

THE IMPLEMENTATION ARCHITECT TAKES THE FULL RESPONSIBILITY FOR THE IMPLEMENTATION AND EXECUTION OF THESE DRAWINGS.

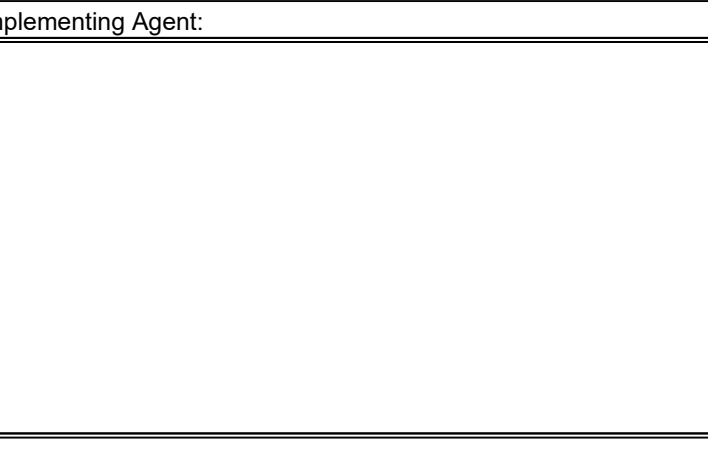
ALL PLANS TO BE READ AND CO-ORDINATED IN CONJUNCTION WITH ALL OTHER PROFESSIONAL CONSULTANTS DRAWINGS

REV. NO	DATE	REVISION	P.W.D.
		ISSUED FOR Tender	

NAME	DEPARTMENT	DATE	SIGNATURE

All materials, fittings, etc. specified on the drawings under a trade name, catalogue number or reference, must be exactly as described. Any other product of equal quality may be used subject to the Architect's written approval.

All building works to be of a higher quality as per Architect's approval above the building industry's accepted average.



discipline: **ARCHITECTURE - WORKING DRAWINGS**

project:

MKHONDO COMMUNITY HEALTH CLINIC
ERF NO: 1827 ETHANDAKUKHANYA

drawing title:

GUARDHOUSE
GROUND FLOOR & DRAINAGE PLAN

ref.no: N10/09/08

designed by: A.MACAMO

scale: AS INDICATED

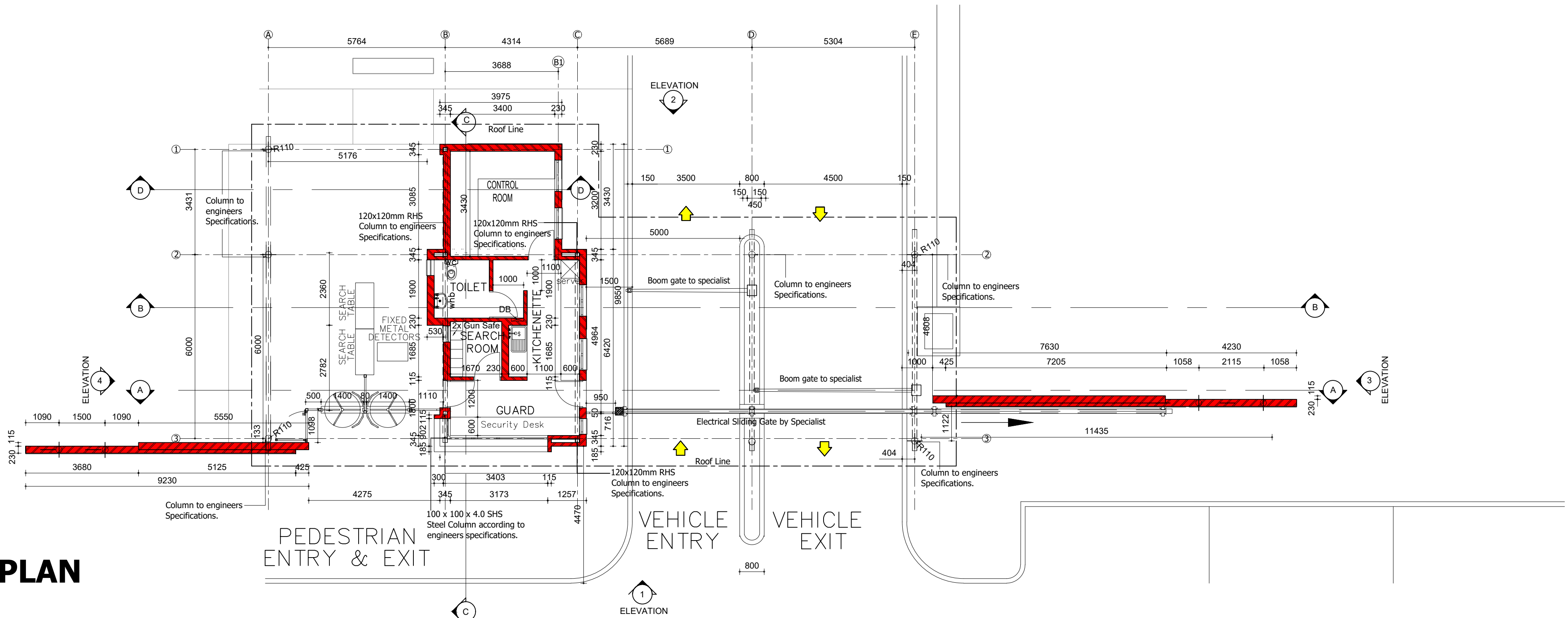
drawn by: A.MACAMO

date: 05/04/2022

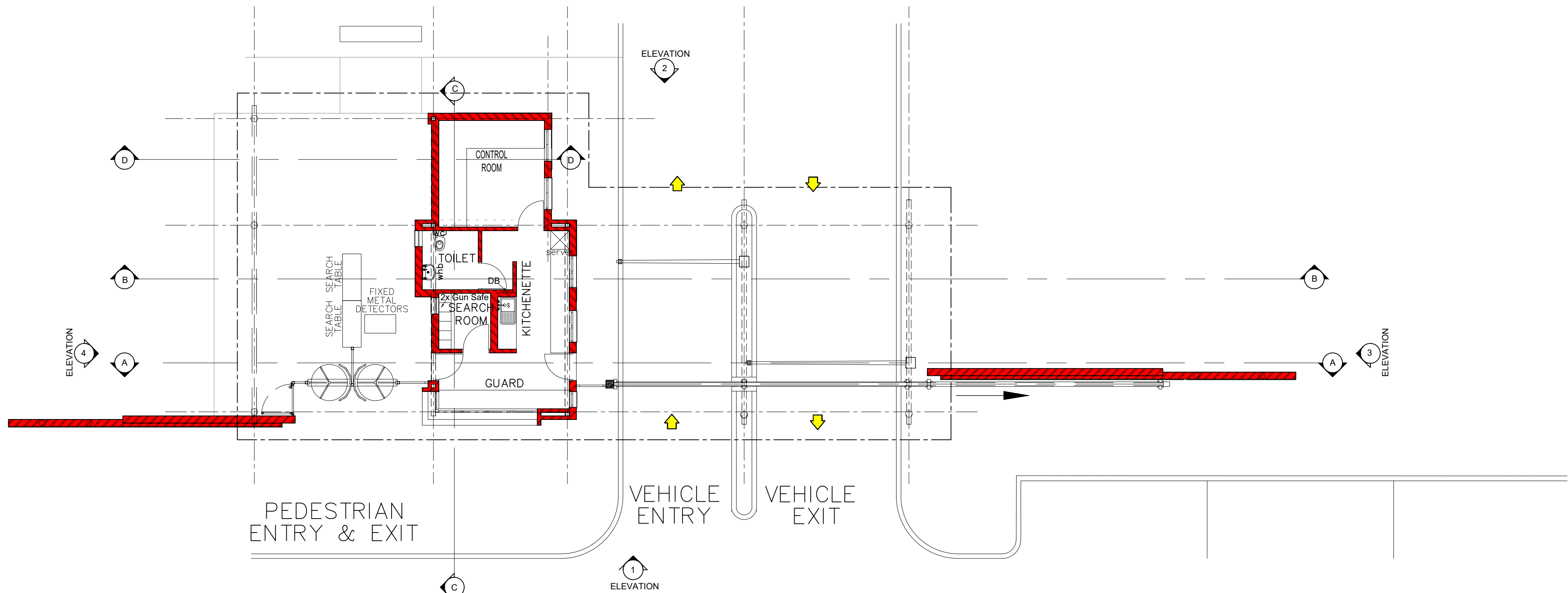
checked by: K.MANGALA

type: CHC (CLINIC)

drawing no. N10/09/08/ WD-GH 001



GROUND FLOOR PLAN
SCALE 1:100



DRAINAGE PLAN
SCALE 1:100

DRAINAGE NOTES :

- The drainage is a one pipe system. The pipe types and sizes, unless otherwise indicated on the drawing are as follows:
Soil pipes : Ø110mm pvc
Waste pipes : Ø110mm pvc
Basins, Sink & Showers : Ø50mm pvc
Soil & Sent pipes : Ø110mm pvc
NB Ensure that the correct type of pipes for underground and above ground are used.
- Vent valves to all waste fittings.
- Ovp's to be carried up to 1800mm above and opening within 6m thereof.
- All soil and waste fittings to be accessible along their entire length.
- All sanitary fixtures to have self-cleaning traps.
- Soil drain to have min fall of either 1:40 or 1:50.
- Soil drain to be min. 300mm below ground level or 100mm if covered by a concrete slab.
- All soil drains under the building to be in straight runs under reinforced slab & surrounded with 300mm concrete with ies at both ends.
- le's to be provided at all bends and junctions.
- Rodding eyes, inspections chambers or manholes to be provided at the following:
a) at all changes in gradient,
b) at intervals exceeding 25m,
c) within 1,5m of sewer connection/septic tank,
d) at highest point,
e) at change of direction exceeding 45 deg.
- water seal depth max 100mm and min. 50mm for soil pipes and 40mm for waste pipes.

