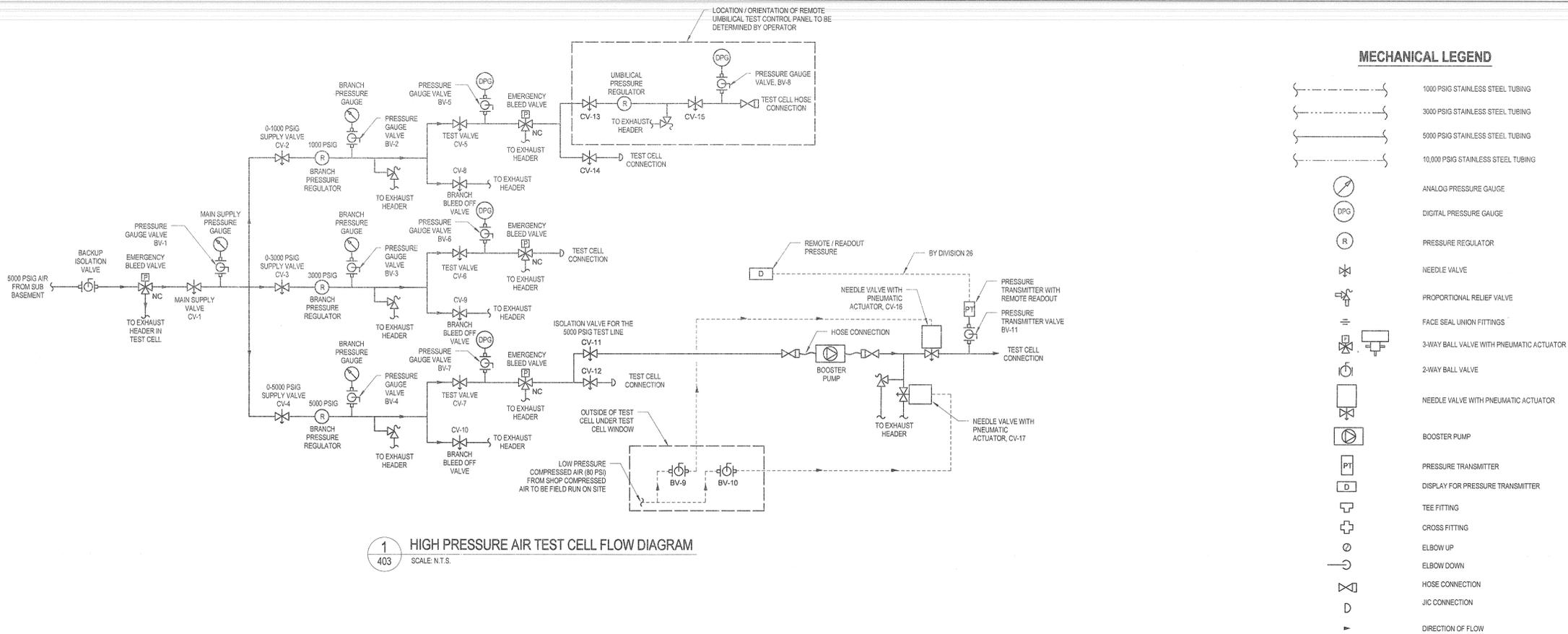
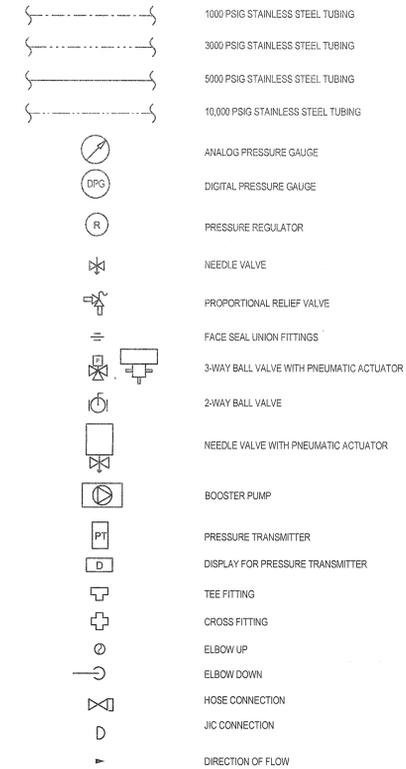


KEY PLAN: N.T.S.



