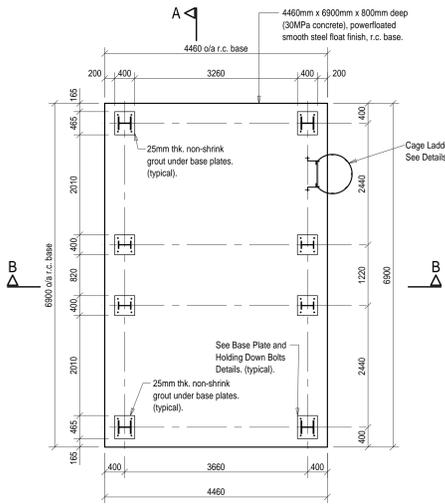
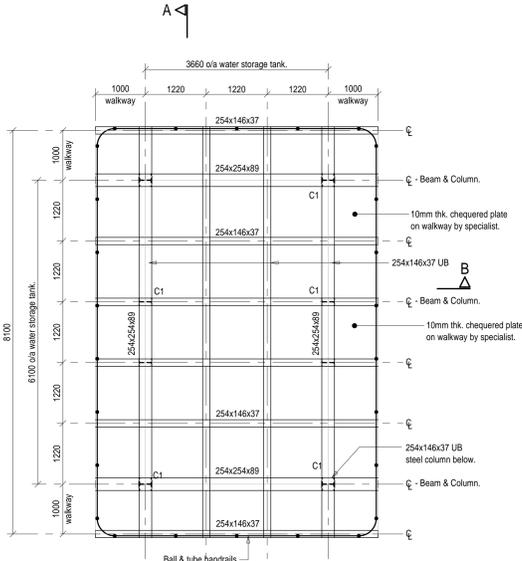


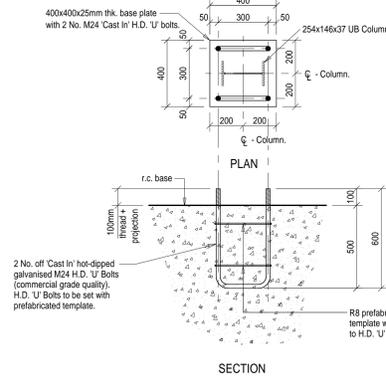
Note:-
A perimeter security fence is to be installed at finished ground level, to Architect's details and specifications.



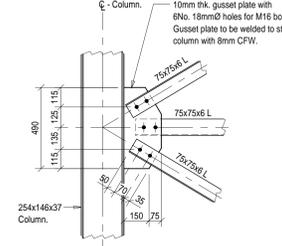
PLAN ON FOUNDATIONS



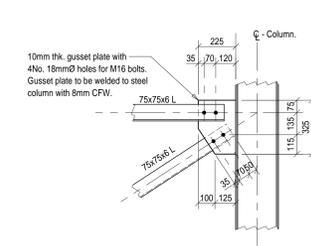
PLAN ON WATER TANK PLATFORM



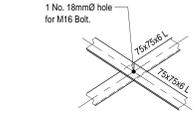
TYPICAL BASE PLATE AND HOLDING DOWN BOLTS DETAILS (9No. off)



