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THE LAND SURVEYORS ORDINANCE, 2001

THE LAND SURVEYORS  
(CONDUCT OF CADASTRAL LAND SURVEYS) RULES, 2003

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## THE LAND SURVEYORS ORDINANCE, 2001

THE LAND SURVEYORS  
(CONDUCT OF CADASTRAL LAND SURVEYS) RULES, 2003

(Made under section 31)

In exercise of the powers conferred by section 31 of the Land Surveyors Ordinance, 2001 [*Cap. 40*], the Land Surveyors Board, Sarawak, has, with the approval of the Majlis Mesyuarat Kerajaan Negeri, made the following Rules:

## PART I

## PRELIMINARY

**Citation and commencement**

1. These Rules may be cited as the **Land Surveyors (Conduct of Cadastral Land Surveys) Rules, 2003**, and shall come into force on the 1st day of January, 2004.

**Interpretation**

2. In these Rules—

“Department” means the Land and Survey Department, Sarawak, or any person duly authorized by the Director to act for or represent the Department in respect of any matter pertaining to these Rules;

“Director” means the Director of Lands and Surveys, and includes his Deputy and any officer duly authorized by him to act for or on his behalf in regard to any matter under these Rules;

“mining” includes activities relating to the prospecting for minerals;

“sub-division” shall have the meaning assigned to that expression in Part X of the Land Code [*Cap. 81 (1958 Ed.)*];

“Superintendent” means the Superintendent of Lands and Surveys for the Division where the land to be surveyed is located;

“survey fees” means fees for cadastral land surveys undertaken by a land surveyor which are prescribed in First Schedule;

“survey job” means any instruction or direction issued by the Director for the conduct and completion of any cadastral land survey.

## PART II

## CONDUCT OF CADASTRAL LAND SURVEYS

**Personal direction and supervision of surveys**

3. Every cadastral land survey shall be undertaken by a land surveyor registered under Part III of the Ordinance or be conducted under the personal

direction and supervision of the land surveyor and in strict accordance with these Rules.

#### **Survey job and existing survey information to be obtained**

4. Before commencing any cadastral land survey, a land surveyor or his surveying assistant shall:

- (a) obtain from the Department the survey job he is to carry out;
- (b) obtain such data, maps or plans which he is entitled to have under section 21(2) of the Ordinance.

#### **Notice of intention to survey**

5. A land surveyor or his surveying assistant shall give sufficient notice of his intention to commence a survey to the owners or occupiers of any adjoining land and buildings and wherever appropriate, also to the Superintendent and other Government or statutory authorities.

#### **Compliance with Land and Survey Department's requirements**

6. A land surveyor shall ensure that all the cadastral survey works undertaken by him comply with the instructions, standards and requirements as laid down in the survey job referred to in rule 4(a).

#### **Compliance with requisition by the Director or any officer authorized by him**

7.—(1) A land surveyor shall comply promptly with any direction made by the Director or any officer authorized by him in respect of any survey undertaken by him.

(2) If compliance with such a direction has not been made nor a satisfactory reason for non-compliance therewith given within the specified time period of a notification to the land surveyor, the matter may be reported to the Board.

(3) All survey matters requiring clarification or requisition by the Director shall be clarified or dealt with by the land surveyor personally.

#### **Errors in previous surveys**

8. A land surveyor discovering an apparent error in a previous survey which would materially affect its accuracy shall submit to the Director a full report and all available evidence, but shall not attempt to rectify the error until he has received a detailed requisition to do so from the Director or any officer authorized by him.

#### **General field practice**

9. Methods of survey and of recording results shall comply with good survey practice and in conformity with these Rules.



**Submission on completion of surveys**

10. On completion of a cadastral land survey, the requisite documents shall be submitted to the Department in accordance with section 19 of the Ordinance.

**Survey equipment and calibration results**

11.—(1) Every land surveyor engaged in cadastral land surveys shall use the equipment that shall readily attain the standards of accuracy for the different classes of surveys as prescribed in the Second Schedule. Such equipment shall be of the type, standards and capabilities approved by the Board.

(2) All equipment used for the survey shall be calibrated before being brought into use when new, after repair or yearly against an official known base and the calibration results shall be included in every job submission.

**Systems of co-ordinates and meridians of reference**

12. All cadastral land surveys shall be finalized in terms of the Rectified Skew Orthomorphic (R.S.O.) projection system of rectangular co-ordinates. In exceptional cases, where it is impractical to connect the survey to the (R.S.O.) survey marks, the co-ordinate system and the meridians of reference in force in the locality where the land under survey is situated may be used subject to the approval of the Director or any officer authorized by him.

**Survey datum**

13. Every land surveyor or surveying assistant carrying out a cadastral land survey shall take all reasonable care to verify the survey datum adopted, and shall record full details of the measurements thereof in his field notes.

**Origin of co-ordinates and bearings**

14.—(1) The origin of co-ordinates and bearings shall be obtained from a former survey approved by the Department and shall be:

(a) three survey marks of at least the same order as the present survey proven firm in their original positions; or

(b) two survey marks of at least the same order as the present survey proven firm in their original positions and correct in its line's azimuth.

(2) The reliability and firmness of the former survey marks as mentioned in paragraph (1) may be proven by:

(a) angular and linear measurements; or

(b) linear measurement and astronomical observations; or

(c) trigonometrical observations; or

(d) satellite observations; or

(e) any other method acceptable to the Land and Survey Department.

(3) If it is impractical to carry out the methods mentioned in paragraphs (1) and (2), the origin of co-ordinates and bearings may also be established by resection from at least four favourably situated control survey stations that are part of a reliable survey control system.

### **Closing of bearings**

15. All bearings shall be closed at intervals of the appropriate number of stations for each class of survey as specified in the Second Schedule.

### **Angular observations**

16. Angles shall be measured in degrees, minutes, and seconds of arc in sexagesimal measurement and all angular observations shall be made by reading both faces of the Theodolite or Total Station. The number of sets required for each class of survey is stipulated in the Second Schedule.

### **Bearings**

17. Every bearing recorded in any cadastral survey document shall be the bearing measured or calculated and expressed clockwise from the North in degrees, minutes and seconds.

### **Distances**

18.—(1) Every distance recorded in any cadastral survey document shall be the distance measured or calculated and rounded as follows:

(a) for First Class Cadastral and higher order controls, to the nearest millimetre (0.001m);

(b) for Prismatic Compass Survey, to the nearest decimetre (0.1m).

(2) Distances measured for STG Control, SS Control and higher order controls shall be reduced to the State's Datum Ellipsoid.

(3) Distances measured for other lower classes of cadastral survey shall be reduced to the final horizontal distances.

### **Classification of surveys**

19. The classification of cadastral land surveys is based on the degree of accuracy required and is as follows:

(a) STG Control - comprising planimetric and height controls in the order of accuracy of 1:20,000 or better for further breakdown of Secondary and Tertiary Control Network to provide sufficient controls for SS Control, First Class Control and First Class Cadastral Survey.

(b) SS Control - comprising planimetric and height controls in the order of accuracy of 1:12,000 or better for further breakdown of STG Control to provide sufficient controls for First Class Control and First Class Cadastral Survey.

(c) First Class Control - comprising planimetric control in the order of accuracy of 1:8,000 or better for further breakdown of STG Control and SS Control to provide sufficient controls for First Class Cadastral Survey.

(d) First Class Cadastral - comprising title surveys, sub-division surveys, perimeter surveys, land acquisition surveys, settlement surveys or any boundary surveys in town lands, suburban lands, country lands or native customary lands in the order of accuracy of 1:8,000 or better.

(e) Prismatic Compass - comprising the survey of internal boundaries of groups of country lots, minor right-of-ways surveys, some sub-division surveys, *etc.* This class of survey shall be connected to higher order survey marks and all the surveyed marks shall be co-ordinated.

### Angular and linear errors

20.—(1) The permissible angular and linear errors for each class of survey are stipulated in the Second Schedule.

(2) The limit of the normal allowable angular and linear misclosure, the permissible number of survey stations for bearing close and the length of the surveyed lines may be relaxed at the discretion of the Director or any officer authorized by him.

### Computations

21.—(1) All computations shall be done in a logical sequence and in conformity with survey principles and guidelines set out by the Land and Survey Department.

(2) In the cases of title surveys, computations shall also include:

(a) computation of bearings and distances of boundaries which have been surveyed;

(b) computation of bearings and distances of all new boundaries which have not been surveyed;

(c) computation of the co-ordinates of all boundary points; and

(d) computation of the area of each new lot.

(3) All final co-ordinates and bearings shall be computed in terms of the origin of co-ordinates and bearings.



**Area approximation**

22. Areas of lots surveyed shall be computed in square metres and shall be shown according to the Table of Area Approximation as set out in the Third Schedule.

**Permanance of boundaries**

23.—(1) The extent of the land alienated under title is defined as that marked on the ground at the time of survey for alienation, consequently:

(a) the extent must be adequately marked at the time of such survey; and

(b) marks found on the ground during the course of a subsequent survey may not be disturbed unless there is clear evidence that they are no longer in the position in which they were emplaced at the time of the original survey.

(2) If there is any discrepancy between the dimensions of the boundaries on the ground and those on the cadastral record, the land surveyor shall obtain adequate data to determine whether the discrepancy is due to encroachments or movements of marks or defects in the previous survey.

(3) Before any attempt is made to replace missing marks or to refix disturbed marks, the relationship between the datum adopted for a previous survey and those adopted for the new survey shall be determined by the Director.

**Demarcation of boundaries**

24.—(1) Boundary lines shall be measured direct wherever possible. The survey of boundaries by long radiations shall be avoided. In any case, the length of radiations shall not exceed twenty metres.

