

DESIGN DATA

CODE	ASME SEC. VIII DIV.1 2013 ED.		
NB REGISTRATION	YES	CERTIFICATION MARK (DESIGNATOR)	YES (U)
FLUID NAME	WATER	SPECIFIC GRAVITY	1.0
DESIGN PRESS. (PSIG)	50	WIND VELOCITY (m/sec)	NEGLIGIBLE
TEMP. (°F)	300	SEISMIC ZONE	N/A
CORROSION ALLOWANCE (in)	0	P. W. H. T.	YES (NOTE 24)
JOINT EFFICIENCY (S/H) (%)	70/70	STRESS RELIEF (UCS-79)	NO
RADIOGRAPHY (S/H)	SPOT	LETHAL SERVICE	NO
MAWP (PSIG)	50 at 300 °F	M. D. M. T. (°F)	-10 at 50 PSIG
HYDRO. TEST PRESS. (PSIG)	65	IMPACT TEST	NO

NOZZLE LIST

NOZZLE MARK	NO. REQ'D	SIZE (NPS)	SCH. NO.	FLANGE RATING	SERVICE	PROJECTION
N1	1	30	STD	-	BD TANK VENT SILENCER	SEE DWG.
N2	1	18	STD	ASME 150# SO.RF	MANWAY	SEE DWG.
N3	1	14	STD	ASME 150# SO.RF	IP/LP BLOWDOWN TANK SPIDER	SEE DWG.
N4	1	10	S40	ASME 150# SO.RF	HP BLOWDOWN TANK SPIDER	SEE DWG.
N5	1	8	S40	ASME 150# SO.RF	FLASH TANK DRAIN TO BD TANK	SEE DWG.
N6	1	6	S40	ASME 150# SO.RF	BD TANK DRAIN	SEE DWG.
N7	1	3	S40	ASME 150# SO.RF	BD TANK COOLING WATER INLET	SEE DWG.
N8	1	2	S80	-	2" SPARE BLIND CONNECTION	SEE DWG.
N9	1	1	3000#	-	BD TANK LEVEL GAUGE (UPPER)	SEE DWG.
N10	1	1	3000#	-	BD TANK LEVEL GAUGE (LOWER)	SEE DWG.
N11	1	1	3000#	-	BD TANK THERMOWELL	SEE DWG.
N12	1	1.5	3000#	-	BD TANK DRAIN	SEE DWG.
N13	1	0.75	3000#	-	BD TANK PRESSURE INDICATOR	SEE DWG.

NOTES

- BLOWDOWN TANK MATERIAL AND CONSTRUCTION TO BE IN ACCORDANCE WITH ASME CODE SECTION VIII, 2013 EDITION.
- HEADS TO BE 2:1 ELLIPTICAL DISHED.
- FLANGE BOLT HOLES TO STRADDLE NATURAL CENTERLINES.
- DO NOT SCALE THIS DRAWING. USE FIGURE DIMENSIONS ONLY.
- CODE DOCUMENTATION AND STAMPING ARE REQUIRED.
- ALL STUB PIPES AND END CONNECTIONS TO BE CAPPED OR PLUGGED BEFORE SHIPMENT.
- TANK IS TO BE WEIGHED PRIOR TO SHIPMENT AND THE WEIGHT PAINTED ON THE TANK IN 3" HIGH NUMBERS.
- ALL MATERIAL SUBSTITUTIONS MUST BE APPROVED BY VOGT POWER.
- THE ANCHOR BOLTS ARE NOT PROVIDED BY VPI. HOWEVER, THE RECOMMENDED ANCHORAGE IS TWO (2) 1" DIA. x 9" EMBEDMENT DEPTH HILTI HAS SUPER A-193 B7 RODS WITH HVA ADHESIVE PER BASE PLATE. FOUR (4) BASE PLATES PER TANK TOTAL.
- HYDROSTATIC TEST PRESSURE: 65 PSIG (4.5 barg).
- ALL BUTT WELD END PREPARATIONS SHALL BE PER ASME B16.25 FIGURE 2A/3A.
- ALL SOCKET WELDED PIPE SHALL BE SQUARE CUT.
- ALL WELDS P1-P1 UNLESS NOTED OTHERWISE.
- ALL MATERIAL LISTED AS 'CS' TO BE A36 OR EQUIV. UNLESS NOTED OTHERWISE.
- APPROXIMATE WEIGHT OF ONE TANK = 11,698 LBS. (5,306 Kg)
- ALL O-LETS SHALL BE STRAIGHT I.D. BORE DESIGN (FLEX-O-LET) OR EQUAL.
- QUANTITIES SHOWN ARE FOR (1) ONE TANK ASSEMBLY:
 - (1) ONE TANK REQUIRED FOR MIDDLETOWN PROJECT,
 - (1) ONE TANK REQUIRED FOR KINGS MOUNTAIN PROJECT.
18. DENOTES CENTER OF GRAVITY. FABRICATOR TO LOCATE AND PAINT ON TANK. FABRICATOR TO LOCATE DIMENSIONALLY ON SHOP/ERECTION DRAWING.
19. TO INCLUDE FLEXITALIC GASKET, BOLTING, HARDWARE, AND BLIND FLANGE.
20. THE VESSEL SHALL BE THOROUGHLY DRAINED AND DRIED AFTER HYDRO. TEST.
21. HYDRO. TEST TEMPERATURE SHALL NOT BE LESS THAN 63°F (17°C).
22. SURFACE PREPARATION AND PAINTING - P1
 - SURFACE PREPARATION : SSPC-SP-6 OR SA 2.5
 - PAINTING : Inorganic Zinc Primer (VOC < 4.1 lb/gal) / 1 Coat / Greenish Grey IPK / International Interzinc 22 / 2-3 mils (50 to 75 microns D.F.T)
23. NON-CORROSIVE SERVICE.
24. SHELL AND NOZZLE (N5) WELDED JOINT ONLY.