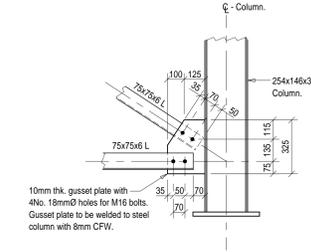
DETAIL : A



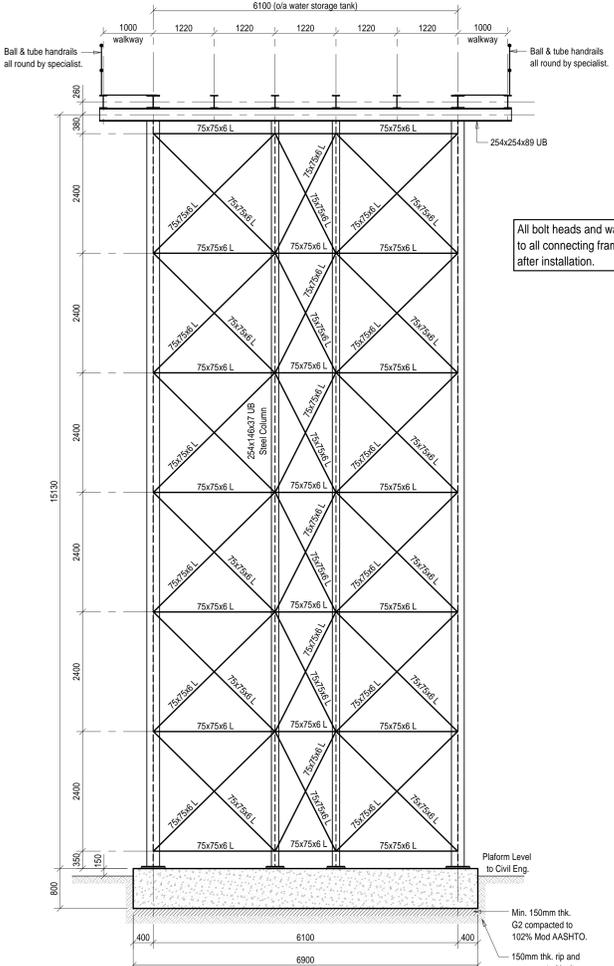
DETAIL : B



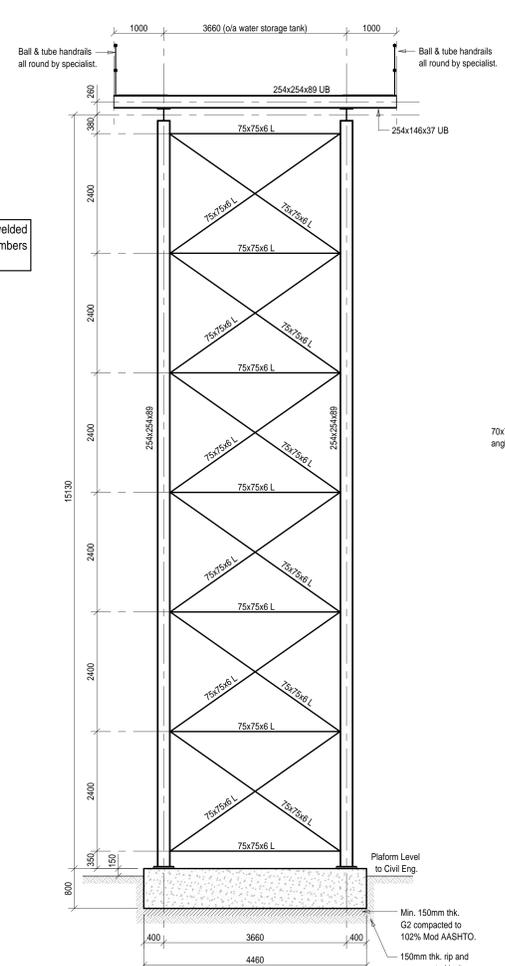
DETAIL : C



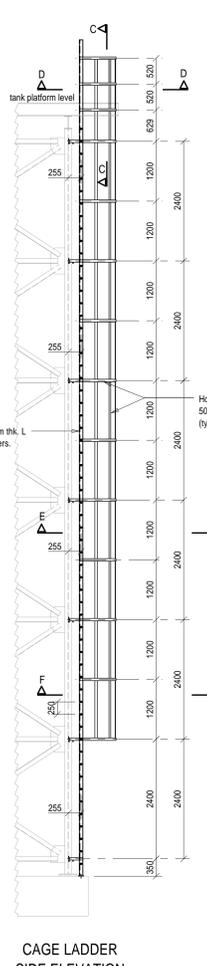
DETAIL : D



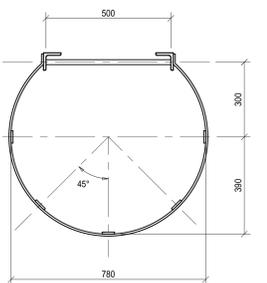
SECTION A - A



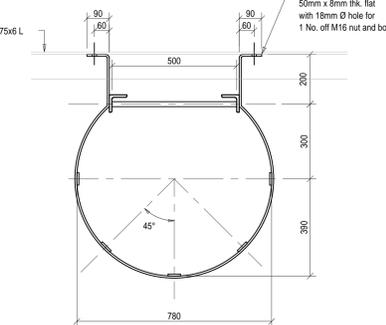
SECTION A - A



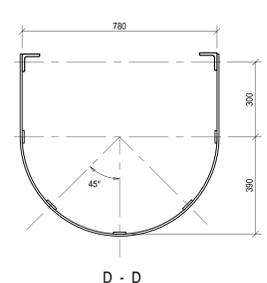
CAGE LADDER SIDE ELEVATION



F - F



E - E



D - D

- Structural Steel Notes:**
- All work to be in accordance with SANS 1200H.
 - All welds to be min. 6mm continuous fillet welds (unless otherwise noted).
 - All structural steelwork to be Grade S355JR (unless otherwise noted).
 - All bolts to be Grade 8.8 bolts and to be hot dipped galvanized to SANS 121:2011 (ISO 1461:2009 (E)).
 - All structural steelwork, bolts, nuts and washers to be hot dipped galvanized to SANS 121:2011 (ISO 1461:2009 (E)). Galvanizing Certificate for all steel work is to be submitted to the Engineer on completion.
 - If the galvanizing is damaged or scratched during the installation process, it must be touched up with Plascon Plasozinc Poly Galv Primer or equally approved.
 - 2 sets of fabrication shop drawings (hard copies) are to be delivered to the Engineer's offices for review and approval before commencing with any fabrication. Note: Email submission of electronic (PDF) copies of shop drawings will NOT be accepted.
 - Certificates confirming the grade stress of all steel work, purins and bolts specified is to be submitted to the Engineer on completion.
 - The Structural Steelwork Contractor is to verify all setting out dimensions on site prior to fabrication.

- GENERAL NOTES:**
- All levels and dimensions to be checked on site.
 - This drawing is to be read in conjunction with the Architectural drawings.
 - All concrete work is to comply with SABS 1200G.
 - Concrete Class:
 - a) Strip Footings & Bases = 25 MPa
 - b) Columns & Staircases = 30 MPa
 - c) Slabs & Beams = 25 MPa
 - d) Retaining Walls = 30 MPa
 - e) Surface Bed Slabs = 25 MPa
 - f) Blinding = 10 MPa
 - Cover to reinforcement:
 - a) Strip Footing & Bases = 50mm
 - b) Columns (Below Ground) = 50mm
 - c) Columns (Above Ground) = 40mm
 - d) Slabs, Beams & Staircases = 30mm
 - e) Slabs (On the Ground) - Bottom Mat = 50mm
 - f) Slabs (On the Ground) - Top Mat = 30mm
 - g) Retaining Walls (Earth Face) = 50mm
 - h) Retaining Walls (Front Face) = 40mm
 - All foundation excavations are to be inspected by the Engineer prior to casting of concrete.
 - All reinforcing fixing is to be inspected by the Structural Engineer prior to casting of concrete.
 - Six concrete cubes to be taken per pour. Three cubes to be tested at seven days, the remainder at twenty eight days. The results are to be forwarded to the Engineer for review and approval.
 - The Contractor is to construct a blinding layer if soil conditions result in reinforcement cover not being maintained.
 - All structural concrete is to be cured for a minimum of five days.
 - All brickwork shown 'hatched' are load bearing. All load bearing brickwork is to be 1AMPa NF3 bricks in Class 2 mortar. The top of all load bearing brickwork (at all concrete interfaces) is to receive 2 layers of 3 ply malthoid placed on a smooth rendered surface.
 - All single skin brickwork is to be stopped 2 courses below the soffit of the slab and completed after the props have been removed.
 - All concrete plaster and brickwork plaster interfaces to receive V-joints.
 - The Engineer requires 24 hours notice for all inspections.

This Drawing is to be read in conjunction with the latest Architectural Drawings and any discrepancies to be reported to the Architect and/or Structural Engineer.

FOR TENDER

REV.	DESCRIPTION	BY	DATE
T1	FOR TENDER	S.N.	11/04/2025
P1	PRELIMINARY FOR PRICING	S.N.	26/11/2024

Professional Person: M. NAR. P/Eng ECSSA Registration No. 20087021

CLIENT:



PROJECT: 19/19/1/59 TB (22)
PROPOSED MSINSINI
POLICE STATION IN KZN

DETAILS: EXTERNAL WORKS
ELEVATED WATER TANK SUPPORT

DISCIPLINE: STRUCTURAL ENGINEERING



DESIGNED:	S.N.	COPYRIGHT RESERVED	SCALES:
DRAWN:	S.N.		1:50 1:20 1:10
APPROVED:	M.N.	PL	DATE: 26/11/2024

DRAWING No: 589 / 124 REV. T1