(2) All boundary points shall be marked unless they fall in inaccessible positions.

(3) Where boundary points cannot be marked by reason of mine holes, structures or other causes, reference points shall be emplaced nearby to facilitate the determination of the actual boundary point, the best position for such marks being on the intersecting boundaries as near as possible to the obstructing feature.

(4) Building abutting on, overlapping or closely approaching boundaries shall be accurately fixed in relation to the boundary. Where the wall of a building or structure is erected on or adjoining a boundary and such a wall is used as a party-wall or party-wall rights have been created by grant or prescription, the position and thickness of the wall shall be accurately fixed. Where possible the age of the building, structure or wall shall be noted in the field book.



(5) Every boundary mark emplaced shall be at a station on a closed survey loop, or else its position shall be determined by two independent sets of measurements from such station or stations.

(6) Not every boundary of every lot need be measured, providing that the extremities of every boundary are marked in conformity with paragraph (5) and sufficient boundaries are surveyed to ensure that an accumulation of minor errors shall not lead to the calculated values of the bearings and distances of the unsurveyed boundaries differing materially from their true values.

(7) In any sub-divisional survey, for every layout of five consecutive lots or less, at least one lot boundary connecting the other two sides of the boundaries of the lots, which normally have been surveyed by "on-line pegging", shall be surveyed through as a check.

(8) In a sub-divisional survey, the re-survey of boundaries not affected by the sub-division may be confined to the measurement of the lines required for datum. The other boundaries may, when required, be adopted without remeasurement provided the original survey had an adequate technical value.

(9) Consecutive marks on a straight boundary shall be intervisible and shall not be more than three hundred metres apart.

(10) Boundaries defined by a regular curve shall be marked by regulation marks on the curve in such a manner that the offset from the middle of the chord to the curve between adjacent marks shall not exceed twenty centimetres for urban areas nor shall the marks be at intervals of more than twenty metres apart. In rural areas, the offset may be increased to forty centimetres. In every case, a curve shall be marked by at least one peg in addition to the marks at the tangent points.

(11) Boundaries shall normally follow straight lines except for curved boundaries.

(12) Physical features such as river-banks, edges of swamps, undefined road frontages, *etc.*, are inadmissible as boundaries.

(13) Details of occupation in so far as it is determined by the alignment and position of fences, walls and eaves of buildings, cultivation or other evidence shall be recorded in field books.

#### **Survey of land held under native customary rights for approved land development schemes**

25.—(1) (a) No land surveyor shall carry out the demarcation of perimeter boundaries of any land held under native customary rights without the written authorization of the Director.

(b) No such authorization shall be given unless the survey is required to implement, or for the purposes of, the development of land held under native customary rights under a scheme approved by the Government.

(2) All survey works carried out by a land surveyor in connection with native customary rights claims shall be limited to the marking and recording of survey measurements of the perimeter boundaries only.

### **Surveyors to uphold Government interests**

26. In carrying out surveys for any new alienation of land, every land surveyor shall have regard to the interests of the Government and shall avoid effecting surveys in such manner as to render any portion of land to waste, or confer undue advantage of any party in a manner detrimental to the interests of the Government.

### **Statutory reserves**

27. Unless otherwise instructed by the Director where land to be surveyed adjoins the sea coast, foreshores, navigable rivers or roads, areas reserved to the Government in accordance with section 38(1) of the Land Code [*Cap. 81 (1958 Ed.)*] shall be provided for.

### **Road and access reserves**

28.—(1) The sides of road reserves and reserves for access should normally be parallel.

(2) For the survey of reserves for planned road projects, the Director shall issue particular instructions as to dimensions which shall include but not limiting to provision for embankments, cuttings, drains and abutments, and for constructional requirements such as borrow pits.

(3) If in the course of a survey for the alienation of State land, a well-used vehicle track or foot-path is found to pass through the land under survey, details shall be reported to the Director forthwith so that action can be taken to protect the track or path by the survey of a reserve.

### **Topographical details**

29. Measurements shall be made to determine, with sufficient precision for the purpose of plotting them accurately at the scale of the plan, the positions of such natural and artificial features and limits of cultivation adjacent to boundaries, which may affect title.

### **Survey and boundary marks**

30. All survey marks emplaced for the purposes of defining boundaries or for control surveys shall conform to the specifications as set out by the Director. Every precaution shall be taken to ensure that marks emplaced are permanent and stable.

**Permanent reference marks**

31.—(1) Every cadastral survey shall be connected to at least 3 permanent reference marks.

(2) In this rule, “permanent reference marks” means:

- (a) a trigonometric station; or
- (b) a metal tube of not less than 13mm internal diameter and 0.5 metre long driven level with the ground; or
- (c) any other concrete control survey marks; or
- (d) such other mark as the Department, having regard to permanence, accepts.

**Emplacement before survey**

32. All survey marks shall be emplaced prior to or simultaneously with but not after making of the measurements which determine their positions.

**Field survey data**

33.—(1) All cadastral land surveys carried out shall be recorded in field books or in auto digital format as may be approved by the Director.

(2) When field books are used, the following rules shall apply:

(a) The first page of each field book shall show the survey job number, the title of the survey with particulars of the district, block, town or other reference as shall sufficiently identify the land surveyed, the name and signature of the land surveyor and the surveying assistant, the date of commencement and completion of the survey, and the type, make, model and serial number of the equipment used and its calibration result.

(b) All entries in field books shall be neatly and clearly recorded in permanent black ink in a professional manner.

(c) The original field notes shall not be obliterated or erased. Every alteration made by the land surveyor or his surveying assistant shall be clearly written and erroneous entries shall be clearly crossed out and initialled.

(d) All field books shall be numbered serially and each page shall be numbered consecutively.

(e) Measurements shall be recorded in the field book immediately after they are made.

(f) Each page of the field book shall be initialled by the land surveyor.

(g) Sufficient diagrams shall be drawn to make the measurements recorded in the field book readily interpretable.



(h) Diagrams shall show a North Point and shall be clearly referenced with respect to other diagrams.

(i) The nature of any survey mark found shall be concisely recorded in the field book.

### **Plans**

34.—(1) Survey plans shall be prepared for all cadastral land surveys undertaken in accordance with the specifications as laid out in the Fourth Schedule.

(2) Every plan shall bear a certificate corresponding to the type of survey undertaken in the applicable form prescribed in the Fifth Schedule.

(3) Unless some other written laws require or allow something different, the format and content of plans shall comply with the Fourth Schedule.

(4) All plans shall be drawn to a standard acceptable to the Department.

(5) All plans shall be approved by the Director prior to their acceptance as official records kept by the Department.

### **Sub-division of buildings**

35.—(1) Application for sub-division of any building for the issue of subsidiary titles (strata titles) for individual parcels in respect of completed building or provisional subsidiary title for any provisional block shall be made in the prescribed forms to the Superintendent as required under the Strata Titles Ordinance, 1995 [*Cap. 18*].

(2) In the case of phased development, the number of stages in which the proposed phased development is to take place shall be clearly indicated in the application.

(3) Strata titles survey required to be carried out in connection with the application for sub-division of building(s) or in respect of phased development shall consist of Type A and Type B Surveys.

(a) Type A Survey shall be carried out to satisfy that:

(i) the building(s) has/have such superficial area(s) on the ground as may be prescribed, or where no such area is prescribed, a superficial area on the ground of at least 464 square metres; and

(ii) the building(s) is/are situated wholly within the boundaries of the lot in question.

(b) Type B Survey shall be carried out upon the approval of the strata title application by the relevant authority to define the strata title parcel and common property boundaries.



(4) Standard of Survey

(a) Type A Survey

(i) Type A Survey shall be carried out to First Class Cadastral Survey standard as stipulated in the Second Schedule.

(ii) Buildings abutting on or closely approaching boundaries shall be accurately offsetted.

(iii) If the application involves provisional block(s) of building(s) to be built at a later date(s), the approved proposed site(s) of this/these building(s) shall be set out and indicated on the plan.

(b) Type B Survey

(i) Type B Survey shall be carried out to define the boundaries of each parcel, thickness of each floor, ceiling or boundary wall and the vertical height of each parcel, unless the boundary point falls into absolutely inaccessible area where the boundary distance(s) concerned may be deduced from the approved building plan.

(ii) All linear distances including vertical heights shall be measured to the accuracy that any length measured shall not differ from the true length in terms of the official standard of length, by 0.02 metre plus 0.001 metre per 10 metres.

(iii) All distances shall be measured and recorded in the field book to the nearest centimetre (0.01 metre). Check measurement shall be made to ensure that all distances measured are correct.

(iv) The height of each storey shall be determined by ordinary leveling or vertical angle heighting method to the accuracy as required under subparagraphs (ii) and (iii).

(v) All permanent structures and prominent features within the common properties shall be offsetted to be included in the Certified Plan for the general information of the parcel owners.

(vi) For each parcel, only the perimeter boundary walls shall be offsetted for the purpose of plotting on the Certified Plan. Internal room walls and details for furniture and fitting need not be offsetted.

(5) Computation

(a) Type A Survey

The computations required for Type A Survey shall be as specified in rule 21.

(b) Type B Survey

(i) All parcel and common property boundaries distances shall be reduced to the nearest centimetre (0.01 metre).

(ii) If the distances measured do not differ from the dimensions shown on the approved building plan(s) by more than 0.10 metre, then the dimensions shown on the building plan(s) shall be accepted for the preparation of the Certified Plan. If the said difference is more than 0.10 metre, then the measured distances shall be accepted.

(iii) Areas shall be either calculated by using the standard Land and Survey Department's area computation sheets or obtained from digital Computer Aided Design (CAD) drawings.

(iv) Areas calculated shall be rounded down and shown on the plan to the nearest square metre.

