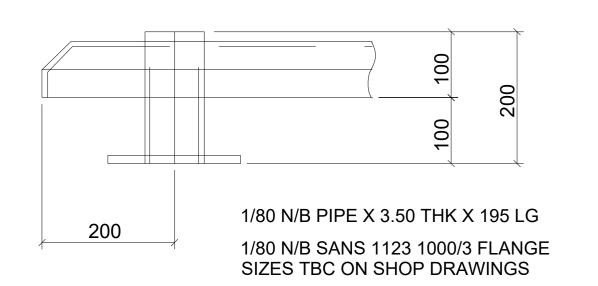
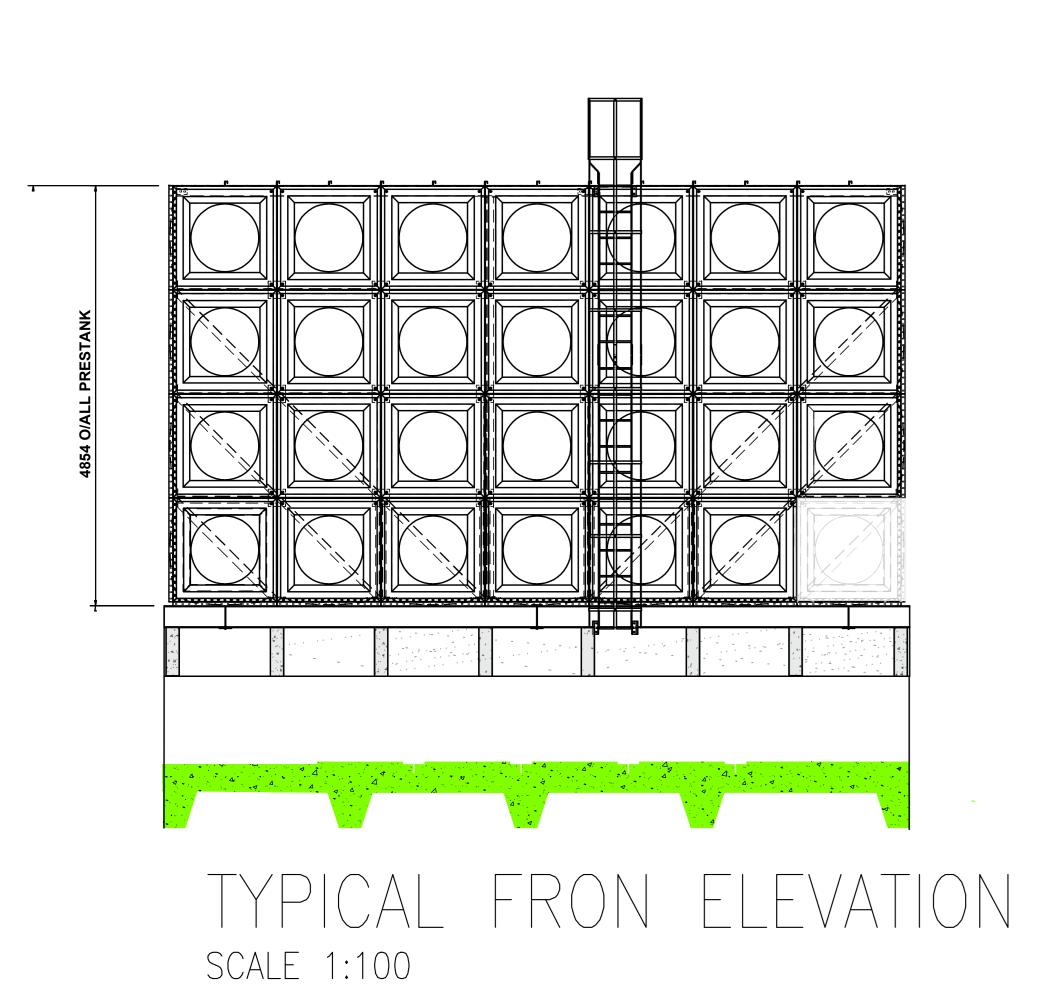
