



# CanMap® RouteLogistics User Manual

## Version 2005.3

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**really  
smart  
spatial  
solutions™**

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## About DMTI Spatial™

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DMTI Spatial Inc. is Canada's leading spatial solutions provider. We enable users to understand their customers, optimize resources, realize opportunities, maximize profitability and make more informed decisions through accurate products and innovative thinking.

DMTI Spatial publishes precision built street map, rail and routing data (CanMap®), a detailed water layer, and innovative geocoding and address management software (GeoPinpoint™). In addition, DMTI Spatial publishes a full range of positionally accurate geospatial data products including: enhanced points of interest (EPOI), census data and boundaries, postal geography, topographic maps, and US mapping data. As part of a complete business geographic solution, DMTI Spatial offers a wide range of GIS services, consulting, and software training.

Established in 1994, DMTI Spatial is committed to setting the standard within the GIS industry for precision built spatial data and geocoding software products.

At DMTI Spatial, we believe that our true strength comes from working closely with our customers and providing innovative solutions to meet their strategic business objectives. As Canada's premier spatial solutions provider we pride ourselves with having worked with North America's leading organizations to support their mission critical applications.

DMTI Spatial works with large and small organizations representative of a wide variety of industries:

- Agriculture
- Banking/Finance
- Consulting
- Education
- Emergency Services
- Engineering
- Environmental
- Forestry
- Government
- Health
- High Technology
- Insurance
- Manufacturing
- Media
- Mining
- Real Estate
- Retail
- Telecommunications
- Transportation
- Utilities

We are a member of the ESRI Canada Business Partner Program, and winner of the 2001 ESRI Worldwide New Business Partner of the Year Award and the 2005 ESRI Foundation Partner of the Year Award. We are a strategic business partner of MapInfo and winner of the Markham Board of Trade 2000 Award for Entrepreneurship and Innovation. Recipient of The Association of Canadian Map Libraries and Archives (ACMLA) 2002 Certificate of Appreciation.



## Really Smart Spatial Solutions™

Through the application of its products and services, DMTI Spatial has been involved with projects such as: location-based services, logistics planning, emergency dispatch, facilities management, data management, customer care, address management, land base development in support of network planning, and marketing/demographic analysis applications.

DMTI Spatial can provide all of the components necessary for the acquisition, implementation, operation and maintenance of a successful GIS system within companies of all sizes. Through its product and service offering, DMTI Spatial can provide users with 5 key components:

1. Accurate, detailed and compatible data
2. Comprehensive maintenance program
3. GIS software
4. Consulting and services
5. Software training

## DMTI Spatial™ Product & Service Portfolio

DMTI Spatial's product & service offering includes:

### **CanMap® - Digital Map Data for Canada**

- CanMap® Streetfiles
- CanMap® RouteLogistics
- CanMap® Rail
- CanMap® Major Roads and Highways
- CanMap® Parks & Recreation
- CanMap® Water

### **Satellite Imagery**

- **Satellite StreetView™**

### **Municipal Amalgamations**

- CanMap® Municipality Amalgamation File (MAF)

### **Business & Recreational Points of Interest**

- Enhanced Points Of Interest (EPOI)

### **GeoPinpoint™ Suite**

- Canada's Geocoding Solution
- Modular Architecture
- Windows Standalone Desktop Version
- UNIX, Java Wrapper, ActiveX (DLL Version)

### **Topographic Data and Base Maps**

- Canadian Atlas Map Bundle (CAMB)
- Populated Placenames
- National Topographic Data Base (NTDB)
- 30 & 90m Digital Elevation Models (DEM)
- Clutter Data

### **Postal Geography & Data**

- Six-Digit Postal Code File
- Enhanced Postal Code File
- Forward Sortation Areas (FSA) Boundary File

### **1996 Census Boundaries & Demographic Data**

- Enumeration Area (EA)
- Census Subdivision (CSD)
- Census Division (CD)
- Census Metropolitan Area/Census Agglomeration (CMA/CA)
- Census Tract (CT)
- Federal Electoral Districts (FED)

### **2001 Census Boundaries**

- Dissemination Area (DA)
- Census Subdivision (CSD)
- Census Division (CD)
- Census Metropolitan Area/Census Agglomeration (CMA/CA)
- Census Tract (CT)
- Federal Electoral Districts (FED)