(6) Plans

In connection with strata titles application, the following plans shall be prepared in accordance with the Fourth Schedule:

(a) Survey Plan (SP or BP) shall be prepared for the Type A Survey;

(b) Index Plan shall be prepared from the approved building plan;

(c) Storey Plan shall be prepared from the approved building plan;

(d) Certified Plan shall be prepared for the Type B Survey.

PART III

FEES

**Fees and method of payment**

36.—(1) Every land surveyor making or undertaking a cadastral land survey shall charge fees as prescribed in the First Schedule.

→ (2) The fee shall be deposited with the Board by the client before the cadastral survey is carried out.

(3) In respect of a cadastral survey, the Board shall, after retaining a certain percentage of the fee to be determined by the Board from time to time, for administrative purpose, pay to the land surveyor, in such sums and manner as the Board may determine during the progress of the work and upon a claim for payment, sixty percent of the fee on completion of the field work; and shall pay a further thirty percent of the fee upon deposit with the Department of the relevant cadastral survey documents, and a claim for payment of the fee; the balance of the fee shall be paid either within a period of twelve months from the date of such deposit or after the survey plan has been approved by the Director, whichever is the earlier.

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(4) Where the cadastral survey has been commenced by a land surveyor and completed by another land surveyor or surveyors the payment of the prescribed fee due in respect of the cadastral survey shall be calculated on the portion of work completed by each land surveyor accordingly.

(5) In the event of any dispute relating to fees or payment thereof, the aggrieved land surveyor shall submit a statement in writing to the Board setting out the grounds upon which his dispute is based and if the Board fails to settle the matter by mutual agreement, it shall appoint an arbitrator to adjudicate in accordance with the provisions of the Arbitration Act 1952 [Act 93].

#### **Duty of a land surveyor to complete cadastral land survey**

37.—(1) A land surveyor shall carry out and complete the cadastral survey for which the fee has been deposited under rule 36(2) within six months from the date of notification by the Board to commence survey or within such extended period as the Board may allow.

(2) Where the cadastral survey has not been carried out or completed within the period specified in paragraph (1) or within the extended period allowed by the Board, the Board may suspend such land surveyor from practice for a period not exceeding three years.

(3) The Board may, in any case referred to in paragraph (2), order the cadastral survey to be carried out and completed by the Department or another land surveyor and the fee shall be paid in accordance with the provisions of rule 36.

#### *FIRST SCHEDULE*

#### **SCALE OF FEES FOR CADASTRAL LAND SURVEYS**

(Rule 36)

1. Survey fees for cadastral surveys shall be classified in accordance with the categories of land use such as building, agriculture, industry, mining and other purposes. The surveys shall be carried out in accordance with the procedures fixed by law for the conduct of cadastral surveys.
2. The number of lots for which fees are to be collected and deposited with the Board shall be in accordance with the number of lots as approved in the survey plan.
3. For the purpose of calculation of fees, survey work has been split into separate items with different rates for each item. The survey fee chargeable for each job is the total sum of the fees of all the separate chargeable items.
4. (a) The total survey fees as estimated in accordance with Tables 1-18 shall be deposited with the Board.  
 (b) Upon receipt of the survey fees, the Board shall issue a notification instructing the land surveyor to commence the survey.  
 (c) Any adjustment to the survey fee, if any, will be made when the survey has been completed and the Survey Plan lodged with the Department. Any excess in the deposit shall be returned to the depositor and any shortage in the deposit shall be settled by the depositor.
5. In any survey where land for different purposes are surveyed together, the fee shall be charged in accordance with the Table appropriate for each purpose.



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TABLE I

## SUB-DIVISION SURVEY OF LAND FOR DEVELOPMENT

- (1) This Table provides the survey fees for survey of land for development. For the purpose of land survey, development of lands are classified as follows:
- (a) Land for residential, resettlement scheme, Kampung extension and public utility purposes, for dwelling houses, flats, apartments, hostels, open spaces for recreation, gardens and parks, schools, hospitals, non profit making institutions and religious purposes.
  - (b) Land for commercial purposes such as shop houses, cinemas complexes, hotels, petrol stations, offices, profit motivated development.
  - (c) Land for industrial purposes such as factories, plants, workshops, mills printing presses, foundries, electrical substations, electrical tower bases, pump houses, sewerage treatment plants and oxidation ponds and roads.
  - (d) Land for other purposes, which are not classified under subparagraphs (a), (b) and (c), shall be regulated by Table 7.
- (2) The survey fees chargeable for each purpose are applicable to urban, suburban and rural areas.
- (3) The survey fees shall also apply to re-survey for the re-establishment of boundary marks for any type of land classified under paragraphs (1) and (2) and for perimeter survey as required by the State Planning Authority.
- (a) Basic charge per job is RM1,300.00.
  - (b) Charge for the preparation of pre-computation plan shall be RM30.00 per lot, subject to a minimum charge of RM540.00 per job.
  - (c) Charge for the survey of each old boundary mark is RM170.00.
  - (d) Charges for each lot as per rates shown below:

<i>Size of lot</i>	<i>Residential as in (1)(a) (RM)</i>	<i>Commercial as in (1)(b) (RM)</i>	<i>Industrial as in (1)(c) (RM)</i>
Up to 100 m <sup>2</sup>	390.00	620.00	—
Above 100 m <sup>2</sup> but up to 200 m <sup>2</sup>	575.00	670.00	—



<i>Size of lot</i>	<i>Residential as in (1)(a) (RM)</i>	<i>Commercial as in (1)(b) (RM)</i>	<i>Industrial as in (1)(c) (RM)</i>
For each additional 100 m <sup>2</sup> or part thereof above the first 200 m <sup>2</sup>	15.50	18.50	—
(ii) Industrial purpose:			
Up to 2,000 m <sup>2</sup>	—	—	1,400.00
For each additional 100 m <sup>2</sup> or part thereof above the first 2,000 m <sup>2</sup>	—	—	23.00
(iii) Charge for traversing including connection for azimuth, connection and controls	3.10 per metre	3.90 per metre	3.90 per metre
(iv) Charge for survey to determine the ends of a party wall boundary	230.00 per wall	280.00 per wall	310.00 per wall
(v) Charge for survey of block pegging of corners of blocks not exceeding 16 lots	1,310.00 per block	1,560.00 per block	1,870.00 per block
(vi) Charge for survey of pegging each lot with wooden pickets	65% of the above applicable rates	65% of the above applicable rates	65% of the above applicable rates
(vii) Charge for verification survey and certification of the "as-built"	80% of the above applicable rates plus certification charge of RM2,340.00	80% of the above applicable rates plus certification charge of RM2,340.00	80% of the above applicable rates plus certification charge of RM2,340.00
(e) Charge for Control Survey is as provided under Table 11 (Control Traverse) or Table 13 (Point Positioning by Satellites) or both depending on the requirement.			
(f) Less 25% to paragraph (3)(b), (3)(c) and (3)(d) for each lot intended for low cost housing scheme or estate which has been approved by the State Planning Authority.			
(g) Professional consultation and meeting fees, reimbursements and charge for supply of transparencies and additional prints where applicable, mobilization and demobilization are as provided under Tables 14, 15, 16, 17 and 18 respectively.			

TABLE 2

**SURVEY FOR SUB-DIVISION OF BUILDING**

The survey fees for sub-division of building for issuance of strata titles shall consist of the following:

- (1) Survey of land for certification of building position within the lot boundary (Type A Survey) as required under section 6(1)(a) of the Strata Titles Ordinance 1995 [Cap. 18].

- (a) Basic charge per job is RM1,300.00
- (b) Area Rates  
Up to 500 m<sup>2</sup> RM2,790.00  
For additional area above 500 m<sup>2</sup> RM1.50 per m<sup>2</sup>
- (c) Charge for traversing including connection for azimuth, connections and controls as in Table 1.
- (d) Certification fee RM 1,950.00
- (2) Preparation of Index and Storey plans based on approved building plans as required under section 9(1) of the Strata Titles Ordinance, 1995; and actual measurement of parcels and preparation of Certified Plans (Type B Survey) as required under section 11 of the Strata Titles Ordinance 1995.
- (a) Basic charge per job is RM1,300.00
- | Floor Area of parcel<br>or accessory parcel   | Residential<br>purpose<br>(RM) | Other purposes<br>(RM) |
|---|--------------------------------|------------------------|
| (b) Up to 100m <sup>2</sup>   | 310.00 parcel                  | 465.00 parcel          |
| (c) Any additional<br>area above 100m <sup>2</sup>  | 3.80/m <sup>2</sup>            | 5.40/m <sup>2</sup>    |
| (d) Any common<br>property which has<br>to be surveyed in<br>order to be shown<br>on the plan | 3.10/m <sup>2</sup>            | 3.10/m <sup>2</sup>    |
- (3) Re-survey of the parcels and re-preparation of plans due to subsequent amendments to the building plan.  
Basic charge of RM1,300.00 per job plus 50% of the rates under paragraph (2).
- (4) Provisional Block:
- (a) Computation and preparation of plan to ensure that the provisional blocks are within the lots and are RM465.00 per block.
- (b) The charge for survey of the provisional blocks shall be as provided under Table 1. The provisional block mentioned here is taken to be equivalent to a lot as in Table 1.
- (5) Charge for survey of each old boundary mark is RM170.00.
- (6) Charge for Control Survey is as provided under Table 11 (Control Traverses) or Table 13 (Point Positioning by Satellite) or both depending on the requirement.
- (7) Less 25% to paragraphs (1)(b), (c) & (d), (2)(b), (c) & (d), (3), (4), and (5) for each lot intended for low cost house as approved by the State Planning Authority.
- (8) Professional consultation and meeting fees, reimbursements and charge for supply of transparencies and additional prints where applicable, mobilization and demobilization are provided under Tables 14, 15, 16, 17 and 18 respectively.

