



City of Mississauga

DIGITAL PROPERTY MAPPING SPECIFICATIONS

Version 2006 04 24

Produced by

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1.0 GENERAL INFORMATION

1.1 Original Build Mapping

The City of Mississauga originally built its property mapping to Teranet POLARIS standards, using good-quality ground control and co-ordinate geometry to enter all plans and to ensure closed shapes for all property level line work.

1.2 Subsequent Map Maintenance

The City's map maintenance now depends to a great extent on 'heads-up' digitizing where a raster image of a new Registered, Reference or other Plan is brought up as a reference behind the vector mapping and then 'traced'. Smaller parts on these plans (as well as some whole plans) are entered by means of measured offsets from existing line work.

1.3 Projection System

All maps use rectangular coordinate values expressed in metres and based on the 6 degree Universal Transverse Mercator system, NAD 1983 (adopted).

1.4 Assessment Parcels and Ownership Parcels

The mapping shows parcels based on two different systems of parcel definition. All non-road parcels follow property assessment boundaries based on information from Municipal Connect provided by the Municipal Property Assessment Corporation (MPAC). Since road parcels are not assessed, property boundaries here follow ownership parcels as defined by the Land Registry Office (LRO).

1.5 Mapping Accuracy – Original Build

The City of Mississauga's property mapping as originally built was based on relatively good ground control information. As a result points can be said to be accurate to within 1 metre of their true position on the ground. Although the original mapping specification allowed for the use of digitized Ontario Basic Mapping features (but only in the absence of better information), this was not necessary in Mississauga's case.

1.6 Mapping Accuracy – Subsequent Maintenance

Since the City's map maintenance depends on 'heads-up' digitizing, in newer areas there may be localized pockets where the accuracy can be far less than 1 metre. Generally, closer to a major road or highway, the accuracy of the mapping is higher.

1.7 Water Features

Water features are shown by line strings and have mostly been derived from digitized Ontario Base Mapping. The exception is where water features are shown on plans and sketches from the Land Registry Office, they have been entered by means of co-ordinate geometry or heads up digitizing.

1.8 Line Strings on Property Levels

No arcs are shown on property boundary levels and are instead approximated by line strings.

2.0 STANDARD LEVELS

1.1 Property Boundary Line Work and Centroids

The levels comprising property boundaries are Levels 1, 17, 20, 56, 57 and 59. The line work on these levels is topological (meaning all lines meet other lines only at corners with no gaps or overlaps between them) and each closed figure has one (and only one) centroid.

Level 1 line work defines assessment (rather than ownership) properties.

Level 17 text is used for City of Mississauga centroids.

Level 56 line work is used on the boundary where a single parcel extends beyond the limits of a Z-area.

Level 57 line work defines road parcels.

Level 59 text is used for the original City of Mississauga centroid where there is an unregistered draft plan of subdivision with new City of Mississauga centroids.

1.2 Township Fabric and Text

Level 3 line work defines the fabric of original townships as laid out by surveyors under instructions from the Crown, such as Lots, Concessions, Ranges, Road Allowances etc.

Level 4 text identifies the original survey fabric.

1.3 Subdivision and Municipal Plan Fabric and Text

Level 5 line work defines the fabric of registered plans of subdivision and municipal plans.

Level 6 text identifies the plans as well as their constituent lots, blocks, widenings, reserves etc.

1.4 Reference Plan Line Work and Text

Level 7 line work defines the limits and parts of reference plans.

Level 8 text identifies reference plans.

1.5 Other Plan Line Work and Text

Level 9 line work defines the limits and parts of other plans (such as highway plans).

Level 10 text identifies other plans.

1.6 Road Line Work and Text

Level 11 line work defines the limits of roads. (Note: Roads as defined by this level include assumed and non-assumed road parcels.)

Level 12 text identifies road names.

1.7 Easement Line Work and Text

Level 13 line work defines the limits of some of the larger easements. (Note: Not all easements are shown on this level.)

Level 14 text identifies the easements shown in the mapping.

1.8 Large Property Description Text

Level 26 text identifies large properties such as parks and hydro rights-of-way.

1.9 Condominium Line Work and Text

Level 27 line work defines the limits of condominiums.

Level 28 text identifies condominiums.

