

# SUPPLIER DOCUMENT COVER SHEET

**MCDERMOTT**

**233124 PSC Modifications**  
**Imperial Oil Resources Limited**



<b>Supplier Name:</b>	<b>PENTICTON FOUNDRY LTD.</b>
<b>Purchase Order Title:</b>	<b>K2 CWI PIPING</b>
<b>Equipment / Tag Number(s):</b>	<b>SP-K3492</b>
<b>Supplier Document No:</b>	<b>1397868-A05-0009</b>

## Supplier's Revision Record

3	Jan. 15, 2019	For Review	Penticton		
2	Nov. 15, 2018	For Review	Penticton		
1	Oct. 17, 2018	For Review	Penticton		
0	Aug. 02, 2018	For Review	Penticton		
<b>Rev.</b>	<b>Date</b>	<b>Issue</b>	<b>By</b>	<b>Checked</b>	<b>Approved</b>

## Project Document Number

<b>Project No.</b>	<b>Purchase Order No.</b>		<b>Seq. No.</b>
233124	1397868	- A05 -	0009

**DOCUMENT TITLE: SP-K3492**

## SUPPLIER DOCUMENT REVIEW

Purchaser's review of Supplier's documents does not relieve Supplier of the responsibility for correctness under the Purchase Order. Permission to proceed does not constitute acceptance of design, detail and calculations, test methods or materials developed or selected by the Supplier and does not relieve the Supplier from full compliance with the Purchase Order or any other obligations, nor detract from any of the Purchaser's rights.

Purchaser's review status as per tick the appropriate box:			Purchasers review / reviewer	
<input checked="" type="checkbox"/>	<b>CODE 1:</b>	No Comments	<b>Date</b>	<b>Signature</b>
<input type="checkbox"/>	<b>CODE 2:</b>	Reviewed with Minor Comments	Jan 23/19	Mike
<input type="checkbox"/>	<b>CODE 3:</b>	Reviewed with Comments		
<input type="checkbox"/>	<b>CODE 4:</b>	Rejected		
<input type="checkbox"/>	<b>CODE 5:</b>	Superseded		
<input type="checkbox"/>	<b>CODE 6:</b>	Void		
<input type="checkbox"/>	<b>CODE 7:</b>	For Information		

### IMPORTANT

*Should the Supplier consider that any comments made by the Purchaser change the Scope of Supply, the Supplier shall advise the price and delivery implications of such changes within five working days of receipt. The Supplier must not incorporate such changes without prior approval of the Purchaser of the revised price and/or delivery period. RETROSPECTIVE CLAIMS WILL NOT BE CONSIDERED.*

2 - Correct and resubmit. Proceed  
Correct and need not submit for review again.  
Provide P.Eng stamped drawing

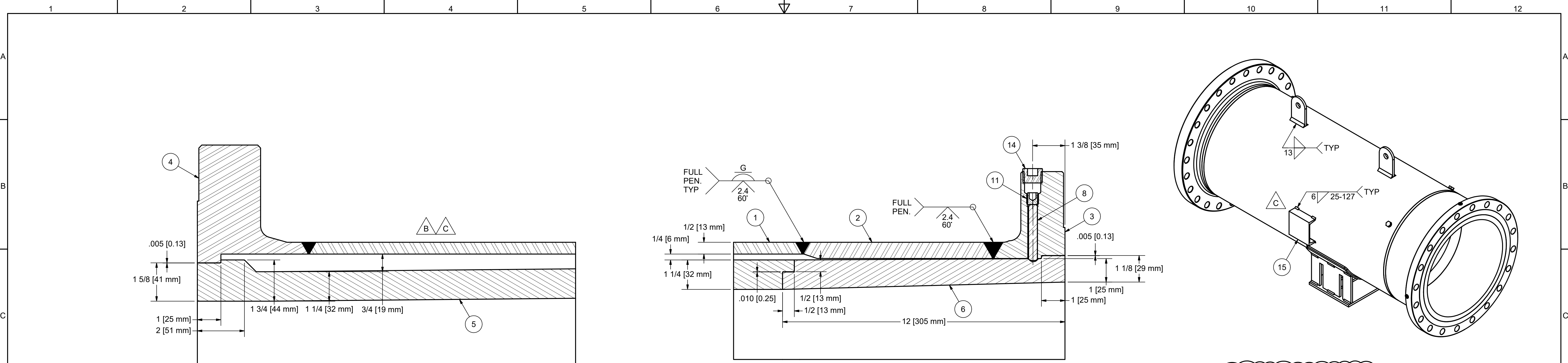
Mr Narjeet Sindhu - ExxonMobil  
Review 3  
1 - Approved  
Ms May Liu - WorleyParsons

