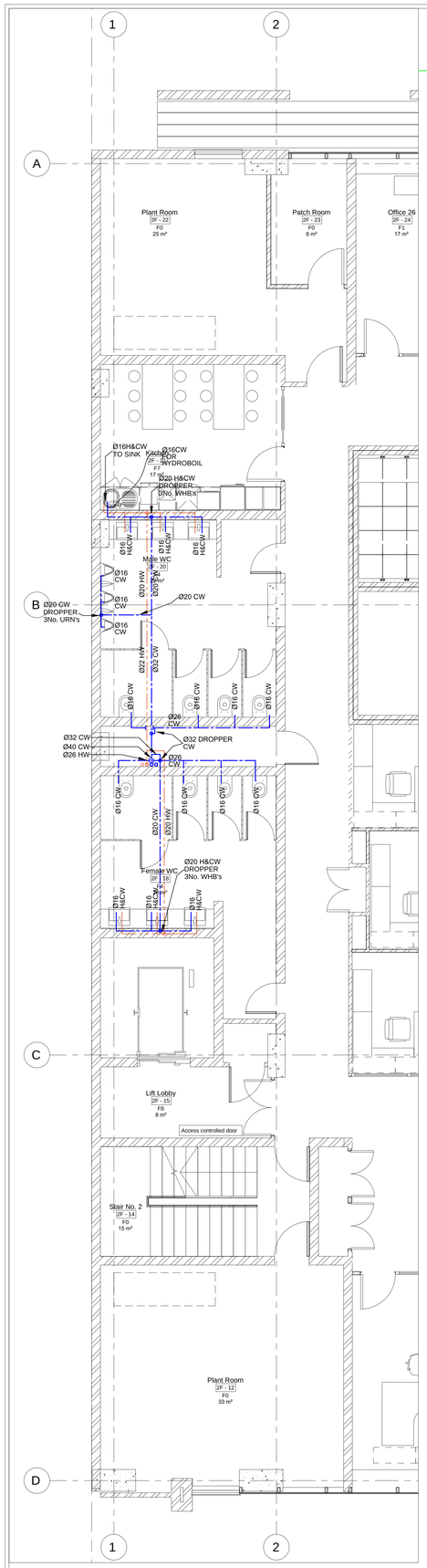
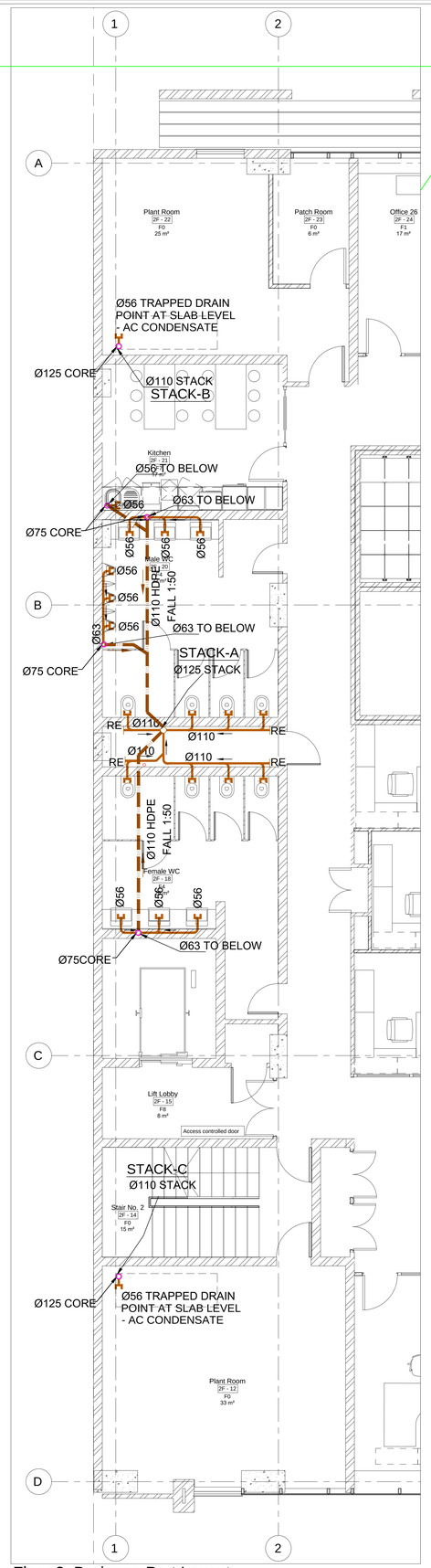


