# CADASTRE SURVEY PRACTICE (SBEU 3323)

## WEEK 5 - CONDUCT CADASTRAL LAND SURVEYS (SARAWAK)

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#### OUTLINE

Preliminary

Conduct of cadastral land surveys Rules
 2003

#### **PRELIMINARY**

#### Interpretation

"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)];

#### Interpretation

"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.

# 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.

#### 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 14

# 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 Coordinates and Meridians of Reference

12. All cadastral land surveys shall be finalized in terms of the Rectified Skew Orthomorphic (RSO) projection system of rectangular co-ordinates. In exceptional cases, where it is impractical to connect the survey to the (RSO) survey marks, the coordinate 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 Coordinates and Bearings

- 14. (1) The origin of coordinates 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.

## Origin of Coordinates and Bearings

- (2) The reliability and firmness of the former survey marks as mentioned in paragraph (I) 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 coordinates 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.

#### 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"	Z 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 23

### 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. TT Tellurometer Traverse Point, STG Standard Traverse Geodimeter Point, SS Standard Survey Mark
- (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.

### Classification of Surveys

- (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 subdivision surveys, etc. This class of survey shall be connected to higher order survey marks and all the surveyed marks shall be coordinated.

### **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. (Sarawak-Cadastral Processing System-SCS Comp) (ess sabah). LS eCPS (Cadastral Processing System, Sarawak) JTS SCS (Survey Computation Section. JTU use ESS /Licensed surveyor use ISS. JTU Sabah ISS, LS ESS.
- (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 coordinates of all boundary points; and
- (d) computation of the area of each new lot.
- (3) All final coordinates and bearings shall be computed in terms of the origin of coordinates 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.

#### THIRD SCHEDULE

#### AREA APPROXIMATION

(Rule 22)

Area not more than	But Exceeding	To be entered to the nearest
First and Second Class Surveys		
0.11 hectare	_	0.1 square metre (m2)
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 (m2)
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.)

#### Permanence 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.

#### Permanence of Boundaries

- (2) If there is any discrepancy between the dimensions of the boundaries on the ground and hose 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.

#### Demarcation of Boundaries

- (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.

#### Demarcation of Boundaries

- (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.

## Demarcation of Boundaries

- (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.

## Demarcation of Boundaries

(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.

### Demarcation of Boundaries

- (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. 881 (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.

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## **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.

## Field Survey Data

- (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.

## Field Survey Data

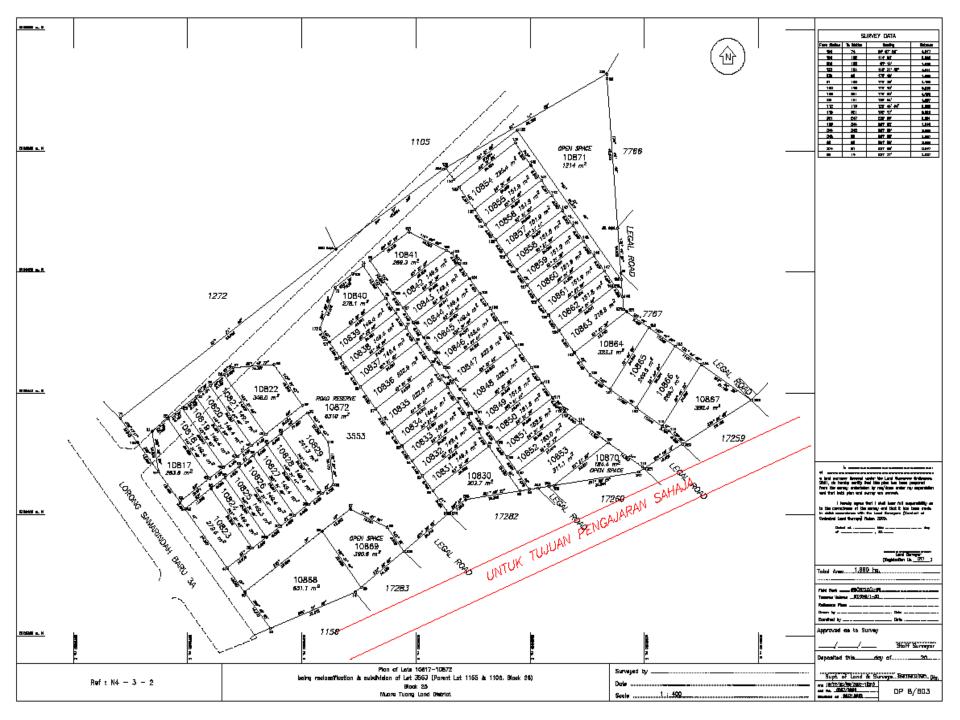
- (f) Each page of the field book shall be initialled by the land surveyor.
- (g) Sufficient diagrams shall be drawn to make the measurements recorded in the field book readily interpretable.
- (h) Diagrams shall show a North Point and shall be clearly referenced with respect to other diagrams.
- (i) 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.

