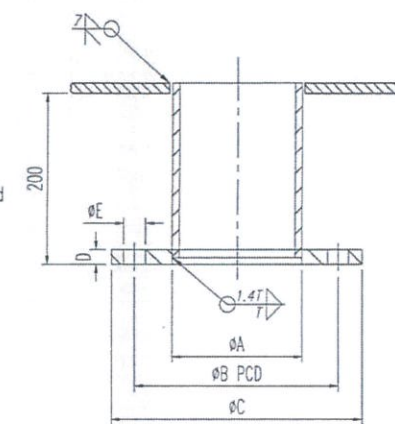
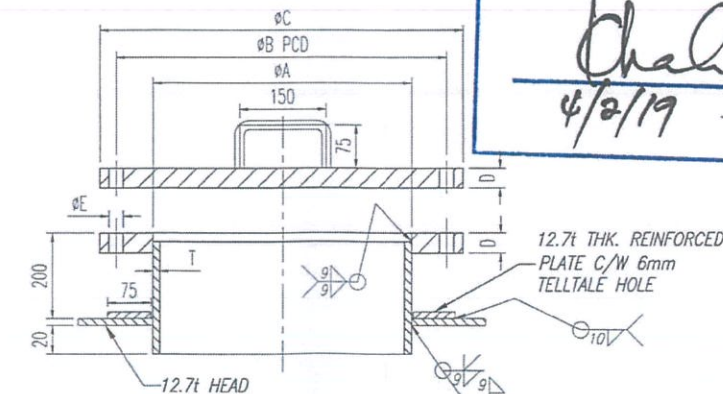


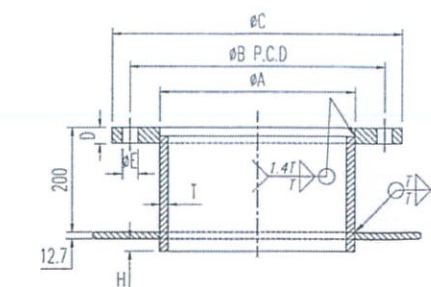
DETAIL OF LIFTING LUGS  
SCALE 1:4



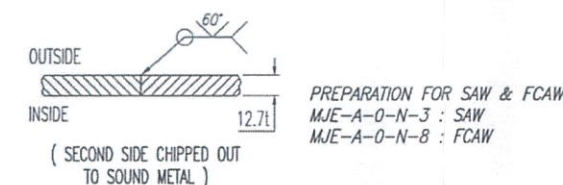
DETAIL OF WATER OUTLET FLANGE N9  
SCALE 1:4



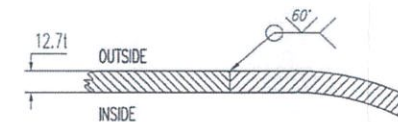
DETAIL OF 600MM MANHOLE FLANGE M1  
SCALE 1:2



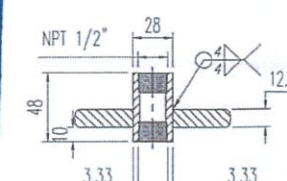
DETAIL OF FLANGE  
SCALE 1:2.5



DETAIL OF CIRCUMFERENTIAL & LONGITUDINAL BUTT WELD  
SCALE 1:5



DETAIL OF SINGLE WELD BUTT JOINT  
SCALE 1:5



DETAIL OF 15mm SOCKET N1 N10  
SCALE 1:5

Approved For Construction  
Chall  
4/2/19

DIMENSION OF NOZZLE

SIZE	HA	THICKNESS (T)	H	MATERIAL
#25	33.4	4.55 MM	10 MM	SA106 GRB SCH40 PIPE
#50	60.3	5.54 MM	10 MM	SA106 GRB SCH40 PIPE
#100	114.3	6.02 MM	15 MM	SA106 GRB SCH40 PIPE
#150	165.1	6.35 MM	20 MM	SA106 GRB SCH40 PIPE

B16.5 ANSI CLASS 150

NOMINAL SIZE	OUTSIDE DIAMETER, C	BOLTS CIRCLE DIAMETER, B	THICKNESS OF FLANGE, D	HOLE DIA, E	BOLT SIZE	NO OF BOLTS
#25	110	79.4	12.7	15.8	M12	4
#50	150	120.7	17.5	19.0	M16	4
#100	230	190.5	22.3	19.0	M16	8
#150	315	279.3	28.0	35.0	M20	20

NOTES

No.	DATE	BY	AMENDMENTS
1.			All dimension in mm, unless otherwise stated.
2.			All bolts and studs shall be provided on all reinforced pad and saddle plates attached to outside of vessel.
3.			DNB (G) lapped BSPT telltale hole shall be provided on all reinforced pad and saddle plates attached to outside of vessel.
4.			All fillet weld and nozzle to shell weld shall be FCW process.

