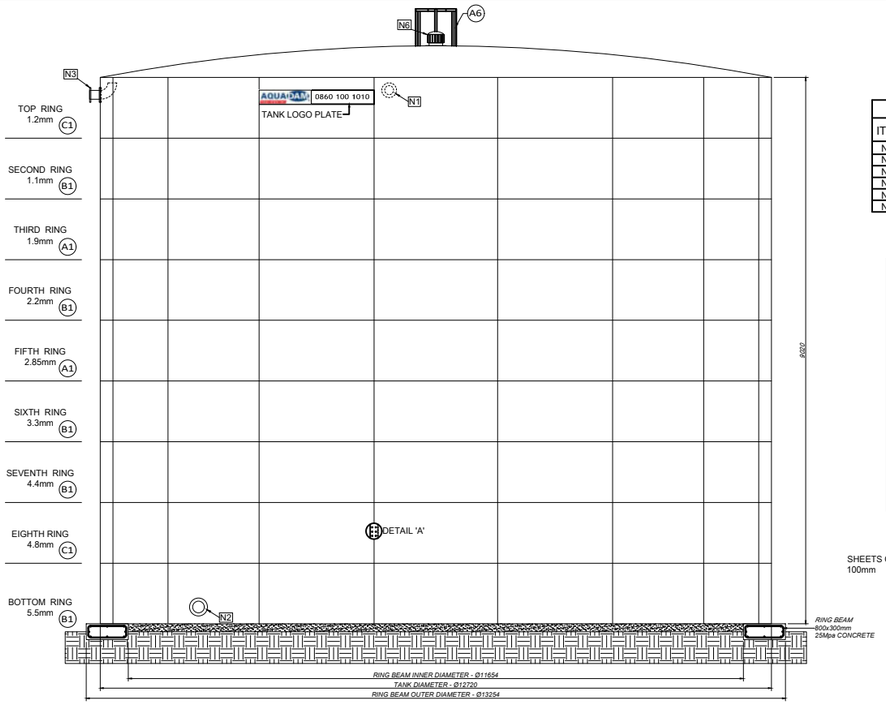
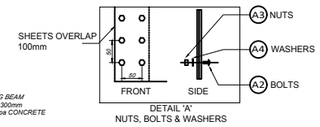
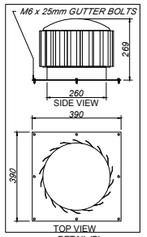


NOZZLE SCHEDULE FOR TANK						
ITEM	SERVICE	SIZE	QTY	STD	LOCATION	NOZZLE LENGTH
N1	INLET T/D	150mm	2	ANSI	WALL	200mm
N2	OUTLET T/D C/W BUTTERFLY	200mm	2	ANSI	WALL	200mm
N3	OVERFLOW T/D	150mm	2	ANSI	WALL	200mm
N4	SCOUR T/D C/W BUTTERFLY	80mm	2	ANSI	WALL	200mm
N5	MANHOLE - 750x750mm	750mm	2	ANSI	ROOF	
N6	WIND TURBINE	250mm	2	ANSI	ROOF	

