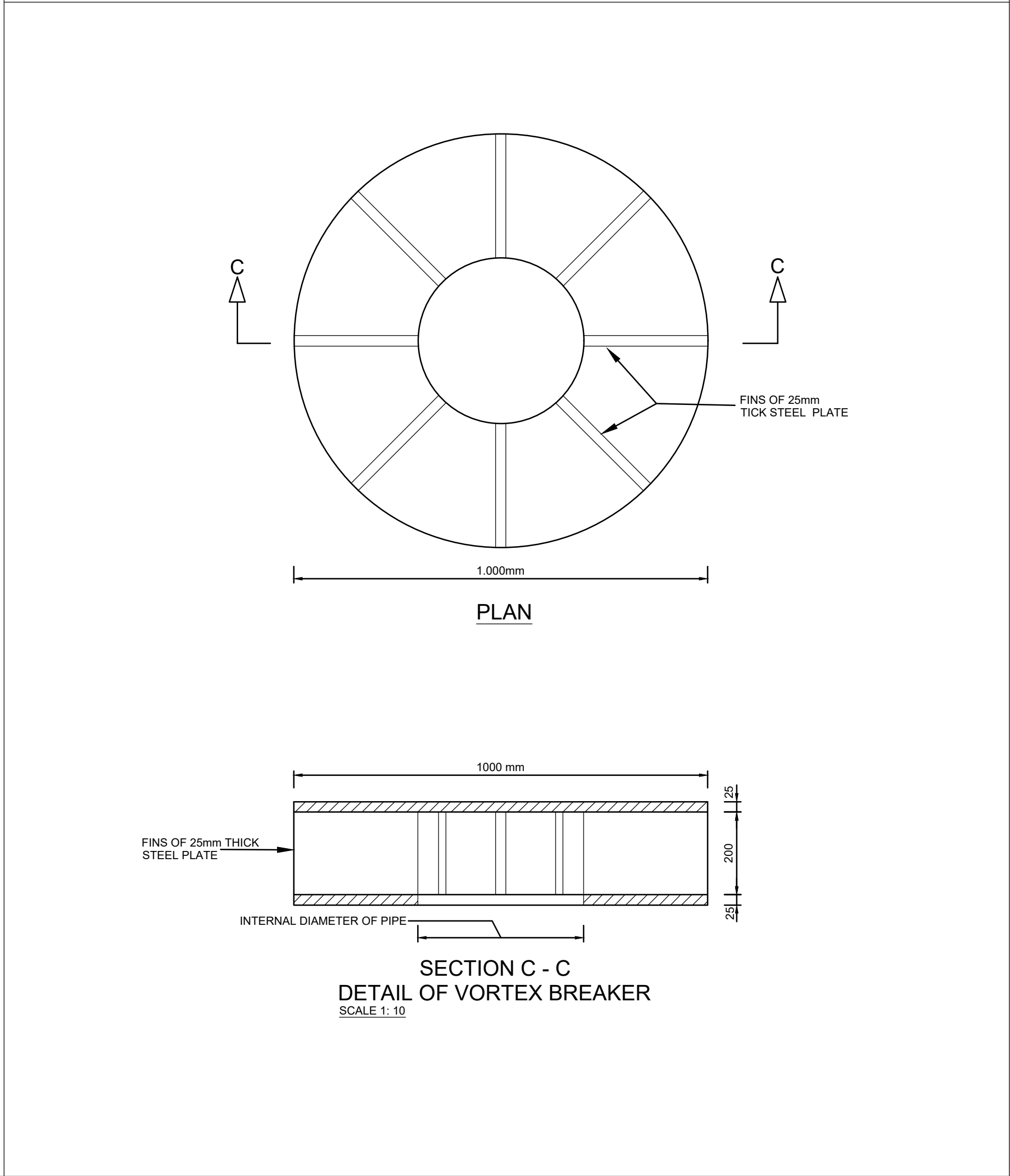
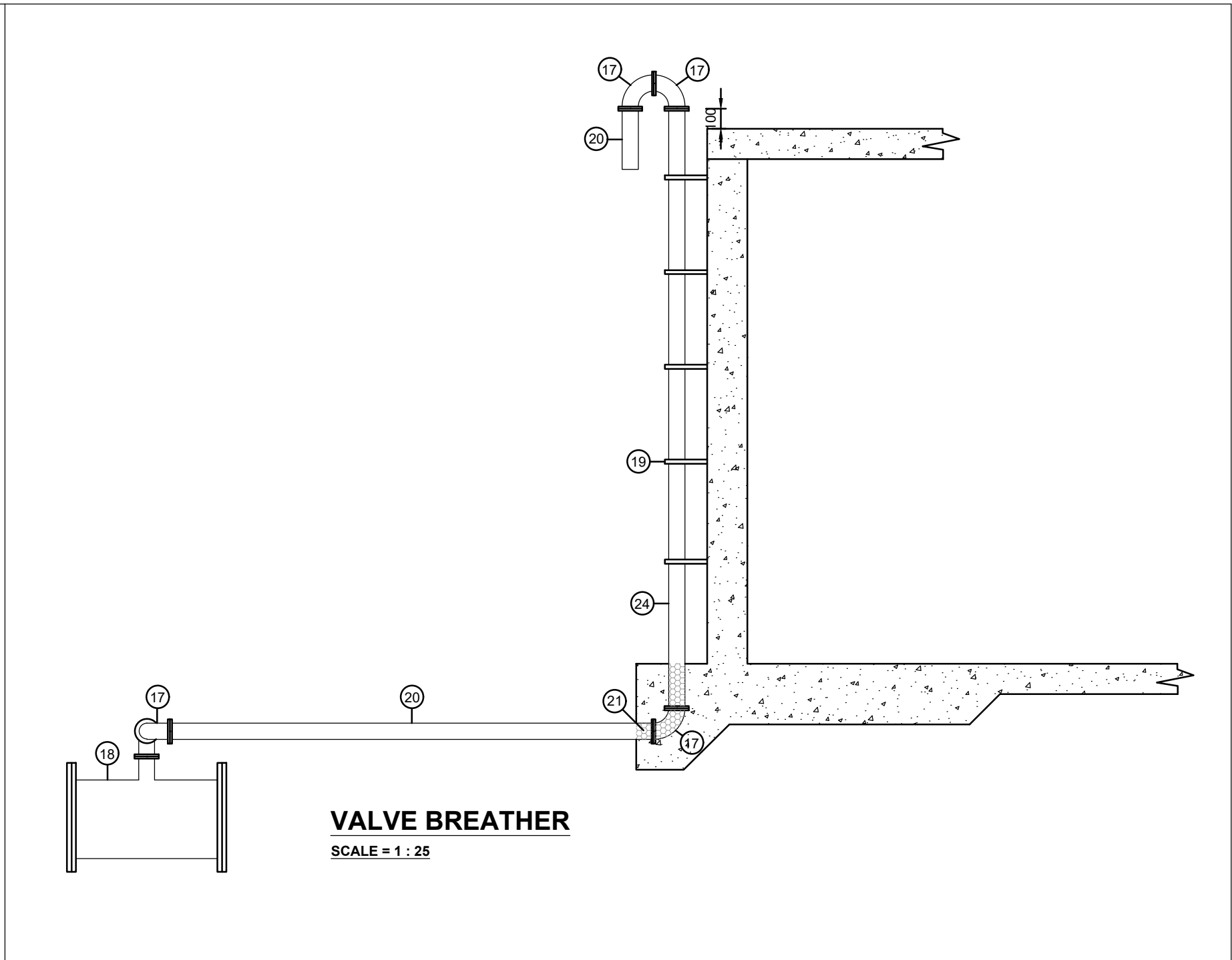