ASME (U)

TITLE OF PROJECT

MIDDLETOWN

CLIENT

VOGT POWER INTERNATIONAL INC.

SGC SungGwang Company

ITEM NAME

BLOWDOWN TANK (GENERAL ARRANGEMENT & DETAILS 1/4)

REQ'D NO.
1 SET

SCALE

JOB NO.

ITEM NO.

NONE

V17494

1BD-T3001

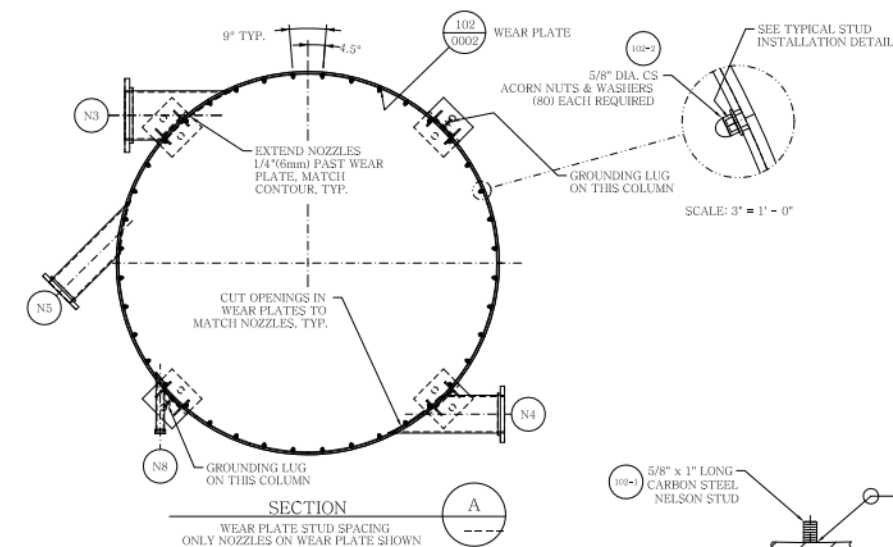
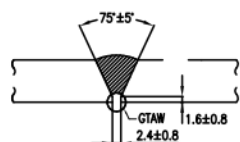
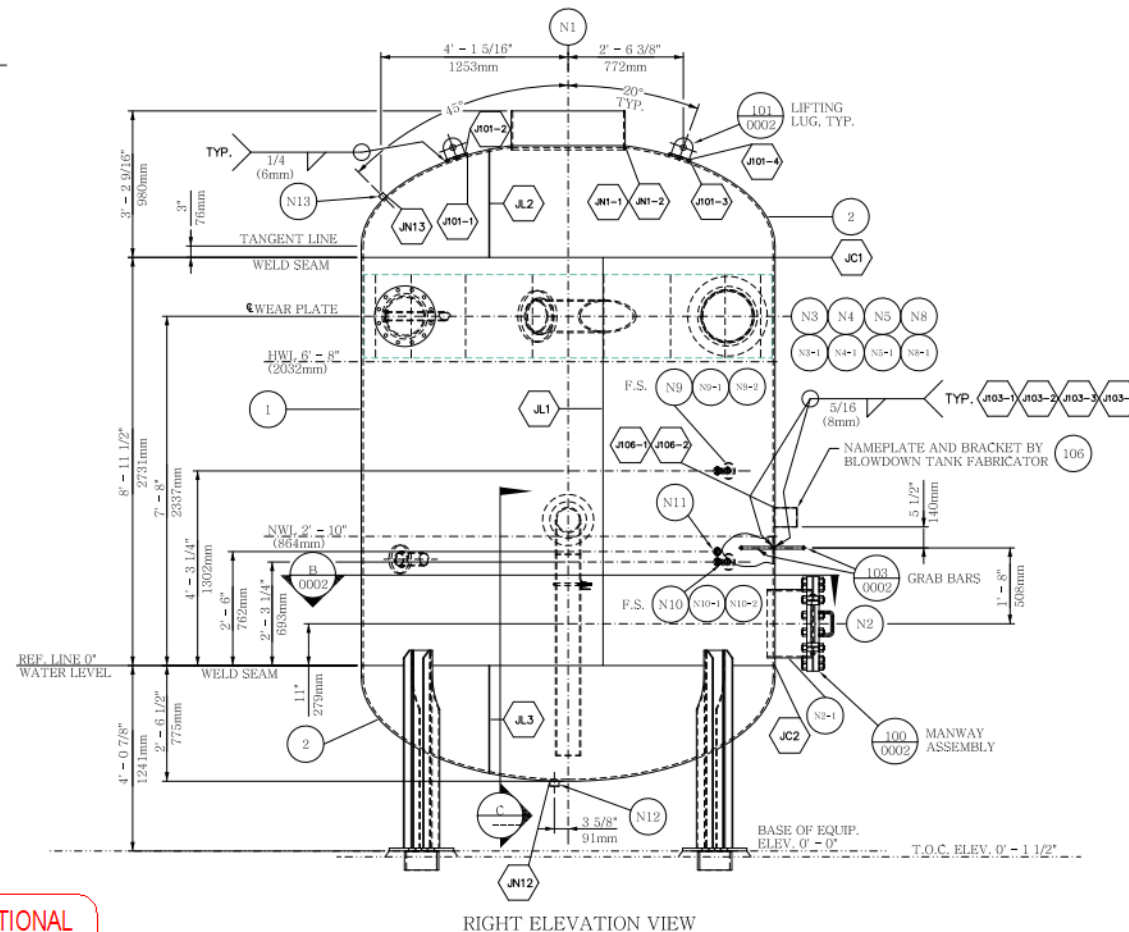
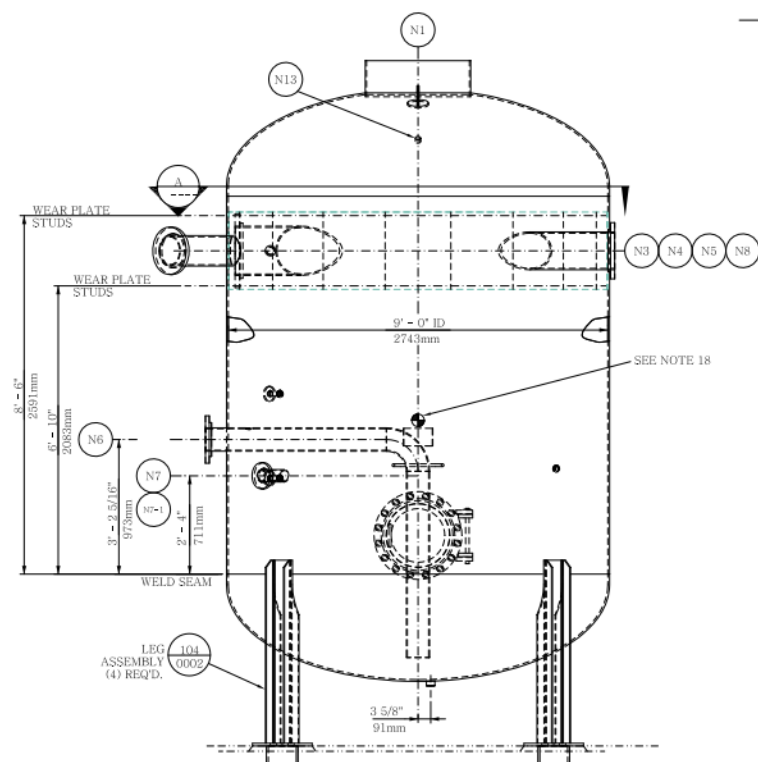
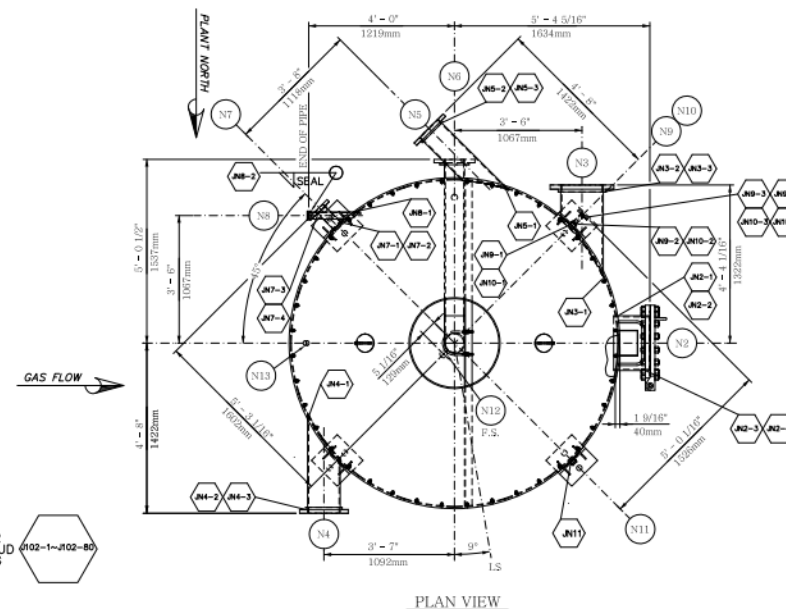
MANU. DWG. NO.