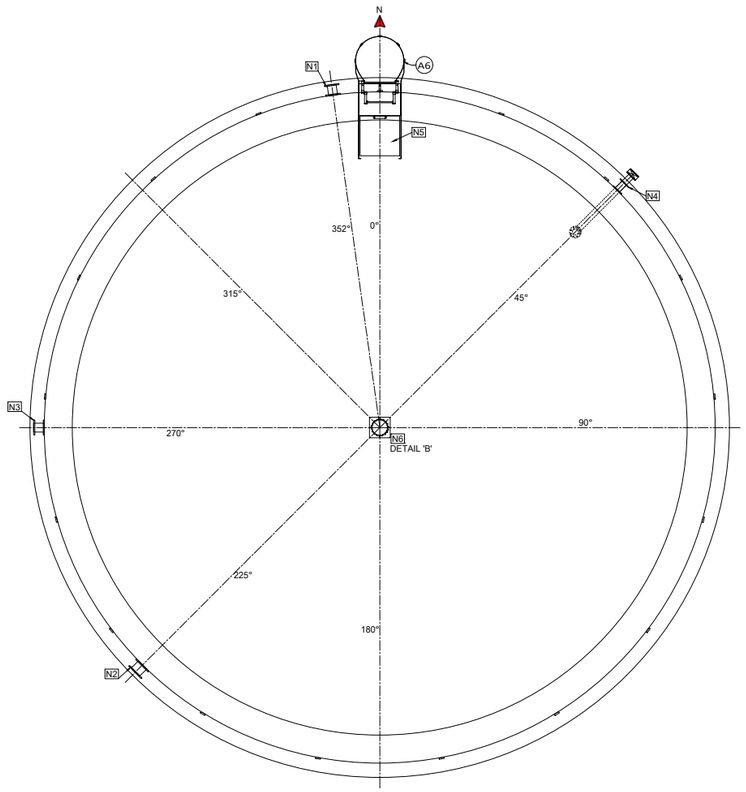
BILL OF MATERIALS			
ITEM	ITEM	GRADE	QTY
A1	2450 x 1250 x 0.95mm Zincalume Plates	G300	85
B1	2450 x 1250 x 1.1mm Zincalume Plates	G300	255
C1	2450 x 1250 x 1.2mm Zincalume Plates	G300	85
A2	M12x25 Sets - galv	GRADE 8.8	4284
A3	M12 Nuts - galv	GRADE 8.8	4284
A4	M12 Washers - galv	GRADE 8.8	4284
A5	40 x 40 x 4mm Tank Stiffeners	S355	153
A6	6.06m x 600mm Ladders	S355	1
A7	LEVEL INDICATOR	G300	1



DETAIL 'A'
NUTS, BOLTS & WASHERS

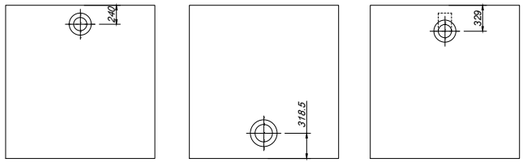


DETAIL 'B'

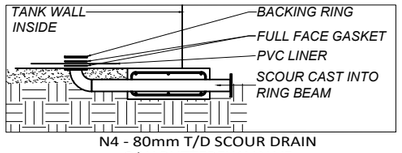


NOTES:
1. Felt seal (not shown) added to seal off gaps formed by corrugation of roof sheeting between the tank shell and dome roof. Used to exclude daylight as well as keep out vermin, insects and dirt.
2. PVC Liner Design Specifications: AS/NZS 4020:2005 In contact with drinking water,
   Base Fabric: 100% Polyester plain weave to SANS 79 standard,
   Linear density: 1100 dtex to BS 3424 Standard,
   Tensile Strength: min 2400 N/50mm to BS 3424 standard,
   Tear Strength: 300N to BS 3424 standard.
3. Tank Bolts;
   M12 x 25mm Splice Bolts H.D.G grade 8.8.
   Minimum Torque on Bolts: 70Nm
4. Butterfly valve at Suction:
   Body - Cast Iron (GG25) / Ductline Iron (GGG40)
   Disc - AISI 316 / Ductline Iron with Nickel Plated / Al Bronze
   Liner - EPDM
   Operation Pressure : 16 Bar - DN40 to DN300
   10 Bar - DN350 to DN1000
   Operating Temperature : 110°C
   Applicable Fluids : Water, Warm Water, Sea Water, Air & Weak Acid
   Flanges Standards : ANSI 150LBS &JIS 10K

NOZZLE DETAIL



N1 - NB150 INLET T/D
N2 - NB200 OUTLET T/D
N3 - NB150 VORTEX T/D



N4 - 80mm T/D SCOUR DRAIN C/W BUTTERFLY VALVE

DRAWN	L.Labuschagne
CKD	03/04/2023
APPD	
DATE	
SCALE	1:1

AQUADAM STEEL TANKS INT.®

REV.	DESCRIPTION	DATE-E/C NO
1	LAYOUT AS PER CUSTOMER DRAWING	20/07/2022
0	DRAWING CREATED	06/06/2022

DISCLAIMER:
1. If and when a leak occurs, it is the responsibility of the client to notify AquaSteel (Pty) Ltd within 7 days of occurrence or the customer might forfeit their warranty.
2. An annual inspection will have to take place by an approved Aquasteel (Pty) Ltd dealer or employee to inspect the tank for any visible problems on the tank installed, it remains the responsibility of the client to notify AquaSteel (Pty) Ltd of the annual inspection by means of email or phone within 60 days of abovementioned by means of SLA, the annual inspection will be quoted for as and when AquaSteel (Pty) Ltd is notified of such, if the customer fails to notify AquaSteel (Pty) Ltd of abovementioned the customer might forfeit their warranty
3. In the event that the tank remains in service after the warranty period the client should similarly inform AquaSteel in the event of leaks (see point 1) and annual inspections (see point 2).

