# TABLE OF CONTENTS

#### PART I

## PROVISIONS GOVERNING ALL CLASSES OF LAND SURVEYS

## CHAPTER I - LAND SURVEYS AND GEODETIC ENGINEERS

C1 10 1 00	Secti	ion
Classification Of Land Surveys	1 -	4
Who may Execute Surveys	5	9
Bonds For Geodetic Engineers	10 -	14
CHAPTER II - SURVEYING INSTRUMENTS		
Theodolites, Transits, Electronic Distance Measuring		
and Other Equipment	15 -	20
Steel, Invar or Lovar, and Other Tapes	21 -	27
Examination, Test, Certification, And Records	28 -	35
Other Instruments	36 -	37
CHAPTER III - POSITION OF SURVEYS		
Points of Reference	38 -	40
Geographic Position	41 -	46
Philippine Reference System of 1992	47 -	59
Philippine Plane Coordinates System and		
the Philippine Reference System of 1992	60 -	69
Astronomical Observations	70 -	76
Time	77 -	88
Latitude	88 -	89
Longitude		99
Elevation		100
Azimuth	101 -	109

# CHAPTER IV - GEODETIC AND PROJECT CONTROL SURVEYS

Classes of Control Surveys	110 -	111
Geodetic Control Surveys	112 -	
Project Control Surveys	114 -	
Position And Base Meridian of the Project	135 -	
Grid Azimuth	137 -	
Connection with Adjoining Projects	157	154
Adjoining Project in the Philippine Plane		154
Coordinate System PRS-92		155
Adjoining Project in the Local Plane Coordinate System	156 -	
Primary Controls	130 -	100
Measurements of Horizontal Angles	161 -	164
Measurement of Distances	165 -	
Computations	189 -	100
Secondary Control	10,7 -	204
Location of Secondary Stations	205 -	208
Azimuths and Distances	209 -	
Computations	215 -	
Tertiary Control	213 -	219
Location of Tertiary Stations	220 -	222
Azimuths and Distances	224 -	
Control for Isolated Surveys	229 -	
Computations	238 -	
Triangulation Control	242 -	
Location Monuments Surveys	247 -	
200mion Frontinonia Bullyoys	241 -	208
CIVIL DIFFER VI. A CONTRACTOR OF CONTRACTOR		
CHAPTER V - MONUMENTS OF SURVEYS NATURE OF	MONUM	ENTS
Nature of Monuments	269 -	280
Manufacture of Concrete Monuments	281 -	
Corners which shall be Monumented	284 -	
Public Highways and Railways	296 -	
5 ··,·······	2,0	304
CHAPTER VI - PHYSIOGRAPHIC FEATURES		
CHAITER VI-THISIOGRAPHIC PEATURES		
Arroyos, Esteros and Rivers	305 -	314
Lakes, Ponds, and Pools	315 -	
Seacoast	320 -	
Easements, Salvage Zones and Bank Protection	323 -	
		220

## CHAPTER VII - SURVEY COMPUTATIONS

General Requirements Survey Controls Computations	326 -	335
Lot Data Computations	336 -	340
	341 -	343
Computations of Triangulation, Intersection and Others	344 -	348
CHAPTER VIII - MAPS AND PLANS OF SURVEYS		
Standard Base Maps	349 -	350
Cadastral Maps		351
System of Numbering of Cadastral Maps	352 -	355
Barangay Boundary and Index Maps and Municipal		
Boundary and Index Maps		356
Municipal Base Maps	357 -	358
Provincial Base Maps	359 -	360
Regional Base Maps	361 -	
Projection Maps	363 -	
Maps and Plans for Registration Proceedings	369 -	370
Coordinate Lines and Scales for Isolated Surveys	371 -	377
Details to be Shown on Plans of Isolated Land Surveys	378 -	383
Tracing of Plans	384	203
Survey Symbols	385 -	388
Technical Description of Sympass	200	200

#### PART II

### PROVISIONS GOVERNING ISOLATED LAND SURVEYS

### CHAPTER IX - GENERAL PROCEDURE

Authority and Order to Execute Surveys	394 -	398
Investigation of Adjoining Claims	399 -	401
Who shall be Notified of the Survey	402 -	413
Lot Surveys	414 -	423
Tie Lines	424 -	425
Common Natural Boundaries	426 -	429
Adverse Claims	430 -	432
Relative Position of Surveys	433 -	440
Common Point	441 -	445