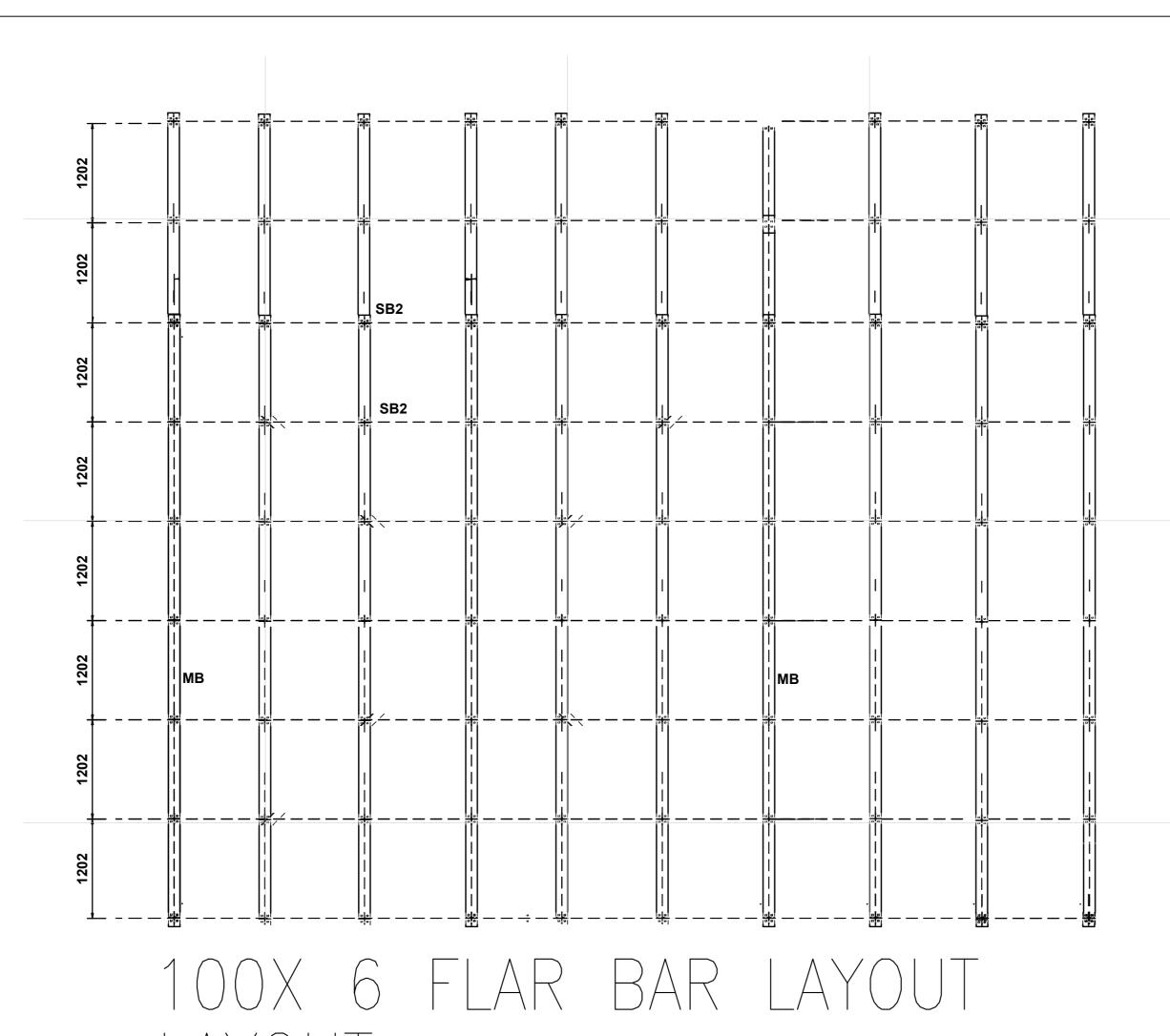