DESIGN DATA	
TANK CODE:	STE-179
EFFECTIVE TANK CAPACITY:	1 057.2 KL
SPECIFIC GRAVITY:	1
DIAMETER OF RESERVOIR:	12.72m
HEIGHT OF RESERVOIR:	9.02m
RESIDUAL DEPTH OF LIQUID:	300mm
DENSITY OF LIQUID :	1000kg/m3
YIELD STRENGTH OF PLATES:	300MPa
ULTIMATE STRENGTH OF GRADE 8.8 BOLTS:	800MPa

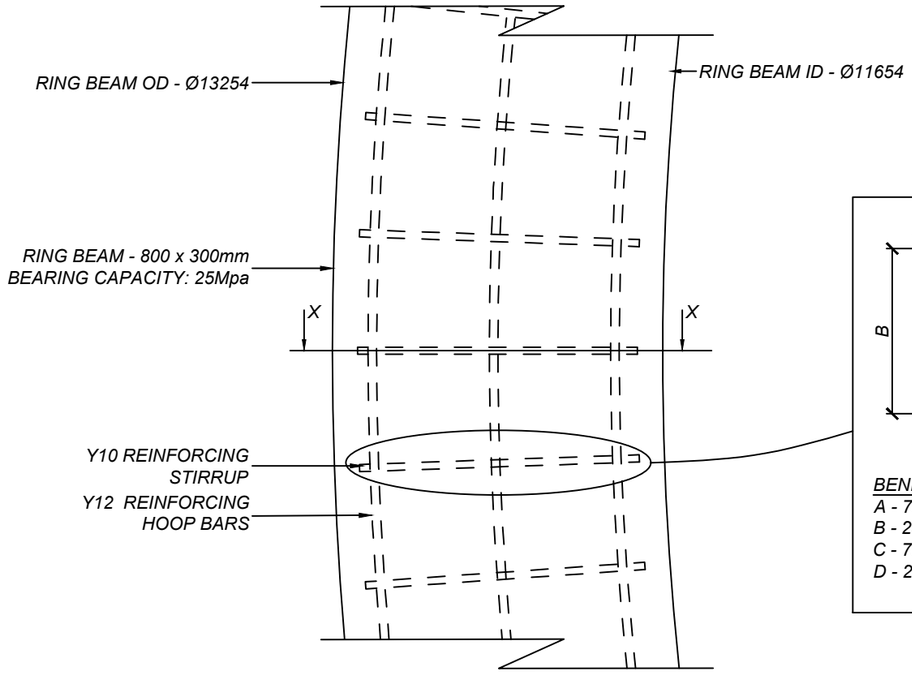
TITLE: PROPOSED GENERAL ARRANGEMENT DIAGRAM FOR STE-174

MODEL: STE-179

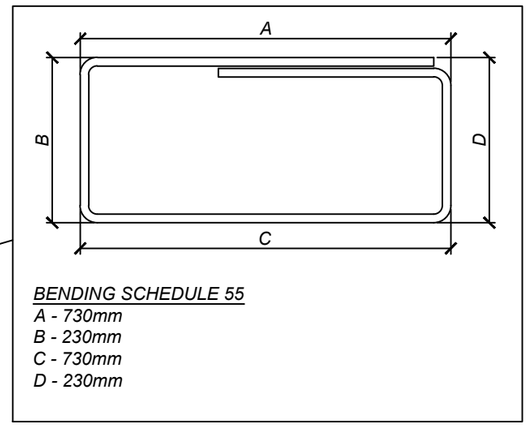
CUSTOMER: WEST POINT PROCESSORS

PROJECT NAME:

A3 | PART/DRG. Nº. AD-STE-179-WPP1 | REV. 0

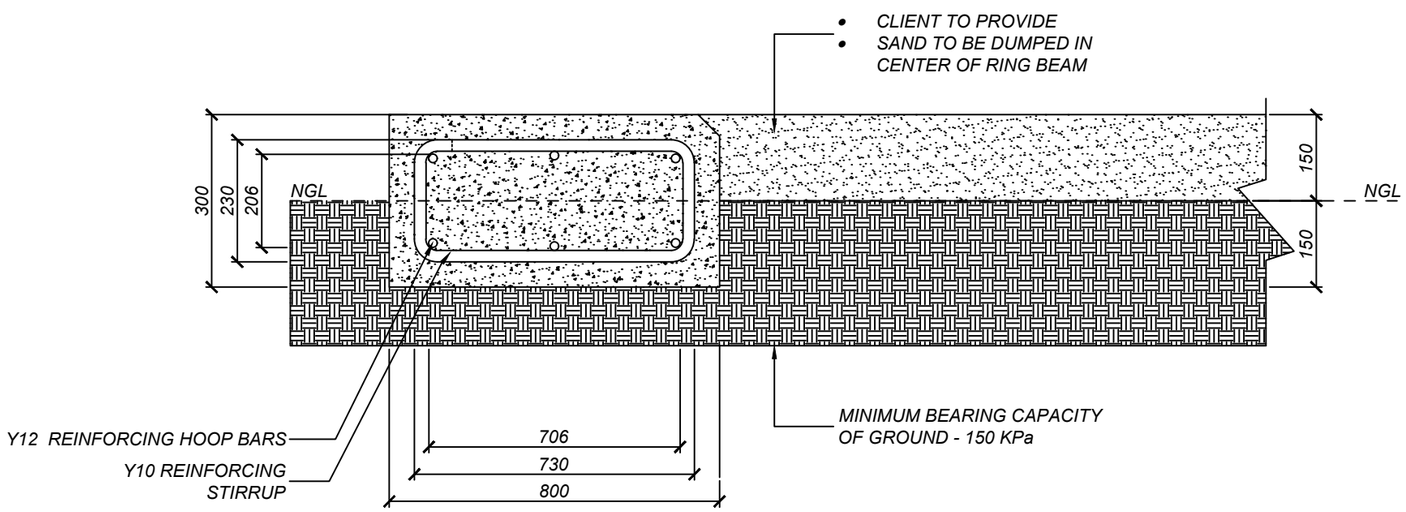


TOP VIEW



BENDING SCHEDULE 55
A - 730mm
B - 230mm
C - 730mm
D - 230mm

Y10 STIRRUP BENDING SCHEDULE



VIEW X-X

QUANTITIES:
Y12 REINFORCING HOOP BARS: 42-OFF x 6.5m LENGTHS (243kg)

Y10 STIRRUPS: 258-OFF x 730 x 230mm (354kg)
RECOMMENDED SPACING OF STIRRUPS: 160mm
CONCRETE VOLUME REQUIRED: 10.1m³
RIVER SAND VOLUME REQUIRED: 20.0m³

NOTE
What does 95 Mod Aashto mean?
95% compaction means that in-situ soil will be compacted to 95% of the maximum dry density by means of roller of different kinds (depending on the soil characteristics). Usually we do proctor compaction test to find out the maximum dry density(MDD) and optimum moisture content (OMC) of a soil.

DESIGN DATA	
TANK CODE:	STE-17
BEARING CAPACITY:	150KPa
COMPACTON (Mod Aashto): Please see note	95%
SPECIFIC GRAVITY:	1:1
DIAMETER OF RESERVOIR:	12.72m
HEIGHT OF RESERVOIR:	5.04 - 7.98m
RESIDUAL DEPTH OF LIQUID:	100mm
DENSITY OF LIQUID:	1000kg/m3
YIELD STRENGTH OF PLATES:	340MPa
ULTIMATE STRENGTH OF GRADE 8.8 BOLTS:	800MPa

REV.	DESCRIPTION	DATE-E/C NO	APP.
0	DRAWING CREATED	07/04/2020	

DRAWN L.Labuschagne
CKD
APPD
DATE 07/04/2020
SCALE 1:1

AQUADAM STEEL TANKS INT.

TITLE:
STE-175 TO 178 RING BEAM DETAIL
MODEL: STE-175-178
CUSTOMER:
PROJECT NAME:
A3 PART/DRG. Nº. AD-STE-175-8-RBD REV. 0