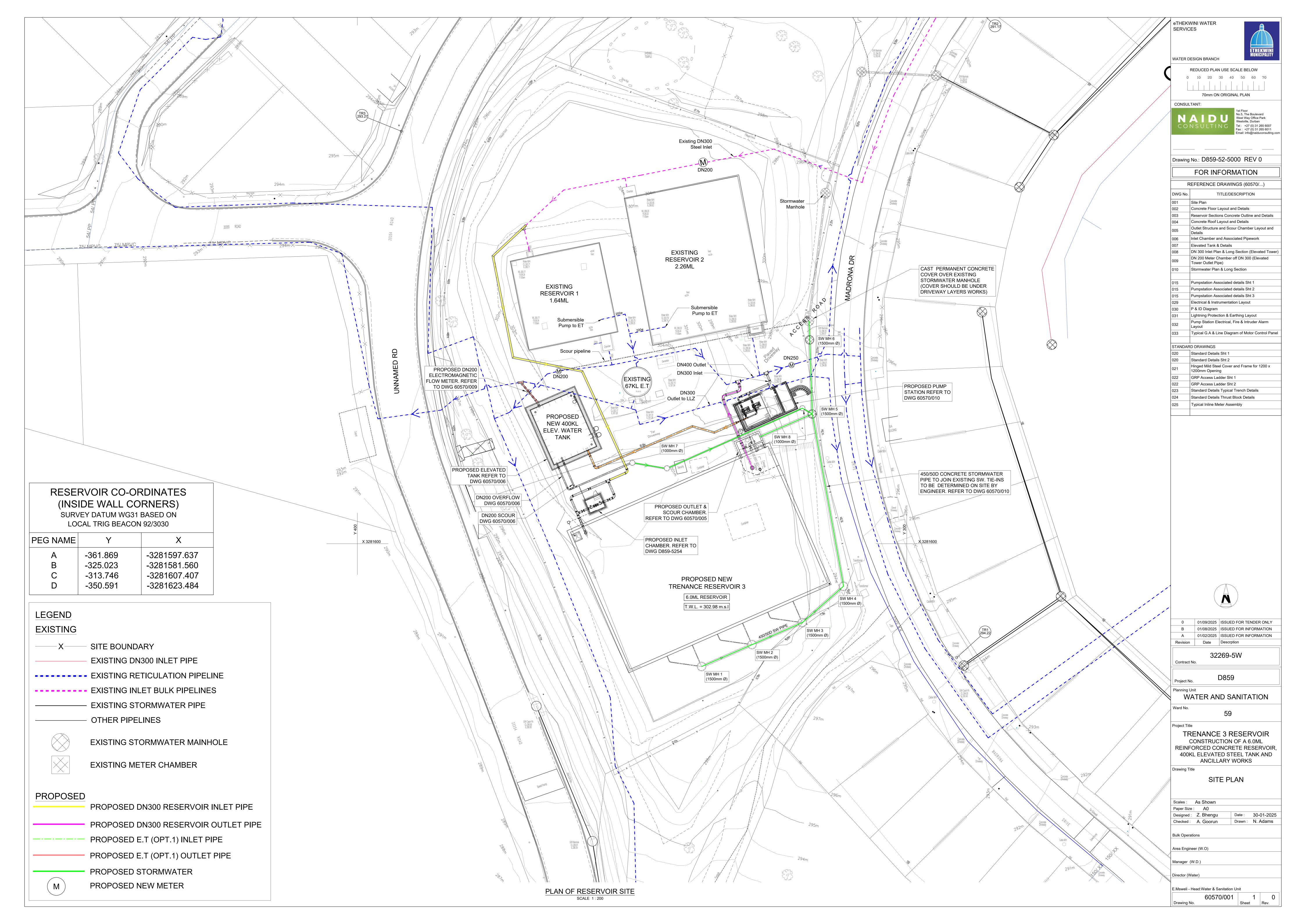
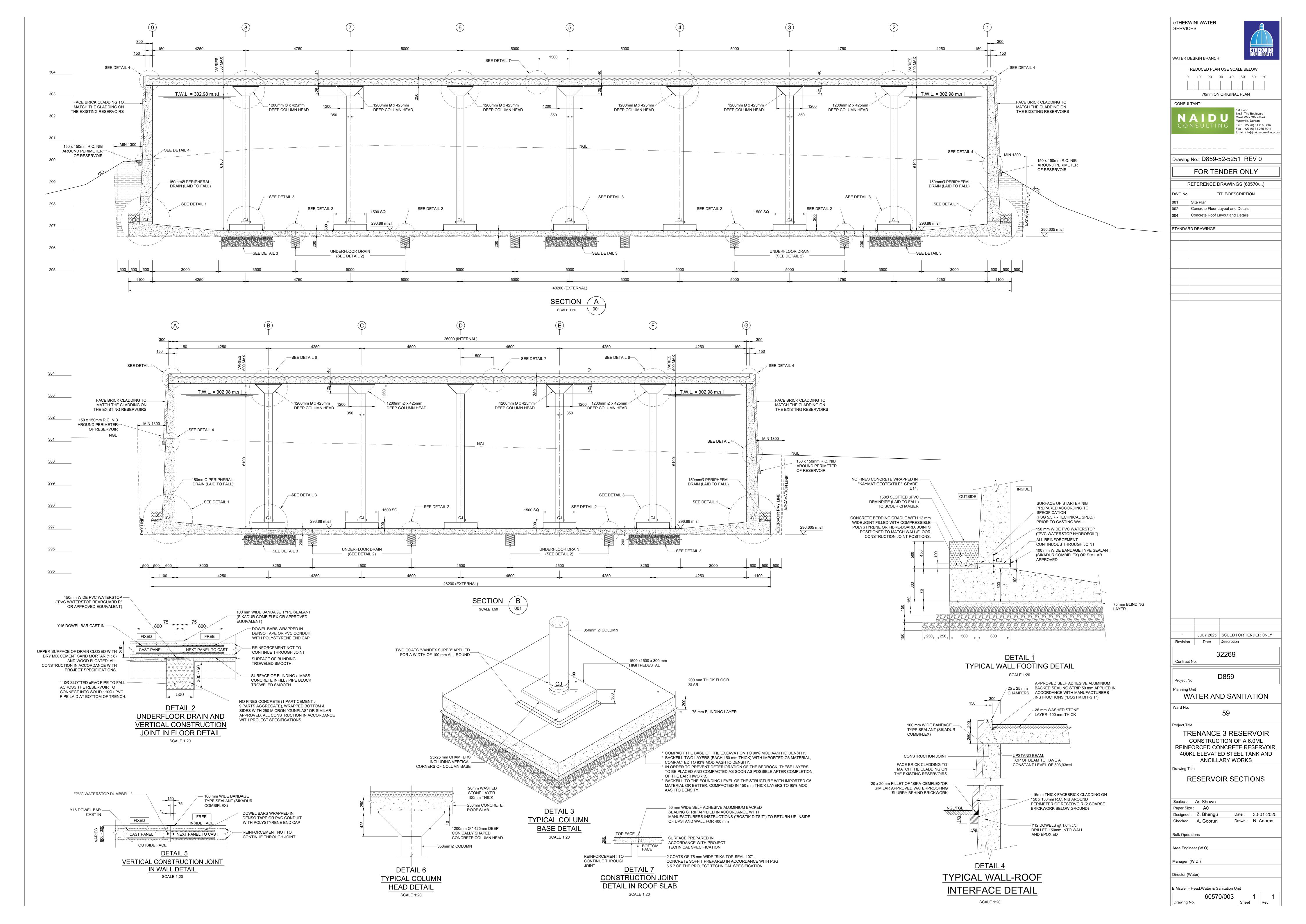