Ms Rebecca van Hoeve - CBI  
Jan 29, 2019, 1:25 PM MST

## Supplier - Purchaser Interface Data Freeze

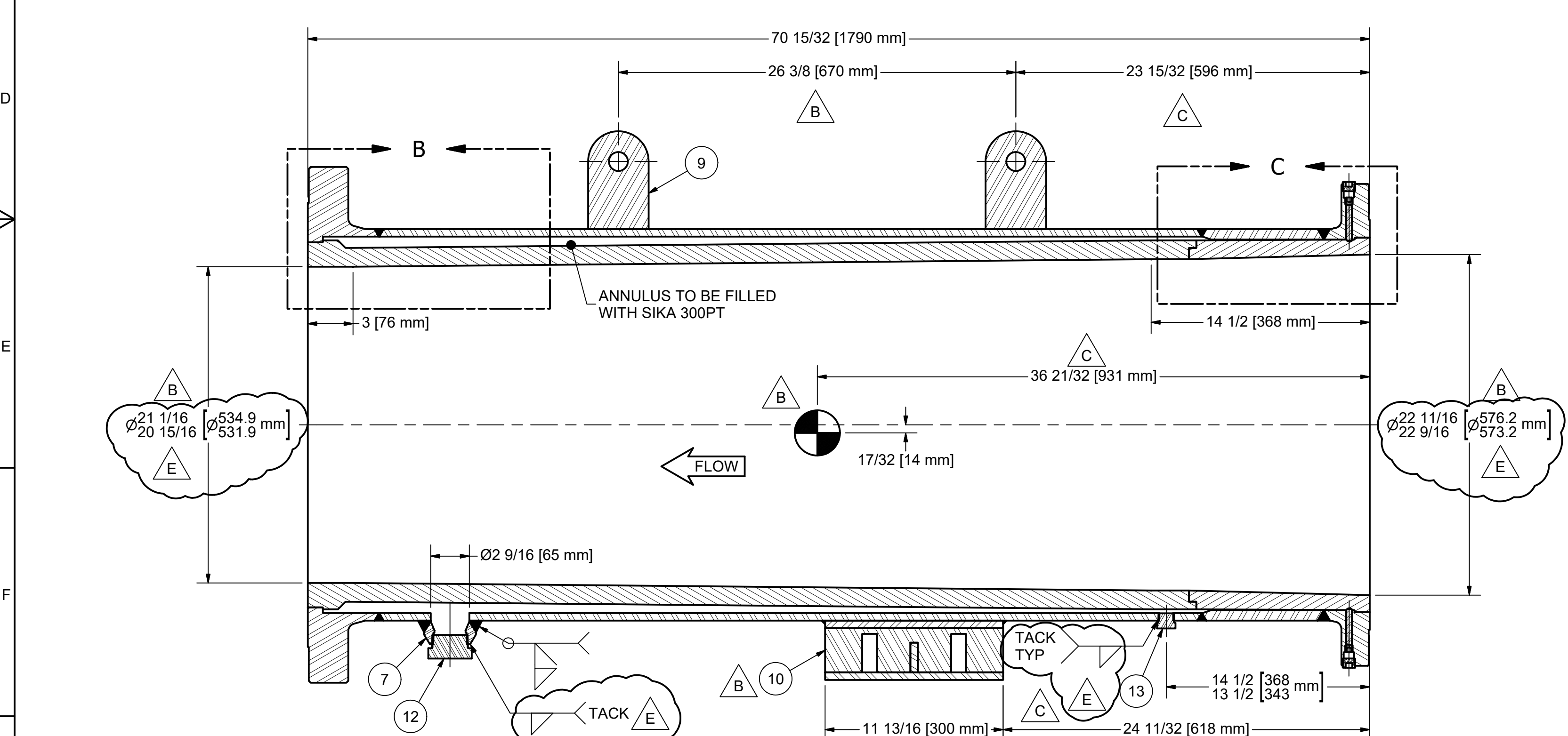
<b>MCDERMOTT Name:</b>	<b>Signature:</b>	<b>Date:</b>
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The document consists of this front sheet plus **1** page.

