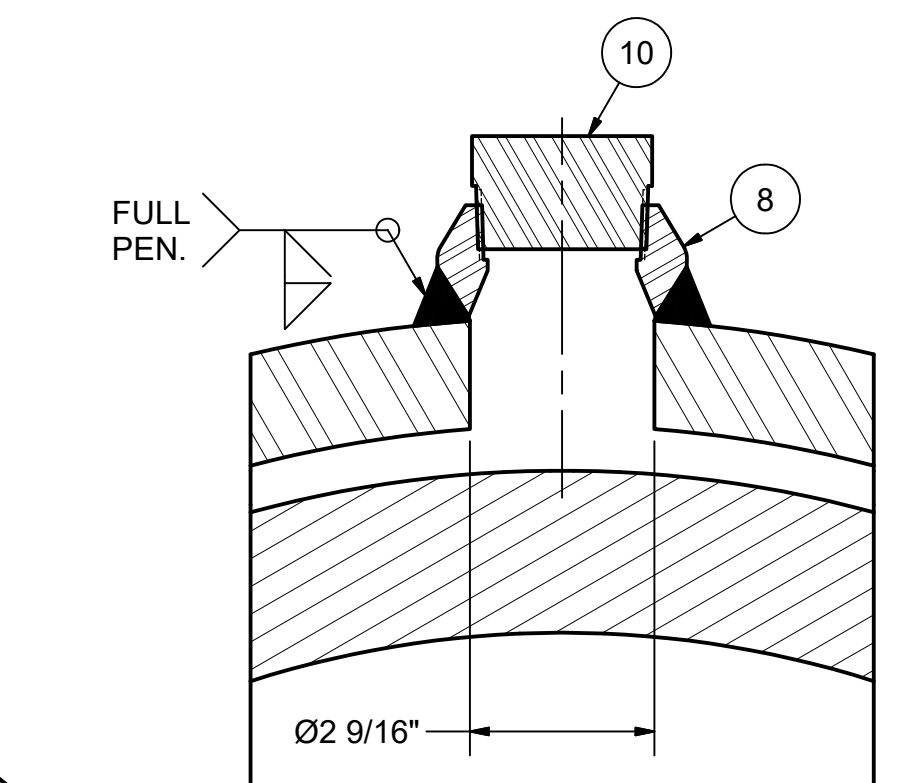


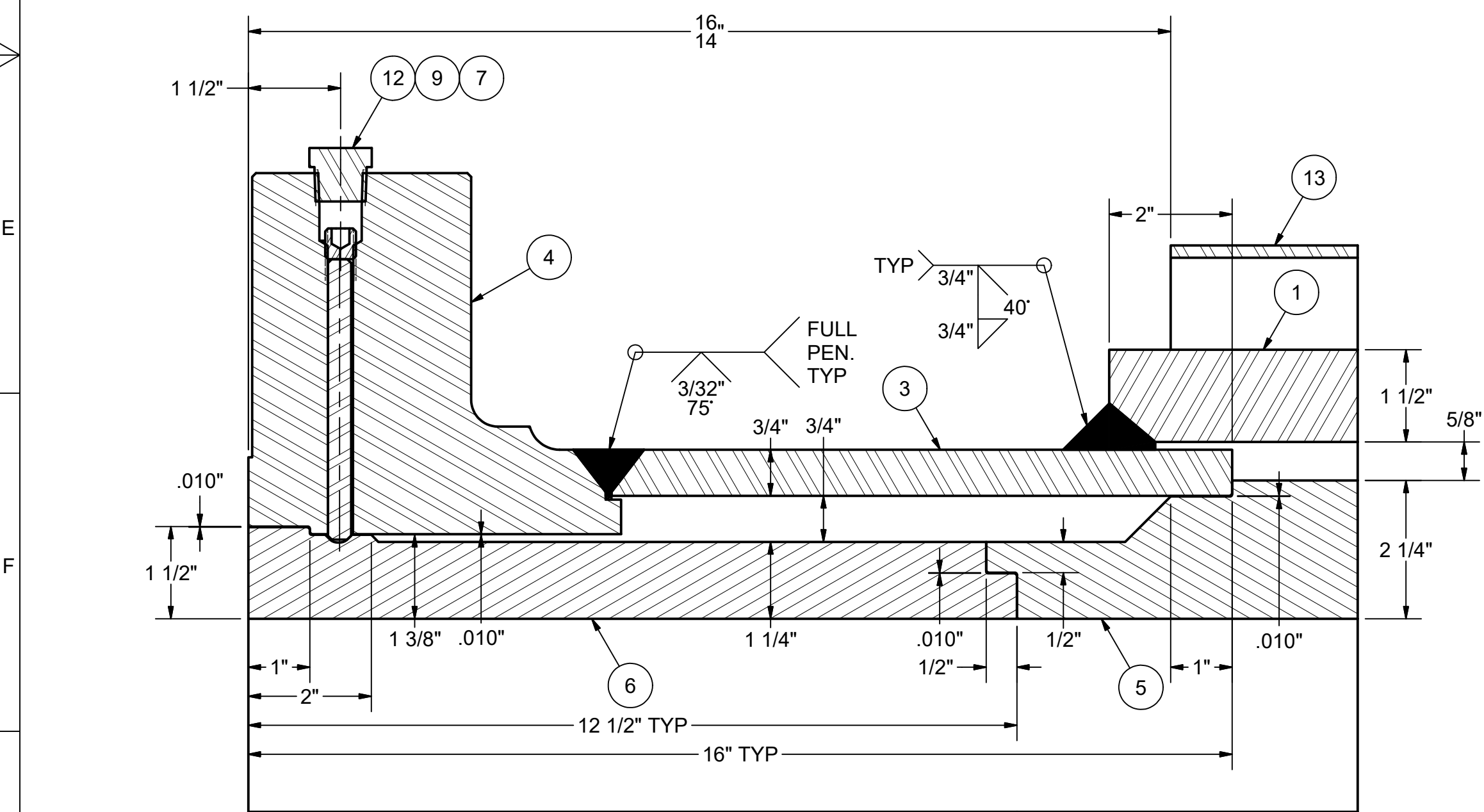