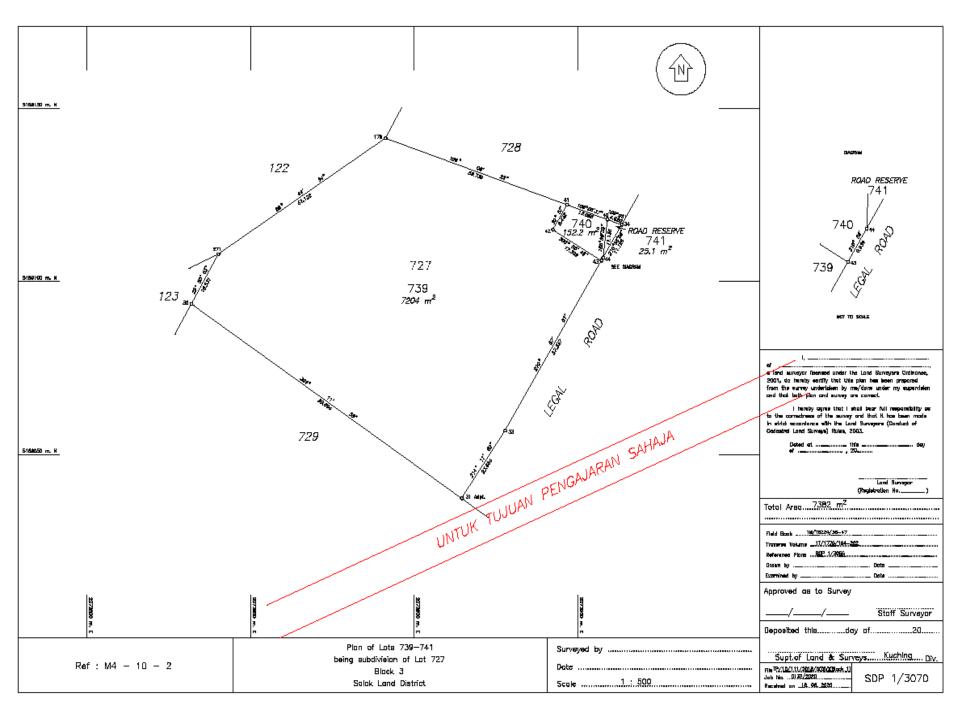
## Deposited Plan (DP)

- Deposited Plan (DP) "A1" size is plans showing the details of Amalgamation and Sub-division of Lot/Parcel of land.
- This Plan normally involved engineering plan for development.
- This Plan need to be deposited by the Superintendent of Land and Survey Department.
- The information visible on this plan was the Bearing and Distances of the observed Lot/Parcel Boundary and the Peg number.
- Area of the survey Lot/Parcel was shown clearly on the Plan either in metric unit (new plan) or imperial unit (old plan). Also visible was the traverse line and the survey origin.