- LEGEND**
- ① 1000mm Ø VORTEX BREAKER SEE DETAIL
 - ② 400mm Ø STEEL OUTLET PIPE COMPLETE WITH PUDDLE AND FLANGE. LENGTH TO SUIT PUMP INLET LEVEL.
 - ③ 400mm Ø x 90° STEEL MEDIUM RADUIS BEND
 - ④ 400mm Ø x 1.9m LONG STEEL EXTENSION PIECE
 - ⑤ 400mm Ø CLASS 10 RESILIENT SEAL GATE VALVE
 - ⑥ 400mm Ø VIKING JOHNSON COUPLING
 - ⑦ 400mm Ø x 1.4m STEEL PIPE FLANGED ONE END AND PLAIN OTHER END
 - ⑧ 200mm Ø x 475mm LONG STEEL SCOUR OUTLET INCLUDING PUDDLE FLANGE
 - ⑨ 200mm Ø x 90° STEEL ELBOW
 - ⑩ 200mm Ø x 1411mm LONG STEEL EXTENSION
 - ⑪ 200mm Ø CLASS 10 RESILIENT SEAL GATE VALVE
 - ⑫ 200mm Ø VIKING JOHNSON COUPLING
 - ⑬ 200mm Ø WELDED STEEL PIPE
 - ⑭ 200mm Ø WELDED STEEL PIPE
 - ⑮ 80mm Ø BARREL NIPL ON 400mm Ø STEEL PIPE
 - ⑯ 80mm Ø x 830mm PIPE FLANGED BOTH SIDES
 - ⑰ 80mm 90° ELBOW FLANGED
 - ⑱ 400mm x 400mm x 80mm WELDED FLANGED REDICING TEE
 - ⑲ PIPE SUPPORT BRACKET SEE DETAIL
 - ⑳ 80mm Ø x 2435mm PIPE FLANGED BOTH SIDES
 - ㉑ DENSO TAPE WRAPPING 200mm LONG AT CONCRETE INTERFACE MIN LENGTH OF ENCASEMENT IN CONCRETE 100mm
 - ㉒ 400mm Ø WELDED STEEL PIPE.
 - ㉓ 80mm Ø FLANGED STEEL PIPE. DIMENSIONS TO BE VERIFIED ON SITE
- NOTES**
- ALL PIPE COATINGS AND LININGS AS PER BOQ & PROJECT SPECIFICATION