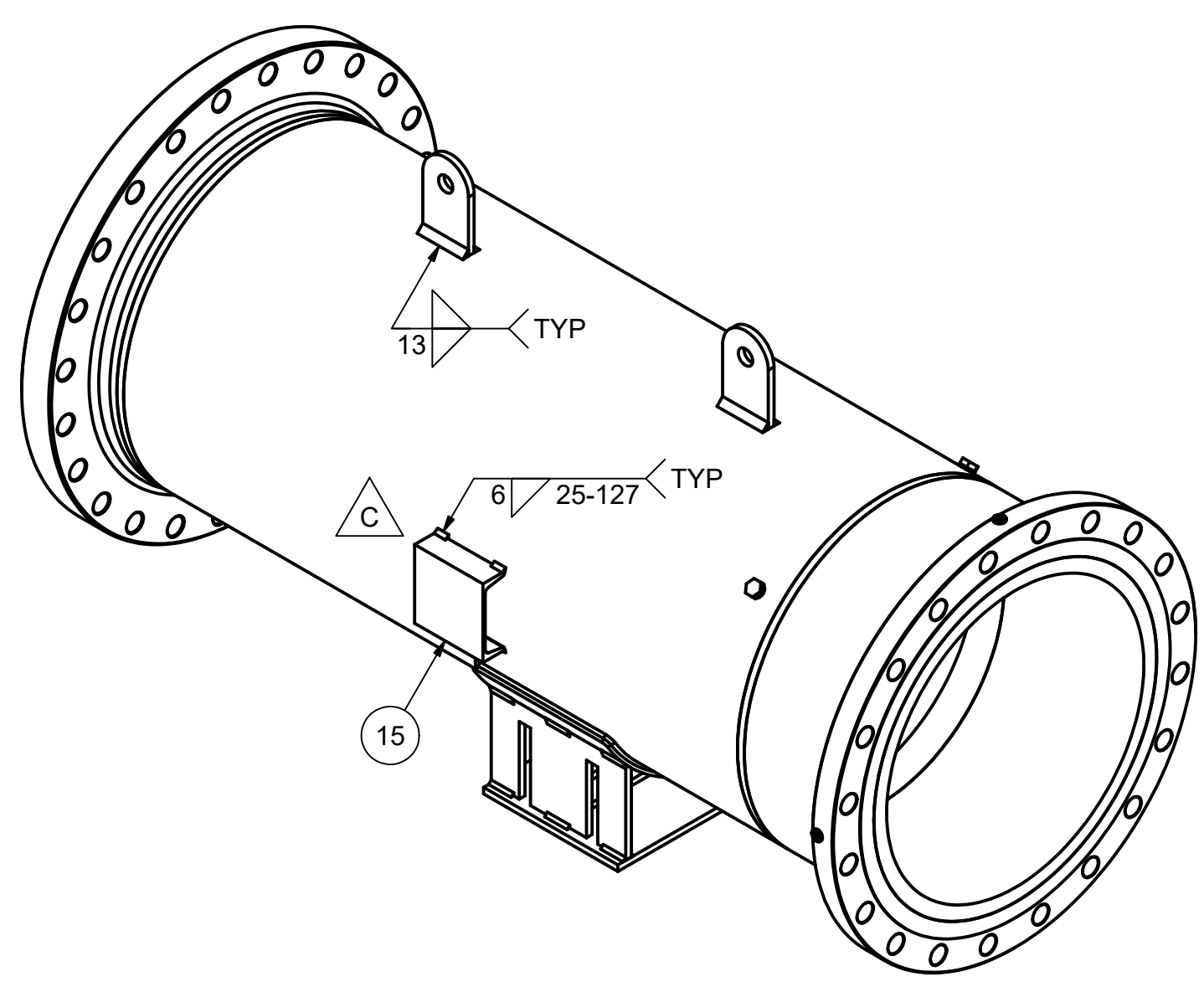