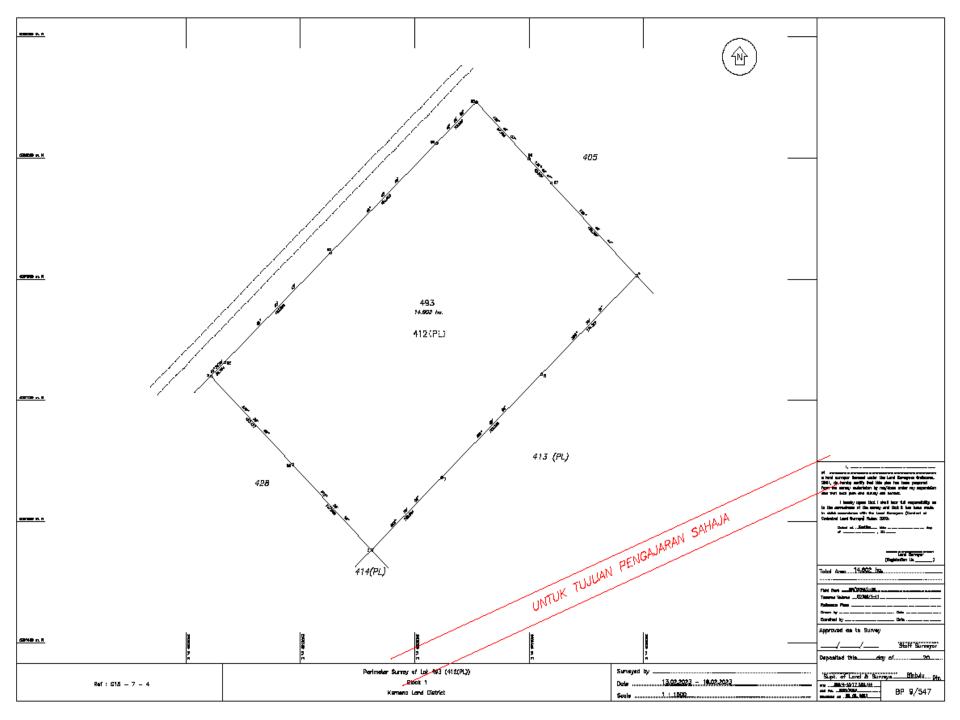
# Small Deposited Plan (SDP)

- Small Deposited Plan (SDP) "A2" size is plans showing the details of Amalgamation and Sub-division of Lot/Parcel of land.
- This Plan normally involved engineering plan for development.
- This Plan need to be deposited by the Superintendent of Land and Survey Department.
- The information visible on this plan was the Bearing and Distances of the observed Lot/Parcel Boundary and the Peg number.
- Area of the survey Lot/Parcel was shown clearly on the Plan either in metric unit (new plan) or imperial unit (old plan).
- Also visible was the traverse line and the survey origin.