SGC-V17494 BD-DWG-001

REV.

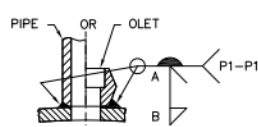
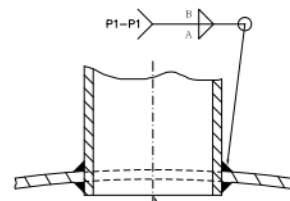
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SGC-F160003

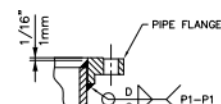
TYPICAL STUD INSTALLATION DETAIL
SCALE: 3/16" = 1"

(JOINT NO: JC1, JC2, JL1, JL2, JL3, N6-5, N6-6)

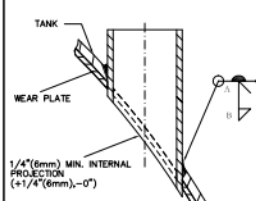
SEE DRAWING SGC-V17494 BD-DWG-002 WELDING CHART

BACKING STRIP IF USED MAY BE REMOVED AFTER WELDING
(JOINT NO: JN9-1, JN10-1, JN11, JN12, JN13)

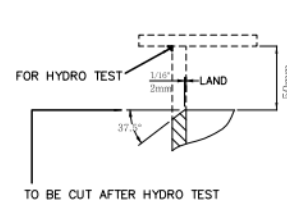
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(JOINT NO: JN2-3, JN2-4, JN3-2, JN3-3, JN4-2, JN4-3, JN5-2, JN5-3, JN6-3, JN6-4, JN7-3, JN7-4, JN9-3, JN9-4, JN10-3, JN10-4)



(JOINT NO: JN3-1, JN4-1, JN5-1, JN6-1)



SCALE: NONE

VOGT POWER INTERNATIONAL
V17494-BDXD-5003-03
03-Jun-2016

VOGT POWER INTERNATIONAL

Released, Work May Proceed

Bell, Milton

Jun-06-2016

SGC-V17494 BD-DWG-006	FABRICATION TOLERANCE
SGC-V17494 BD-DWG-005	DETAIL OF NAMEPLATE
SGC-V17494 BD-DWG-004	GENERAL ARRANGEMENT & DETAILS (4/4)
SGC-V17494 BD-DWG-003	GENERAL ARRANGEMENT & DETAILS (3/4)
SGC-V17494 BD-DWG-002	GENERAL ARRANGEMENT & DETAILS (2/4)
SGC-V17494 BD-DWG-001	GENERAL ARRANGEMENT & DETAILS (1/4)
DWG. NO.	TITLE

DETAIL DRAWING

REV. NO.	DESCRIPTION	PREPARED	REVIEWED	APPROVED
4				
3	REVISION ISSUE	5/30 M.S.K	5/30 H.G.M	5/30 D.M.K
2	REVISION ISSUE	5/26 M.S.K	5/26 H.G.M	5/26 D.M.K
1	REVISION ISSUE	5/06 M.S.K	5/06 H.G.M	5/06 D.M.K
0	1st ISSUE	4/15 M.S.K	4/15 H.G.M	4/15 D.M.K
REV. NO.	DESCRIPTION	PREPARED	REVIEWED	APPROVED
DESIGN DEPARTMENT				