SECTION A-A



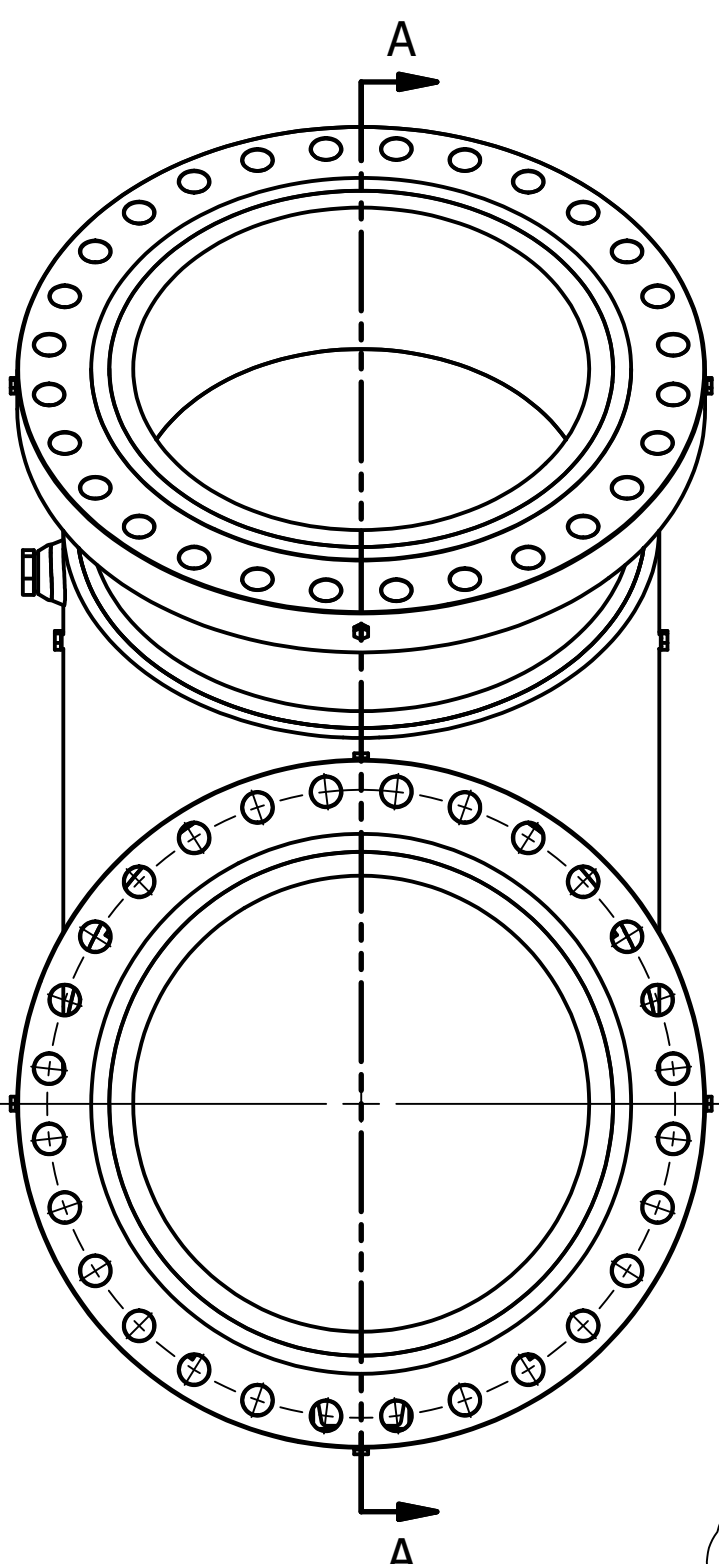
