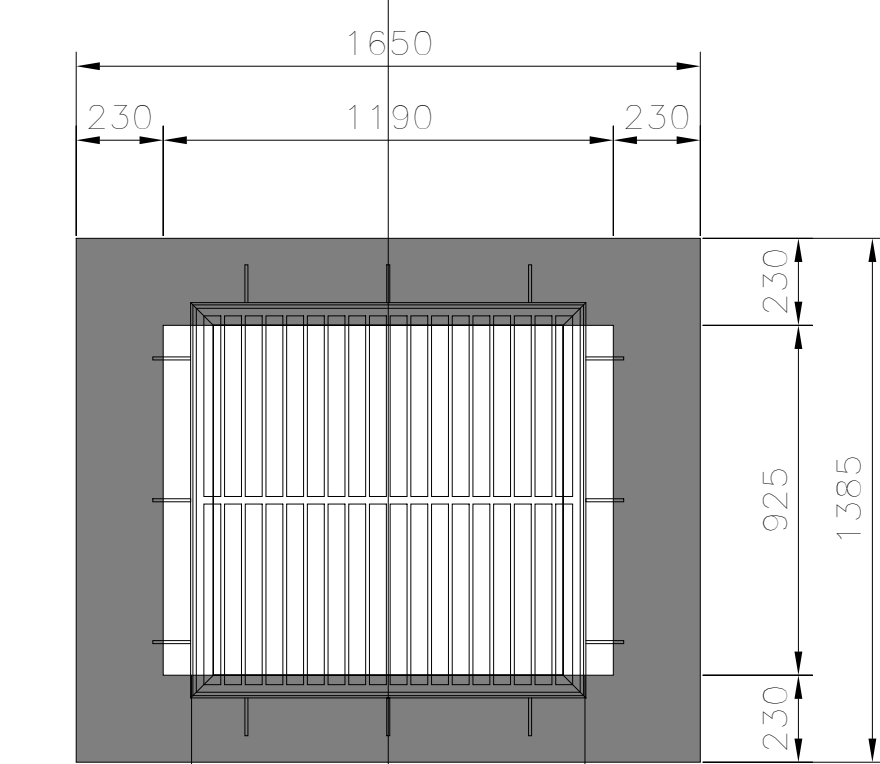
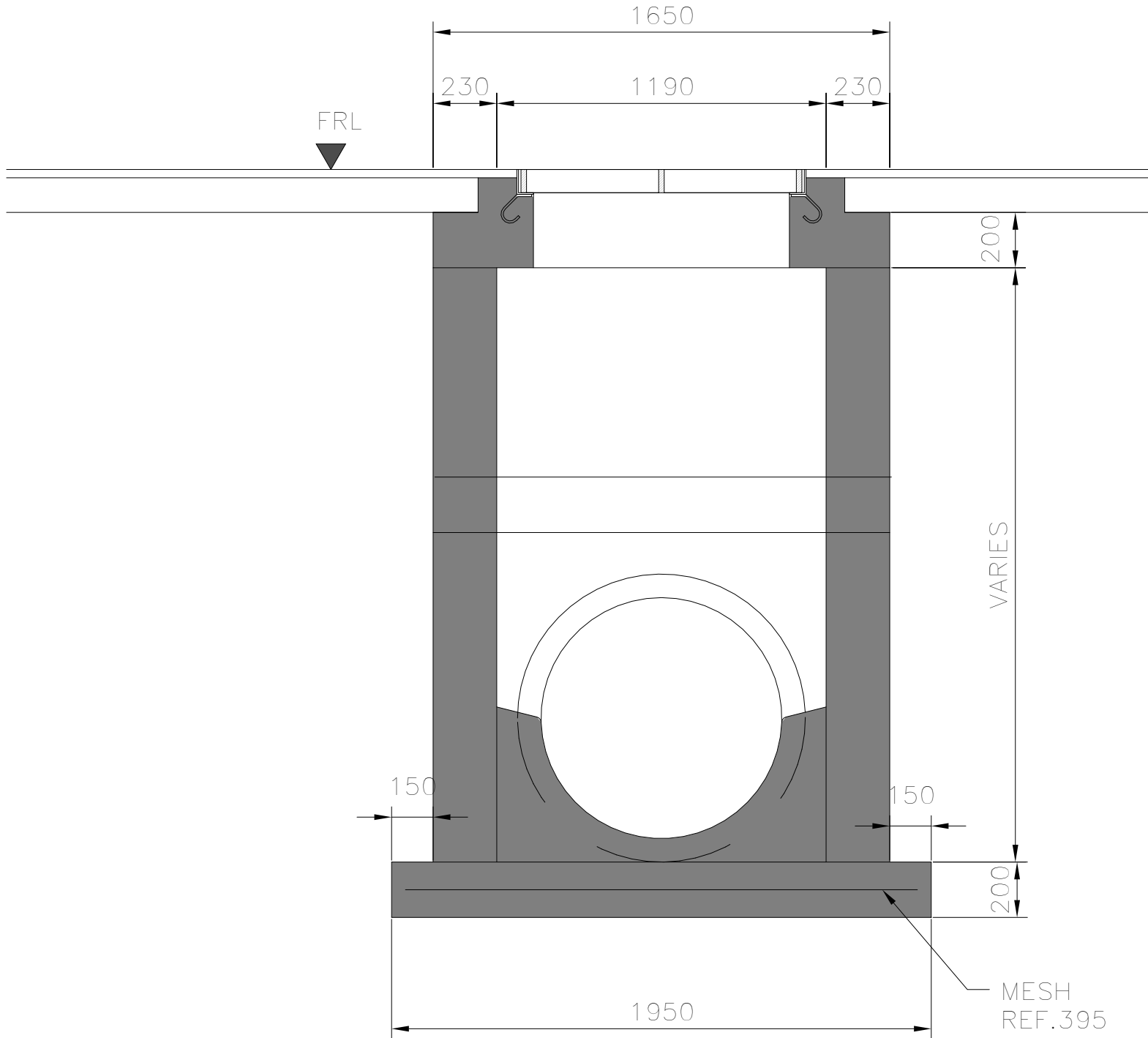