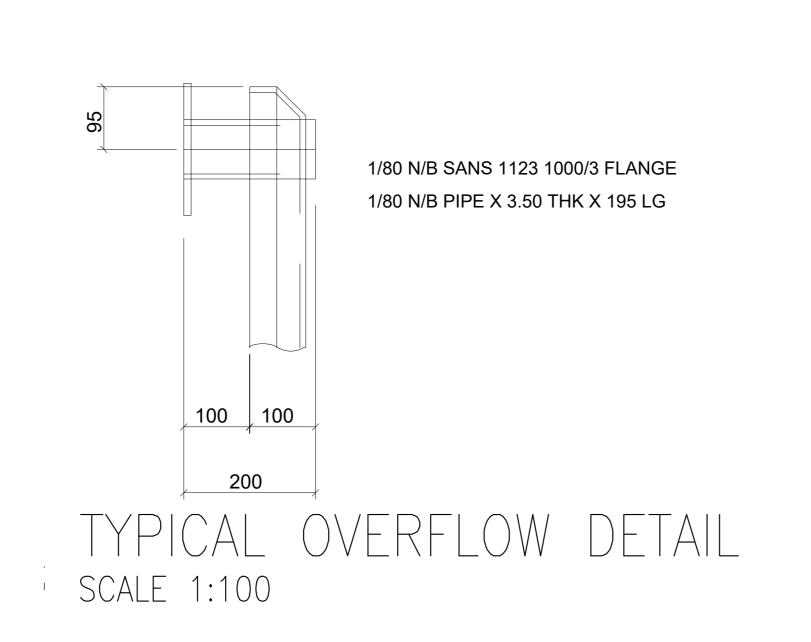
**BRACINGS AT 1.2 LEVEL** TYPICAL PANEL BRACING SCALE 1:100

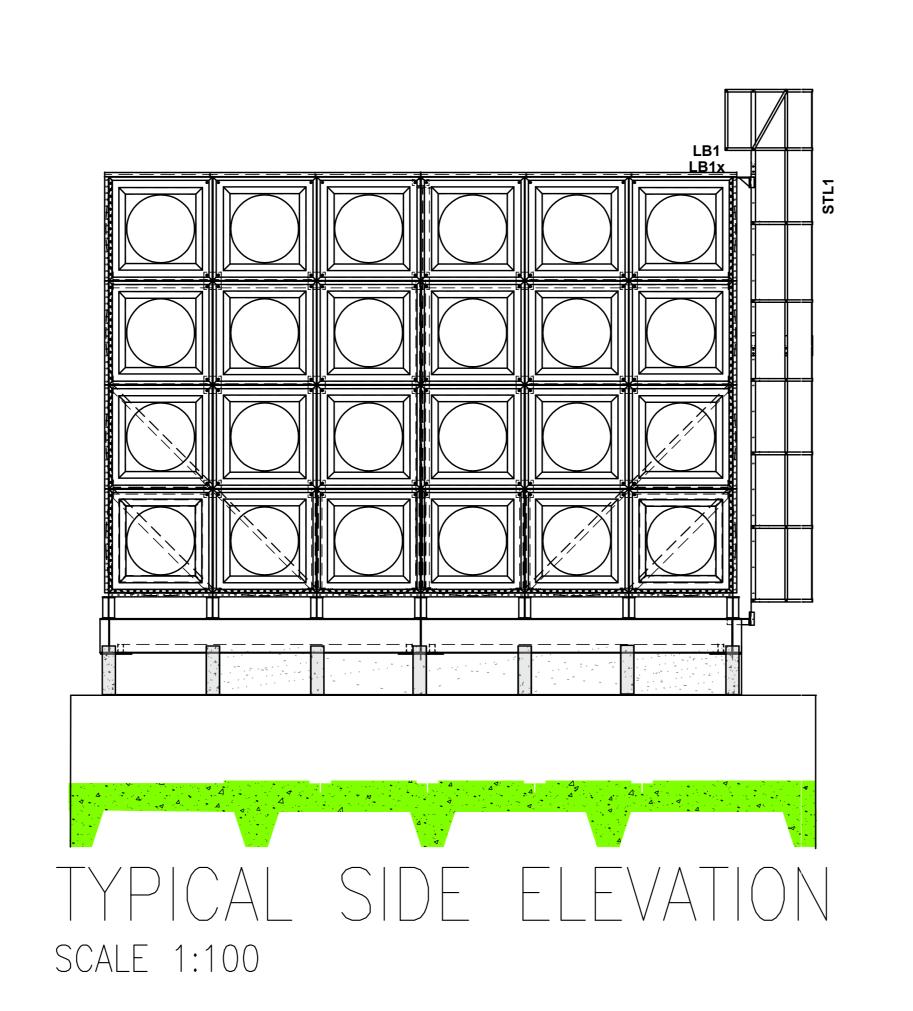


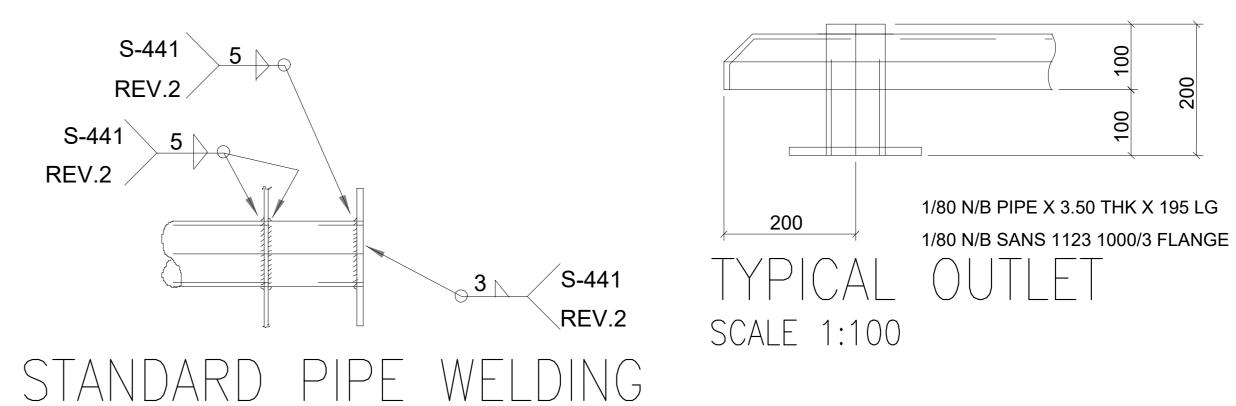
TYPICAL PIPE CONNECTION SCALE 1:100











THE SUPPLIER OF OF WATER TANK MANDATORY REQUIREMENTS: 1.1. ISO ACCREDITATION FOR PRESSED TANKS MANUFACTURING, DESIGN DEVELOPMENT, CIRCULAR TANKS FABRICATION THEREOF PRESS IN TERMS OF ISO 9001:2015 EMBOSSED BY SABS

1.2. GALVANISED PANELS TO BE PRODUCED WITHIN SOUTH AFRICA. 1.3. SUPPLIER FACILITIES TO INSPECTED BY RESPONSIBLE ENGINEER.

SCALE 1:100

1.4. SUPPLIER MANUFACTURING DRAWINGS TO BE APPROVED BY SRSQS ENGINEERS. 1.5. FULL FABRICATION OF PANELS, GALVANIZATION OF TANKS, PRODUCTION OF PIPING MATERIALS

IN ANCILLARY TO THE STEEL FLANGED PIPES. 1.6. QUALITY CONTROL SCHEDULE IN LINE WITH SABS APPROVAL FOR COMMISSION.

1.1. SHOP DRAWINGS PRODUCTION AND ALTERATION THEREOF TO SRSQS'S SEPCIFICATIONS. 1.2. ALL NECESSARY FIXINGS INCLUSIVE OF HD BOLTS & NUTS, GASKETS, RUBBERS, INTERNAL BRACINGS AND SUNDRIES. 1.3. GALVANIZED ROOF COVER PLATES, AND THICKNESS OF THE SHEETING. 1.4. MECHANICAL WATER LEVEL INDICATOR