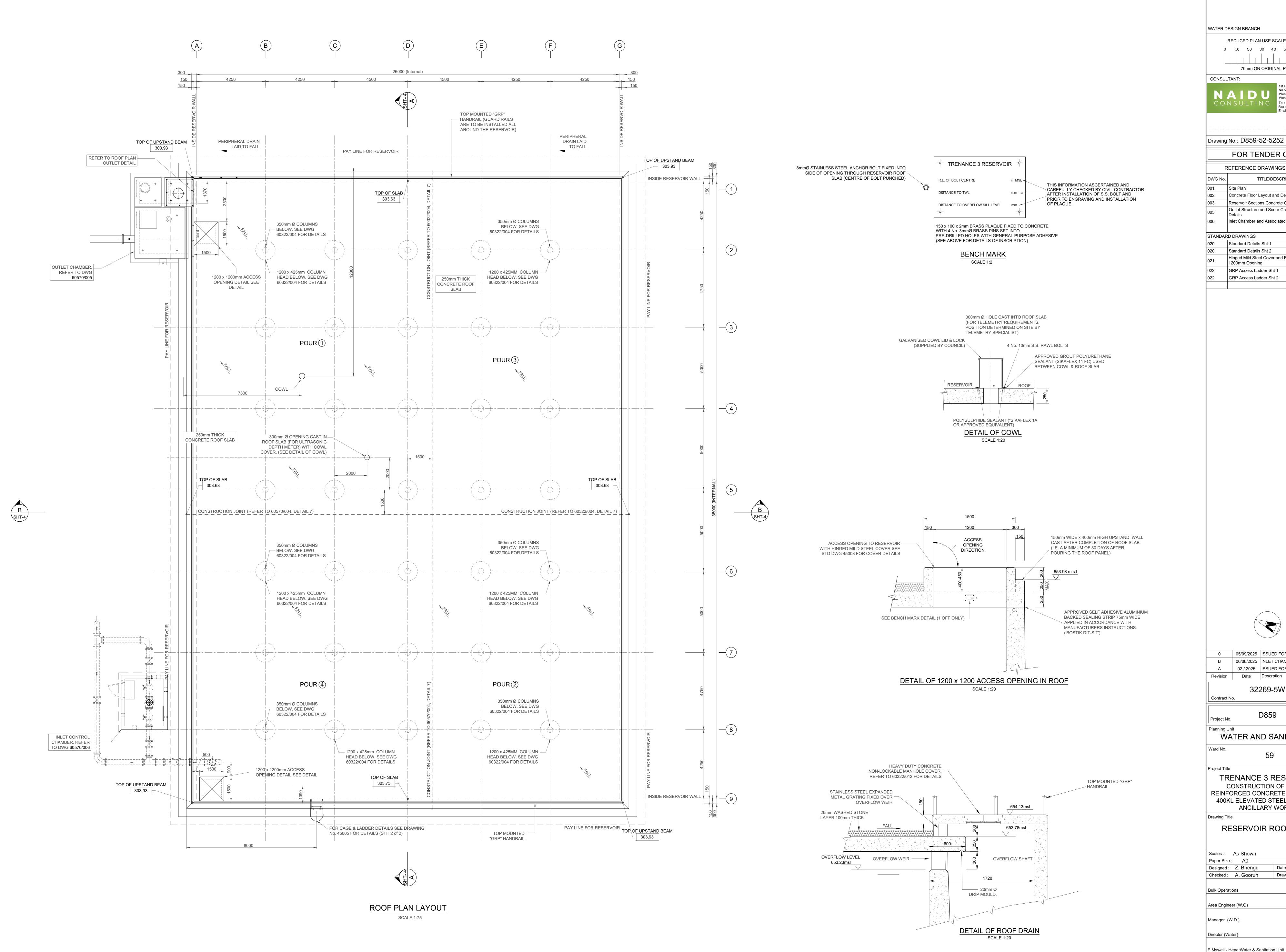
				DRAWING REGISTER	
D859 - TRENANCE 3 RESERVOIR					
DWG No. DWG No		DWG No.	CONTRACT No.	TITLE	SHEET No.
(CONSULTANT)		(CLIENT)	(WS)		NO.