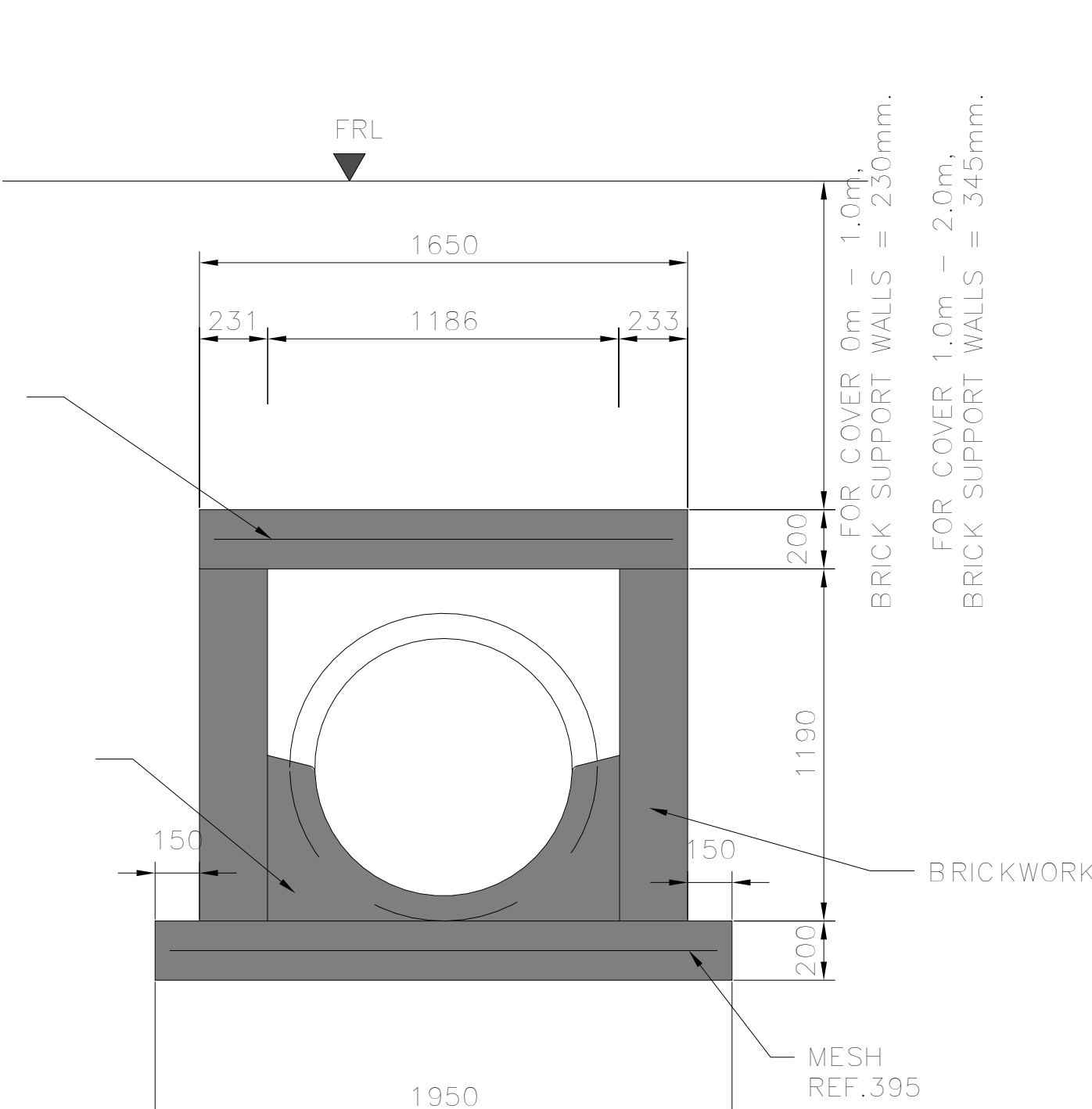