1 HIGH PRESSURE AIR TEST CELL FLOW DIAGRAM
SCALE: N.T.S.

MECHANICAL LEGEND



BILL OF MATERIALS

ITEM	TYPE	MANUFACTURER	PART NUMBER	SIZE/CONNECTION	QUANTITY	REMARKS
1	6 mm (1/4" OD FRACTIONAL)	PARKER	SST04X.049-20 FOOT	1/4", 0.049" WALL THICKNESS	230 ft	SEE NOTE 2
2	6 mm (1/4" OD FRACTIONAL)	PARKER	SST04X.068-20 FOOT	1/4", 0.068" WALL THICKNESS	25 ft	SEE NOTE 2
3	MOUNTING RAIL (FOR TUBING SUPPORTS)	PARKER	R	AS REQUIRED FOR SITE CONDITIONS	12	SEE NOTE 2
4	CLAMP HALVES (FOR TUBING SUPPORTS)	PARKER	1064A-PP	1/4"	80	SEE NOTE 2
5	COVER PLATE (FOR TUBING SUPPORTS)	PARKER	CP-1A	N/A	80	SEE NOTE 2
6	HEXAGON HEAD BOLT FOR COVER PLATE (FOR TUBING SUPPORTS)	PARKER	BXP-1	N/A	160	SEE NOTE 2
7	HEXAGON RAIL NUT (FOR TUBING SUPPORTS)	PARKER	HRN	N/A	160	SEE NOTE 2
8	UNION	PARKER	4HLO-SS	1/4"	20	SEE NOTE 2
9	MECHANICALLY ATTACHABLE SLEEVE	PARKER	4TPL-SS	1/4"	140	SEE NOTE 2
10	TUBE NUT	PARKER	4BL-SS	1/4"	140	SEE NOTE 2
11	COPPER TYPE L OR M COMPLETE WITH FLARED FITTINGS	N/A	N/A	1/4"	AS REQ'D	SEE NOTE 2
12	UNION TEE	PARKER	4JLO-SS	1/4"	13	SEE NOTE 2
13	UNION CROSS	PARKER	4KLO-SS	1/4"	3	SEE NOTE 2
14	MALE PIPE CONNECTOR	PARKER	4-F4LO-SS	1/4"	70	SEE NOTE 2
15	FEMALE PIPE CONNECTOR	PARKER	4-F4GLO-S	1/4"	12	SEE NOTE 2
16	U SERIES NEEDLE VALVE	PARKER	4F-U12LR-T-SS-QC311	1/4" FNPT CONNECTIONS	16	SEE NOTE 2
17	APR86 SERIES REGULATOR (2000 PSIG RANGE)	PARKER	APR86S2P2XX4	1/4" FNPT CONNECTIONS	2	SEE NOTE 2
18	APR86 SERIES REGULATOR (8000 PSIG RANGE)	PARKER	APR86S2P4XX4	1/4" FNPT CONNECTIONS	2	SEE NOTE 2
19	RH4 SERIES RELIEF VALVE (1250 PSIG SET PRESSURE)	PARKER	4MMF-RH4A-BN-T-SS-K3	INLET, 1/4" MNPT & OUTLET, 1/4" FNPT	2	SEE NOTE 2
20	RH4 SERIES RELIEF VALVE (3500 PSIG SET PRESSURE)	PARKER	4MMF-RH4A-BN-T-SS-K6	INLET, 1/4" MNPT & OUTLET, 1/4" FNPT	1	SEE NOTE 2
21	RH4 SERIES RELIEF VALVE (6500 PSIG SET PRESSURE)	PARKER	4MMF-RH4A-BN-T-SS-K8	INLET, 1/4" MNPT & OUTLET, 1/4" FNPT	1	SEE NOTE 2
22	BRASS BALL VALVE (150 PSIG RANGE)	PARKER	V50P-04	1/4" FNPT PORTS	3	SEE NOTE 2
23	3-WAY HB SERIES BALL VALVE W/ PNEUMATIC ACTUATOR (6,000 PSIG RANGE)	PARKER	4F-HB4KK-BN-SSP-ACX82-3-1X	1/4" FNPT	4	SEE NOTE 2
24	2-WAY HB SERIES BALL VALVE (10,000 PSIG RANGE)	PARKER	4F-HB4LKR-BN-SSP	1/4" FNPT	2	SEE NOTE 2
25	2-WAY HB SERIES BALL VALVE (6,000 PSIG RANGE)	PARKER	4F-HB4LK-BN-SSP	1/4" FNPT	8	SEE NOTE 2
26	ANALOG PRESSURE GAUGE (1500 PSIG RANGE)	ASHCROFT	45-1009-SL-02D-1500#	1/4" MNPT	1	SEE NOTE 2
27	ANALOG PRESSURE GAUGE (5000 PSIG RANGE)	ASHCROFT	45-1009-SL-02D-5000#	1/4" MNPT	1	SEE NOTE 2
28	ANALOG PRESSURE GAUGE (7500 PSIG RANGE)	ASHCROFT	45-1009-SL-02D-7500#	1/4" MNPT	2	SEE NOTE 2
29	DIGITAL PRESSURE GAUGE (1000 PSIG RANGE)	ASHCROFT	45-2274-SD-02E-XBL-1000#	1/4" MNPT	2	SEE NOTE 2
30	DIGITAL PRESSURE GAUGE (3000 PSIG RANGE)	ASHCROFT	45-2274-SD-02E-XBL-3000#	1/4" MNPT	1	SEE NOTE 2
31	DIGITAL PRESSURE GAUGE (5000 PSIG RANGE)	ASHCROFT	45-2274-SD-02E-XBL-5000#	1/4" MNPT	1	SEE NOTE 2
32	PRESSURE TRANSMITTER (10,000 PSIG RANGE)	SIEMENS	7MF1567-3EA00-7EA1	1/4"	1	SEE NOTE 2
33	SITRANS RD300 (DISPLAY)	SIEMENS	7ML5744-1AA00-0A	N/A	1	SEE NOTE 2
34	NUMBER NOT USED					
35	NUMBER NOT USED					
36	NUMBER NOT USED					
37	A-LOK FEMALE CONNECTOR	PARKER	4FSC4N	1/4"	2	SEE NOTE 2
38	A-LOK MALE CONNECTOR	PARKER	4MSC4N	1/4"	6	SEE NOTE 2
39	A-LOK UNION TEE	PARKER	4ET4-316	1/4"	3	SEE NOTE 2
40	JIC CONNECTION	N/A	N/A	AS REQ'D	AS REQ'D	SEE NOTE 2
41	19 mm (3/4" OD FRACTIONAL)	PARKER	SST12X.049-20 FOOT	3/4", 0.049" WALL THICKNESS	5	SEE NOTE 2
42	NPT ADAPTERS	PARKER	15M49NG	MALE END 1/4" NPT, FEMALE END SF562CX	1	SEE NOTE 2
43	RVS SERIES RELIEF VALVE	PARKER	10RVS9072	INLET SF562CX, OUTLET 3/4" FNPT	1	SEE NOTE 2
44	MALE PIPE CONNECTOR	PARKER	12-FLO-SS	3/4"	1	SEE NOTE 2
45	NEEDLE VALVE W/ PNEUMATIC ACTUATOR (15,000 PSI RANGE)	PARKER	19P4XXX-OIS	1/4" FNPT PORTS	2	SEE NOTE 2
46	A-LOK UNION	PARKER	4SC4-316	1/4"	1	SEE NOTE 2