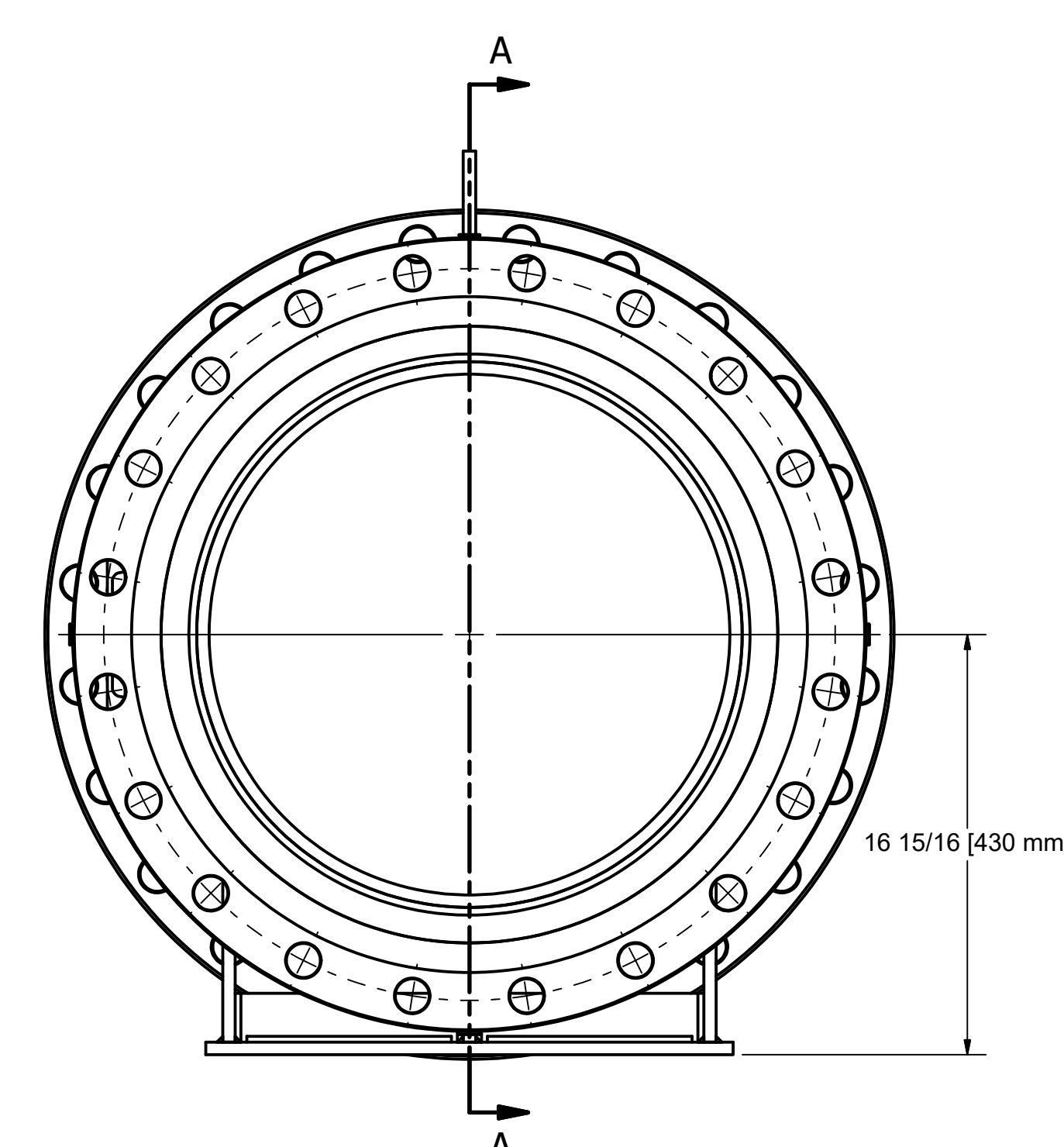