PLAN - PIPE
TERMINAL - SINGLE
GRID
INLET



SECTION
C - C

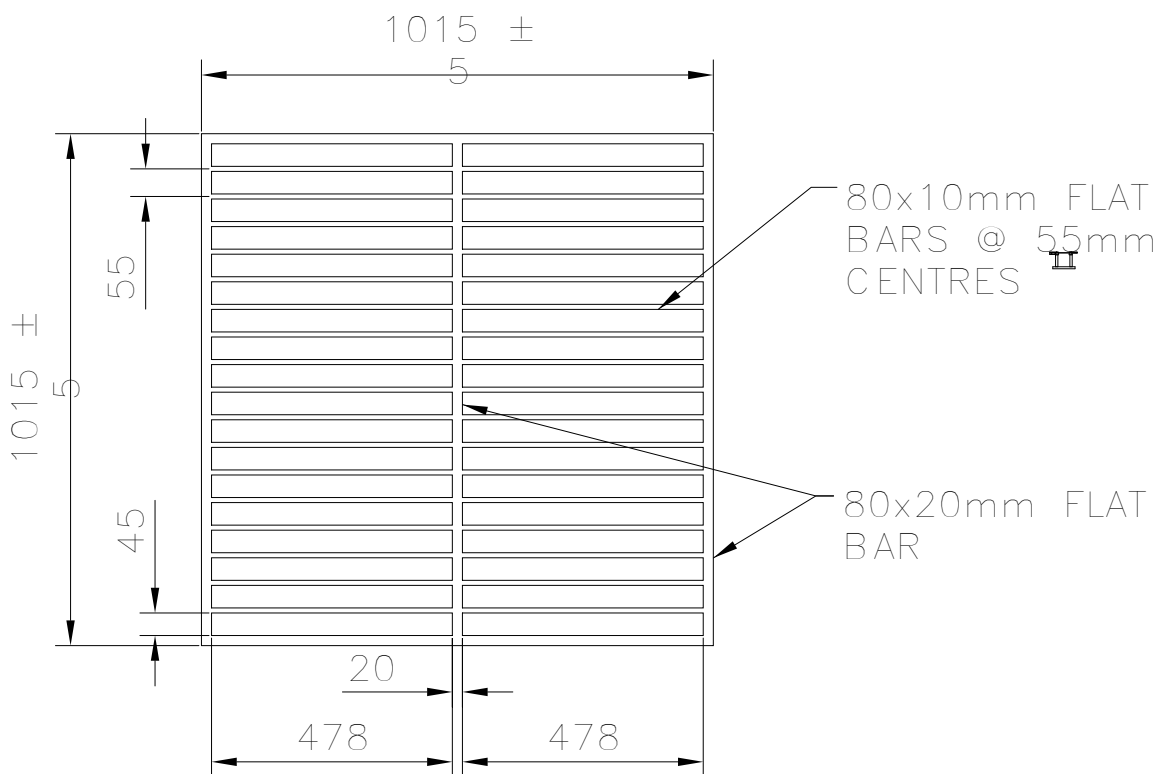


SECTION
D - D

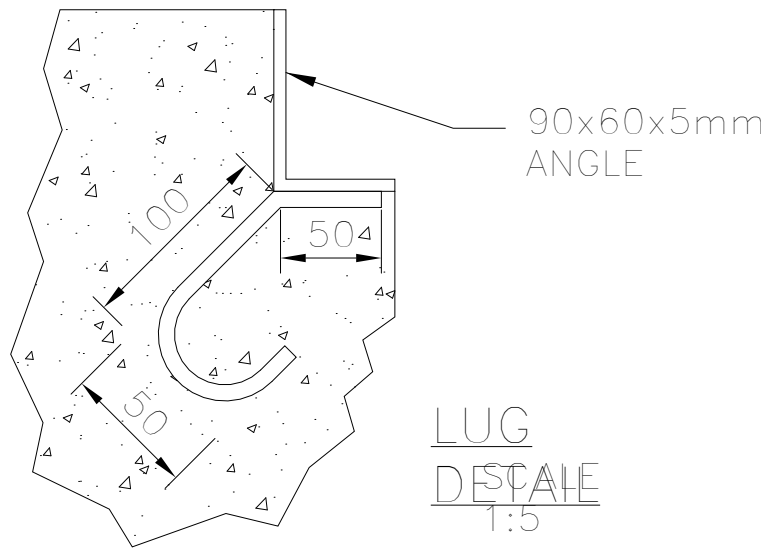
NOTES:

1. REINFORCED CONCRETE STRENGTH
2. 20MPa CONCRETE COVER TO BE
3. STAINLESS STEEL REINFORCEMENTS TO BE PROVIDED IN STORMWATER STRUCTURES. THEY SHALL BE STAGGERED AT 250mm CENTRES VERTICALLY AND 150mm CENTRES HORIZONTALLY.