### **GIS Software**

- Contour Modeling and Display
- Demographic Profiling and Lifestyle Targeting
- Geocoding and Mapping Software
- Routing and Logistics

### **Consulting and Services**

- Application Development
- Database Marketing
- Data Conversion and Creation
- Database Scrubbing
- Geocoding Services
- GIS Consulting
- Technical Support



## Error Reporting & Wish List Services

DMTI Spatial is committed to building the best products possible for our customers. By using our data every day in your mission critical application you are our best product tester. Please let us know if you have found an error in any of our products so that we can make the correction for the next release.

This is your opportunity to provide feedback directly to the DMTI Spatial Product Development Team. Please be as specific as possible so that we can improve our products quickly and accurately. To access the Error Reporting Web page please visit: <http://www.dmtispatial.com/feedback.htm> or send an e-mail to: [fixme@dmtdispatial.com](mailto:fixme@dmtdispatial.com)

If you have an idea for a new product or an existing product enhancement, please submit your ideas to the Wish List Web page: [http://www.dmtispatial.com/wish\\_list.htm](http://www.dmtispatial.com/wish_list.htm) or send an e-mail to: [wishlist@dmtdispatial.com](mailto:wishlist@dmtdispatial.com)

Over the coming months DMTI Spatial will keep you informed of new product releases, enhancements and strategic alliances. Our goal is to provide you with powerful knowledge based tools to help you attain and maintain your competitive advantage.

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## About CanMap® RouteLogistics v2005.3

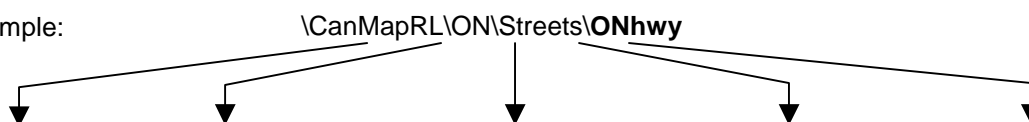
### Layer Properties

| Property          | Description   |
|-------------------|---|
| Coverage          | National  |
| Currency          | August 15, 2005   |
| Level of Accuracy | Ranging from the National Topographic Data Base (NTDB) standard to sub-meter accuracy |
| Projection        | unprojected Longitude-Latitude  |
| Datum             | NAD83   |
| Format            | ESRI and MapInfo <sup>1</sup>   |

### Layer Naming Conventions

CanMap RouteLogistics is organized into the following directory structure and uses the following directory and file naming conventions:

Example:



| Product Directory | Geographic Area Directory | General Content Directory | Geographic Area Abbreviation | File Content Abbreviation |
|-------------------|---------------------------|---------------------------|------------------------------|---------------------------|
| CanMapRL          | ON                        | Streets                   | ON                           | hwy                       |

The geographic area directory area indicates the geographic coverage of the layer, for example ON = Ontario.

The Geographic Area Name indicates the geographic extent of the file. DMTI Spatial's standard geographic coverage areas include all Provinces and Territories as well the coverage areas found in the CANtop file included with Bonus Canada Directory.

CanMap RouteLogistics contain the following general content directories:

| Directory Name | Description                  |
|----------------|------------------------------|
| Canada         | Canada Directory             |
| POI            | Points of Interest Directory |
| Streets        | Streets Directory            |
| Topo           | Topo Directory               |

<sup>1</sup> Custom formats available upon request. Refer to Appendix A: ESRI File Extensions and Appendix B: MapInfo File Extensions for more information regarding file extensions.

## About CanMap® RouteLogistics v2005.3 (cont'd)

### Layer Contents

CanMap RouteLogistics is comprised of the following layers:

#### Canada Directory

| Layer Name | Description                        | Feature Type |
|------------|------------------------------------|--------------|
| CANacb     | Area Code Boundaries               | Polygon      |
| CANcap     | Capital Cities                     | Point        |
| CANprv     | Provincial/Territorial Boundaries  | Polygon      |
| CANrmn     | Regional Municipality Boundaries   | Polygon      |
| CANtop     | Topographic Coverage Areas         | Polygon      |
| CANtzs     | Time Zones (Standard Time)         | Polygon      |
| CANtzd     | Time Zones (Daylight Savings Time) | Polygon      |
| CANwat     | National Water                     | Polygon      |

The Canada Directory is included with the CanMap RouteLogistics product. For more information regarding the Canada Directory refer to the [Data Dictionary](#) of CanMap RouteLogistics User Manual.