1.10 Water Body Line Work and Text

Level 31 line work defines the limits and of water bodies.
Level 32 text identifies water bodies.

1.11 Municipal Boundary Line Work and Text

Level 33 line work defines the limits of the City of Mississauga.
Level 34 text identifies the municipal limits.

1.12 Railway Line Work and Text

Level 36 line work defines the limits of railways.
Level 45 text identifies railways.

1.13 Control Line Work and Text

Levels 40, 41, 42, 43 and 44 help define the relationship of the mapping data to the surface of the Earth.
Level 40 line work defines high quality ground control.
Level 41 text identifies ground control point numbers.
Level 42 text identifies ground control points.
Level 43 line work defines high-quality plans connected to Level 40 line work.
Level 44 consists of a point cell and a text identifier for control stations.

1.14 Sketch Line Work and Text

Level 50 line work defines the limits of sketches by surveyors.
Level 51 text identifies sketches.

1.15 Compilation Note Text

Level 52 consists of text and line work in two distinct types, both providing metadata (i.e. data about the mapping data).
Level 52, Colour 52 consists of data derived from the original map build.
Level 52, Colour 53 consists of data derived from subsequent map maintenance.

1.16 Plot Level Line Work

Level 60 consists of line work originally intended to replace other line work levels in order to make paper plots more clear. It is currently not being maintained.

1.17 Shapes

Level 61 consists of shapes.

3.0 FEATURE DICTIONARY

FC	code number assigned to feature classification
Description	name of feature or classification
SET	specific group or class of data (eg. Planimetric, Cadastral)
LV	level or layer number where data is to be stored, range 0 -63
LC	line style code, range 0 - 7 and UDLS (e.g. Fence, Railway)
WT	weight code, range 0 – 31
CO	colour
FT	font

FC	Description	SET	LV	LC	WT	CO	FT
4021	Property Lines	4	1	0	3	1	
4035	Township Fabric Linework	4	3	3	0	3	70 spec
4036	Township Fabric Text	4	4	0	0	4	
4033	Subdiv. & Mun. Plan Line	4	5	2	0	5	
4034	Subdivision Plan Text and	4	6	0	0	6	23 spec
4026	Reference Plan Linework	4	7	2	0	7	
4027	Reference Plan Text	4	8	0	0	8	70 spec
4016	Other Plans Linework	4	9	2	0	9	
4017	Other Plans Text	4	10	0	0	10	70 spec
4028	Roads Linework	4	11	0	1	11	
4029	Roads Text	4	12	0	0	12	23 spec
4007	Easement & R.O.W Linework	4	13	2	0	13	
4008	Easement & R.O.W Text	4	14	0	0	14	70 spec
4020	Property Centroids	4	17	0	0	17	23 spec
4022	Property Lines Blocks Limit	4	20	0	3	20	
4013	Land Use Text	4	26	0	0	26	23 4.0
4002	Condominium Plans Linework	4	27	2	0	27	
4003	Condominium Plans Text	4	28	0	0	28	23 spec
4039	Water Bodies Linework	4	31	1	0	31	
4040	Water Bodies Text	4	32	0	0	32	70 4.0
4014	Municipal Boundaries Line	4	33	7	1	33	
4015	Municipal Boundaries Text	4	34	0	1	34	23 6.0
4024	Railway Lands Linework	4	36	0	0	36	
4010	Ground Control Linework	4	40	1	0	40	
4011	Ground Control Points	4	41	0	5	41	
4012	Ground Control Text	4	42	0	0	42	23 spec
4004	Connected Fabric Linework	4	43	1	0	43	
4005	Control Stations	4	44	0	0	44	23 spec
4025	Railway Lands Text	4	45	0	0	45	23 spec
4030	Sketches Linework	4	50	6	0	50	
4031	Sketches Text	4	51	0	0	51	70 6.0
40xx	Compilation Notes	4	52	0	0	52	
40xx	City Compilation Notes	4	52	0	0	53	
4041	Road Close Off Lines	4	57	0	3	1	
40xx	Old Centroids	4	59	0	0	0	

4032	Special Plot Level	4	60	0	0	0	
4032	Shapes	4	61	0	0	0	

Exhibit 1 “Graphic Representation”