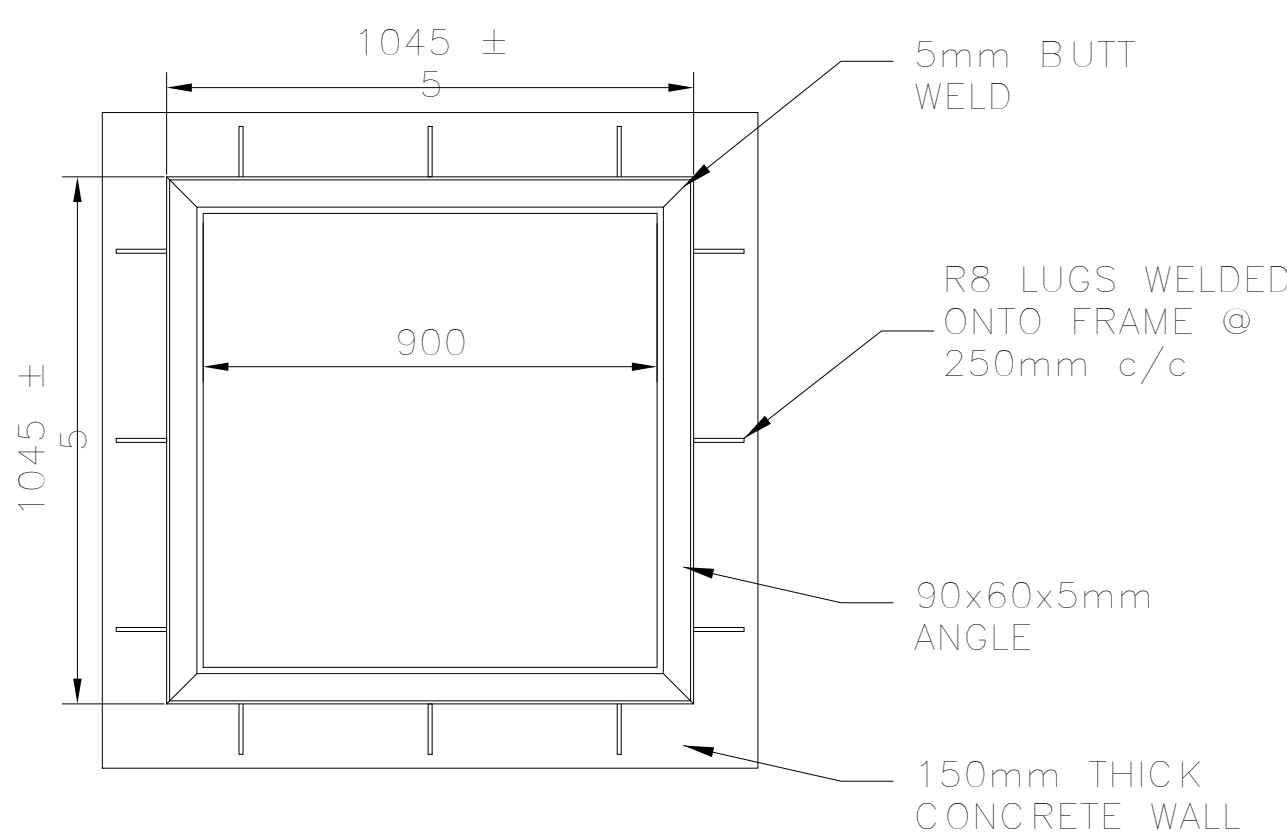
NOTES:
1. REINFORCEMENT SHALL BE FABRICATED ACCORDING TO SANS 10400-K.
2. REINFORCEMENT TO BE HOT DIPPED GALVANISED TO SANS 763 AFTER WELDING.
3. CAPACITY (NO BLOCKAGE) = 0.44m³/s WITH 50mm HEAD, 0.63m³/s WITH 100mm HEAD AND 0.77m³/s WITH 150mm HEAD. SHOULD AN ALTERNATIVE GRID BE SUBMITTED, THE CLEAR OPENING SHALL BE 0.75m².