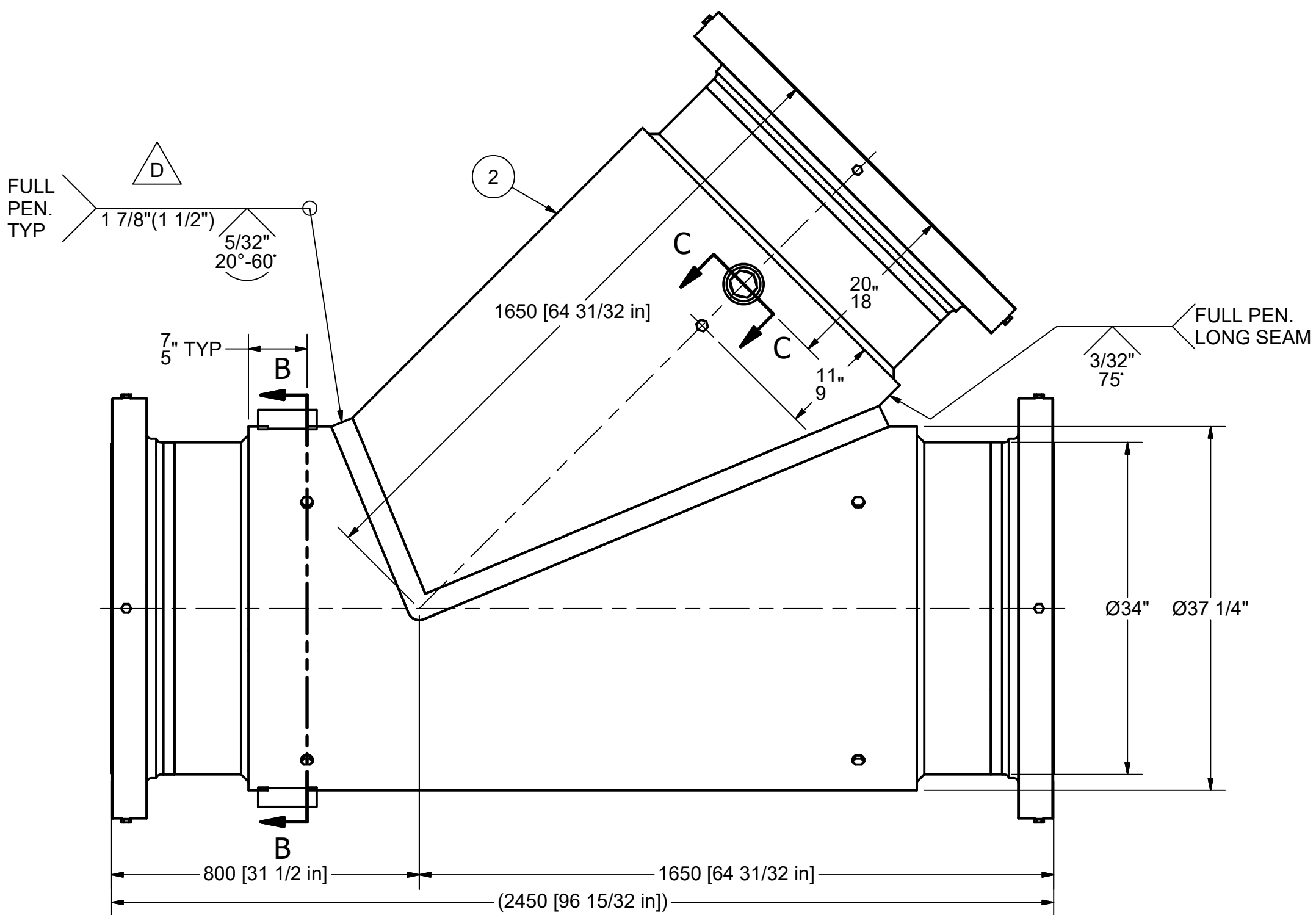
SECTION B-B