DETAIL B

DETAIL C



SECTION A-A



ITEM 9 - LIFTING LUG

P.O.#	1397868
P.O. TITLE	MISC - K2 CWI PIPING
IOR #	141-3015-49
DOCUMENT #	1397868-A05-0009
SDRL CODE(S)	A05
EQUIPMENT TAG NUMBER(S)	TAG #: SP-K3492 IOR # 141-3015-49
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: Ms Rebecca van Hoeve - CBI DATE: Jan 29, 2019, 1:25 PM MST	

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

ITEM		ITEM QTY	PART NUMBER	DESCRIPTION
G	1	1	A1-18001-100-01 26in pipe	26" XS x 1384mm PIPE, API 5L Gr.B PSL-2
	2	1	A1-18001-100-02 26in pipe	26" x 17.5mm WALL x 203mm PIPE, API 5L Gr.B PSL-2
	3	1	A1-18001-100-03 24in CL150 RF flange - custom	24" CLASS 150 ASME B16.5 RF SO FLANGE, A105N, Ø24 5/8" BORE
	4	1	A1-18001-100-04 26in CL150 RF flange - custom	26" CL150 ASME B16.47 Ser.A RFWN FLANGE, A105N, Ø24 1/4" BORE
	5	1	A1-18001-100-05 HCWI reducer	575mm ID x 24mm WALL x 559mm ID x 32mm WALL x 1498mm HCWI REDUCER, ASTM A532 CLASS III TYPE A, PF#743099
	6	1	A1-18001-100-06 24in HCWI liner - pup	575mm ID x 24mm WALL x 559 ID x 32mm WALL x 305mm HCWI LINER, ASTM A532 CLASS III TYPE A, PF#743098
	7	1	A1-18001-100-07 2in x 26in CL3000 threadolet	2" x 26" CLASS 3000 THREADOLET, A105N
	8	4	A1-18001-100-08 Trap rod	Ø3/8" x 60mm ROUND BAR, A36
	9	2	A1-18001-100-09 Lifting lug	165mm x 102mm x 1/2" PLATE, A516 Gr.60 OR EQUIV.
	10	1	A1-18001-410-00 Pipe shoe - S4-A-1-26	AS PER 074-0000-220-000-026 01
	11	4	ANSI B18.3 - 1/2-13 UNC x 0.5	1/2"-NC x 1/2" SOCKET HEAD SET SCREW, PLATED
	12	1	ASME B16.11 Hex Head Plug 2	2"-NPT HEX HEAD PLUG, A105N
	13	3	ASME B16.11 Hex Head Plug 3/4	3/4"-NPT HEX HEAD PLUG, A105N
	14	4	Parker Countersunk Hex-Head Plug 219P 219P-8	1/2"-NPT SOCKET HEAD PLUG, A105N
	15	1	Tag mount - 6in	C6x8.2 x 6" [152mm], 44W
	16	AS REQ'D	GROUT	SIKA 300PT

REVISION HISTORY		
REV	DATE	DESCRIPTION
E	1/15/19	UPDATED PO TABLE, UPDATED BoM DESCRIPTIONS, ADDED WELD NOTES, REVISED LIFTING LUG, ADDED LIFTING LUG DETAIL, BORES TOLERANCED
D	11/20/18	CORRECTED BoM
C	11/15/18	ADDED GROUT TO BoM, CORRECTED PIPE SHOE VERSION, REMOVED SECOND STUB PIPE, CORRECTED BoM, UPDATED CofG & LUG POSITIONS, ADDED TAG MOUNT, UPDATED GENERAL NOTES DRAWING NUMBER
B	10/17/18	CONVERTED TO CONCENTRIC LAYOUT, ADDED SECOND STUB PIPE, ADDED LIFTING LUGS, ADDED PIPE SHOE, ADDED CofG, CORRECTED IDs, ADDED MDMT
A	8/02/18	ISSUED FOR REVIEW

REFER TO DRAWING A1-00001-100-04 FOR ALL GENERAL NOTES AND SPECIFICATIONS

EST. WT. 3,495 lbs.	DO NOT SCALE	ALCO Industrial 11650 - 156 Street, Edmonton, Alberta, Canada T6M 3T5 Phone: (780) 451-6222 • Fax: (780) 452-4355
OTHERWISE SPECIFIED UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. BREAK ALL SHARP EDGES 0.1" OR GRAD. RADI 0.1" I.R. 0.10. INTERPRET DWG PER ANSI Y14.5 STANDARD.	DRAWN BY: GVD DATE: 1/15/19 CHECKED BY: DATE APPROVED: DATE MATERIAL & HEAT TREAT	
TOLERANCES: X.XX = ±.118 X.XX = ±.050 X.XXX = ±.015 X.XXX = ±.005 ANGLES = ±1/2° 125/ FINISH ON ALL MACHINED SURFACES	TITLE 24" x 26" HCWI REDUCER - SPOOL SP-K3492 IOL KEARL PLANT 2 - EXTRACTION	PROJECT No. A1-18001 REFERENCE 074-2300-080-141-009 01 FILE NAME A1-18001-100-00 Spool SP-K3492.idw
		REV. E SHEET 1 OF 1