PROJECT	No.			RESERVOIR	
D859	5000	60570/001	32269-5W	Site Plan	1 of 1
D859	5250	60570/002	32269-5W	Concrete Floor Layout and Details	1 of 1
D859	5251	60570/003	32269-5W	Reservoir Sections Concrete Outline and Details	1 of 1
D859	5252	60570/004	32269-5W	Concrete Roof Layout and Details	1 of 1
D859	5253	60570/005	32269-5W	Outlet Structure and Scour Chamber Layout and Details	1 of 1
D859	5254	60570/006	32269-5W	Inlet Chamber and Associated Pipework	1 of 1
D859	5255	60570/007	32269-5W	Elevated Tank & Details	1 of 1
D859	5256	60570/008	32269-5W	DN300 Inlet Plan & Long Section (Elevated Tower)	1 of 1
D859	5257	60570/009	32269-5W	DN200 Meter Chamber off DN300 (Elevated Tower Outlet Pipe)	1 of 1
D859	5258	60570/010	32269-5W	Stormwater Plan & Long Section	1 of 1
				PUMP STATION	
D859	5200	60570/015	32269-5W	Pumpstation Associated details	1 of 3
D859	5200	60570/015	32269-5W	Pumpstation Associated details	2 of 3
D858	5200	60570/015	32269-5W	Pumpstation Associated details	3 of 3
				STANDARD DETAILS	
D859	5400	60570/020	32269-5W	Standard Details	1 of 2
D859	5400	60570/020	32269-5W	Standard Details	2 of 2
D859	5401	60570/021	32269-5W	Hinged Mild Steel Cover and Frame for 1200 x 1200mm Opening	1 of 1
D859	5402	60570/022	32269-5W	GRP Access Ladder	1 of 2
D859	5402	60570/022	32269-5W	GRP Access Ladder	2 of 2
D859	5403	60570/023	32269-5W	Standard Details Typical Trench Details	1 of 1
D859	5404	60570/024	32269-5W	Standard Details Thrust Block Details	1 of 1
D859	5405	60570/025	32269-5W	Typical DN200 Inline Meter Assembly	1 of 1
D859	5406	60570/026	32269-5W	Typical DN250 Inline Meter Assembly	2 of 1
				ELECTRICAL DETAILS	
D859	5500	60570/029	32269-5W	Electrical & Instrumentation Layout	1 of 1
D859	3000	60570/030	32269-5W	P & ID Diagram	1 of 1
D859	5502	60570/031	32269-5W	Lightning Protection & Earthing Layout	1 of 2
D859	5502	60570/031	32269-5W	Lightning Protection & Earthing Layout	2 of 2
D859	5503	60570/032	32269-5W	Pump Station Electrical, Fire & Intruder Alarm Layout	1 of 1
D859	5504	60570/033	32269-5W	Typical G.A & Line Diagram of Motor Control Panel	1 of 1



SERVICES \bigcirc General notes: LEGEND 1. All work in accordance with the relevant sections of SANS * PREFIX "WB" DENOTES WALL BASE * PREFIX "W" DENOTES WALL 26000 (Internal) WATER DESIGN BRANCH 1200 and as required by the local authorities or statutory * PREFIX "FP" DENOTES FLOOR PANEL SW MH 5 (1500mm Ø) REDUCED PLAN USE SCALE BELOW WB2 FP1 bodies. - 16 OFF - 15 OFF - 4 OFF 2. This drawing to be read in conjuction with drawings from the W2 - 16 OFF relevant disciplines: Architect, Civil, Electrical, Mechanical, etc. 70mm ON ORIGINAL PLAN **CONCRETE NOTES** 3. The Engineer shall be notified without delay should there be CONSULTANT: . <u>CONCRETE</u>: BLINDING/MASS CONCRETE: CLASS 15/19 any discrepancies between drawings, details, and 450/50D CONCRETE STORMWATER West Way Office Park CHAMBERS: CLASS 25/19 PIPE TO JOIN EXISTING SW. TIE-INS specifications. RESERVOIR: CLASS 35 TO BE DETERMINED ON SITE BY Tel: +27 (0) 31 265 6007 (AS PER SPECIFICATIONS) Fax: +27 (0) 31 265 6011 ENGINEER. REFER TO DWG 5. Only written dimensions and levels shall be used. 2. CONCRETE COVER: FLOOR SLAB 6. The Contractor shall give the Engineer at least 24 hours 450/50D CONCRETE SCOUR PIPE TO COLUMNS/COLUMN PEDESTALS: 50mm TO JOIN EXISTING SW. TIE-INS TO BE advance notice for inspections. RESERVOIR WALL/BASE DETERMINED ON SITE BY ENGINEER. **ROOF SLAB TOP** : 40mm Drawing No.: D859-52-5250 REV 0 REFER TO DWG 60570/010 7. Where reference is made to the South African Standard ROOF SLAB BOTTOM : 50mm FOR TENDER ONLY Specifications, the current edition shall be used. SW MH 4 RESERVOIR CO-ORDINATES (1500mm Ø) 8. All services to be proved prior to any demolition, excavation, or (INSIDE WALL CORNERS) REFERENCE DRAWINGS (60570/... Z (msl) construction. TITLE/DESCRIPTION 3 281 622.035 SCOUR CHAMBER. REFER 10. Reinforcing to be checked and approved by the Engineer prior PERIPHERAL DRAIN PERIPHERAL DRAIN PERIPHERAL DRAIN 3 281 606.839 297.18 TO DWG 60570/005 LAID TO FALL LAID TO FALL LAID TO FALL 325.592 3 281 583.008 297.18 Reservoir Sections Concrete Outline and Details to casting concrete. PAY LINE FOR RESERVOIR 360.421 3 281 598.205 Concrete Roof Layout and Details 9. Foundation excavations to be inspected and approved by the Outlet Structure and Scour Chamber Layout and INVERT OF RESERVOIR STRUCTURE Structural/Geotechnical Engineer before any blinding is cast. Inlet Chamber and Associated Pipework 3 281 623.483 Stormwater Plan & Long Section 313.746 3 281 607.407 296.68 11. Concrete strength at 28 days: HIGH POINT OF 325.023 3 281 581.560 296.68 PERIPHERAL DRAIN 361.869 3 281 597.637 296.68 NOTE: REINFORCING TANDARD DRAWINGS TO BE 250mm ABOVE TO BE CUT TO SUIT NOTE: PEG 1 to 4 ARE INVERTS OF RESERVOIR HEEL TO UNDER Standard Details Sht 1 FOR CONCRETE 15 MPa Blinding: SIDE OF 110mm PIPE STRUCTURE. Standard Details Sht 2 1500 x 1500mm 30 MPa Hinged Mild Steel Cover and Frame for 1200 x Pilecaps: COLUMN BASES 1200mm Opening 30 MPa Ground beams GRP Access Ladder Sht 1 GRP Access Ladder Sht 2 30 MPa Footings: Standard Details Typical Trench Details 2 40 MPa OUTLET CHAMBER. Columns: Standard Details Thrust Block Details REFER TO DWG 35 MPa 60570/005) Shear walls: 350mm Ø COLUMNS 20 MPa Surface beds: UNDERFLOOR DRAINS UNDERFLOOR DRAINS 30 MPa Slabs: (1500mm Ø) CONSTRUCTION JOINT CONSTRUCTION JOINT Beams: TOP OF FLOOR LEVEL Valve Chambers 30 MPa 296.88 m.s.l 3 SOLID 110mmØ uPVC 12. Cover to steel reinforcement: PIPE FROM BELOW RESERVOIR FLOOR TO MANHOLE 75 mm Pilecaps: 450/50D CONCRETE STORMWATER UNDERFLOOR DRAINS UNDERFLOOR DRAINS UNDERFLOOR DRAINS 50 mm Ground beams: PIPE TO JOIN EXISTING SW. TIE-INS TO BE DETERMINED ON SITE BY 50 mm Foundations: ENGINEER. REFER TO DWG CONSTRUCTION JOINT CONSTRUCTION JOINT 200mm THICK 50 mm Columns: _ 350mm Ø COLUMNS (TYPICAL FOR FLOOR 50 mm Shear walls: 4 50 mm Slabs: 50 