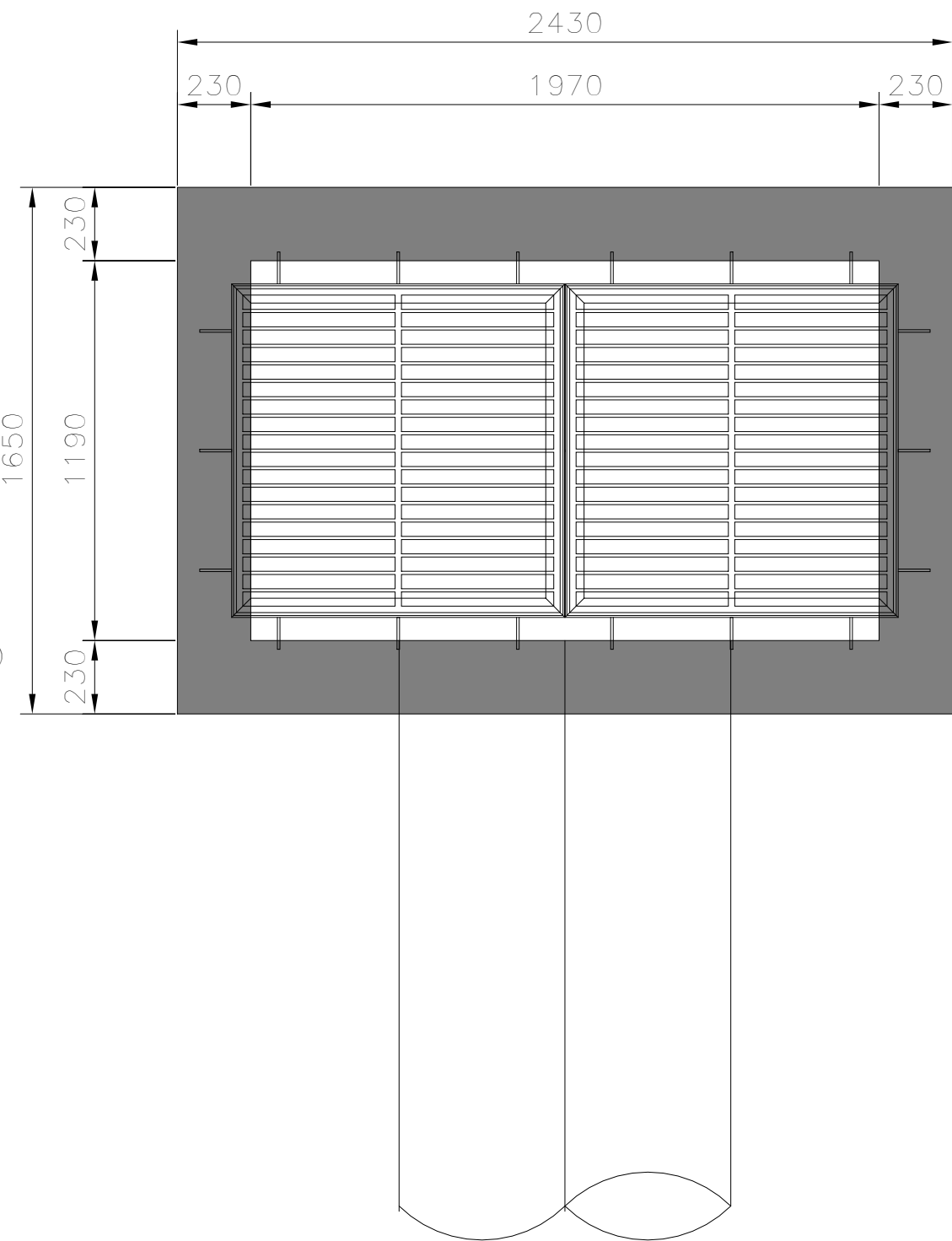
GRID



LUG
DETAIL



GRID INLET FRAME



PLAN - PIPE TERMINAL - DOUBLE GRID
INLET

GENERAL NOTES :

- ALL WORK TO COMPLY WITH THE NATIONAL BUILDING REGULATIONS (SANS 10400).
- QUALITY OF ALL MATERIALS AND WORKMANSHIP TO COMPLY WITH RELEVANT SANS SPECIFICATIONS.
- ALL STRUCTURAL WORK TO BE DESIGNED BY PROF. ENGINEER.
- ALL ELECTRICAL AND PLUMBING WORK TO BE CARRIED OUT BY REGISTERED ARTISANS.
- CONTRACTOR TO VERIFY ALL LEVELS, HEIGHTS AND DIMENSIONS ON SITE AND TO CHECK SAME AGAINST THE DRAWINGS BEFORE PUTTING ANY WORK IN HAND.
- CONTRACTOR IS RESPONSIBLE FOR SETTING OUT OF BUILDINGS.
- THIS DRAWING IS UNDER NO CIRCUMSTANCES TO BE SCALED. ONLY FIGURE DIMENSIONS TO BE USED. IF DIMENSIONS ARE MISSING, CONTACT ARCHITECT.
- A MINIMUM OF 50% BY VOLUME OF ANNUAL AVERAGE HOT WATER HEATING REQUIREMENT SHALL BE PROVIDED BY MEANS OTHER THAN ELECTRICAL RESISTANCE HEATING. SOLAR WATER HEATING SYSTEMS AS PER SANS 1037 AND SANS 1010A. THE INSTALLATION OF SOLAR WATER HEATING SYSTEMS AS PER SANS 1025A.
