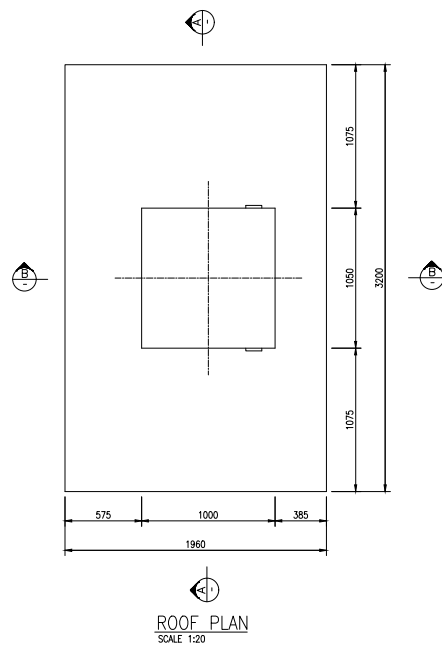




| PIPEWORK |                                             |               |
|----------|---------------------------------------------|---------------|
| No.      | DESCRIPTION                                 | DIMENSION     |
| 1        | 100mm ø FLANGE ADAPTOR                      |               |
| 2        | CONCENTRIC FLANGED REDUCER                  |               |
| 3        | 100mm ø FLANGED PADDOLE PIPE SPOOL<br>PIECE | 1000mm        |
| 4        | 100 mm ø WHEEL OPERATED VALVE               |               |
| 5        | 100mm ø DIRTBOX[PN16]                       |               |
| 6        | SPOOL PIECE F.B.E [PN16]                    | 300mm         |
| 7        | 100mm ø FLANGE ADAPTOR                      |               |
| 8        | 100mm METER                                 |               |
| 9        | 100mm ø PRV                                 |               |
| 10       | EQUAL TEE                                   | 600mm x 200mm |
| 11       | 100mm ø AIR VALVE WITH BALL VALVE           |               |

| REPAIR OF PIPE COATINGS/LININGS                            |               |                   |
|------------------------------------------------------------|---------------|-------------------|
| COATING/LINING                                             | COLOR         | REPAIR MEDIUM     |
| COPON KSIR 88                                              | RED/BLUE      | COPON HYCOTE 151  |
| FUSION BONDED EPOXY (F.B.E.)                               | GREEN         | COPON HYCOTE 151  |
| FUSION BONDED MEDIUM DENSITY POLYETHYLENE (F.B.E.M.D.P.E.) | BLACK         | COPON HYCOTE 151  |
| COPON                                                      | RED           | COPON HYCOTE 151  |
| SOLVENT FREE/BORNE EPOXY (S.F.E./S.B.E.)                   | BLUE/RED/GREY | COPON HYCOTE 151  |
| CEMENT MORTAR                                              | GREY          | EPIDERMAX 338     |
| RISLAN                                                     | BLACK         | RISLAN REPAIR KIT |

CONCRETE

1. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF SANS 1200 G.
  2. CONCRETE CRUSHING STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS :
    - BLINDING LAYER 10 MPa / 19 mm
    - WALL FOOTINGS 25 MPa / 19 mm
    - COLUMN BASES 30 MPa / 19 mm
    - COLUMNS 40 MPa / 19 mm
    - RETAINING WALLS / WALLS 30 MPa / 19 mm
    - SURFACE BED SLABS 25 MPa / 19 mm
    - STRAPPING / GROUND BEAMS 30 MPa / 19 mm
    - SUSPENDED SLABS 30 MPa / 19 mm
    - STAIRS 30 MPa / 19 mm
    - SHAFTS / SHAERALLS 30 MPa / 19 mm
  3. WHEN READY-MADE CONCRETE IS USED TEST CUBES MUST BE TAKEN ON SITE.
  4. ALL LEVEL TOLERANCES FOR BUILDINGS TO BE IN ACCORDANCE WITH SANS 1200G AND SANS 0155
  5. CURING OF CONCRETE MUST BE CARRIED OUT STRICTLY IN ACCORDANCE WITH SANS 1200 G.
  6. THE LOADS FOR WHICH THE STRUCTURE HAS BEEN DESIGNED ARE AS FOLLOWS :
    - OFFICE FLOORS & GROUND FLOOR 400 kg/sqm
    - STAIRS & RAMPS 400 kg/sqm
    - PARKING FLOOR SLABS 300 kg/sqm
    - ROOF SLABS (PLAIN ROOM) 400 kg/sqm
- DEAD LOADS SUCH AS BROWKROW, SCREETS, RAISED AREAS, WHERE SHOWN ON DRAWINGS, ARE ADDED SEPARATELY.
7. STRUCTURAL DRAWINGS MUST BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS AND ANY DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
  8. BROCK WALLS MUST BE BUILT ON FLOOR SLABS UNTIL THE SLABS HAVE REACHED THEIR 14 DAY STRENGTH.
  9. NO "POCKETS" FOR VERTICAL WEATHERS HAVE BEEN ALLOWED.
  10. FOR DRAINAGE RETICULATION BEHIND RETAINING WALLS SEE CIVIL ENGINEERS DRAWING.
  11. STRIPPING TIMES OF SUTTERING AND PROPPING SHALL BE IN ACCORDANCE WITH SANS 1200 G.
  12. CENTER LINE OF ALL COLUMNS ARE PLACED SYMMETRICALLY ON GRID LINES, UNLESS OTHER SHOW.
  13. CONCRETE TOLERANCE TO BE DEGREE OF ACRYDICAL MSL. AS PER SANS 1200 G.
  14. ALL EXPOSED CONCRETE TO HAVE 20 MM x 20 mm CHAMFER
  15. ALL EXPOSED CONCRETE WORK TO BE OFF SHUTTER (REFER TO ARCHD DWG'S)
  16. ALL EXPOSED SLAB EDGES TO HAVE 40mm CORNER OF REINFORCEMENT.
  17. ALL SLABS ARE TO BE PROPPED THROUGH TWO SUPPORTING SLABS (0,0X)
- DURING CASTING OPERATIONS CONSTRUCTION LOADS ARE NOT TO EXCEED DESIGN LOADS.
- NOTE: PROPPING TO THE LOWER FLOOR SLABS ARE TO BE LOWERED TO ALLOW THE CONCRETE TO SET. THE SLAB SHALL BE REINFORCED BEFORE THE NEW FLOOR SLAB.
- CONTRACTOR IS TO TAKE NOTE THAT THE 675 T/C.G.F. TRANSFER SLAB REQUIRES SPECIAL PROPPING TO BE INSTALLED OVER THREE OR MORE SLABS CAST
17. CONSTRUCTION JOINTS IN SLAB :-
- BETWEEN COMINGING TO NEW CONCRETE THE SURFACE OF THE OLD CONCRETE SHALL BE CLEANED AND SCABBLED TO EXPOSE THE AGGREGATE AND SHALL BE KEPT WET FOR TWO HOURS BEFORE CASTING. THE OLD CONCRETE MUST BE SLOSHED WITH CEMENT BEFORE CASTING.