1.5. BERMAD VALVE VALVE/FLOAT CONTROL VALVE 1.6. ACCESSIBLE LOCKABLE MANHOLE COVER WITH BUILT IN SCREENED VENT 1.7. INTERNAL ACCESS LADDER 1.8. EXTERNAL ACCESS LADDER FOR THE TANK AND STAND 1.9. PIPES IN AND AROUND THE TANK FROM SAME SUPPLEIR 1.10. PIPING SPECIFICATIONS, INLETS AND OUTLET TO FLANGES INCLUDING SUPPORTS, CLAMPS, JOINING SEALS, BOLTS AND NUTS. 1.11. QCP 1.12. DELIVERY AND ERECTION BY SPECIALIST CONTRACTOR 1.13. GUARANTEE 1.14. ESTABLISHMENT, MANDATORY DOCUMENTATION OF PLANT AND EQUIPMENT PERTAINING TO THE WORKS. 1.15. LIGHTNING PROTECTION 1.16. SCOUR VALVE

> TYPICAL TANK LAYOUT SCALE 1:100

THE FOLLOWING ITEMS SHALL BE TANK INCLUSIONS STANDARDS AD CODES:

1.1. DESIGNS RO SANS 10329-2004

1.2. STEELWORKS TO SANS10162

1.3. GALAVANISATION TO SANS 121/SABS1461

1.5. ALL STEEL PIPE FITTINGS TO SABS 62

1.4. ALL STEEL PIPES TO COMPLY TO SABS 1123D

THE FOLLWING ITEMS TO FORM PART OF THE STEEL TANK ITEM UNIT.

