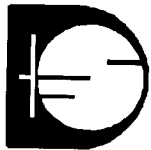


SURVEY DEPARTMENT

MINISTRY OF LAW



Guide to :

- BOUNDARY MARKS
- SURVEY CONTROL MARKS
- PROTECTION OF BOUNDARY AND SURVEY CONTROL MARKS

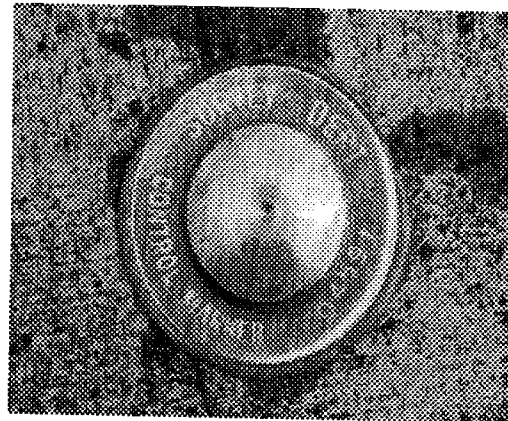
- **SURVEY CONTROL MARKS.**

The Survey Department maintains the infrastructure of survey control points for the conduct of property boundary surveys and other mapping needs.

There are two types of survey control markers :-

- Integrated Survey Network (ISN) marks.
- Precise Level Bench Marks (PLBM).

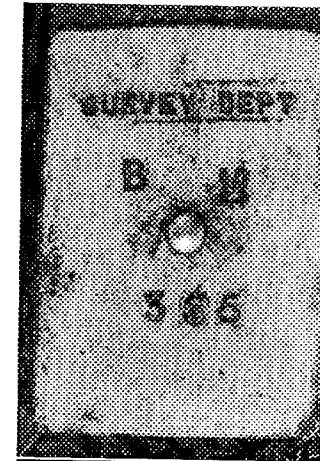
Integrated Survey Network (ISN) marks



The ISN consists of about 3500 survey control marks that are planted at about 300m intervals along all major roads in Singapore. All the markers are either as shown above with or without the steel plate or cross-screw marker with steel plate. The survey markers are identified with the inscription " SURVEY DEPT" and with a number.

The co-ordinates of these survey control marks have been precisely determined using Global Positioning System (GPS) technology.

Precise Level Bench Marks (PLBM)



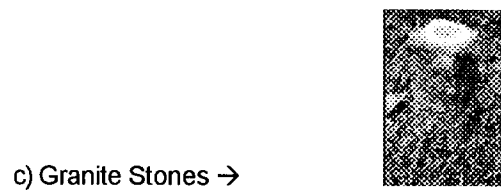
The PLBM network provides heighting information and is used for determining the high water mark, engineering, construction and general mapping purposes.

The PLBM network consists of some 620 control marks that are planted at about 1000m intervals along all major roads in Singapore. The precise levels (height) of these markers have been accurately determined using the Mean Sea Level (MSL) as the datum.

- **BOUNDARY MARKS**

Land lot boundaries are to be demarcated with authorised marks under the Land Surveyors (Conduct of Cadastral Surveys) Rules 2000.

These marks are depicted below :-



- **PROTECTION OF BOUNDARY AND SURVEY CONTROL MARKS**

The Boundaries and Survey Maps Act came into operation on 16 October 1998. The Act provides for the establishment and maintenance of the boundary marks of all land lots and survey control markers.

Under this Act, every owner of any land shall preserve the boundary marks erected on the boundaries of the land.

Where the Chief Surveyor becomes aware that any boundary mark or survey control mark erected on any land has been injured, destroyed or removed, or requires repairs, the Chief Surveyor may cause the mark to be replaced or repaired and recover the costs of the replacement or repair from the owners of the lands in such proportion as appears to the Chief Surveyor to be proper.

Any person who willfully obliterates, removes or injures, without reasonable excuse, any boundary mark or survey control mark which has been made or erected by or under the direction of the Chief Surveyor shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$1,000 and may further be required by a magistrate's court to pay 3 times the cost of replacing and repairing the boundary mark or survey control mark.

Where any boundary mark or survey control mark needs to be removed for any valid reasons, prior approval from the Chief Surveyor should be sought.

It is crucial that boundary marks and survey control marks are protected because the precision of all land surveys is directly related to the precision of these marks. Public co-operation is therefore requested to help us in our endeavor to protect these marks.