SECTION C-C



DETAIL D
TYP



BILL OF MATERIAL			
ITEM	ITEM QTY	PART NUMBER	DESCRIPTION
1	1	A1-19037-200-01 Trunk shell	112 5/16" x 68 15/32" x 1 1/2" PLATE, A516 Gr.70N, ROLLED TO 37 1/4" OD
2	1	A1-19037-200-02 Branch shell	112 5/16" x 50 29/32" x 1 1/2" PLATE, A516 Gr.70N, ROLLED TO 37 1/4" OD
3	3	A1-19037-200-03 34in pipe	34" x 3/4" WALL x 11 3/32" PIPE, API 5L X52 PSL-2
4	3	A1-19037-200-04 30in CL.300 RF flange - custom	30" CLASS 300 B16.47 Ser.A RF&SO FLANGE, A105N, Ø31 1/4" BORE
5	1	A1-19037-200-05 HCWI lateral	28 1/2" ID x 2 1/4" WALL x 45° HCWI LATERAL, 19 1/2" x 52 31/32" x 52 31/32", ASTM A532 CLASS III TYPE A, LEVEL 2, PF# 503369
6	3	A1-19037-200-06 HCWI liner - pup	28 1/2" ID x 1 1/4" WALL x 12 1/2" HCWI LINER, ASTM A532 CLASS III TYPE A, LEVEL 2, PF# 503368
7	12	A1-19037-200-07 Trap rod	Ø3/8" x 4 9/16" ROUND BAR, A36
8	1	A1-19037-200-08 2in x 38in 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	10	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

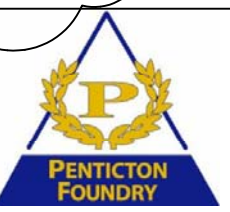
REVISION HISTORY			
REV	DATE	DESCRIPTION	INITIALS
2	2/24/20	ADDED LINE CLASS, ADDED NOTES	GVD
1	2/10/20	34in PIPE LENGTH WAS 10 3/32in, MATERIAL ADDED FOR MACHINING	KLS
0	1/16/20	ISSUED FOR CONSTRUCTION, ADD PF NUMBERS TO PART DESCRIPTIONS, ITEM 1 WAS 69 15/32" LG DESCRIPTION	JDS
D	1/10/20	UPDATED WELD SYMBOL, UPDATED NOTE, ADDED SIF TABLE	GVD
C	12/18/19	CHANGED HYDRO TO 4 HOURS	BEM
B	11/25/19	34" 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

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

SIF (NPS 30)	
BRANCH IN PLANE	2.34
BRANCH OUT OF PLANE	2.86
RUN IN PLANE	2.37
RUN OUT OF PLANE	1.10

DESIGN CODE: ASME B31.4, 2016
LINE CLASS: U5X
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



ALCO Industrial	
2103 - 8 Street, Nisku, Alberta, Canada T9E 7Y9 Phone: (780) 451-6222 • Fax: (780) 452-4355	
TITLE: 30" x 30" x 45° HCWI LATERAL CNUL ALBIAN	
PROJECT No: A1-19037	REFERENCE: 3-2-0218 Sht 5 OF 7
FILE NAME: A1-19037-200-00 30in lateral.idw	REV: 2 SHEET 1 OF 1