- ALL OPENINGS EXCEEDING 2.4m SPAN TO BE SPANNED BY PRECAST CONCRETE LINTELS OR SOLID CONCRETE BEAM TO PR. ENGINEER SPECIFICATIONS.
- THE ARCHITECT CANNOT BE HELD RESPONSIBLE FOR ANY DELAY OF PLAN APPROVAL DUE TO ADMINISTRATIVE PROBLEMS BEYOND HIS CONTROL.
- THE OWNER TO INFORM ALL APPOINTED PROFESSIONALS WHEN WORK IS DUE TO START ON SITE AND IF ANY CHANGES ARE MADE AS TO HOW THE FUNCTIONAL REGULATIONS ARE TO BE SATISFIED, OR ANY CHANGES IN THE APPOINTMENT OF COMPETENT PERSONS ARE MADE BEFORE THE COMPLETION OF THE BUILDING, AND EXTEND THE ABOVE APPOINTMENT TO MEET THE REQUIREMENTS OF REGULATIONS A19(B) AND A19(I) WHERE APPLICABLE.

STRUCTURAL DESIGN

- THE STRUCTURAL SYSTEM OF THE BUILDING TO COMPLY WITH THE DETAILED REQUIREMENTS OF PART H, J, K, L, M, N OF SANS 10400.

PUBLIC SAFETY

- A CHANGE IN LEVEL, THE DESIGN OF RAMPS AND DRIVEWAYS, OR ACCESS TO SWIMMING POOLS AND SWIMMING BATHS IS IN ACCORDANCE WITH THE DETAILED REQUIREMENTS OF SANS 10400-D.