Overlapping or Adjoining Untitled Surveys Overlapping or Adjoining Titled Lands Isolated Land Surveys Within Cadastral Projects	446 - 449 - 453 -	452
Field Notes	459 -	470
Computations and Plans		471
Geodetic Engineer's Certificate	472 -	
Transmittal of Isolated Surveys	475 -	477
CHAPTER X - PUBLIC LAND SURVEYS		
Homestead	478 -	480
Sales	481 -	
Leases	485 -	
Free Patent	490 -	493
Reclaimed Lands	494 -	497
Foreshore Lands	498 -	
Marshy Lands	502 -	507
Other Lands Available for Residential, Commercial		
or Industrial Purposes	508 -	
Public School Sites	512 -	
Private School Sites	516 -	
Sites For Public Charitable or Other Similar Institutions Sites For Private Charitable or Other Similar Institutions	519 -	
Townsite Boundary and Subdivision	521 -	
Group Settlements	523 -	
Delimitation and Subdivision of Public Lands	535 -	
Subdivision of Public Lands Within Approved Cadastral Survey	539 - 551 -	
CHAPTER XI - PRIVATE LAND SURVEYS		
Original, Subdivision and/or Consolidation Surveys	553 -	559
Housing Subdivision Survey	560 -	
Sundry Provisions	572 -	573
CHAPTER XII - GOVERNMENT LAND SURVEYS		
Friar Land Estates National Government Lands Provincial Government Lands City And Municipal Government Lands Conversion Surveys	574 - 576 - 589 - 595 -	588 594

## CHAPTER XIII - OTHER LAND SURVEYS

Provincial Boundaries	599 -	608
Municipal Boundaries	609 -	
Barangay Boundaries	616 -	
Verification Surveys	621 -	
Amendment Surveys	626 -	
Segregation Surveys	633 -	
Leased, Patented and Decreed Land Surveys	635 -	
Reinstatement/Relocation of Boundaries	641 -	
Re-surveys	646 -	
Topographic Surveys	651 -	
Special Surveys	656 -	
Land Classification and Delimitation Survey	659 -	667
Buffer Zones Within Forestlands	668 -	672
Delimitation of Reservations, Parks and Other Protected Areas	673 -	681
Delimitation Survey of Forest Reserves	682 -	689
Integrated Social Forestry Survey	690 -	699
CHAPTER XIV - MINERAL LAND SURVEYS		
Mineral Land Surveys		700
Lode Patent and Lease Surveys	701 -	
Investigation of Development Work and Improvements	701 -	710
General Provisions for Patent: Permit/License and Lease Surveys	711 -	
Topographic and Underground Elevation Surveys	731 -	
Preparation of Mineral Land Survey Plans	736 -	
•		, ,,
W. 17 F. 17		
PART III		
PROVISIONS GOVERNING CADASTRAL LAND	SURVE	YS
CHAPTER XV - FIELDWORK ON CADASTRAL PROJECTS	ŝ	
General Statement	742 -	748
Preliminary Operations - Data of the Survey	749 -	,
Scheme of Work		751
Notification of Survey	752 -	
Control of the Project		754
<u> </u>		