Floor 2 Domestic Water Part Layout

1 : 50

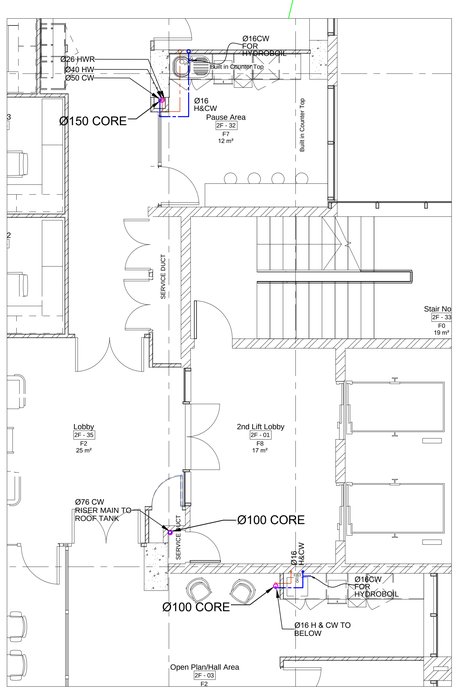


Floor 2 Drainage Part Layout

1 : 50

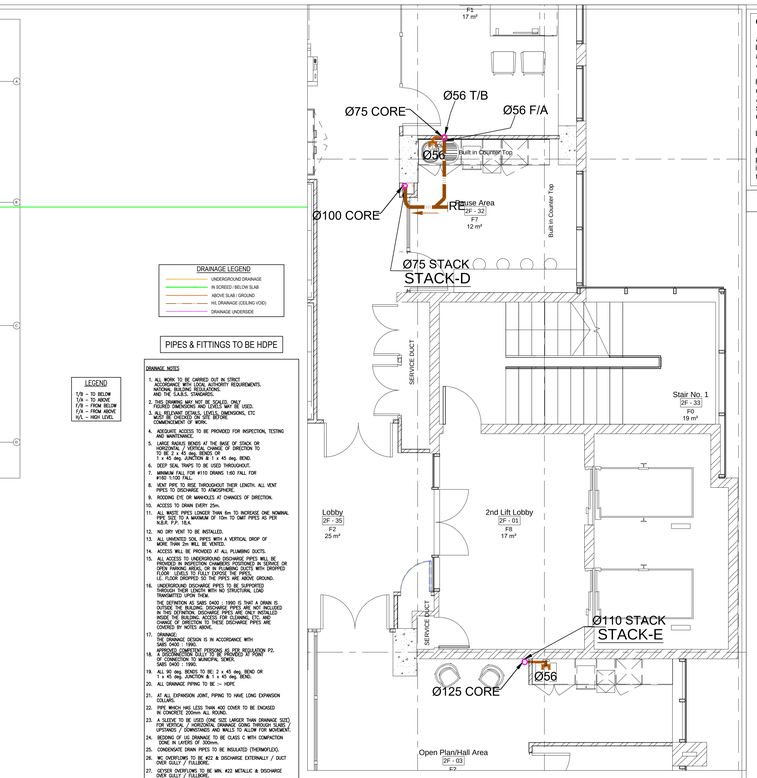
2nd Floor Layout

1 : 200



Floor 2 Domestic Water Part Layout

1 : 50



Floor 2 Drainage Part Layout

1 : 50

DRAINAGE LEGEND

- UNDERGROUND DRAINAGE
- IN SCREED / BELOW SLAB
- ABOVE SLAB / GROUND
- H/L DRAINAGE CEILING (IOE)
- DRAINAGE UNDERSIDE

PIPES & FITTINGS TO BE HDPE

LEGEND

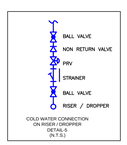
T/B – TO BELOW
T/A – TO ABOVE
F/B – FROM BELOW
F/A – FROM ABOVE
H/L – HIGH LEVEL