GENERAL NOTES

- BILL OF MATERIALS LIST ON DRAWING 403 IS TO BE USED AS A GUIDE ONLY. ALLOW EXTRA FOR CUTTING, WELDING AND BENDING. CONTRACTOR TO VERIFY QUANTITIES AND FITTINGS REQUIRED PRIOR TO INSTALLATION. THE BILL OF MATERIALS INCLUDES COMPONENTS ON DWG 401, 402 AND 403.
- CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF MECHANICAL WORK UNLESS NOTED OTHERWISE. REFINISH AFFECTED SURFACES TO MATCH ADJACENT FINISH.
- NO WELDING SHALL BE DONE ON STAINLESS STEEL TUBING.
- CONTRACTOR TO CONFIRM QUANTITIES ON SITE.

AIR PRESSURE PIPING NOTES

- ALL PIPING AND TUBING TO CONFORM TO ASME B31.3.
- NEW PIPING, FITTINGS, VALVES AND COMPONENTS. IT IS IMPORTANT THAT FRACTIONAL, NOT METRIC, SS TUBING, FITTINGS AND VALVES ARE USED TO ENSURE PROPER SIZES AND FIT. DO NOT MIX MATERIALS OR FITTING COMPONENTS FROM VARIOUS MANUFACTURERS.
- ALL TUBING, GAUGES, SUPPORTS, VALVES AND OTHER SYSTEM COMPONENTS SHALL BE NEW. REUSE OF EXISTING COMPONENTS IS NOT PERMITTED.



C02	2017/01/24	RE-ISSUED FOR TENDER	
C01	2016/10/14	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE / ÉCHELLE
AS INDICATED

LOCATION / EMPLACEMENT

BLDG. D200
CFB HALIFAX
NS

PROJECT / PROJET

D-200 HIGH PRESSURE
AIR TEST FACILITY

TRADE / MÉTIER
MECHANICAL

DATE
2016/05/02

SUBJECT / SUJET
MECHANICAL FLOW DIAGRAMS,
BILL OF MATERIALS AND LEGEND

PRODUCTION DESIGNED / ÉTUDIÉ	REVIEWED / REVU ENG O O ING	DES O AGENT CONC DES O AGENT CONC
DRAWN / DESSINÉ	PROJ MGR GEST PROJ DES MGR GEST CONC	
CHECKED / VÉRIFIÉ	FIRE INCENDIE	
COORDINATION		

WBS NO. | NO. OTP
TJ-15-003

PF NO. | NO. DP
R.077547.001

DWG. NO. | NO. DESSIN
4476681-403