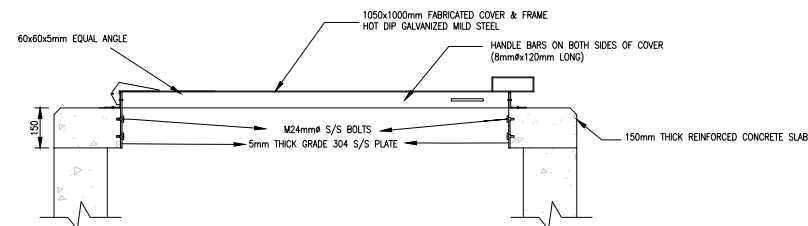
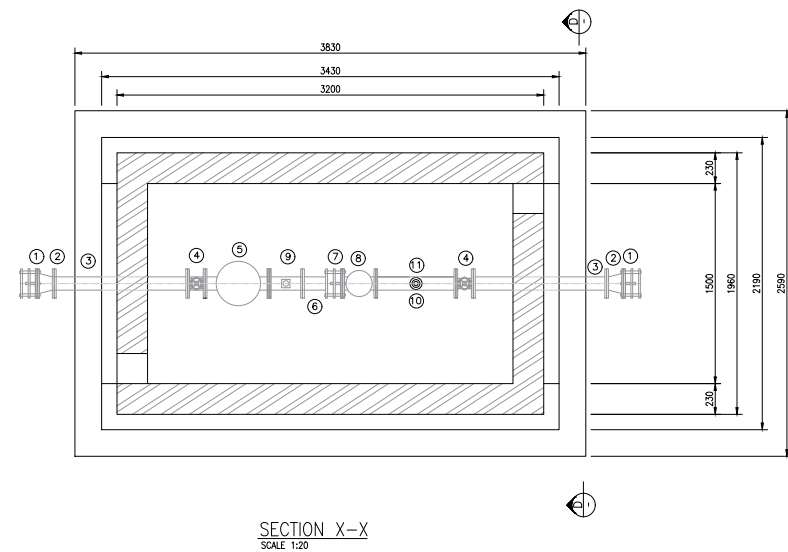
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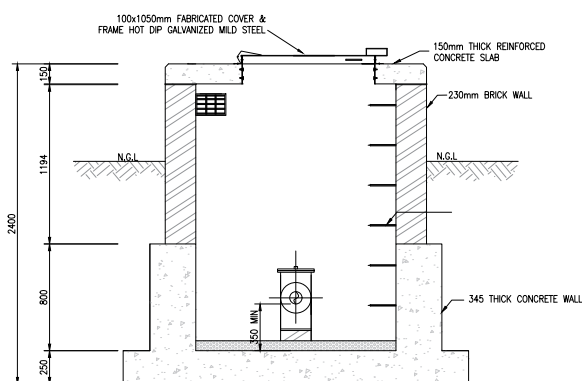
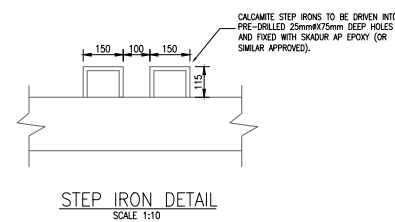
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| A   | MAY 2026 | ISSUED FOR INFORMATION | G.S   |
| NO. | DATE     | REVISION               | DRAWN |