#### Points of Interest Directory

| Layer Name           | Description          | Feature Type |
|----------------------|----------------------|--------------|
| AREAaer <sup>2</sup> | Aerodromes           | Point        |
| AREAcpl              | Car Pool Lots        | Point        |
| AREAedu              | Education            | Point        |
| AREAglf              | Golf Courses         | Point        |
| AREAhcr              | Health Care          | Point        |
| AREAppn              | Populated Placenames | Point        |
| AREAtol              | Toll Booths          | Point        |
| AREAtrs              | Transportation Stops | Point        |
| AREAwgh              | Weigh Stations       | Point        |

The Points of Interest Directory is included with the CanMap RouteLogistics product. For more information regarding the Points of Interest Directory refer to the [Data Dictionary](#) of CanMap RouteLogistics User Manual.

#### Streets Directory

| Layer Name           | Description                  | Feature Type |
|----------------------|------------------------------|--------------|
| AREAexc <sup>3</sup> | Expressways Casements        | Region       |
| AREAfsa              | Forward Sortation Areas      | Region       |
| AREAhpc              | Primary Highways Casements   | Region       |
| AREAhrd              | Major Roads and Highways     | Line         |
| AREAhsc              | Secondary Highways Casements | Region       |
| AREAhwy              | Highways                     | Line         |
| AREAlnk              | Canada\US Roads Linkages     | Point        |
| AREAlrc              | Local Roads Casements        | Region       |
| AREAmaf              | Municipal Amalgamations File | Region       |
| AREAmrc              | Major Roads Casements        | Region       |
| AREAmun              | Municipality Boundaries      | Region       |
| AREArds_lut          | Roads Lookup Table           | None         |

<sup>2</sup> Where AREA refers to a DMTI Spatial Standard Geographic Area

<sup>3</sup> Casements not available in ArcInfo Interchange Format (\*.e00)

## About CanMap® RouteLogistics V2005.3 (cont'd)

| Layer Name  | Description                             | Feature Type |
|-------------|---|--------------|
| AREAren     | Relative Elevation Nodes                | Point        |
| AREArte     | Roads                                   | Line         |
| AREArte_lut | Route Logistics Lookup Table            | None         |
| AREAtlc     | Trails Casements                        | Region       |
| AREAttn     | Turn Restrictions Table                 | None         |
| AREAttr     | Transportation Route Restrictions Table | None         |
| AREExit     | Highway Exits                           | Point        |

For detailed information on other layers included in CanMap RouteLogistics refer to the [Data Dictionary](#) CanMap RouteLogistics User Manual. The following layers are specific to routing. For more information regarding these layers refer to the [Data Dictionary](#) of the CanMap RouteLogistics User Manual.

| Layer Name  | Description                             |
|-------------|---|
| AREAaer     | Aerodromes                              |
| AREAwgh     | Weigh Stations                          |
| AREAfsa     | Forward Sortation Areas                 |
| AREAren     | Relative Elevation Nodes                |
| AREArte     | Roads                                   |
| AREArte_lut | Route Logistics Lookup Table            |
| AREAttn     | Turn Restrictions Table                 |
| AREAttr     | Transportation Route Restrictions Table |
| AREExit     | Highway Exits                           |

### Topo Directory

| Layer Name | Description                    | Feature Type        |
|------------|--------------------------------|---------------------|
| AREAbf     | Building Footprints            | Region              |
| AREAbp     | Building Points                | Point               |
| AREAhs     | Hydrographic Structures        | Point, Line, Region |
| AREAhv     | Hydrography                    | Point, Line, Region |
| AREAir     | Industrial and Resource        | Point, Line, Region |
| AREAll     | Land Feature Labels            | Point               |
| AREAlu     | Land Use                       | Region              |
| AREAot     | Other Transportation           | Point, Line, Region |
| AREAph     | Physiography                   | Point, Line, Region |
| AREAprl    | Parks and Recreation - Points  | Line                |
| AREAprp    | Parks and Recreation - Lines   | Point               |
| AREAprr    | Parks and Recreation - Regions | Region              |
| AREApt     | Pipelines and Transmission     | Point, Line, Region |
| AREAril    | Rail and Transit Lines         | Line                |