TABLE 3  
SURVEY OF LAND FOR AGRICULTURE

This Table provides the fees for the survey of land for agriculture purpose including land for aquaculture purpose or survey for sub-division, amalgamation and partition in rural areas.

The survey fees chargeable under this Table for each job shall consist of the following:

- (1) Basic charge per job is RM1,300.00
- (2) Charge for the preparation of pre-computation plan shall be RM30.00 per lot, subject to a minimum charge of RM540.00 per job.

(3) Charge for survey of each old boundary mark is RM170.00.

(4) Charge for survey of each agriculture lot:

<i>Size of lot</i>	<i>Charge per lot (RM)</i>
(i) Lot of less than 0.5 hectare	1,150.00
(ii) Lot of 0.5 hectare but less than 1.0 hectare	1,620.00
(iii) Lot of 1.0 hectare but less than 1.5 hectares	1,990.00
(iv) Lot of 1.5 hectares but less than 2.5 hectares	2,580.00
(iv) Lot of 2.5 hectares but less than 5.0 hectares	3,660.00
(vi) Lot of 5.0 hectares but less than 10.0 hectares	5,172.00
(vii) Lot of 10.0 hectares but less than 15.0 hectares	6,324.00
(viii) Lot of 15.0 hectares but less than 20.0 hectares	7,308.00
(ix) Lot of 20.0 hectares but less than 25.0 hectares	8,184.00
(x) Lot of 25.0 hectares but less than 30.0 hectares	8,964.00
(xi) Lot of 30.0 hectares but less than 35.0 hectares	9,684.00
(xii) Lot of 35.0 hectares but less than 40.0 hectares	10,356.00
(xiii) Lot of 40.0 hectares but less than 45.0 hectares	10,980.00
(xiv) Lot of 45.0 hectares but less than 50.0 hectares	11,568.00
(xv) For lot of area more than 50 hectares, the survey fees chargeable shall be calculated based on the total chainage of perimeter or boundary surveyed, including subclose, shooting and online at RM4.10 per metre	

(5) Charge for traversing including connection for azimuth, connections and controls is RM3.10 per metre.

(6) Charge for Control Survey is as provided under Table 11 (Control Traverse) or Table 13 (Point Positioning by Satellites) or both depending on the requirement.

(7) Add 30% to paragraphs (3), (4), and (5) for swampy or tidal conditions.

- (8) Professional consultation and meeting fees, reimbursements and charge for supply of transparencies and additional prints, mobilization and demobilization, where applicable, are as provided under Tables 14, 15, 16, 17 and 18 respectively.

TABLE 4

## SURVEY OF LAND FOR MINING

- (1) This Table provides the fees for survey of land for mining which shall be carried out to a standard adequate for the issue of Mining Leases and Certificates. This Table also applies to survey of land for quarry and other similar purpose.
- (2) The survey fees chargeable under this Table for each job shall consist of the following:
- Basic charge per job is RM1,300.00.
  - Charge for the preparation of pre-computation plan shall be RM30.00 per lot, subject to a minimum charge of RM540.00 per job.
  - The rates applicable for surveys of Mining Leases and Certificates shall be as follows:

<i>Size of lot</i>	<i>Charge per lot (RM)</i>
(i) First 4 hectares	6,720.00
(ii) First 6 hectares	7,680.00
(iii) First 8 hectares	8,640.00
(iv) First 10 hectares	9,600.00
(v) First 12 hectares	10,320.00
(vi) First 14 hectares	11,280.00
(vii) First 16 hectares	12,000.00
(viii) First 18 hectares	12,960.00
(ix) First 20 hectares	13,800.00
(x) First 25 hectares	14,760.00
(xi) First 30 hectares	15,672.00
(xii) First 35 hectares	16,440.00
(xiii) First 40 hectares	17,160.00
(xiv) First 45 hectares	17,880.00
(xv) First 50 hectares	18,720.00
(xvi) For each additional 1 hectare or part thereof above the first 50 hectares	234.00

- For any area falling in between any two of the areas listed above, its charge shall be computed proportionately.
- Charge for traversing including connection for azimuth, connection and controls at RM3.10 per metre.
- If Mining Certificate is required, the fee for drawing and supplying copies of plan to the Land and Survey Department for attachment to the Mining Certificate forms shall be RM780.00 per Mining Certificate plan.
- If the land approved to be surveyed is more than one lot which are physically separated on the ground by alienated land, reserve or State Land, the fees for the survey of the lot shall be calculated for each lot.
- Charge for survey of each old boundary mark is RM170.00.
- Charge for Control Survey is as provided under Table 11 (Control Traverses) or Table 13 (Point Positioning by Satellites) or both depending on the requirement.
- Add 30% to paragraphs (2)(c), (d), (e) (g) & (h) for swampy, tidal conditions or areas with outcrops.
- Professional consultation and meeting fees, reimbursements and charge for supply of transparencies and additional prints, mobilization and demobilization, where applicable, are as provided under Tables 14, 15, 16, 17 and 18 respectively.



TABLE 5

**UNDERGROUND SURVEY**

- (1) This Table provides the fees for the survey for stratum title and other underground survey.
- (2) The survey fees chargeable under this Table for each job shall consist of the following:
  - (a) Basic charge per job is RM1,300.00.
  - (b) Charge for the preparation of pre-computation plan for underground survey shall be RM1,300.00 per application.
  - (c) Charge for survey on ground surface is as follows:
    - (i) Planimetric control and connection is RM3.10 per metre.
    - (ii) Charge for the survey of each old boundary mark is RM170.00.
    - (iii) Charge for survey per lot is as provided under Table 1.
    - (iv) Charge for survey of height connection and control is RM840.00 per kilometre.
  - (d) Charge for underground survey is as follows:
    - (i) For the transfer of planimetric datum to a depth not exceeding 10 metres below the established concrete mark at the site the charge is RM2,710.00. For every additional 3 metres in depth or part thereof below 10 metres, an additional charge of 10% shall be added.
    - (ii) For the transfer of height datum to a depth not exceeding 10 metres below the established Bench Mark at the site the charge is RM4,070.00. For every additional 3 metres difference in height or part thereof below 10 metres an additional charge of 10% shall be added.
    - (iii) For the survey of the as-built underground structure, the charge shall be twice the rate in Table 1.
  - (e) Charge for the construction of concrete monument is RM390.00 per mark.
  - (f) Charge for Control Survey is as provided under Table 11 (Control Traverses) or Table 13 (Point Positioning by Satellites) or both depending on the requirement.
  - (g) Professional consultation and meeting fees, reimbursements and charge for supply of transparencies and additional prints, mobilization and demobilization, where applicable, are as provided under Tables 14, 15, 16, 17 and 18 respectively.

TABLE 6

**SURVEY FOR AMALGAMATION OF LOTS**

- (1) This Table provides the fee for the survey for amalgamation of lots.
- (2) The survey fees chargeable under this Table for each job shall consist of the following:
  - (a) Where Survey plan is drawn by using data from existing Survey information or titles—  
RM85.00 per boundary line subject to a minimum charge of RM1,010.00 per job. For the purpose of this minimum charge, 2 or more amalgamations of lots belonging to the same owner or joint owner shall count as one job provided the approval for the amalgamations are given at the same time and the survey is done at the same time.
  - (b) Where field work is required the survey fee shall be charged as provided under Tables 1 to 5 and Tables 7 to 13.
  - (c) Professional consultation and meeting fees, reimbursements and charge for supply of transparencies and additional prints, mobilization and demobilization where applicable, are as provided under Tables 14, 15, 16, 17 and 18 respectively.

TABLE 7

**SURVEY OF LAND FOR SPECIAL PURPOSES**

This Table provides the fees for survey of land for purposes that are not covered under Tables 1 to 6 and 8 to 13. These are land for forest, game or wild life, national park, grazing ground, golf course, private club and any other recreational purposes.

- (a) Basic charge per job is RM1,300.00.
- (b) Charge for the preparation of pre-computation plan shall be RM30.00 per lot subject to a minimum charge of RM540.00 per job.
- (c) Charge for Perimeter or boundary traversing, including connections for azimuth, connections and control is RM6.20 per metre.
- (d) Charge for the survey of each old boundary mark is RM170.00.
- (e) Charge for Control Survey is as provided under Table 11 (Control Traverses) or Table 13 (Point Positioning by Satellites) or both depending on the requirement.
- (f) Add 30% to paragraphs (c) and (d) for swampy, tidal conditions or areas with outcrops.
- (g) Professional consultation and meeting fees, reimbursements and charge for supply of transparencies and additional prints, mobilization and demobilization, where applicable, are as provided under Tables 14, 15, 16, 17 and 18 respectively.

TABLE 8

**SURVEY FOR THE PURPOSE OF LAND ACQUISITION**

- (1) This Table provides the survey fees for the survey of land to be acquired for road, river/drain, bund, transmission line, pipeline, railway and any other similar survey.
- (2) The survey fees shall consist of the following:
  - (a) Basic charge per job is RM1,300.00.
  - (b) Charge for all traverses including connection for azimuth, connections and controls, subclose, shooting and on-line is RM3.10 per metre.
  - (c) Charge for the survey of each old boundary mark is RM170.00.
  - (d) Charge for control survey is as provided under Table 11 (Control Traverses) or Table 13 (Point Positioning by Satellites) or both depending on the requirement.
  - (e) Add 30% to subparagraphs (b) and (c) for swampy or tidal conditions.
  - (f) Professional consultation and meeting fees, reimbursements and charge for supply of transparencies and additional prints, mobilization and demobilization, where applicable, are as provided under Tables 14, 15, 16, 17 and 18 respectively.
- (3) For any other acquisition survey, the fees chargeable under this Table shall consist of the following:
  - (a) for the survey of the acquired portion, the chargeable fees shall be in accordance with the Table appropriate for the category of use it is acquired for;
  - (b) for the balance portion, the chargeable fees shall be in accordance with the Table appropriate for its category of use.