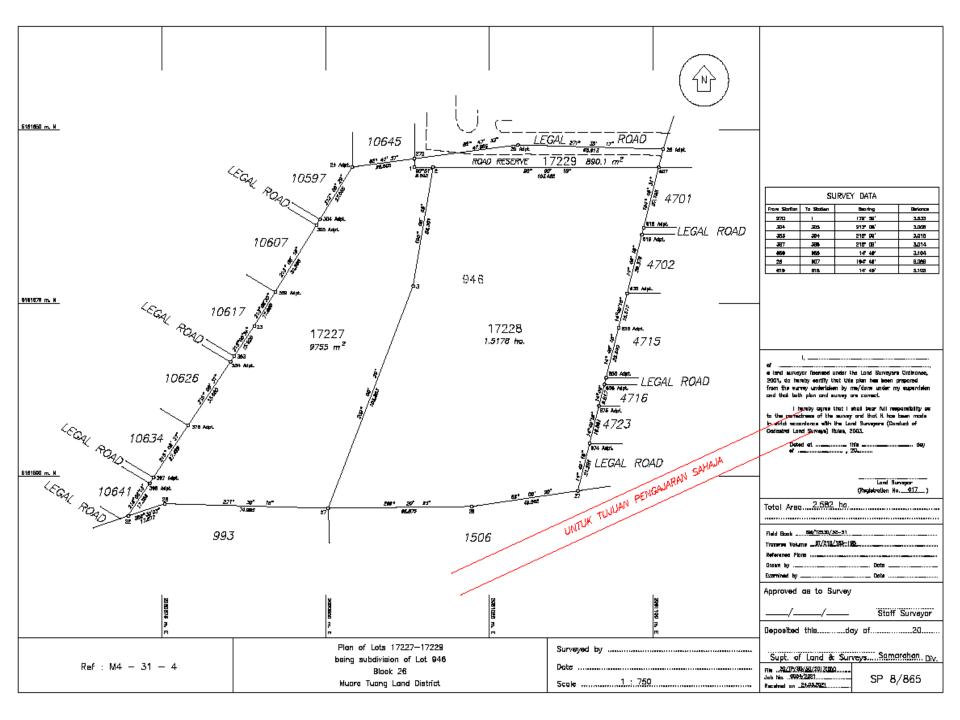
# Big Plan (BP)

- Big Plan (BP) "A1" size is plan that similar to that in "DP" except that; This plan do not involve engineering plan.
- This plan showing the details of Amalgamation and Sub-division of Lot/Parcel of land for rural areas and Agriculture Lots.
- This plan does not need to be deposited by the Superintendent of Land and Survey Department.



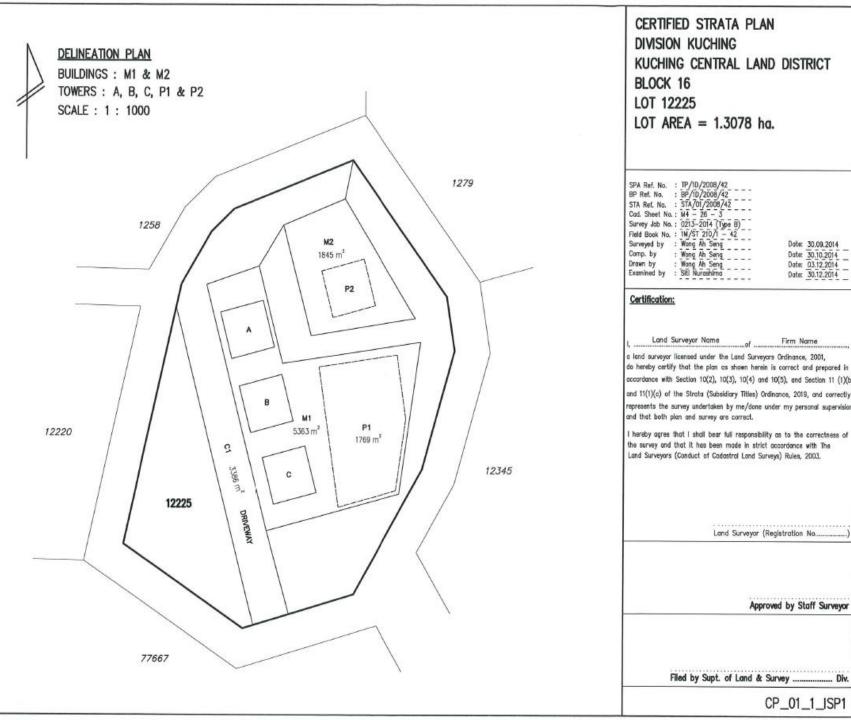
## Small Plan (SP)

- Small Plan (SP) "A2" size is plan that similar to that in "SDP" except that; This plan do not involve engineering plan.
- This plan showing the details of Amalgamation and Sub-division of Lot/Parcel of land for rural areas and Agriculture Lots.
- This plan does not need to be deposited by the Superintendent of Land and Survey Department.