MERGE JATI ENGINEERING SDN. BHD.  
TYPE: \_\_\_\_\_  
SERIAL NO.: \_\_\_\_\_  
DESIGN PRESSURE: \_\_\_\_\_  
TEST PRESSURE: \_\_\_\_\_  
DESIGN TEMPERATURE: \_\_\_\_\_  
M.T. DATE: \_\_\_\_\_  
DESIGN CODE: \_\_\_\_\_  
UNFIRE PRESSURE VESSEL

NOZZLE

NOZZLE	NOZZLE SIZE	NOZZLE SCH.	NOZZLE QTY.	FLANGE'S RATING	FLANGE'S TYPE	FUNCTION OF NOZZLE
M1	#600	PLATE	1	ANSI CLASS 150	SLIP ON	MANHOLE
N9	#100	40	1	ANSI CLASS 150	SLIP ON	WATER OUTLET
N8	#100	40	1	ANSI CLASS 150	SLIP ON	WATER INLET
N7	#50	80	1	ANSI CLASS 150	SLIP ON	WATER INLET
N6	#50	80	1	ANSI CLASS 150	SLIP ON	VAPOR OUTLET
N5	#50	80	1	ANSI CLASS 150	SLIP ON	VAPOR OUTLET
N4	#50	80	1	ANSI CLASS 150	SLIP ON	VAPOR OUTLET
N3	#50	80	1	ANSI CLASS 150	SLIP ON	WATER INLET
N2	#25	80	2	ANSI CLASS 150	SLIP ON	WATER INLET
N1a	#15	-	2	NPT 3000	SOCKET	SPARE
N1	#15	-	3	NPT 3000	SOCKET	SPARE

MATERIAL

SHELL & DISHED END	A/SA 516 Gr.70
FLANGE, MANHOLE FLANGE AND COVER	A/SA 105
PIPE	A/SA 106 Gr.B (SCH40) & (SCH80)
SOCKET	A/SA 105
REINFORCED PLATE	A/SA 516 Gr.70
LEGS	S275JR
BOLT & NUT	PRESSURE RETAINING: SA193 B7 / SA194 2H EXTERNAL FITTINGS: AISI 316

SPECIFICATION

DESIGN CODE	ASME SECT. VIII DIV 1 2017
WORKING PRESSURE	1,000 kPaG
DESIGN PRESSURE	1,000 kPaG
HYDROSTATIC TEST PRESSURE	1,300 kPaG
WORKING TEMPERATURE	185° C
DESIGN TEMPERATURE	200° C
MMT	0° C
MEDIUM OF SERVICE	CONDENSATE
DEGREE OF D.T. (FALL/PRO/MORE WORKING)	SHELL: DISHED END: OTHER: NL: NL: NL
JOINT EFFICIENCY	SHELL 0.7 (TABLE UW-12) SEAMLESS HEAD 0.85 (UW-12(c))
CORROSION ALLOWANCE	FOR HEAD & SHELL: 1 mm FOR NOZZLE: 1 mm
CAPACITY	7.84 m³

DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH MALAYSIA, CHOP & SIGNATURE

TITLE: GENERAL DETAIL OF CONDENSATE VESSEL  
Ø1,550mm ID x 3,630mm HT

CLIENT: TOTALMECH ENGINEERING SDN. BHD.

END USER: MECHMAR COCHRAN BOILER (M) SDN. BHD.

MANUFACTURER: MERGE JATI ENGINEERING SDN. BHD.  
(COMPANY NO: 480344-A)  
Lot: 2828, Jln. Kallang 32/168,  
Off Jln. Sg. Gombak Bukit Naga,  
Selatayan 32, 40400 Shah Alam.  
Tel: 603-51671589  
Fax: 603-51672588  
Email: contact@mergejati.com.my

DESIGNED BY: KHALIK  
DRAWN BY: RB  
DATE: NOV. 2018  
FILE NAME: CS1550  
CHECKED BY: SEW  
APPROVED BY: SEW  
SCALE: AS SHOWN  
PROJECT CODE:

DRAWING NO: MJE/CV1550/3630/18-REV.1  
SHEET NO: 1/1