SITE OPERATIONS

- THE PROVISION OF SANITARY FACILITIES IS IN ACCORDANCE WITH THE DETAILED REQUIREMENTS OF SANS 10400-F.

EXCAVATIONS

- THE EXCAVATIONS RELATING TO A BUILDING IS LESS THAN 3.0m DEEP AND IS IN ACCORDANCE WITH THE DETAILED REQUIREMENTS OF SANS 10400-G.

FOUNDATIONS

- A GEOTECHNICAL INVESTIGATION IN ACCORDANCE WITH THE RULES IS TO BE CARRIED OUT AND IN ACCORDANCE WITH SANS 10400-B AND THE DETAILED REQUIREMENTS OF SANS 10400-H.
- A COMPETENT PERSON (CIVIL ENGINEERING) IN RESPECT OF DEEP FOOTINGS, SOIL BATHS, COMPACTION OF IN-SITU SOIL OR SUB-SURFACE DRAINAGE TO BE APPOINTED.
- A COMPETENT PERSON (GEOTECHNICAL) IN RESPECT OF GEOTECHNICAL SOLUTIONS OR SOIL IMPROVEMENTS THAT ARE REQUIRED TO BE APPOINTED.

FLOORS

- ALL SUSPENDED FLOORS ARE IN ACCORDANCE WITH SANS 10400-B AND SANS 10400-T AND SANS 10082 AND DETAILED REQUIREMENTS OF SANS 10400-J.
- SLABS SUPPORTED ON THE GROUND ARE IN ACCORDANCE WITH SANS 10400-B, SANS 10400-H, DETAILED REQUIREMENTS OF SANS 10400-J AND A COMPETENT PERSON (CIVIL ENGINEERING) IS TO BE APPOINTED IN RESPECT OF THE SLAB OR FILL.

WALLS

- THE STRUCTURAL STRENGTH AND STABILITY OF A WALL IS IN ACCORDANCE WITH SANS 10400-B AND SANS 10400-T AND DETAILED REQUIREMENTS OF SANS 10400-K.
- THE ROOF FRINGE IS IN ACCORDANCE WITH SANS 10400-B AND DETAILED REQUIREMENTS OF SANS 10400-K.
- THE WATER PENETRATION THROUGH A WALL IS IN ACCORDANCE WITH THE DETAILED REQUIREMENTS OF SANS 10400-L.

STAIRWAYS

- STAIRWAYS ARE IN ACCORDANCE WITH SANS 10400-B AND SANS 1040-T AND THE DETAILED REQUIREMENTS OF SANS 10400-M.
- WALLS, SCREENS, RAILING OR BALUSTRADES TO SUCH STAIRWAYS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SANS 10400-B AND SANS 10400-T AND SANS 10400-K AND SANS 10400-T.

GLAZING

- THE TYPE OF FIXING OF GLAZING IS IN ACCORDANCE WITH SANS 10400-B AND DETAILED REQUIREMENTS OF SANS 10400-N.
- THE SELECTION OF THE GLAZING IS IN ACCORDANCE WITH THE DETAILED REQUIREMENTS OF SANS 10400-N.

ROOFS

- ROOF COVERINGS AND WATERPROOFING SYSTEMS ARE IN ACCORDANCE WITH THE DETAILED REQUIREMENTS OF SANS 10400-L.
- FLAT ROOFS AND RELATED GUTTERS ARE IN ACCORDANCE WITH THE DETAILED REQUIREMENTS OF SANS 10400-L.
- THE ROOF ASSEMBLY AND CEILING ASSEMBLY IN ADDITION TO COMPLYING WITH THE REQUIREMENTS OF SANS 10400-C IN ACCORDANCE WITH THE DETAILED REQUIREMENTS OF SANS 10400-L AND THE ROOF ASSEMBLY IS SUPPORTED ON WALLS THAT COMPLY WITH THE REQUIREMENTS OF SANS 10400-K AND IN ACCORDANCE WITH SANS 10400-B AND SANS 10400-L.
- GUTTERS AND DOWNPILES, IF ANY, ARE SIZED IN ACCORDANCE WITH THE REQUIREMENTS OF SANS 10400-E.
- THE RESISTANCE AND COMBUSTIBILITY OF THE ROOF ASSEMBLY OR ANY CEILING ASSEMBLY ARE IN ACCORDANCE WITH THE DETAILED REQUIREMENTS OF SANS 10400-I AND SANS 10400-T.