- 12.50% of volume of average hot water heating requirement to be provided by means other than electrical resistance heating (normal geysers). That is: heat pumps, solar heating, heat recovery from other systems of processes. All heating systems with thermal performance determined in accordance with the provisions of SANS 6211-1 and SANS 6211-2.
13. All hot water pipes and geysers shall be clad with insulation with a minimum R-value of 1, which means a flexible fibre glass blanket of min. 40mm. thick. Insulation shall be protected against the effects of weather and sunlight, able to withstand the temperatures within the piping.
14. All normal geysers must be provided with drip trays.
15. No deviations from information and construction methods as indicated on drawings, will be allowed without the knowledge and approval of the architect. This applies to all water, drainage work and the installation of water heating devices, as it must comply with all the requirements of at least SANS 10252-1:2004, 1307, 10106 AND 10254. Therefore an accredited plumber must be used.

Laying of drains:
Lay pipes to SANS 1200 Id and SANS 0112.
all sewer and drain pipes to be Marley 110mm diam. upvc or similar approved with flexible ring seal couplings.
All waste pipes to be Marley 50mm diam. upvc or similar approved. All waste and soil fittings to be provided integrally or immediately at its outlet with an effective self cleaning deep seal trap all in accordance with SANS requirements.

NOTE:

Where the length of each section of waste pipe exceeds 2 metres in length, in straight runs, an expansion coupling is to be fitted to connect the pipes together with the spigot entering the socket in the direction of flow to a minimum depth of 57mm. Where pipes exceed 2 metres in length with a number of changes in direction an expansion coupling is to be fitted at one end of the pipe adjacent to a bend.

No waste water connection to stack to be less than 200mm below centre line of w.c. branch inlet pipe, or if above will not discharge below the centre line of w.c. branch inlet pipe.

Subsoil Drains:

- Excavate, lay and backfill in reasonable lengths and without delay. Assume excavations are in soil. Notify the architect if excavations are in harder material.
- Excavate the trench not wider than is necessary to lay, joint and backfill the pipe, and to a depth of 100mm below the required pipe level. The trench must be inspected by the architect before bedding material is placed. Protect the drain against flooding.
- Bed the pipe true to line and grade on 100mm minimum thickness approved granular material over the full trench width. Support the pipe uniformly and continuously, but not on the sockets. Carefully compact the bedding to 90% of the modified ashto density.
- Place the backfill in the trench, up to level of top of the pipe and carefully compact to 90-95% of its maximum density. Ensure the moisture content of the backfill is within 2% of its optimum.

- Fill over the pipe with a 300mm thick layer of the same material and tamp lightly.
- Fill the remainder of the trench in layers not exceeding 300mm with material from the trench excavations, but without organic material or boulders larger than 150mm and compact to 90% of its maximum density. Do not roll or use heavy mechanical compaction until at least 600mm of material has been placed over the pipe.
- Where drain gradient exceeds 1:5, provide concrete anchor blocks to secure the pipe in place.
- Drains under buildings and driveways to be placed in cast iron sleeve and encased in mass concrete.
- Construct cleaning/rodding eyes of pipe of the same material and diam. as drain. Insert junction in drain, or bend in end of drain, and bring branch up to ground level with long radius bends. Rodding eyes should be located immediately upstream of any change of direction and at intervals of not more than 25m in straight pipe runs.

Gulleys and Grease Traps:

- Install 100mm diam. upvc marley overflow gully head with threaded access cap. (code sgh40) according to manufactures recommendations. All in accordance with SANS 791 requirements.
- The overflow level of the gully head must be positioned at least 150mm above the surrounding ground level or 50mm above the level of permanent paving.

DRAINAGE SYMBOLS:

- bath - bath
- whb - wash handbasin
- wc - toilet
- ur - urinal
- sink - sink
- hb - hotwater boiling unit
- slop - slop
- bedw - bedpan washer
- tr - trough
- ie - inspection eye
- re - rodding eye
- VV - 2-way ventilation valve
- prep - preparation bowl
- G - Grabrail

STORMWATER NOTE:

- Install 2 no. sets of 2 no. side by side Ø160mm stormwater drainage pipes cast in Ø400mm concrete surround from courtyard to outside of building. Drainage pipes to be laid on alternative sides of building and to have a min of 1:60 fall towards the natural slope of the site.
- All stormwater design and installation strictly according to civil engineer's detail and approval.

NOTE:

All Civil, Electrical, Structure & Mechanical Information to be referred to each discipline's document respectively.

This drawing to be read in conjunction with the latest revision of all relevant drawings and documentation by Civil and Structural engineers.

ISSUED FOR
INFORMATION