CONSTRUCTION DRAWING

ALL DIMENSIONS AND LEVELS ARE TO BE VERIFIED ON SITE BY THE CONTRACTOR BEFORE COMMENCING ANY WORK.

THE COPYRIGHT IN THIS DRAWING, INCLUDING THE DESIGN AND DETAILS SHOWN HEREON, IS RESERVED BY THE ENGINEERS.

NOTE:
ALL NEW CONCRETE STRUCTURES TO BE 35/19 MPa REINFORCED CONCRETE

NOTES:
ANY ERRORS, DIMENSIONS OR DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
TOLERANCES SHALL BE DEGREE OF ACCURACY II UNLESS OTHERWISE SPECIFIED
ALL OVER - EXCAVATION SHALL BE MADE GOOD USING MASS CONCRETE FOR THE CONTRACTOR'S ACCOUNT.
CONCRETE
NO-FINES CONCRETE, WHERE STRUCTURAL CONCRETE IS TO BE PLACED ON TOP, SHALL BE FINISHED WITH A SKIMMED COAT OF MORTAR TO LIMIT BLEEDING OF STRUCTURAL CONCRETE AND OR BLINDING OF THE NO-FINE LAYER.
ALL EXPOSED CORNERS SHALL BE CHAMFERED 25mm x 25mm.
BLINDING SHALL BE OF CLASS 15/19 mm
MASS CONCRETE SHALL BE OF CLASS 15/19 mm
STRUCTURAL CONCRETE SHALL BE OF CLASS 35/19 mm
ALL EXPOSED FORMED CONCRETE SURFACES SHALL BE SMOOTH OFF SHUTTER FINISH
ALL SURFACES EXPOSED TO WATER SHALL BE STEEL TROWELED FINISHED, WALKWAY AND TOP OF WALLS SHALL BE WOOD FLOAT FINISH.
REINFORCEMENT
CONCRETE COVER TO REINFORCEMENT TO BE MINIMUM 40mm. COVER TO REINFORCEMENT WHERE CONCRETE IS CAST AGAINST SOIL SHALL BE AT LEAST 75mm.
WELDING, HEATING TREATMENT AND GAS CUTTING OF REINFORCEMENT SHALL NOT BE PERMITTED

Rev	By	Date	Revision Details
0	M.S	09/23	ISSUED FOR CONSTRUCTION

CONSULTANT

DESIGNED	S. MKHATSHWA	NOV 2022
CHECKED	W.DE.LANGE	NOV 2022
DRAWN	S. MKHATSHWA	NOV 2022
CHECKED	W.DE.LANGE	NOV 2022

CLIENT

UMGENI
WATER · AMANZI

ALFRED NZO
Department: Water Affairs
REPUBLIC OF SOUTH AFRICA

CLIENT APPROVED _____ **DATE** _____

CONSULTANT SIGNATURE _____ **DATE** _____

PROJECT TITLE

NOMLACU WTW
UPGRADES & EXTENSIONS

DRAWING TITLE

1000KL RESERVOIR
OUTLET & SCOUR DETAIL

SCALE: AS SHOWN

DRAWING NO. 34905-CIV-4-3

REV. 0