TABLE 9

**PERIMETER BOUNDARY SURVEY OF NATIVE CUSTOMARY RIGHTS  
LAND FOR APPROVED GOVERNMENT LAND DEVELOPMENT SCHEME**

- (1) This Table provides the fees for the perimeter boundary survey of land under Native Customary Rights claims in approved Government Land Development Scheme.
- (2) The survey fees shall consist of the following charges:
  - (a) Basic charge per job is RM1,300.00.
  - (b) Charge for the survey of each old boundary mark is RM170.00.
  - (c) Charge on the total chainage of perimeter boundary surveyed, including subclose, shooting and on-line is RM4.10 per metre for survey of each lot.
  - (d) Charge for traversing including connection for azimuth, connections and controls is RM3.10 per metre.
  - (e) Charge for Control Survey is as provided under Table 11 (Control Traverses) or Table 13 (Point Positioning by Satellites) or both depending on the requirement.



- (f) Add 30% to subparagraphs (b), (c), and (d) for swampy or tidal conditions.
- (g) Professional consultation and meeting fees, reimbursements and charge for supply of transparencies and additional prints, mobilization and demobilization, where applicable, are as provided under Tables 14, 15, 16, 17 and 18 respectively.

TABLE 10

**SURVEY OF ADMINISTRATIVE BOUNDARIES**

- (1) This Tables provides the fees for survey of State, Division, District, Town and Village Boundaries.
- (2) The survey fees for the survey of State and Division Boundary chargeable under this Table for each job shall consist of the following charges:
  - (a) Basic charge per job is RM1,300.00.
  - (b) Charge for traversing including connection for azimuth, connections and control is RM6.20 per metre.
  - (c) Charge for the survey of each old boundary mark is RM170.00.
  - (d) Charge for Control Survey is as provided under Table 11 (Control Traverses) or Table 13 (Point Positioning by Satellites) or both depending on the requirement.
  - (e) Charge for strip survey with detail and contour involving land boundary is RM8,950.00 per kilometre, with a maximum corridor width of 20 metres. For corridor width wider than 20 metres, the fee chargeable shall be proportionate to the increase in width.
  - (f) Charge for strip survey with detail and contour involving river boundary is RM9,670.00 per kilometre, with a maximum corridor width of 20 metres. For corridor width wider than 20 metres, the fee chargeable shall be proportionate to the increase in width.
  - (g) Charge for determining the proposed State and Division Boundary in which no field work is required is RM156.00 per kilometre.
  - (h) Charge for final survey of the State and Division Boundary is RM6.20 per metre.
  - (i) Charge for the construction of concrete monument is RM390.00 per monument.
  - (j) Add 30% to subparagraphs (b), (c), (e), (f), (h) and (i) for swampy or tidal conditions.
  - (k) Professional consultation and meeting fees, reimbursements and charge for supply of transparencies and additional prints, mobilization and demobilization where applicable, are as provided under Tables 14, 15, 16, 17 and 18 respectively.
- (3) The survey fees for the survey of District, Town and Village Boundary chargeable under this Table for each job shall consist of the following charges:
  - (a) Basic charge per job is RM1,300.00.
  - (b) Charge for traversing including connection for azimuth, connections and controls is RM6.20 per metre.
  - (c) Charge for the survey of each old boundary mark is RM170.00.
  - (d) Charge for the construction of concrete monument is RM390.00 per monument.
  - (e) Charge for Control Survey is as provided under Table 11 (Control Traverses) or Table 13 (Point Positioning by Satellites) or both depending on the requirement.
  - (f) Add 30% to subparagraphs (b), (c) and (d) for swampy or tidal conditions.
  - (g) Professional consultation and meeting fees, reimbursements and charge for supply of transparencies and additional prints mobilization and demobilization, where applicable, are as provided under Tables 14, 15, 16, 17 and 18 respectively.

TABLE 11

**CONTROL TRAVERSES**

- (1) This Table provides the survey fees for traverses that are required for general cadastral controls (such as STG, SS & 1st. Class) and other purposes.

- (2) The survey fees chargeable under this Table for each job shall consist of the following charges:
- (a) Basic charge per job is RM1,300.00.
  - (b) Charge for traversing including connections for azimuth, connections and controls is RM6.20 per metre.
  - (c) Charge for the construction of concrete monument is RM390.00 per monument.
  - (d) Charge for survey of each old boundary mark is RM 170.00.
  - (e) Add 30% to subparagraphs (b), (c) and (d) for swampy or tidal conditions.
  - (f) Professional consultation and meeting fees, reimbursement and charge or supply of transparencies and additional prints, mobilization and demobilization, where applicable, are as provided under Tables 14, 15, 16, 17 and 18 respectively.

TABLE 12

**SURVEY OF LAND BY PRISMATIC COMPASS**

- (1) This Table provides the survey fees for traverses and other categories of surveys that are required for surveys of lower order.
- (2) The survey fees chargeable under this Table for each job shall consist of the following charges:
- (a) Basic charge per job is RM1,300.00.
  - (b) Charge for traversing is RM1.80 per metre, subject to a minimum charge of RM1,500.00 per job.
  - (c) Charge for survey of each old boundary mark is RM170.00.
  - (d) Charge for control survey is as provided under Table 11 (Control Traverses) or Table 13 (Point Positioning by Satellites) or both depending on the requirement.
  - (e) Add 30% to subparagraphs (b) and (c) for swampy or tidal conditions.
  - (f) Professional consultation and meeting fees, reimbursement and charge or supply of transparencies and additional prints, mobilization and demobilization, where applicable, are as provided under Tables 14, 15, 16, 17 and 18 respectively.

TABLE 13

**POINT POSITIONING BY SATELLITES**

- (1) This Table provides the fees for point positioning with the use of satellites.
- (2) The survey fees chargeable under this Table for each job shall consist of the following charges:
- (a) Basic charge per job is RM6,240.00.
  - (b) Charge for positioning of each Point is RM2,600.00.
  - (c) Charge for the construction of concrete monument is RM390.00 per monument.
  - (d) Charge for site clearance for observation shall be on party days basis.
  - (e) The above charges are applicable when the survey worksite is within 1 kilometre from the nearest all-weather road. For distances beyond the first 1 kilometre, additional charges are to be applied as follows:

Distance to worksite from all-weather road:

0 kilometre to 1 kilometre	no additional charge
Above 1 kilometre but not more than 5 kilometres	add 20% to charge under subparagraphs (b), (c) and (d)
Above 5 kilometres but not more than 10 kilometres	add 40% to the charges under subparagraphs (b), (c) and (d)



Above 10 kilometres

add 70% to the  
charges under  
subparagraphs (b)  
(c) and (d)

- (f) Professional consultation and meeting fees, reimbursements and charge for supply of transparencies and additional prints, mobilization and demobilization, where applicable, are as provided under Tables 14, 15, 16, 17 and 18 respectively.

TABLE 14

**PROFESSIONAL CONSULTATION AND MEETING FEES**

- (1) This Table provides the fees for professional consultation, meeting attendance, site visit, court appearance and other similar attendance.
- (2) The fees chargeable under this Table for each job shall be as follows:
  - (a) Professional consultation, meeting attendance or site visit RM870.00 per day or RM 130.00 per hour, whichever is less.
  - (b) Expert witness in court RM870.00 per attendance.
  - (c) Reimbursements and charge for supply of transparencies and additional prints, where applicable, are as provided under Tables 15 and 16 respectively.

TABLE 15

**REIMBURSEMENT**

- (1) This Table provides reimbursements to the land surveyor by the client for out-of-pocket expenditures incurred.
- (2) The reimbursements are as follows:
  - (a) Actual expenses incurred in the purchase of relevant documents, plans, maps, record and other relevant items.
  - (b) Hiring charge of special equipment and software packages as agreed with the client.
  - (c) Expenses incurred in travelling, accommodation and subsistence allowance shall be as follows:
 

(i) Travelling air fare mileage	actual 65 sen per kilometre
(ii) Hotel	maximum RM240.00 per day
(iii) Subsistence allowance	RM78.00 per day.
  - (d) Expenses incurred in the use of special transportation e.g. helicopter, boat and other means of communication, as agreed with the client.

TABLE 16

**SUPPLY OF TRANSPARENCIES AND ADDITIONAL PRINTS**

- (1) This Table provides the charges for the supply of additional set of transparencies and prints at the request of the client. The standard submission per job is one complete set of transparencies and 2 complete sets of dyeline prints.
- (2) The charges are as follows:

<i>Type and Size of Plan</i>	<i>Charge per copy (RM)</i>
(a) Transparency of AO size	60.00
(b) Transparency of A1 size	40.00
(c) Transparency of A2 size	30.00
(d) Transparency of A3 size or smaller	20.00
(e) Additional dyeline prints of AO size or smaller above the first 4 copies	10.00

TABLE 17

**MOBILIZATION AND DEMOBILIZATION**

- (1) This Table covers the need to move men and equipment from the Head Office to the work site and from the work site back to Head Office, and time lost on travelling on all-weather road. The charges are as follows:
- (a) Work site of less than 150 kilometres, no Mobilization or Demobilization unless agreed upon.
  - (b) Work site of more than 150 kilometres, but not exceeding 300 kilometres from Head Office
    - 1 party day for Mobilization; and
    - 1 party day for Demobilization.
  - (c) Work site of more than 300 kilometres but not exceeding 500 kilometres from the Head Office
    - 2 party days for Mobilization; and
    - 1 party day for Demobilization.
  - (d) Work site exceeding 500 kilometres from the Head Office
    - 3 party days for Mobilization and
    - 2 party days for Demobilization.
- (2) For worksite with no all-weather road access, mobilization and demobilization of survey party will be claimed according to actual time taken (including waiting time) on per party day basis. Mobilization and demobilization of the survey party by the following modes of transportation, where necessary and agreed upon, shall be reimbursable at cost:
- (a) Hire of Helicopter or airplane;
  - (b) Hire of boat, crew and barge;
  - (c) Hire of vehicle and driver; and
  - (d) Fare for internal flights.