## Certified Plan (CP)

- Certified Plan (CP) was a plan prepared by Private License Surveyor's firm for 'Strata Title' units.
- This Plan is mostly in 'A3' size paper. Measurements units are in metric.
- This plan shows the layout of a 'Strata Title' building and the Locality plan.
- Also shown was the schedule of area and share unit.
- Floor Plan of 'Strata Title' building.
- Elevation of subdivided building.



BLOCK 16 LOT 12225 LOT AREA = 1.3078 hg. SPA Ref. No. : TP/1D/2008/42 BP Ref. No. : BP/1D/2008/42 STA Ref. No. : STA/01/2008/42 Cad. Sheet No.: M4 - 26 - 3 Survey Job No.: 0213-2014 (Type B) Field Book No. : 1M/ST 210/1 - 42 Surveyed by : Wong Ah Seng Date: 30.09.2014 Date: 30.10.2014 Comp. by Drawn by : Wang Ah Seng : Siti Nurashima Date: 03.12.2014 Examined by Date: 30.12.2014 Certification:

CERTIFIED STRATA PLAN

KUCHING CENTRAL LAND DISTRICT

DIVISION KUCHING

Land Surveyor Name

accordance with Section 10(2), 10(3), 10(4) and 10(5), and Section 11 (1)(b) and 11(1)(c) of the Strata (Subsidiary Titles) Ordinance, 2019, and correctly represents the survey undertaken by me/done under my personal supervision,

Firm Name

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 Cadastrol Land Surveys) Rules, 2003.

Approved by Staff Surveyor

Land Surveyor (Registration No...

Filed by Supt. of Land & Survey ...... CP\_01\_1\_ISP1



STOREY PLAN
BUILDING: M1

BUILDING . N

STOREY: 1 PARCELS: 1 - 24

ACCESSORY PARCELS: A85-A132

SCALE: 1: 1000

#### Notes:

- 1) Schedule of Parcel: Please refer to Plan CP\_01\_1234\_ISP3S.
- The boundary of parcel is deduced to the middle of walls.
- The area of parcel given includes area(s) occupied by pillar(s)/column(s) found within the parcel.
- All shared common service(s)/utility line(s) within the parcel is/are common property.

A121 20.2 GARD	ti em²		A122 20.2 m <sup>2</sup> GARDEN	A122 20.2 GARD	m <sup>t</sup>		A124 20.2 m <sup>2</sup> ARDEN	A125 20.2 m			A126 20.2 m²	A127 20.2			A128 20.2 m²	A129 20.2 GARDE	m²		A130 20.2 m <sup>2</sup> SARDEN	A131 20.2 I GARDE	n²	2	132 0.2 m* IRDEN
A120 10	0.0 m <sup>2</sup> 5	7000	119 10.0 m	A118 10	nowt c		7 10.0 m <sup>3</sup>	GARDE A116_10	7411	9 415	ARDEN 5 10.0 m <sup>2</sup>	A114 10	1.0 m² (	The same of	S 10.0 m <sup>2</sup>	Al12 10.	-	21 A11	1 10.0 m <sup>2</sup>	A110 10			10.0 m <sup>2</sup>
TERRAC	OE		ERRACE	TERRAC			RRACE	TERRIACE			BACE	TERRAL			RRACE	TERRAC	E		HACE	TENNACI		TER	RACE
85.5	m*		4 85.9 m*	5 86.9	mi	81	8 69 m²	9 86.9 m	ř	1 86	2 .9 m²	13 86.9	m²		16 5.9 m*	17 86.9 t		2	20	21 86.9 r	n*	2.	4
S	STAIRCASE STAIRCASE		STAIRCASE STAIRCASE		STARCASE STARCASE			STARCASE STARCASE		STARCASE STARCASE		STAIRCASE STAIRCASE											
	V37 V38		V39 V40		V41 V42		V43 V46		V45 V46			V47 V48											
_	2 3 6 7						10 11 CORRIDOR CS3 95			14 15			10 19			2 2							
			T							DOWNER		3.0 111		Т	Т								
A85 19.3 m² CAR PARK	A86 19.3 m² CAR PARK	A87 19.3 m <sup>2</sup> CAR PAR9	ABB 19.3 m² K CAR PARK	A89 19.3 m² CAR PARK	AGO 19,3 m² CAR PARK	A91 19.3 m <sup>1</sup> CAR PARK	A92 19.3 m² CAR PARK	A93 19.3 m <sup>t</sup> CAR PARK	A94 19.3 m² CAR PARK	A95 19.3 m <sup>2</sup> CAR PARK	A96 19.3 m² CAR PARK	A97 19.3 m² CAR PARK	A98 19.3 m <sup>2</sup> CAR PARK	A99 19.3 m² CAR PARI	A100 19.3 m <sup>2</sup> CAR PARK	A101 19.3 m <sup>3</sup> CAR PARK	A102 19.3 m <sup>2</sup> CAR PARK	A103 19.3 m <sup>4</sup> CAR PARK	A104 19.3 m <sup>2</sup> CAR PARK	A105 19.3 m <sup>2</sup> CAR PARK	A105 19.3 m <sup>2</sup> CAR PARK	A107 19.3 m <sup>2</sup> CAR PARK	A108 19.3 m² CAR PARK