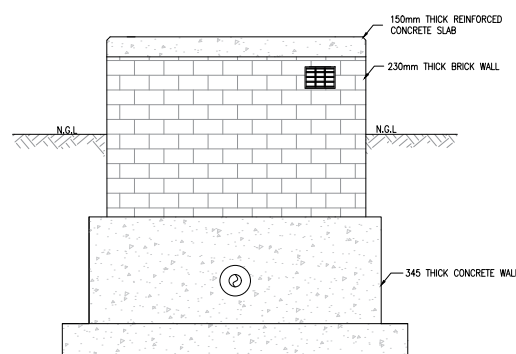
NOTES: PIPE WORK

1. EXACT PIPE INSTALLATION TO BE INDICATED BY ENGINEER.
2. 2"OR PIPES Laid WITH GRADES UP TO +11.0; THE PIPE INSTALLATIONS IS TO BE INSTALLED IN-LINE & AT GRADE. PIPE Laid AT GRADES AT GREATER THAN +11.0 THE PIPE INSTALLATION IS TO BE HORIZONTAL.
3. LOCATIONS TO BE CONFIRMED DIMENSIONS OF ALL NEW STEEL PIPE WORK PRIOR TO FABRICATION AND INSTALLATION.
4. 4"OR INSTALLATION ALL FABRICATE PIPE WORK TO BE EXTERNALLY COATED AND INTERNALLY LINED WITH INSULATION OR APPROVED EQUIVALENT.
5. 5"OR TO INSTALLATION AND ASSEMBLY ALL EXPOSED FLANGE FACES TO BE COATED WITH COPPER BITUMASTO BEAT TO A MINIMUM THICKNESS OF 300 MICRONS.
6. 6"OR PIPE WORK HAS BEEN INSTALLED ALL DAMAGED STEEL PIPE WORK IS TO BE REPAIRED USING APPROVED PROCEDURE AS PER TABLE REFERENCE OF PIPE COATINGS/LININGS
7. ALL GATE VALVES TO BE INSTALLED UNDER STEERING RINGS AND NO. 8W VALVE COVER FOR PERMANENT CLOSURE OF THE VALVE.
8. ALL STEEL PIPING ACCORDANCE WITH SABS 1123 TABLE 1000(PN16).
9. ALL STEEL PIPING TO BE IN ACCORDANCE WITH SABS 719-MEDIUM GRADE-6mm THICK.
10. ENDS OF EXISTING AC PIPE TO BE CUT AND REMOVED (WHERE APPLICABLE).

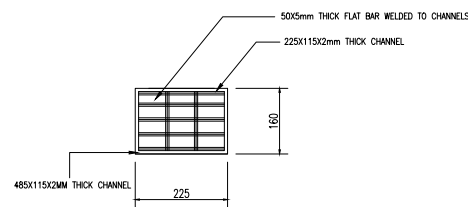
300mm STEP IRONS TO BE  
CAST INTO WALL AT 300MM C/C  
N.B STAINLESS STEEL LADDERS MUST  
BE PROVIDED FOR DEPTHS >2.5m



SECTION B-B WITH FABRICATED ROOF COVER  
SCALE 1:20

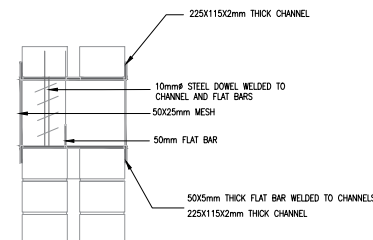


ELEVATION D-D  
SCALE 1:20



FRONT ELEVATION  
N.T.S.

AIRVENT DETAIL  
N.T.S.



SECTION  
N.T.S

CONSULTING ENGINEERS



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|         |                             |
|---------|-----------------------------|
| PROJECT | COMPLETION OF NONDABUYA WSS |
|---------|-----------------------------|

|               |
|---------------|
| DRAWING TITLE |
|---------------|

### TYPICAL 100/150mm BULK METER/PRV INSTALLATION

|              |           |          |        |                                                   |
|--------------|-----------|----------|--------|---------------------------------------------------|
|              | SIGNATURE | DATE     | FR.No. | SHEET SIZE<br><b>A0</b>                           |
| DESIGNED     | K.T       | MAY 2026 |        |                                                   |
| DRAWN        | G.S       | MAY 2026 |        | SCALE                                             |
| CHECKED      | N.N       | MAY 2026 |        | AS SHOWN                                          |
| APPROVED     |           |          |        | DWG STATUS<br><b>P</b>                            |
| CO-ORDINATOR |           |          |        | <b>P</b> = PRELIMINARY<br><b>C</b> = CONSTRUCTION |

DRAWING NUMBER

UKDM-0057-04

REVISION No.

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