TABLE 18

**TIME RATES**

- (1) Fees may be charged by time rates. In this Schedule, "field work" means the survey work in the field done by a survey field party headed by a land surveyor or surveying assistant who is assisted by a party of labourers and equipped with the normal survey equipment (e.g. theodolite, level, etc.) suitable for the survey in hand. The rates for the normal categories are as follows:
- (a) Mobilization cost is fees to be charged to detract earnings lost by the field party moving to the site to be surveyed. The charge is RM1,130.00 per party day.
  - (b) Computations and/or preparation of plans (no field work involved), the time to be used for the calculation of fees is the time spent by the computers and draftsmen in the Office. The rate is RM50.00 per hour per draftsman or per computer. This rate includes the cost of supervision, supply of drafting or computing materials and administration.
  - (c) Supply of labour or workmen without field or office equipment, including attendance in court, site visit and meeting.
 

land surveyor	RM870.00 per day
surveying assistant	RM330.00 per day
skilled survey labourer	RM 65.00 per day
- The time to be used for the calculation of fees includes travelling time.
- (d) Transport charges at RM150.00 per party day.
- (2) Time rate to be used when the land surveyor is of the view that the fees as worked out by way of quantities is uneconomical to carry out the job or when the specifications and or quantities or survey work required are uncertain.
- (3) The number of days should be determined and agreed upon with the client before commencement of survey work. In this case, once the number of days is agreed upon, this number will be charged

irrespective of whether the actual number of days taken is more or less than the number so agreed.

- (4) When the number of chargeable days could not be determined or agreed upon then the actual number of days worked should be used. This includes days spent travelling, temporary stoppage due to bad weather, security reasons and other circumstances beyond the control of the land surveyor.
- (5) Working Time is from 7.00 a.m. to 1.00 p.m. for every working day. When the land surveyor is required to work between 2.00 p.m. to 5.00 p.m., this will be considered to be another working day. When the surveyor is required to work on Sunday and Public Holiday, a multiplying factor of two (2) will be used to reckon the days worked.
- (6) Charge for solar or stellar observation for Azimuth determination is 2 party days per station subject to a maximum of 6 party days including waiting time when the weather is unfavourable to carry out such observation.



**SECOND SCHEDULE**  
**SURVEY SPECIFICATIONS**  
(Rule 19)

Classification of surveys	Angular accuracy of instrument	No. of sets of H.A. observation	No. of sets of V.A. observation	No. of stations for bearing close	Length of surveyed line	Permissible angular misclosure	Permissible linear misclosure
STG Control	3" or better with direct reading to 1"	4 independent	2 reciprocal	15 or less	between 500m and 1000m	3" of arc per station or better	1 : 20,000 or better
SS Control	3" or better with direct reading to 1"	2 independent	2 reciprocal	15 or less	between 200m and 500m	60" or better; and such that the bearing of any line shown on the plan shall not differ from the true bearing expressed in terms of the origin of bearings of the survey by more than the following limits of error: (a) up to 200 m by 15" or less (b) over 200m by 10" or less	1 : 12,000 or better; and such that the length of any line shown on the plan shall not differ from its true length in terms of the standard of length by more than 0.005 m for each 100 m measured.
First Class Control	3" or better with direct reading to 1"	2 independent	1	25 or less	between 100m and 200m	60" or better and such that the bearing of any line shown on the plan shall not differ from the true bearing expressed in terms of the origin of bearings of the survey by more than the following limits of error: (a) up to 200 m by 1' or less (b) over 200m by 30" or less	1 : 8,000 or better; and such that the length of any line shown on the plan shall not differ from its true length in terms of the standard of length by more than 0.010 m plus 0.001m for each 10m measured.
First Class Cadastral	6" or better	1	1	25 or less	not more than 300m	60" or better and such that the bearing of any line shown on the plan shall not differ from the true bearing expressed in terms of the origin of bearings of the survey by more than the following limits of error: (a) up to 200 m by 1' or less (b) over 200m by 30" or less	1 : 8,000 or better; and such that the length of any line shown on the plan shall not differ from its true length in terms of the standard of length by more than 0.020 m plus 0.002m for each 10m measured.
Prismatic Compass	15' or better	1	1	-	not more than 100m	Reading between the forward and back bearings on the same line shall not differ by more than 1 degree.	1 : 250 or better

## THIRD SCHEDULE

## AREA APPROXIMATION

(Rule 22)

<i>Area not more than</i>	<i>But Exceeding</i>	<i>To be entered to the nearest</i>
First and Second Class Surveys		
0.11 hectare	—	0.1 square metre (m <sup>2</sup> )
1 hectare	0.11 hectare	1 square metre (m <sup>2</sup> )
2.1 hectares	1 hectare	0.0001 hectare (ha)
40.5 hectares	2.1 hectares	0.001 hectare (ha)
405 hectares	40.5 hectares	0.1 hectare (ha)
Prismatic Compass Survey		
1 hectare	—	10 square metres (m <sup>2</sup> )
8.1 hectares	1 hectare	0.001 hectare

*Remark:* The above approximation shall be made by rounding down the determined area except in cases involving conversion of areas shown in acre or square foot on registered land titles into hectare or square metre, the approximation shall be made by rounding off the determined area (i.e. 5 and above shall be rounded up and below 5 shall be rounded down.)

## FOURTH SCHEDULE

## FORMAT AND CONTENTS OF PLANS

(Rules 33 and 34)

## 1. Survey Plans

In these rules, survey plans shall include Deposited Plan (DP), Small Deposited Plan (SOP), Big Plan (BP), Small Plan (SP) and Miscellaneous Plan (MP). The format and contents of the survey plans shall be as follows:

## (a) Plan mediums

Plans shall be drawn on durafilm of thickness not less than 125 micron or any other drawing medium approved by the Director.

## (b) Plan sizes

The size of the plan shall be of International Standard Organization (ISO) size of either A1, A2 or any other size approved by the Director.

## (c) Plan scales

The recommended scales to be used are: 1:50, 1:100, 1:150, 1: 200, 1:250, 1:300, 1:500, 1:750, 1:1000, 1:1,250, 1:1,500, 1: 2,000, 1:2,500, 1:5,000 or any other scale approved by the Director. Diagram either in larger scale or not to scale may be added to illustrate any part of the plan, measurements or details.

## (d) Plotting

- (i) All plans shall be accurately plotted with the meridians parallel with the side of the plan form and north point upwards; but in exceptional cases, where it is necessary to make the best use of the plan form on account of the shape or layout of the survey, the plan may be plotted with the meridian at an angle to the side of the plan form. In such cases, the angle shall not exceed 90°, and the north point shall be shown at a suitable space not below a line parallel with the bottom edge of the plan form.
- (ii) Full plotting lines for grids shall not be required but grid cuts at a reasonable space shall be shown towards the edge of the plan form together with their co-ordinates.
- (iii) If the plan is plotted with the aid of a computer, tabulation of plan details in lieu of diagrams is permitted.

**(e) Plan serial numbers**

- (i) Every survey plan shall be allotted a serial number issued by the Land and Survey Department and shall be shown at the bottom right hand corner of the plan.
- (ii) Where more than one survey plan is to be prepared for any cadastral land survey carried out under the same survey job, the same heading and survey plan number shall be used with the letter A, B, C, *etc.*, suffixed to the survey plan number, e.g. if two plans are drawn for DP 1/288, then the plans shall be numbered as DP 1/288A and DP 1/288B. If a key plan is drawn, then it shall be numbered as DP 1/288.

**(f) Plan headings**

The heading of each plan shall include:

- (i) The type of survey
- (ii) The original and new lot numbers in the case of title surveys
- (iii) The block or section number
- (iv) The land or town district names
- (v) The cadastral sheet reference

**(g) Survey marks**

- (i) Survey marks shall be classified into boundary marks and control marks and shall be represented on survey plans as shown in the Sixth Schedule.
- (ii) Where the boundary mark cannot be placed on the ground for some reason, it shall be denoted with the annotation "No Mark" on the plan.
- (iii) Old marks shall be annotated with the boundary marks and the expression, "Renewed" or "Refixed" where appropriate. Note "Renewed" or its abbreviation shall be used to denote the old boundary mark which has been found in order but its condition warrants a replacement by a new mark. "Refixed" or its abbreviation shall be used to describe the boundary mark which is used to re-establish the missing or disturbed old boundary mark.
- (iv) An old mark found and renewed or refixed shall be shown by the symbol of a new mark and the mark replaced shall be indicated in the notation.
- (v) All adopted marks shall be annotated with the expression "Adpt." and the source information shall be shown on the plan. For theodolite survey, traverse volume reference shall be quoted e.g. TV1/12/147, IM/12/147, RSO/12/147, *etc.* For prismatic compass survey, the field book reference shall be shown.
- (vi) The type and the number of the survey mark shall be noted against the symbol, e.g. 648 Pkt. or STG 1206, *etc.*

**(h) Linework**

The linework depicting the boundaries of districts, blocks, lots, reserves, roads, fences and other details shall be as shown in the Sixth Schedule.