# CERTIFIED STRATA PLAN DIVISION KUCHING KUCHING CENTRAL LAND DISTRICT BLOCK 16 LOT 12225 LOT AREA = 1.3078 ha.

 STA Ref. No.
 : STA/01/2008/42

 Cod. Sheet No.: M+ 26 - 3
 3

 Survey Job No.: 0213-2014 (Type B)
 Field Book No.: 1M/ST 210/1 - 42

 Surveyed by : Wong Ah Seng
 Date: 30,09,2014

 Comp. by : Wong Ah Seng
 Dote: 30,10,2014

 Drawn by : Wong Ah Seng
 Date: 03,12,2014

 Examined by : Siti Nurashima
 Date: 30,12,2014

#### Certification:

SPA Ref. No. : TP/1D/2008/42

BP Ref. No. : BP/1D/2008/42

represents the survey undertaken by me/done under my personal supervision,

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 Cadastrol Land Surveys) Rules, 2003.

Land Surveyor (Registration No.

and that both plan and survey are correct.

Filed by Supt. of Land & Survey ...Kuching... Div.

CP\_01\_1234\_ISP3\_1

Approved by Staff Surveyor

#### 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, <sup>6</sup>d.g. 648 Pkt. or STG 1206, etc.

#### Linework

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

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

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.

#### Lot numbers

- Lot numbers of lots under survey shall be clearly printed near the centre of the respective (i) lots in which they refer, as well as in plan heading.
- Underlying lot numbers shall be shown in pecked line and adjoining lot numbers shall (11) be shown in full.
- The pre-block lot numbers shall be underlined and the other land titles such as leases, (111)occupation tickets, etc., shall be pre-fixed with the initials L, O.T., etc.

#### (k) Areas

- Areas of lots shown on plan shall be rounded according to the Table of Area Approximation (i) as set out in the Third Schedule.
- Area of each lot shall be shown beneath the lot number or tabulated with the lot number. (11)