DRAINAGE NOTES

1. ALL WORK TO BE CARRIED OUT IN STRICT ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS, NATIONAL BUILDING REGULATIONS AND THE S.A.B.S. STANDARDS.
2. THIS DRAWING MAY NOT BE SCALED, ONLY FIGURED DIMENSIONS AND LEVELS MAY BE USED.
3. ALL RELEVANT DETAILS, LEVELS, DIMENSIONS AND DIRECTION TO BE CHECKED BEFORE COMMENCEMENT OF WORK.
4. ADEQUATE ACCESS TO BE PROVIDED FOR INSPECTION, TESTING AND MAINTENANCE.
5. LARGE RADIUS BENDS AT THE BASE OF STACK OR HORIZONTAL / VERTICAL CHANGE OF DIRECTION TO BE 2 x 45 deg. JUNCTION & 1 x 45 deg. BEND. 1 x 45 deg. JUNCTION & 1 x 45 deg. BEND.
6. DEEP SEAL TRAPS TO BE USED THROUGHOUT.
7. MINIMUM FALL FOR 40ø DRAINS 1:60 FALL FOR 110ø 1:100 FALL.
8. VENT PIPE TO RISE THROUGHOUT THEIR LENGTH. ALL VENT PIPES TO DISCHARGE TO ATMOSPHERE.
9. RODDING EYE OR MANHOLES AT CHANGES OF DIRECTION.
10. ACCESS TO DRAIN EVERY 25m.
11. ALL WASTE PIPES LONGER THAN 6m TO INCREASE ONE NOMINAL PIPE SIZE TO A MAXIMUM OF 70m TO OMIT PIPES AS PER NBR BUT PART H.
12. NO DRY VENT TO BE INSTALLED.
13. ALL WASTE PIPES TO HAVE NO A VERTICAL DROP OF MORE THAN 2m WILL BE ALLOWED.
14. ACCESS WILL BE PROVIDED AT ALL PLUMBING DUCTS.
15. ALL ACCESS TO UNDERGROUND DISCHARGE PIPES WILL BE PROVIDED IN INSPECTION CHAMBERS POSITIONED IN SERVICE OR OPEN PARKING AREAS, OR IN PLUMBING DUCTS WITH DROPPED CEILINGS, LOCATED TO FULFILL THE REQUIREMENTS OF SANS 10400 PART P. ALL PIPES TO BE ABOVE GROUND.
16. UNDERGROUND DISCHARGE PIPES TO BE SUPPORTED THROUGH THEIR LENGTH WITH NO STRUCTURAL LOAD TRANSMITTED UPON THEM.
    THE DEFINITION AS SABS 0400 : 1990 IS THAT A DRAIN IS DEFINED AS PIPE WORK BELOW GROUND LEVEL AND A SEWER AS THE DISTRIBUTION DISCHARGE PIPES, ARE ONLY INSTALLED INSIDE THE BUILDING. ACCESS FOR CLEANING, ETC. AND THE SIZE OF THESE PIPES. THESE DISCHARGE PIPES ARE COVERED BY NOTES ABOVE.
17. DRAINAGE.
    THE DRAINAGE DESIGN IS IN ACCORDANCE WITH SABS 0400 : 1990.
18. ANTI-VANDALISM TRAPS PROVIDED AS PER REGULATION F2.
19. PROVISIONAL TRAPS TO BE PROVIDED AT POINT OF CONNECTION TO MUNICIPAL SEWER. SABS 0400 : 1990.
19. ALL 90 deg. BENDS TO BE: 2 x 45 deg. BEND OR 1 x 45 deg. JUNCTION & 1 x 45 deg. BEND.
20. ALL DRAINAGE PIPING TO BE U – HDPE
21. AT ALL EXPANSION JOINT, PIPING TO HAVE LONG EXPANSION COLLARS.
22. ANY BRANCH WHO LESS THAN 400 COVER TO BE ENCASED IN CONCRETE 300mm ALL ROUND.
23. A SLEEVE TO BE USED (ONE SIZE LARGER THAN DRAINAGE SIZE) FOR VERTICAL / HORIZONTAL DRAINAGE GOING THROUGH SLABS / UPSTANDS / DOWNSTANDS AND WALLS TO ALLOW FOR MOVEMENT.
24. BEDDING OF UG DRAINAGE TO BE CLASS C WITH COMPACTION ZONE IN LAYERS OF 300mm.
25. CONDENSATE DRAIN PIPES TO BE INSULATED (THERMAFLOX).
26. WC OVERFLOWS TO BE ø22 & DISCHARGE EXTERNALLY / DUCT OVER GULLY / FULLBORE.
27. OFFICER OVERFLOWS TO BE MIN. ø22 METALLIC & DISCHARGE NOTE 1 ABOVE GROUND.
    NOTE 2 DISCHARGE FROM T/P VALVE TO BE "COVULET" BEFORE DISCHARGING OVER GULLY / FULLBORE OR ANY DRAINAGE.

WATER SUPPLY LEGEND

- HW - HOT WATER SUPPLY
- CW - DOMESTIC WATER SUPPLY
- CW - GROUND WATER (TO WC's & URINALS ONLY)
- HWR - HOT WATER RETURN



LEGEND

BV – BALL VALVE
BV – BALL VALVE ON DROPPER
BV – BALL VALVE ON RISER
PRV – PRESSURE REDUCING VALVE
NRV – NON RETURN VALVE
DROPPER
RISER / DROPPER
T/B – TO BELOW
T/A – TO ABOVE
F/B – FROM BELOW
F/A – FROM ABOVE

DOMESTIC WATER NOTES

1. ALL WORK TO BE CARRIED OUT IN STRICT ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS, NATIONAL BUILDING REGULATIONS AND THE S.A.B.S. STANDARDS.
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3. ALL RELEVANT DETAILS, LEVELS, DIMENSIONS AND DIRECTION TO BE CHECKED BEFORE COMMENCEMENT OF WORK.
4. ALL PIPING TO BE GEBERIT MEPLA OR EQUAL AND APPROVED
5. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL & OTHER DRAWINGS.