**(i) Text styles and details on plan**

The styles of the alphanumerics indicating the various details on plan such as lot numbers, blocks or sections, roads and river names, plan number and headings, bearings and distances, *etc.*, shall be as shown in the Sixth Schedule.

**(j) Lot numbers**

- (i) Lot numbers of lots under survey shall be clearly printed near the centre of the respective lots in which they refer, as well as in plan heading.
- (ii) Underlying lot numbers shall be shown in pecked line and adjoining lot numbers shall be shown in full.
- (iii) The pre-block lot numbers shall be underlined and the other land titles such as leases, occupation tickets, *etc.*, shall be pre-fixed with the initials L, O.T., *etc.*

**(k) Areas**

- (i) Areas of lots shown on plan shall be rounded according to the Table of Area Approximation as set out in the Third Schedule.
- (ii) Area of each lot shall be shown beneath the lot number or tabulated with the lot number.



(iii) Scaled area shall be distinguished by the letter "Sc." and shown after the area.

**(l) Bearings and distances**

- (i) Bearings and distances shall be written as close as possible to the boundary or surveyed lines. Bearings shall be shown to the nearest second of arc except for lines of less than ten metres, the bearing shall be shown to the nearest minute of arc. Distances shall be shown to the nearest millimetre. For Prismatic Compass Survey, the bearings shall be shown to the nearest 15' and the distances to the nearest decimetre (0.1m).
- (ii) To distinguish the bearings and distances which have been obtained by direct measurement from that which have been obtained indirectly, the following abbreviations shall be added:
  - (a) to calculated bearings and distances the letter "Cal." and
  - (b) to deduced distances obtained by subtracting one measured distance from another, the letter "Ded."

**(m) Roads**

- (i) Print "LEGAL ROAD" for unnamed road which has been gazetted as road reserve.
- (ii) Print "ROAD RESERVE" for road to be surrendered to the State.
- (iii) Print the official road name for road which has been named.

**(n) Administrative boundaries, land classifications and land categories**

Administrative boundaries, land classifications and land categories shall be shown on the plan.

**(o) Easements and Rights of way**

The purpose and position of all existing easements and rights of way shall be shown on the plan.

**(p) Buildings eaves/Party walls**

Buildings with their eaves or projecting portions abutting on, overlapping or closely approaching the boundaries shall be accurately fixed and their positions in relation to the boundary shall be clearly specified and delineated on the plan. Where the wall or a building or structure is erected on or adjoining a boundary, and a wall is used as a party wall or where party wall rights thereto have been created, the wall shall be described as a party wall on the plan and the position of the boundary in relation to the wall shall be shown by diagrams illustrating the height and width or any change in the thickness of the wall. Fixes of the party wall shall be shown on the survey plan.

**(q) Datum**

The datum adopted for survey and its initial bearing shall be identified by the word "ORIGIN".

**(r) Field Books**

Field books used for recording survey measurements shall be indicated on the plan.

**(s) Other information**

Any other information, numerical or otherwise, which might be of value in locating boundaries.

**(t) Abbreviations**

Abbreviations used on plans shall be as follows:

Adopted	Adpt.
Balance	Bal.
Besar	B.
Bitumen	Bitu.
Building/Bangunan	Bgn.
Bukit	Bt.
Brick	Br.
Belian picket	Pkt.
Block	Blk.
Calculated	Cal.
Close	Cl.
Communal forest Reserve	CFR
Concrete	Conc.
Corner	Cor.
Concrete Mark	CM

Deduced	Ded.
Destroyed	Destd.
Diagram	Diag.
Distance	Dist.
Disturbed	Distd.
Electric Pole	EP
Forest Reserve	FR
Found	Fd.
Found firm	Ff
Galvanised Iron	GI
Gazette Number	G.N.
Grant	G.
Ground	Grd.
High Water Mark	HWM
hectare	ha.
Iron Pipe	IP
Jalan	J.
Jubilee Occupation Ticket	JOT
Kampong	Kg.
Kecil	K
Kuala	K.
Lease	L
Lebuh	Lbh.
Loba	L.
Lorang	Lrg.
Land District	LD
Low Water Mark	LWM
Malay	M.
Mark	Mk.
Measurement	Mea.
Mixed Zone Land	MZL
Metre	m
Native Area Land	NAL
New Control Peg, belian	NP
New Boundary Peg, belian	NBP
Old Control Peg, belian	OP
Old Boundary Peg, belian	OBP
Occupation Ticket	OT
Permit	Pmt.
Persiaran	P.
Refixed	Rfx.
Reinstated	Reinst.
Renewed	Rnw.
Right of Access	ROA
Right of Way	ROW
Secondary trig point	N
Section	Sec.
Square metres	m <sup>2</sup>
SS Control Station	SS
STG Control Station	STG
Street	St.
Suburban	Subn.
Sungai	Sg.
Surface Area	Surf. A
Tanjung	Tg.
Town District	TD
Tertiary Trig. Station	T
Traverse	Trav.
Trig. Point, Tellurometer traverse	TT
Terrace	Ter.
Telephone Pole	TP
Underground	U/G
Underlying Boundary	UB
Water Manhole	WMH

## 2. Strata Titles Plans

Strata Titles Plans shall include the Index Plan, Storey Plan and Certified Plan and shall be prepared as follows:

### (1) Index Plan

- (a) Every Index Plan shall be drawn on durafilm of ISO A3 size or any other size approved by the Director.
- (b) Every Index Plan shall be numbered with reference to the Type A Survey Plan No., e.g. SP 5/132- ISP 1, 2, 3.....
- (c) The Index Plan shall show an Inset Site Plan in its first plan if there are more than one Index Plan.
- (d) The Inset Site Plan shall show the following:
  - (i) The boundaries and boundary marks of the lot, its number and area;
  - (ii) The existing building(s) to be sub-divided, its number and its first storey area (ground floor) and all other building(s) thereon, if any;
  - (iii) The provisional block(s) of the building(s) in broken lines, if any;
  - (iv) The abutments and adjoining lot numbers, roads, and all other relevant details as may be required.
- (e) The Index Plan shall have vertical section(s) showing the floors and ceilings, the height of each storey as measured from the centres of the floors to the centres of the ceilings.
- (f) Only the front vertical section(s) of the building(s) shall be drawn unless the floor levels for the front and back elevations are different.
- (g) In the case of provisional block(s), the vertical section(s) showing the storeys of the building(s) shall be drawn in broken lines and the number of parcels for each storey and the total number of parcels for the whole block stated. Only the front vertical section(s) of the provisional block(s) shall be drawn unless the floor levels for the front and back elevations are different.
- (h) Storeys shall be numbered from the ground floor as Storey 1, Storey 2, *etc.*, upwards and the basements directly below Storey 1 shall be numbered as Basement 1 (B1), Basement 2 (B2), *etc.*, downwards.
- (i) Every Index Plan shall have a certification by a land surveyor that the building(s)/provisional block(s) is/are situated wholly within the boundaries of the lot in question.
- (j) Every Index Plan shall also have a certification by a land surveyor that the Index Plan(s) is/are correct and is/are prepared from the approved building plan(s).
- (k) The format of the certifications are as set out in the Fifth Schedule.

### (2) Storey Plan

- (a) Every Storey Plan shall be drawn on durafilm of ISO A3 size or any other size approved by the Director.
- (b) Every Storey Plan shall be numbered with reference to the Type A Survey Plan No., e.g. SP 5/132- ISP 1,2,3. The Storey Plans shall be numbered consecutively after the Index Plans.
- (c) Each Storey Plan shall show:
  - (i) the number of the lot, the title number of the land comprised therein, and the building and numbered storey thereof to which the plan relates;
  - (ii) the boundaries of each of the proposed parcels within the storey by reference to walls of permanent construction;
  - (iii) the area of each parcel and its dimensions;
  - (iv) the boundaries of the common property and its perimeter dimension;
  - (v) the scale of the plan
- (d) Each parcel shall be identified by non-recurrent references. For example, Parcel 123-2-14 means Parcel 14 on Storey 2 of the building on Lot 123. However, in the Storey Plan, the lot number shall be omitted from the parcel number, e.g. the above parcel number 123-2-14 shall be shown as Parcel 2-14 only on the Storey Plan.



- (e) Where storeys and parcels are identical, only a typical Storey Plan needs to be drawn, e.g. the number (3-7)-8 means Parcel 8 from Storey 3 to Storey 7.
- (f) Where more than one building/provisional block is to be sub-divided, the building number shall follow an alphabetical order (A, B, C, ..., Z, AA, AB, AC, ..., AZ, ZA, ZB, ZC, ..., ZZ). The building number shall be suffixed to the parcel number e.g. parcel number 123-2-1-A means parcel 1 on the storey 2 of Building A on Lot 123.
- (g) Several identical storeys may be represented by one Storey Plan.
- (h) Every Storey Plan shall have a certification by a land surveyor that the boundaries of each of the proposed parcels within the storey are defined by reference to walls of permanent construction and the Storey Plan(s) is/are correct and prepared from approved building plan(s). The format of the certificate is as set out in the Fifth Schedule.