	(iii)	Scaled area shall be distinguished by the letter	"Sc." and shown after the area.									
(1)	Bear	arings and distances										
	(i)	Bearings and distances shall be written as close as lines. Bearings shall be shown to the nearest so than ten metres, the bearing shall be shown to shall be shown to the nearest millimetre. For Pri shall be shown to the nearest 15' and the distant	the nearest minute of arc. Distances ismatic Compass Survey, the bearings									
	(ii)	To distinguish the bearings and distances which have from that which have been obtained indirectly, the										
		(a) to calculated bearings and distances the let	ter "Cal." and									
		(b) to deduced distances obtained by substracting the letter "Ded."	g one measured distance from another,									
(m)	Roads  (i) Print "LEGAL ROAD" for unnamed road which has been gazetted as road reserve.											
	(i)											
	(ii)	Print "ROAD RESERVE" for road to be surrer										
		Print the official road name for road which has										
(n)		inistrative boundaries, land classifications and										
	Administrative boundaries, land classifications and land categories shall be shown on the plan.											
(0)	Ease	ements and Rights of way										
	The the p	purpose and position of all existing easements a plan.	nd rights of way shall be shown on									
(p)	Buile	dings 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 diagram 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)	Datu	ım										
	The o	datum adopted for survey and its initial bearing shall	l be identified by the word "ORIGIN".									
(r)	Field	Field Books										
	Field	books used for recording survey measurements	shall be indicated on the plan.									
(s)	Othe	er information										
	Any	other information, numerical or otherwise, which mi	ight be of value in locating boundaries.									
(t)	Abbi	reviations										
4	Abbre	eviations used on plans shall be as follows:										
	Bukit Brick Belia Block Calcu Close Come Conc	nce r nen ding/Bangunan t t t t t t t t t t t t t t t t t t	Adpt. Bal. B. Bitu. Bgn. Bt. Br. Pkt. Blk. Cal. CI. CFR Conc. Cor. CM									

Deduced Ded Destroyed Destd. Diag. Diagram Distance Dist. Disturbed Distd. Electric Pole EP Forest Reserve FR Fd. Found Ff Found firm Galvanised Iron CH G.N. Gazette Number Grant G. Ground Grd. HWM High Water Mark hectare ha. Iron Pipe IP Jalan J. Jubilee Occupation Ticket TOL Kg. Kampong Kecil K Kuala K. Lease L Lbh. Lebuh Loba L. Lrg-Lorang LD Land District Low Water Mark LWM Malay M. Mark Mk. Measurement Mea. MZL Mixed Zone Land 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. P. Persiaran Rfx. Refixed Reinstated Reinst. Renewed Rnw. Right of Access ROA Right of Way ROW Secondary trig point N Sec. Section Square metres  $111^2$ SS Control Station SS STG STG Control Station St. Street Subn. Suburban Sg. Sungai Surf. A Surface Area Tanjung Tg. Town District TID T Tertiary Trig. Station Trav. Traverse TT Trig. Point, Tellurometer traverse Тет. Terrace TP Telephone Pole U/G Underground 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 abuttals 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 Stores 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.
  - 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 bounds of each of the proposed parcels within the storey are defined by reference to work 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.
- (I) Every Certified Plan shall have a certification by a land surveyor that he undertages 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)

Certificatio	on of Survey Plan	
Every surve	vey plan shall bear a certificate in the following form:	
Surveyors (	Ordinance, 2001, do hereby certify that this plan has been preporting by me/done under my supervision and that both plan and su	ared from the surve
that it has b	been made in strict accordance with the Land Surveyors (Conductules, 2003.	
Dated at	day of	, 20
		Land Surveyor ration No)
Certificatio	on of wholly compiled plan	
Every whol	olly compiled plan shall bear a certificate in the following for	m:
Surveyors C	Ordinance, 2001, do hereby certify that this plan has been comp	
Dated at	this day of, 20.	
	(Registre	Land Surveyor 70

3.	Certification of Index Plan												
	"I,												
	on reference												
	Dated at this day of												
	***************************************												
	Land Surveyor												
	(Registration No)"												
	"I,												
	Dated at this day of												
	Land Surveyor (Registration No)"												
4.	Certification of Storey Plan												
	"I,												
	Dated at this day of												
	Land Surveyor (Registration No)"												
	"I,												
	Dated at this day of												
	Land Surveyor 71												
	(Registration No. )"												

- 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. 181].
- (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 (i)pe 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