NOTES

1. ALL CONNECTIONS TO WHB'S TO BE ø 16mm ANGLE REGULATING VALVE BELOW WHB'S.
2. ALL CONNECTIONS TO DOMESTIC KITCHEN SINKS TO BE ø20mm.
3. ALL CONNECTIONS TO URINAL TO BE ø16mm.
4. ALL CONNECTIONS TO WC's TO BE ø16mm.
5. ALL CONNECTIONS TO SHOWERS TO BE ø20mm REDUCED TO ø16mm AT STOPCOCKS / MIXERS.
6. PIPES IN CONCRETE TO HAVE NO JOINTS
7. ø20mm TO WASHING MACHINE WITH STOPCOCKS AT _____ mm.
8. ALL PIPING SHALL BE SUBJECTED TO A TEST PRESSURE OF NO LESS THAN 1.5 MPa AND NOT LESS THAN 1.0 MPa IN EXCESS OF MAXIMUM PRESSURE INSTALLED. ALL INSTALLATION PRIOR BEING CONCEALED IN WALL CHASES ETC. & SUCH TEST PRESSURE SHALL BE MAINTAINED FOR AT LEAST MINIMUM ONE HOUR.
9. ALL HOT WATER PIPES TO BE INSULATED WITH THERMAFLEX 25mm OR EQUAL AND APPROVED DOUBLE ZIPPED INSULATION (INTERNAL) TO BE APPROVED BY ENGINEER.
10. PIPE SUPPORT SPACING TO BE AS INDICATED IN THE STANDARD SABS 0400 : 1990.
11. AUTOMATIC AIR BLEED / RELIEF VALVES TO BE FITTED AT ALL HIGH POINTS BOTH HOT & COLD LINES.
12. PIPING TO RUN IN ROOF SPACE FIXED WITH HOLDER BATS ETC. AS DESCRIBED IN THE SPECIFICATION (NOTE THAT NO GALVANIZED HOLDER BATS MAY BE USED TO SUPPORT COPPER PIPING)
13. ALL HOT TAPS TO BE ON LHS AND COLD TAPS ON RHS OF FITTING, EXCEPT PANAFLEXIC WHERE COLD WATER IS NEAREST TO WC.
14. ALL PIPING AND VALVES TO BE COLOUR CODED AND LABELLED AS DETAILED IN THE SPECIFICATION.
15. ALL FITTINGS & BRANCH PIPES FROM RISERS TO HAVE INDIVIDUAL ISOLATING VALVES.
16. ALL PIPE SIZES TO CONFORM WITH ARCHITECTS SANITARY SCHEDULES.
17. STRAINER TO BE POSITIONED HORIZONTALLY.

GENERAL NOTES:

All boundaries, dimensions and levels are to be checked on site before construction and any discrepancies are to be reported to the Architect.

Partial Service: Any discrepancies with site or other information is to be advised to the Architect and direction or approval is to be sought before the implementation of the detail.

Do not scale this drawing.

For the purpose of coordination, all relevant parties must check this information prior to implementation and report any discrepancies to the Architect.

FOR TENDER

REVISIONS

NO.	DATE	DESCRIPTION	REV BY:

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ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH SANS CODE 10400, N.B.R & LOCAL AUTHORITY BYLAWS.

USE FIGURED DIMENSIONS ONLY - DO NOT SCALE. ANY CONSTRUCTION FROM THESE DRAWINGS IS AT OWNER'S RISK.

ALL BOUNDARIES, DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE BEFORE CONSTRUCTION AND ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT.

PARTIAL SERVICE: ANY DISCREPANCIES WITH SITE OR OTHER INFORMATION IS TO BE ADVISED TO THE ARCHITECT AND DIRECTION OR APPROVAL IS TO BE SOUGHT BEFORE IMPLEMENTATION OF THE DRAWING.

FOR THE PURPOSE OF COORDINATION, ALL RELEVANT PARTIES MUST CHECK THIS INFORMATION PRIOR TO IMPLEMENTATION AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.

Mechanical Engineer : Ganny Govender

Signature: Date:

LDM
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Client: Government Printing Works

Signature: Date:

PROJECT:
ERF 3265, Pretoria Central, Goverment Printing Works

ADDRESS:
379 Schubart St, Pretoria Central, Pretoria, 0002, RSA.

DRAWING TITLE:
FLOOR 2 PLUMBING AND DRAINAGE LAYOUT

BUILDING CLASSIFICATION:	CLIMATIC ZONE:
G1	2
Paper Size: A0	SCALE: 1 : 50
Drawn: LM / Checked: GG	DATE: 11/12/2017
PROJECT No.: GP/17-006	REVISION: T0
DRAWING No.: P-4003	