**(3) Certified Plan**

- (a) Every Certified Plan shall be drawn on durafilm of ISO A3 size or any other size approved by the Director.
- (b) Each Certified Plan shall show an Inset Site Plan as in paragraph 2(1)(d).
- (c) If the Certified Plan is drawn on one folio, the vertical section and all the storey plans of the whole building are to be shown.
- (d) If the Certified Plan is drawn on more than one folio, then each folio shall show the vertical section of the storey or storeys to which it relates.
- (e) Each vertical section shall show the storey numbers, the height of each storey, the building number where there is more than one building to be sub-divided and the scale.
- (f) Where the storey plan of different storeys are similar, one storey plan shall be sufficient for all such storeys.
- (g) In the case of provisional block(s) of building(s), the building number(s) shall be numbered as in paragraph 2(2)(f).
- (h) The certified plan shall show the following information and details:
  - (i) A heading stating the storey to which the plan relates.
  - (ii) Boundaries of each parcel in firm black lines.
  - (iii) Number of each parcel as in paragraph 2(2)(d).
  - (iv) Area of each parcel rounded down to the nearest square metre.
  - (v) All other relevant details of the common property e.g. staircase, lift, toilets, etc.
  - (vi) The scale(s) of the storey plan(s).
  - (vii) The Survey Job No. for the Type A Survey.
- (i) Each Certified Plan shall have a tabulation or schedule showing the parcel number, building number, area and share units of each parcel.
- (j) Every Certified Plan shall be allotted a serial number issued by the Land and Survey Department. If more than one set of Certified Plan is required, the Certified Plan number shall be followed by a suffix A, B, C... etc. For example, CP 1/1234(A) means the first sheet of Certified Plan from 1st Division of Serial Number 1234.
- (k) In the case of provisional block(s), the proposed vertical section(s) shall be drawn in broken lines. Only the superficial area of the provisional block(s) and the horizontal dimensions of its/their external boundaries shall be shown and the total number of parcels stated.
- (l) Every Certified Plan shall have a certification by a land surveyor that he undertakes full responsibility as to the correctness of the survey and the Certified Plan. The format of the certificate is as set out in the Fifth Schedule.

*FIFTH SCHEDULE*  
**CERTIFICATION OF PLANS**

(Rule 34)

**1. Certification of Survey Plan**

Every survey plan shall bear a certificate in the following form:

"I, ..... of ....., a land surveyor licensed under the Land Surveyors Ordinance, 2001, do hereby certify that this plan has been prepared from the survey undertaken by me/done under my supervision and that both plan and survey are correct.

I hereby agree that I shall bear full responsibility as to the correctness of the survey and that it has been made in strict accordance with the Land Surveyors (Conduct of Cadastral Land Surveys) Rules, 2003.

Dated at ..... this ..... day of ....., 20 .....

.....  
 Land Surveyor  
 (Registration No. ....)"

**2. Certification of wholly compiled plan**

Every wholly compiled plan shall bear a certificate in the following form:

"I, ..... of ....., a land surveyor licensed under the Land Surveyors Ordinance, 2001, do hereby certify that this plan has been compiled by me in whole from .....

Dated at ..... this ..... day of ....., 20 .....

.....  
 Land Surveyor  
 (Registration No. ....)"

**3. Certification of Index Plan**

"I, ..... of ....., a land surveyor licensed under the Land Surveyors Ordinance, 2001, do hereby certify that the Index Plan(s) as shown herein is/are correct and is/are prepared from Building Plan(s) No. .... approved by ..... on ..... reference .....

Dated at ..... this ..... day of ....., 20 .....

.....  
 Land Surveyor  
 (Registration No. ....)"

"I, ..... of ....., a land surveyor licensed under the Land Surveyors Ordinance, 2001, do hereby certify that the building (s) to be sub-divided is/are situated wholly within the lot.

Dated at ..... this ..... day of ....., 20 .....

.....  
 Land Surveyor  
 (Registration No. ....)"

**4. Certification of Storey Plan**

"I, ..... of ....., a land surveyor licensed under the Land Surveyors Ordinance, 2001, do hereby certify that the storey plan(s) as shown herein is/are correct and is/are prepared from Building Plan (s) No. .... approved by ..... on ..... reference .....

Dated at ..... this ..... day of ....., 20 .....

.....  
Land Surveyor  
(Registration No. ....)"

"I, ..... of ....., a land surveyor licensed under the Land Surveyors Ordinance, 2001, do hereby certify that the boundaries of each of the proposed parcels within the storey are defined by reference to walls of permanent construction.

Dated at ..... this ..... day of ....., 20 .....

.....  
Land Surveyor  
(Registration No. ....)"

**5. Certification of Certified Plan**

"I, ..... of , a land surveyor licensed under the Land Surveyors Ordinance, 2001, do hereby certify that this strata title survey on Building No on is undertaken by me/ done under my personal supervision and that both plan and survey are correct.

I hereby agree that I shall bear full responsibility as to the correctness of the survey and that it has been made in strict accordance with the Land Surveyors (Conduct of Cadastral Land Surveys) Rules, 2003.

Dated at ..... this ..... day of ....., 20.....

.....  
Land Surveyor  
(Registration No. ....)"



SIXTH SCHEDULE  
SYMBOLS AND SPECIFICATIONS FOR SURVEY PLANS

**1. SURVEY MARKS**

Boundary Marks

Peg or other mark including concrete mark, iron rod, iron tube, metal or plastic mark.

New Adopted Old Mark Found Diameter, Line Gauge

○ ○ Adpt. ● 1.78mm., 0.25mm.

Control Marks

Bench Mark, standard block or other control survey station, picket, permanent reference mark.

⊙ ⊙ Adpt. ⊙ 1.35mm., 0.25mm.  
2.79mm., 0.25mm.

No Mark

No Mark  
5

0.70mm.

**2. LINEWORK**

Line Gauge

State

— — — — + — — — — + — — — —

0.70mm.

Divisional

— — — — — — — — — —

0.70mm.

District

— — — — — — — — — —

0.70mm.

Block or Section

— — — — — — — — — —

0.70mm.

Town Land

— — — — — — — — — —

0.70mm.

Suburban

— — — — — — — — — —

0.70mm.

Government Reserves (GR)

— — — — x — — — — x — — — — x

0.70mm.

Forest Reserves (with Name) (FR)

— — — — x — — — — x — — — — x

0.70mm.

Mixed Zone Land (MZL)

— — — — / — — — — / — — — — /

0.70mm.

Native Area Land (NAL)

— — — — // — — — — // — — — — //

0.70mm.

Native Communal Reserves (NCR)

— — — — x x — — — — x x — — — —

0.70mm.

Communal Forest Reserves (with Name) (CFR)

— — — — x x x — — — — x x x — — — —

0.70mm.

Boundaries of new parcels (lots)

— — — — — — — — — —

0.70mm.

All new survey traverse lines

— — — — — — — — — —

0.25mm.

Existing or abutting lot boundary

— — — — — — — — — —

0.25mm.

Easement

— — — — With identification — — — —

0.50mm.

Fences: (1) Not alongside lot boundary

— — — — " — — — — " — — — — "

0.25mm.

(2) Alongside lot boundary

— — — — " — — — — " — — — — "

0.70mm.

Underlying lot boundary (UB):

(1)

— — — — UB — — — —

0.25mm.

(2) Coincidence with new lot boundary



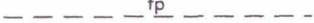
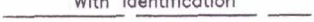
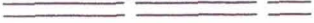
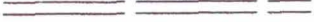



— — — — UB — — — —

0.70mm.

Road sides other than new boundary

— — — — — — — — — —

0.50mm.

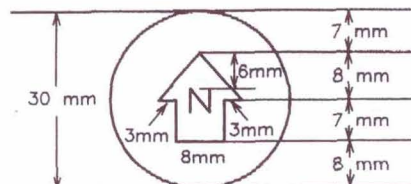
Road formation (1) Metalled		0.35mm.
(2) Unmetalled		0.25mm.
Footpath (fp)		0.25mm.
River bank, sea coast, etc		0.25mm.
Drain: (1) Earth		0.25mm.
(2) Concrete		0.25mm.
Tidal flow: (1) One flow		0.25mm.
(2) High and low tidal flows. Longer arrow directing to the river mouth.		0.25mm.
Buildings		0.25mm.

## 3. TEXT STYLES AND DETAILS ON PLAN

Text Height, Line Gauge

New lot number	275	5.0mm., 0.70mm.
Underlying lot number	1250	5.0mm., 0.35mm.
Adjoining lot number	326	5.0mm., 0.35mm.
D.P., T.D., L.D., Block or Section	SEDUAN L.D.	5.0mm., 0.35mm.
Road names	JALAN MATANG	3.0mm.-5.0mm., 0.50mm.-0.70mm.
River names	SUNGAI SARAWAK	3.0mm.-5.0mm., 0.50mm.-0.70mm.
Plan serial number	DP 2/79	4.5mm., 0.50mm.
Plan heading	Plan of Lots 1 - 3, Block 7.....	3.0mm.-3.5mm., 0.50mm.
Area	352.9 m <sup>2</sup>	3.0mm., 0.50mm.
Road Reserve	ROAD RESERVE	3.0mm., 0.50mm.
Legal Road (road without name)	LEGAL ROAD	5.0mm., 0.35mm.
Bearings and distances	269° 01' 40" 71.986	2.0mm., 0.25mm.
Survey mark numbers	35, 12 Pkt., CM1/6710, 307 Nail	2.0mm., 0.25mm.
Grid values	5172335 m. N	2.0mm., 0.25mm.
Field book and traverse volume references	1M/C98-27, 1M/T78-8, 1M/7-185	2.0mm., 0.25mm.

North point



Line Gauge : 0.50mm.

Letter 'N' :  
Text Height : 4.5mm.  
Line Gauge : 0.50mm.

Dated this 11th day of November, 2003.

DATU HAJI MOHAMMET BAIJURI BIN KIPLI,  
*Chairman,*  
*Land Surveyors Board, Sarawak*

Approved by the Majlis Mesyuarat Kerajaan Negeri this 13th day of November,  
2003.

ABDUL GHAFUR SHARIFF,  
*Clerk to Majlis Mesyuarat Kerajaan Negeri*

KPPS/P/1-6/38