LIGHTING AND VENTILATION

- THE LIGHTING IN A HABITABLE ROOM, BATHROOM, SHOWER ROOM AND ROOM CONTAINING A TOILET PAN COMPLIED WITH THE REQUIREMENTS OF SANS 10400-I AND SANS 10400-T.
- THE VENTILATION IS IN ACCORDANCE WITH THE REQUIREMENTS OF SANS 10400-I AND IN ACCORDANCE WITH THE DETAILED REQUIREMENTS OF SANS 10400-C AND IS SUBJECT OF A RATIONAL DESIGN.

DRAINAGE

- THE DESIGN OF THE DRAINAGE SYSTEM IS IN ACCORDANCE WITH THE DETAILED REQUIREMENTS OF SANS 10400-P AND SUBJECT OF A RATIONAL DESIGN OR RATIONAL ASSESSMENT (OR BOTH) AND SUBJECT OF AN AGREEMENT CERTIFICATE.

STORMWATER DISPOSAL

- THE MEANS FOR THE CONTROL OF DISPOSAL OF STORMWATER IS IN ACCORDANCE WITH THE DETAILED REQUIREMENTS OF SANS 10400-R AND SUBJECT OF A RATIONAL DESIGN.

DISABILITIES

- THE MEANS FOR PROVIDING FACILITIES FOR PERSONS WITH DISABILITIES IS IN ACCORDANCE WITH THE DETAILED REQUIREMENTS OF SANS 10400-S AND THE SUBJECT OF A RATIONAL DESIGN.

FIRE PROTECTION

- THE FIRE PROTECTION MEASURES PROVIDED ARE IN ACCORDANCE WITH THE DETAILED REQUIREMENTS OF SANS 10400-T AND SUBJECT OF A RATIONAL DESIGN OR RATIONAL ASSESSMENT.

SPACE HEATING

- THE PROVISION OF SPACE HEATING IS IN ACCORDANCE WITH THE DETAILED REQUIREMENTS OF SANS 10400-V.

FIRE INSTALLATION

- THE FIRE INSTALLATIONS COMPLY WITH THE DETAILED REQUIREMENTS OF SANS 10400-W.
- THE SUPPLY OF WATER IS IN ACCORDANCE WITH THE DETAILED REQUIREMENTS OF SANS 10400-X AND SUBJECT OF A RATIONAL DESIGN.

ENERGY EFFICIENCY IN BUILDINGS

- THE BUILDING IS SO DESIGNED THAT ORIENTATION AND SHADING ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SANS 204.
- EXTERNAL WALLS ARE IN ACCORDANCE WITH THE DETAILED REQUIREMENTS OF SANS 10400-XA.
- PENETRATION IS IN ACCORDANCE WITH SANS 10400-XA.
- ROOF ASSEMBLY CONSTRUCTION IS IN ACCORDANCE WITH SANS 10400-XA.
- FLOORS WITH IN-SLAB HEATING IS IN ACCORDANCE WITH SANS 10400-XA.
- SERVICES THAT USE ENERGY OR CONTROL THE USE OF ENERGY IS IN ACCORDANCE WITH SANS 204.
- HOT WATER SYSTEMS IS IN ACCORDANCE WITH SANS 10400-XA.
- ALL FENESTRATION, AIR FILTRATION WILL BE IN ACCORDANCE WITH SANS 613.
- BUILDING WITH FENESTRATION EXCEEDING 15% OF THE NET FLOOR AREA PER STOREY, SHALL COMPLY WITH SANS 204.
- MIDSTREAM - ZONE 1
- JOHANNESBURG - ZONE 1
- PRETORIA - ZONE 2

COUNCIL STAMP AND COMMENTS



SIGNATURE

OWNER

CONTRACTOR

ENGINEER

ARCHITECT

PAVING AND STORMWATER

223 MAYDON ROAD

TRANSNET TNPA

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REV.

09/10/24

DATE

DWG TITLE: STORMWATER DETAILS

DATE: 2024-10-09

DRAWN BY: S.M

DESIGN BY:

SHEET SIZE: A1

DWG NUMBER: TNPA - C102

REVISION NR : 00

DATE : 09-10-2024