

TOWNSHIP SERVICES CERTIFICATE

NAME OF TOWNSHIP

NAME OF LOCAL AUTHORITY

YEAR WHEN SERVICES WERE INSTALLED

GEOTECHNICAL REPORT REFERENCE NUMBER

IRENE 70

TSHWANE

NHBRC REQUIREMENT	DESCRIPTION	COMMENT
1.	The site and surrounding area shall be shaped to permit the ready drainage of surface water and to prevent ponding.	NA
2.	Natural ponds and water courses located within 10 m of any structure shall be rendered impervious.	NA
3.	Sanitation systems shall not incorporate soakaways.	NO
4.	Backwash and other water from swimming pools shall be discharged into either the stormwater or drainage systems as required by the local authority.	NA
5.	Underground services shall be designed and constructed so as to minimize maintenance requirements and any potential leakage points in wet services and shall, as far as possible, be designed to avoid possible disturbance of the underground environment.	YES
6.	The relevant provisions of SABS 1200 D9, L, LB, LC, LD and LE shall be observed in the installation of all underground services.	YES
7.	The backfilling to service trenches and other excavations shall, except in rock, not be more permeable than the surrounding material.	YES
8.	The stormwater drainage and sewerage system shall incorporate measures to ensure watertightness of conduits and other compartments. Whenever possible, stormwater should be located in lined, surface canals.	NO
9.	Stormwater drainage conduits should be constructed at gradients which will not permit the deposition of silt, or sand, of the type present in the catchment area.	YES
10.	Watermains shall be laid only in road services.	YES
11.	Water piping materials shall be one or more of the following: - pipes of 75 mm and larger diameter: - high impact PVC pipes with vitrified joints - steel pipes with internal and external corrosion protection, - or other flexible (as defined in SABS 0102 Part 1) water pipes with flexible, self anchoring connections, - pipes having a diameter of less than 75 mm - HDPE type IV piping, - polypropylene piping.	NO
12.	Provision for future connections in order to minimize the cutting into pipes to provide such connections, shall be made.	YES
13.	Provision shall be made in all water bearing pipelines to accommodate any potential differential movements without causing the pipeline or joints to leak.	YES
14.	Road surfaces shall be located sufficiently low so as to permit the drainage of rain onto them.	YES
15.	Roadways which have a gradient of less than 1:80 shall be surfaced/sealed.	YES

16.	Where unsurfaced roads are the sole stormwater system in a township, the roadways which act as major stormwater collectors shall be surfaced.	YES
17.	The velocity of the 1.20 year storm of water flowing along unsurfaced roadways shall not exceed 1.5 m/s.	NO

State any additional requirements contained in the geotechnical report.

NA

Describe how the services as installed compare with these requirements.

ONLY COUNCIL SERVICES WILL BE INSTALLED

NOTE:

1) In column marked "comment" insert comments, as relevant, such as:

- Complied with.
- Not complied with in all areas.
- Compliance likely.
- Cannot evaluate.
- Not applicable.
- Local authority to enforce.
- Specifications required construction to be in accordance with SABS 1200 (requirement 6).
- Evidence of Trenches not being completely backfilled or poorly backfilled. (Requirement 7).
- Joints in box culverts not sealed. (Requirement 8).
- Gradient is not steep enough in places to prevent deposition of silt and sand (Requirement 9).
- Complied with except that "tying" joints are provided as opposed to vitulic joints (Requirement 11).
- Roads are proud. In many instances even cannot drain onto roads (Requirement 14).

2) The "comments", although being brief, should be sufficiently detailed to enable the Technical Advisory Group to determine the impact on the NHBC's risk exposure in the event of non-compliance.

I/we hereby certify, that the aforementioned comments are representative of the general condition and status of the services which have been installed and that I/we am/are familiar with any additional precautionary measures which may be prescribed in the geotechnical report for the township.

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