SAFETY GLASS IN ALL DOORS AND WINDOWS WITH GLASS LOWER THAN 900mm ABOVE F.F.L. AND SURFACE AREAS LARGER THAN 1m². SAFETY GLASS TO COMPLY WITH SANS 10400 PART N. ALL DRAINAGE TO COMPLY WITH SANS 10400 PART P.

**VENTILATION & GLAZING:** 

CONSTRUCTION NOTES:

STRUCTURAL DESIGN:

. ALL STRUCTURAL DESIGN TO COMPLY WITH SANS 10400 PART B. ALL HANDRAILS TO COMPLY WITH SABS 0104. STRUCTURAL STEEL TO COMPLY WITH SABS 0162.

ALL TIMBER BEAMS AND ROOF TRUSSES TO COMPLY WITH SABS 0163.

1. ALL FOUNDATIONS TO COMPLY WITH SANS 10400 PART H AND SABS 0161. ALL FOUNDATIONS TO ENGINEERS SPECIFICATION.

TOP OF CONCRETE FOUNDATION TO BE MINIMUM 300mm BELOW N.G.L.

ALL SAMPLES TO BE APPROVED BY ENGINEER/ PRINCIPAL AGENT

1. ALL WALLS TO COMPLY WITH SANS 10400 PART K.

DPC'S UNDER ALL WALLS TO BE 150MM ABOVE N.G.L. VERTICAL DPC'S TO ALL CHANGES IN FLOOR LEVEL.

. IMPERVIOUS COPINGS TO ALL PARAPETS. 375 MICRON DPC UNDER ALL INSIDE AND OUTSIDE WALLS.

250 MICRON DPM UNDER ALL CONCRETE SURFACE BEDS.

CEILINGS, SLABS & SURFACE BEDS:

CEILINGS TO COMPLY WITH SANS 10400 PART L.

. ALL FLOORS AND SURFACE BEDS TO COMPLY WITH SANS 10400 PART J.

REINFORCED CONC. SURFACE BED TO ENG. DESIGN & SPECIFICATION. EXPANSION JOINTS TO ENG. DESIGN & SPECIFICATION.

2. ALL CHIMNEYS AND CHIMNEY FLUES TO COMPLY WITH SANS 10400 PART V.

TILE GROUT JOINTS TO LINE UP WITH EXPANSION JOINTS.

WATERPROOFING:

EXTERNAL WALLS TO COMPLY WITH SANS 10400 PART XA.

FINISHED FLOOR LEVELS TO BE A MINIMUM OF 150mm ABOVE N.G.L. UNLESS OTHERWISE SPECIFIED.

BRICKFORCE IN SINGLE & DOUBLE WALLS EVERY 4TH COURSE, UNLESS OTHERWISE SPECIFIED BY ENGINEER.

SURFACE BEDS TO BE ON APPROVED WATERPROOFING FORMING A CONTINUOUS MEMBRANE WITH THE DPC UNDER

APPROVED WATERPROOFING TO BASEMENT WALLS TO SPECIALIST DETAIL WITH 10-YEAR GUARANTEE.

SUSPENDED PLASTERBOARD CEILINGS AND RAKED CEILINGS, SMOOTH PLASTERED TO BE INSTALLED UNDER ROOF

WHERE UNDERFLOOR HEATING SYSTEM IS TO BE INSTALLED, FLOORS TO COMPLY WITH SANS 10400 PART XA.

1. ROOF ASSEMBLY, ROOF COVERING, FASCIAS AND MATERIALS TO COMPLY WITH SANS 10400 PART L AND SANS 10400

PURLIN CENTERS AND TIMBER SIZES TO BE SPECIFIED BY SPECIALIST AND TO COMPLY WITH PART L OF SANS 10400.

ALL STRUCTURAL TIMBER DESIGN TO COMPLY WITH STRUCTURAL ENGINEERS DESIGN & SPECIFICATION.

ALL PARAPETS TO HAVE FLASHING & COUNTER FLASHING, TO COMPLY SANS 10400 PART L.

FLAT ROOF AREAS - CONCRETE BEAMS TO ENGINEERS DESIGN AND SPECIFICATION.

WATERPROOFING BY SPECIALISTS, TO COMPLY WITH SANS 10400 PART L.

SKYLIGHTS BY SPECIALISTS, TO COMPLY WITH SANS 10400 PART XA.

ALL DOORS AND WINDOWS TO COMPLY WITH SANS 10400 PART O.