mm Beams: 13. Stripping of formwork: UNDERFLOOR DRAINS UNDERFLOOR DRAINS (1500mm Ø) MH 7 (1500mm Ø) 10 days Slabs: 14 days Beams: 5 SOLID 110mmØ uPVC PIPE FROM BELOW Cube test results to be approved prior to stripping of formwork. RESERVOIR FLOOR TO MANHOLE 14. All sharp exposed edges of concrete to be chamfered 25 x UNDERFLOOR DRAINS UNDERFLOOR DRAINS UNDERFLOOR DRAINS 15. All foundations cast onto ground to have a blinding layer, 200mm THICK (TYPICAL FOR FLOOR unless otherwise noted. PANELS) 16. Saw cuts are made as soon as the concrete is firm enough not 6 to be torn or damaged by the cutting blade (usually between 18 FOR CONTINUATION to 24 hours after casting). REFER TO DWG 60570/001 1500 x 1500mm 17. All areas beneath surface beds shall be soil poisoned to SABS COLUMN BASES UNDERFLOOR DRAINS UNDERFLOOR DRAINS Standards. Certificates to be issued to the Engineer. 09 / 2025 ISSUED FOR TENDER ONLY 08 / 2025 ISSUED FOR INFORMATION 18. CJ: Construction Joint. CONSTRUCTION JOINT CONSTRUCTION JOINT 02 / 2025 ISSUED FOR INFORMATION TOP OF FLOOR LEVEL: Date Descrption 296.88 m.s.l TYPICAL WALL BASE DETAIL 32269-5W 7 SOLID 110mmØ uPVC PIPE FROM BELOW RESERVOIR FLOOR UNDERFLOOR DRAINS UNDERFLOOR DRAINS UNDERFLOOR DRAINS WATER AND SANITATION 110mmØ SLOTTED uPVC PIPE TO CONSTRUCTION JOINT CONSTRUCTION JOINT Ward No. FALL ACROSS WIDTH OF RESERVOIR TO CONNECT INTO 350mm Ø SOLID 110mmØ uPVC PIPE COLUMNS BELOW RESERVOIR FLOOR (SEE 60570/003) 8 TRENANCE 3 RESERVOIR **CONSTRUCTION OF A 6.0ML** REINFORCED CONCRETE RESERVOIR, 400KL ELEVATED STEEL TANK AND _1500 x 1500mm ANCILLARY WORKS COLUMN BASES Drawing Title INLET CONTROL RESERVOIR FLOOR PLAN CHAMBER. REFER TO DWG 60570/006) Scales: As Shown Paper Size : A0 Designed: Z. Bhengu Date: 01-09-2025 Checked: A. Goorun PAY LINE FOR RESERVOIR PERIPHERAL DRAIN PERIPHERAL DRAIN LAID TO FALL LAID TO FALL Bulk Operations Area Engineer (W.O) Manager (W.D.) Director (Water) FLOOR PLAN LAYOUT E.Msweli - Head:Water & Sanitation Unit





eTHEKWINI WATER SERVICES REDUCED PLAN USE SCALE BELOW 70mm ON ORIGINAL PLAN No.5, The Boulevard West Way Office Park Westville, Durban Tel: +27 (0) 31 265 6007 Fax: +27 (0) 31 265 6011 Email: info@naiduconsulting.co Drawing No.: D859-52-5252 REV 0 FOR TENDER ONLY REFERENCE DRAWINGS (60570/...) TITLE/DESCRIPTION Concrete Floor Layout and Details Reservoir Sections Concrete Outline and Details Outlet Structure and Scour Chamber Layout and Inlet Chamber and Associated Pipework Standard Details Sht 1 Standard Details Sht 2 Hinged Mild Steel Cover and Frame for 1200 x 1200mm Opening GRP Access Ladder Sht 1 GRP Access Ladder Sht 2 05/09/2025 ISSUED FOR TENDER 06/08/2025 INLET CHAMBER RELOCATION A 02 / 2025 ISSUED FOR INFORMATION Revision Date Descrption 32269-5W WATER AND SANITATION TRENANCE 3 RESERVOIR CONSTRUCTION OF A 6.0ML REINFORCED CONCRETE RESERVOIR, 400KL ELEVATED STEEL TANK AND ANCILLARY WORKS RESERVOIR ROOF PLAN Date: 01-09-2025 Drawn : N. Adams