TO DO TO THE TOTAL OF THE TOTAL		
Political Boundaries	755 -	767
Notification to Lot Claimants	768 -	769
Lot Sketches	770 -	784
Sketching of Previously Surveyed, or Patented, Leased		
and Decreed Properties	785 -	789
Conflicting Claims		790
Sketch and Survey Record Card	791 -	802
Monumenting of Lots	803 ~	807
The Final Survey:		
Notification of Lot Claimants Prior to the final Survey	808 -	814
Lot Surveys	815 -	830
Survey and Report on Previously Approved Surveys	831 -	851
Public Lands Within Cadastral Projects	852 -	870
Government Lands Cadastral Projects	871 -	873
Mineral Lands Within Cadastral Projects	874 -	875
Public Land Subdivision and Group Settlement Surveys		
Within the Cadastral Project	876 -	878
Physiographic Features	•	879
Advance Surveys	880 -	
CHAPTER XVI - CADASTRAL COMPUTATIONS AND M	IAPS	
A stronomical Observations		
Astronomical Observations		887
Points of Control		888
Points of Control Cadastral Lot Numbers	889 -	888 893
Points of Control Cadastral Lot Numbers Lot Data Computations	889 - 894 -	888
Points of Control Cadastral Lot Numbers Lot Data Computations Maps:	894 -	888 893 907
Points of Control Cadastral Lot Numbers Lot Data Computations Maps: Project Control Map	894 - 908 -	888 893 907 910
Points of Control Cadastral Lot Numbers Lot Data Computations Maps: Project Control Map Political Boundary Control Map	894 - 908 - 911 -	888 893 907 910 914
Points of Control Cadastral Lot Numbers Lot Data Computations Maps: Project Control Map Political Boundary Control Map Progress Map	908 - 911 - 915 -	888 893 907 910 914 920
Points of Control Cadastral Lot Numbers Lot Data Computations Maps: Project Control Map Political Boundary Control Map Progress Map Cadastral Maps	894 - 908 - 911 -	888 893 907 910 914 920 927
Points of Control Cadastral Lot Numbers Lot Data Computations Maps: Project Control Map Political Boundary Control Map Progress Map Cadastral Maps Lot And Case/Barangay Boundary Descriptions	894 - 908 - 911 - 915 - 921 -	888 893 907 910 914 920 927 928
Points of Control Cadastral Lot Numbers Lot Data Computations Maps: Project Control Map Political Boundary Control Map Progress Map Cadastral Maps Lot And Case/Barangay Boundary Descriptions Case/Barangay Boundary and Index Maps	894 - 908 - 911 - 915 - 921 -	888 893 907 910 914 920 927 928 932
Points of Control Cadastral Lot Numbers Lot Data Computations Maps: Project Control Map Political Boundary Control Map Progress Map Cadastral Maps Lot And Case/Barangay Boundary Descriptions	894 - 908 - 911 - 915 - 921 -	888 893 907 910 914 920 927 928
Points of Control Cadastral Lot Numbers Lot Data Computations Maps: Project Control Map Political Boundary Control Map Progress Map Cadastral Maps Lot And Case/Barangay Boundary Descriptions Case/Barangay Boundary and Index Maps	894 - 908 - 911 - 915 - 921 -	888 893 907 910 914 920 927 928 932
Points of Control Cadastral Lot Numbers Lot Data Computations Maps: Project Control Map Political Boundary Control Map Progress Map Cadastral Maps Lot And Case/Barangay Boundary Descriptions Case/Barangay Boundary and Index Maps	894 - 908 - 911 - 915 - 921 -	888 893 907 910 914 920 927 928 932
Points of Control Cadastral Lot Numbers Lot Data Computations Maps: Project Control Map Political Boundary Control Map Progress Map Cadastral Maps Lot And Case/Barangay Boundary Descriptions Case/Barangay Boundary and Index Maps Project/Municipal Boundary and Index Maps CHAPTER XVII - PROJECT RECORDS AND REPORTS	894 - 908 - 911 - 915 - 921 - 929 - 933 -	888 893 907 910 914 920 927 928 932 936
Points of Control Cadastral Lot Numbers Lot Data Computations Maps: Project Control Map Political Boundary Control Map Progress Map Cadastral Maps Lot And Case/Barangay Boundary Descriptions Case/Barangay Boundary and Index Maps Project/Municipal Boundary and Index Maps CHAPTER XVII - PROJECT RECORDS AND REPORTS Field Books	894 - 908 - 911 - 915 - 921 -	888 893 907 910 914 920 927 928 932 936
Points of Control Cadastral Lot Numbers Lot Data Computations Maps: Project Control Map Political Boundary Control Map Progress Map Cadastral Maps Lot And Case/Barangay Boundary Descriptions Case/Barangay Boundary and Index Maps Project/Municipal Boundary and Index Maps  CHAPTER XVII - PROJECT RECORDS AND REPORTS Field Books Computation Books	908 - 911 - 915 - 921 - 929 - 933 -	888 893 907 910 914 920 927 928 932 936
Points of Control Cadastral Lot Numbers Lot Data Computations Maps: Project Control Map Political Boundary Control Map Progress Map Cadastral Maps Lot And Case/Barangay Boundary Descriptions Case/Barangay Boundary and Index Maps Project/Municipal Boundary and Index Maps  CHAPTER XVII - PROJECT RECORDS AND REPORTS Field Books Computation Books Monument Description Book	894 - 908 - 911 - 915 - 921 - 929 - 933 -	888 893 907 910 914 920 927 928 932 936
Points of Control Cadastral Lot Numbers Lot Data Computations Maps: Project Control Map Political Boundary Control Map Progress Map Cadastral Maps Lot And Case/Barangay Boundary Descriptions Case/Barangay Boundary and Index Maps Project/Municipal Boundary and Index Maps Project/Municipal Boundary and Index Maps  CHAPTER XVII - PROJECT RECORDS AND REPORTS Field Books Computation Books Monument Description Book Geodetic Engineer Certificate	908 - 911 - 915 - 921 - 929 - 933 - 937 -	888 893 907 910 914 920 927 928 932 936
Points of Control Cadastral Lot Numbers Lot Data Computations Maps: Project Control Map Political Boundary Control Map Progress Map Cadastral Maps Lot And Case/Barangay Boundary Descriptions Case/Barangay Boundary and Index Maps Project/Municipal Boundary and Index Maps  CHAPTER XVII - PROJECT RECORDS AND REPORTS Field Books Computation Books Monument Description Book	908 - 911 - 915 - 921 - 929 - 933 -	888 893 907 910 914 920 927 928 932 936

Preliminary Examination Transmittal of Survey Records Completion of Cadastral Sketching and Graphical Cadastre	946 947 - 949 950 - 952
CHAPTER XVIII - CADASTRAL COURT HEARINGS	
Who Shall Attend the Court Hearings Data to be Furnished Location of Office General Procedure of Work Memorandum of Hearings and Reports Subdivision of Cadastral Lots Order of the Court Reports and other Papers Cost of Court Hearings	953 - 954 955 - 956 957 - 960 961 - 971 972 - 976 977 - 994 995 - 1002 1003 - 1010

### PART IV

### MISCELLANEA

## CHAPTER XIX - LEGISLATION AND REGULATION

Laws	1012
Repeal of Regulations	1013
Duties and Responsibilities of Geodetic Engineers	
and Junior Geodetic Engineers	1014 - 1016
Violations of Regulations and Penalties	1017
Supplementary and Amendatory Regulations	1018 - 1020
Effectivity of Manual	1021