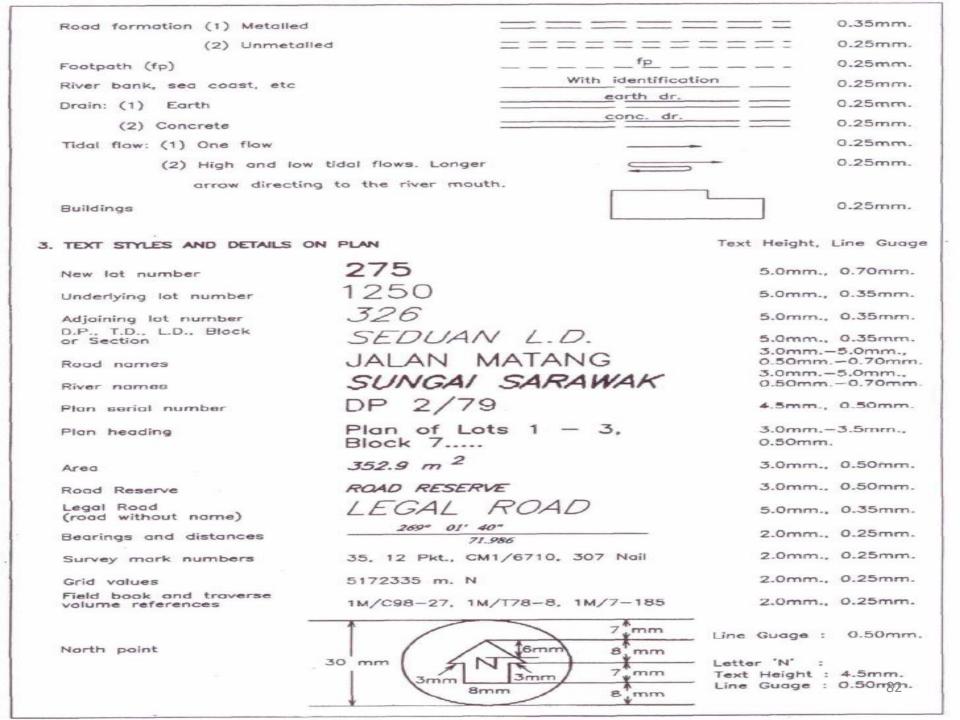
In connection with strata titles application, the following plans shall be prepared in accordance with the Fourth Schedule:

- (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.

#### SIXTH SCHEDULE

#### SYMBOLS AND SPECIFICATIONS FOR SURVEY PLANS

1.	SURVEY MARKS					
	Boundary Marks	New	Adopted C	old Mark Found	Diameter,	Line Guage
	Peg or other mark including concrete mark, iron rod, iron tube, metal or plastic mark.	0	O Adpt.	•	1.78mm	., 0.25mm.
	Control Marks					
	Bench Mark, standard block or other control survey station, picket, permanent reference mark.	0		•		., 0.25mm. ., 0.25mm.
	No Mark		No Mar 5	k		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)		×	×	×	0.70mm.
	Forest Reserves (with Name) (FR)		×	GR ×	×	0.70mm.
	Mixed Zone Land (MZL)					0.70mm.
	Native Area Land (NAL)			MZL // -		0.70mm.
	Native Communal Reserves (NCR)		×:	× —— ××		0.70mm.
	Communal Forest Reserves (with Name) (	CFR)	×	NCR XX	×× —	0.70mm.
	Boundaries of new parcels (lots)			CFR		0.70mm.
	All new survey troverse lines					0.25mm.
	Existing or abutting lot boundary					0.25mm.
	Easement		w	ith indentification	on	0.50mm.
	Fences: (1) Not alongside lot boundary					0.25mm.
	(2) Alongside lot boundary	150	- 0	11 11		0.70mm.
	Underlying lot boundary (UB):					
	(1)			UB		0.25mm.
	(2) Coincidence with new lot boundary	500		UB		0.70mm.
	Road sides other than new boundary					0.50mm.



## THANK YOU