ALL FENESTRATION TO COMPLY WITH PART XA OF SANS 10400.

ALL GLAZING TO COMPLY WITH PART N OF SANS 10400.

ALL WATERPROOFING REQUIREMENTS TO COMPLY WITH SANS 10400 PARTS J, K AND L.

STORMWATER DISPOSAL TO COMPLY WITH SANS 10400 PART R. HOT WATER SUPPLY TO COMPLY WITH SANS 10400 PART XA. ALL PLUMBING WORK TO BE CARRIED OUT BY LICENSED DRAINLAYERS & PLUMBERS. DRAINS UNDER BUILDINGS TO BE STRAIGHT RUNS, ENCASED IN 100mm CONCRETE ALL AROUND, WITH LE'S AT EACH I.E'S TO ALL BENDS & JUNCTIONS TO BE EASILY ACCESSIBLE. I.E'S TO HAVE CLEARLY MARKED GROUND COVERS. RODDING EYES TO BE PROVIDED WHERE NECESSARY. ALL SOIL PIPES TO BE 110mm Ø UPVC DRAINS AND TO MINIMUM FALL OF 1:40. TOP OF ANY DRAIN TO BE AT LEAST 300mm BELOW N.G.L.

ALL WASTE FITTINGS TO HAVE DEEP "P" RESEALED TRAPS AND TO BE FULLY ACCESSIBLE FOR REPAIRS & CLEANING. A MANHOLE TO BE PROVIDED WITHIN 1200mm OF STAND BOUNDARY. 4. SOIL PIPES HAVING VERTICAL DROP EXCEEDING 1200mm TO THE MAIN DRAIN TO BE ANTI-SYPHONED. GEYSERS TO BE SOLAR GEYSERS, POSITIONED TO ARCHITECTS SPECIFICATIONS AND TO BE INSTALLED BY

ALL WASTE PIPES TO BE MINIMUM 50mmØ INTERNAL.

WATER FEATURES AND SWIMMING POOL: WATER FEATURES AND SWIMMING POOL TO COMPLY WITH SANS 10400 PART D. SWIMMING POOL COVER TO COMPLY WITH SANS 1390. WATER FEATURES AND SWIMMING POOL MAY COMPLY WITH SANS 10134 IN ADDITION TO SANS 10400 PART D.

POOL TO BE BUILT ON GROUND STABILISED TO CORRECT COMPACTION. ALL WATERPROOFING TO BE DONE BY SPECIALISTS.

BUILDING TO COMPLY WITH FIRE REGULATIONS AS STIPULATED IN SANS 10400 PART 1 1. ALL WATER TANK SUPPLIERS TO BE ACCREDITED ISO ACCREDITED FRO THE DESIGN, SUPPLY AND INSTALLATION OF PRESTANKS. TO SANS 10329:2020

- . CONTRACTORS TO ENSURE COMPLIANCE TO ENGINEER'S SPECIFICATION IN LINE WITH SCHEDULE OF QUALITY CONTROL REQUIREMENTS
- . REPORT ANY OMISSIONS, DISCREPANCIES OR ERRORS IMMEDIATELY TO THE ENGINEER 4. DO NOT SCALE DIMENSIONS FROM THIS DRAWING. UNLESS OTHERWISE STATED.
- 5. SHOULD THE CONTRACTOR PROCEED WITHOUT THE ABOVE APPROVAL, HE DOES SO ENTIRELY
- ALL STRUCTURAL WORK TO BE CHECKED BY AN ENGINEER.
  SOIL CONDITIONS TO BE APPROVED BY RELEVANT ENGINEER.

8. CONTRACTOR SHALL BE DEEMED TO HAVE INSPECTED SITE FOR PRICING PURPOSES.

REVISION SCHEDULE REV REVISION HISTORY 00 INFORMATION

THE SUPPLY AND INSTALLATION OF BULK WATER STORAGE TANKS (VEREENIGING CAMPUS) (37 Voortrekker Street Vereeniging)

CLIENT: SEDIBENG TVET COLLEGE



**VEREENIGING WATER TANKS SPECIFICATIONS AND** LAYOUTS

SCALE: 1:100

STAGE 4: TENDER/DOCUMENTATION

DRAWING NUMBER: SDCL\_CIEG\_031\_VER\_STR\_04\_00

**ISSUED FOR TENDER** 



C/O John Vorster & Karee Streets, Southdowns Office Park - Block D Suite 13. Irene

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