## About CanMap® RouteLogistics V2005.3 (cont'd)

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| Layer Name | Description          | Feature Type |
|------------|----------------------|--------------|
| AREAVE     | Vegetation           | Region       |
| AREawe     | Wetlands             | Region       |
| AREAwI     | Water Feature Labels | Point        |

All two-character Topo layer names are suffixed with a “p” (point), “l” (line/polyline), or “r” (region) to indicate the object type contained within the file for ArcInfo, ArcView and ArcGIS formats only. For example, the “hy” (Hydrography) theme is provided as “hyp” (containing points), “hyl” (containing lines), and “hyr” (containing regions) files. All topographic layers may not be available for all geographical areas.

For more information regarding these layers refer to the Data Dictionary of CanMap RouteLogistics User Manual.

## Using CanMap® RouteLogistics V2005.3

### Viewing DMTI Spatial Products

Packaged with DMTI Spatial products are several custom viewing files for MapInfo® Professional, ESRI® ArcView® GIS and ESRI® ArcGIS®.

| Software             | Extension | Version Support        |
|----------------------|-----------|------------------------|
| MapInfo Professional | *.wor     | Version 4.5 and higher |
| ESRI ArcView GIS     | *.apr     | Version 3.0 and higher |
| ESRI ArcGIS          | *.mxd     | Version 8.1 and higher |

Located in the product directory, these viewing files have been provided to maximize the ease of use of DMTI Spatial products by intelligently layering various data layers and displaying them based on appropriate viewing scales.

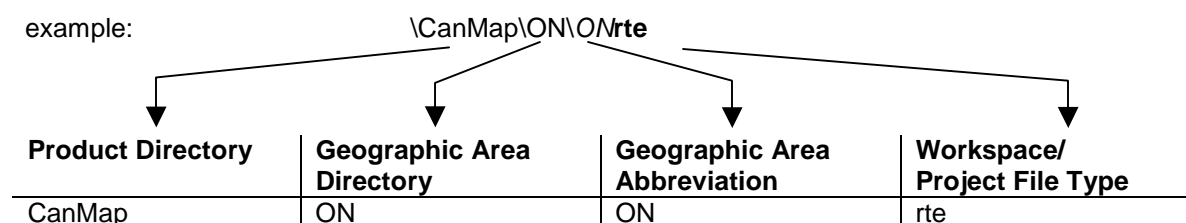
### Viewing CanMap Streetfiles

There are currently two viewing files available for reference, mapping and analysis.

| Filename       | Description  |
|----------------|--|
| <i>AREArte</i> | Offers a limited number of files for reference purposes only. Opens and zoom-layers capital cities, populated placenames, roads, major roads and highways, highways, municipality boundaries, and national water.  |
| <i>AREArtp</i> | Offers most of the files in the CanMap RouteLogistics product for mapping and analysis. Opens and zoom-layers almost all of the CanMap RouteLogistics. Includes labeling of roads, major roads & highways, highways, populated placenames, municipality boundaries, regional municipality boundaries, provincial boundaries. |

CanMap RouteLogistics workspaces or project files are found in the product directory:

example:



### Suggested Layering for CanMap Streetfiles

If you wish to view the CanMap product without the aid of the provided viewing files or the format purchased does not come with them, DMTI Spatial™ recommends using the following layering system to view your CanMap product:

## Using CanMap® RouteLogistics V2005.3 (cont'd)

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### Layering in MapInfo

| Layer | Description                    |
|-------|--------------------------------|
| cap   | Capital Cities                 |
| xit   | Highway Exits                  |
| ll    | Land Feature Labels            |
| wl    | Water Feature Labels           |
| aer   | Aerodromes                     |
| cpl   | Car Pool Lots                  |
| edu   | Education                      |
| glf   | Golf Courses                   |
| hcr   | Health Care                    |
| ppn   | Populated Placenames           |
| tol   | Toll Booths                    |
| trs   | Transportation Stops           |
| wgh   | Weigh Stations                 |
| prp   | Parks and Recreation - Points  |
| prl   | Parks and Recreation - Lines   |
| pt    | Pipelines and Transmission     |
| bp    | Building Points                |
| bf    | Building Footprints            |
| rl    | Railway and Transit Lines      |
| exc   | Expressways Casements          |
| hpc   | Primary Highways Casements     |
| hsc   | Secondary Highways Casements   |
| mrc   | Major Roads Casements          |
| lrc   | Local Roads Casements          |
| tlc   | Trails Casements               |
| rte   | Roads                          |
| hrd   | Major Roads and Highways       |
| hwy   | Highways                       |
| hs    | Hydrographic Structures        |
| ot    | Other Transportation           |
| ir    | Industrial and Resource        |
| ph    | Physiography                   |
| we    | Wetlands                       |
| hy    | Hydrography                    |
| prr   | Parks and Recreation - Regions |
| ve    | Vegetation                     |
| lu    | Land Use                       |
| wat   | National Water                 |
| fsa   | Forward Sortation Areas        |

## Using CanMap® RouteLogistics V2005.3 (cont'd)

---

| Layer | Description                      |
|-------|----------------------------------|
| top   | Topographic Coverage Areas       |
| rmn   | Regional Municipality Boundaries |
| mun   | Municipality Boundaries          |
| prv   | Provincial Boundaries            |

### Layering in ArcView, ArcGIS

| Layer | Description                         |
|-------|-------------------------------------|
| cap   | Capital Cities                      |
| xit   | Highway Exits                       |
| llp   | Land Feature Labels                 |
| wlp   | Water Feature Labels                |
| aer   | Aerodromes                          |
| cpl   | Car Pool Lots                       |
| edu   | Education                           |
| glf   | Golf Courses                        |
| hcr   | Health Care                         |
| ppn   | Populated Placenames                |
| tol   | Toll Booths                         |
| trs   | Transportation Stops                |
| wgh   | Weigh Stations                      |
| prp   | Parks and Recreation - Points       |
| ptp   | Pipelines and Transmission - Points |
| otp   | Other Transportation - Points       |
| bpp   | Building Points                     |
| hsp   | Hydrographic Structures - Points    |
| irp   | Industrial and Resource - Points    |
| php   | Physiography - Points               |
| hyp   | Hydrography - Points                |
| prl   | Parks and Recreation - Lines        |
| ptl   | Pipelines and Transmission - Lines  |
| otl   | Other Transportation - Lines        |
| bfr   | Building Footprints                 |
| rl    | Rail - Lines                        |
| exc   | Expressways Casements               |
| hpc   | Primary Highways Casements          |
| hsc   | Secondary Highways Casements        |
| mrc   | Major Roads Casements               |



## Using CanMap® RouteLogistics V2005.3 (cont'd)

---

| Layer | Description                          |
|-------|--------------------------------------|
| lrc   | Local Roads Casements                |
| tlc   | Trails Casements                     |
| rte   | Roads                                |
| hrd   | Major Roads and Highways             |
| hwy   | Highways                             |
| hsl   | Hydrographic Structures - Lines      |
| irl   | Industrial and Resource - Lines      |
| phl   | Physiography - Lines                 |
| hyl   | Hydrography - Lines                  |
| ptr   | Pipelines and Transmission - Regions |
| otr   | Other Transportation - Regions       |
| hsr   | Hydrographic Structures - Regions    |
| irr   | Industrial and Resource - Regions    |
| phr   | Physiography - Regions               |
| wer   | Wetlands                             |
| hyr   | Hydrography - Regions                |
| pr    | Parks and Recreation - Regions       |
| ver   | Vegetation                           |
| lur   | Land Use                             |
| wat   | National Water                       |
| fsa   | Forward Sortation Areas              |
| top   | Topographic Coverage Areas           |
| rmn   | Regional Municipality Boundaries     |
| mun   | Municipality Boundaries              |
| prv   | Provincial Boundaries                |

### Other CanMap Layers

| Layer   | Description                        |
|---------|------------------------------------|
| acb     | Area Code Boundaries               |
| lnk     | Canada\USA Roads Linkages          |
| ren     | Relative Elevation Nodes           |
| rte_lut | RouteLogistics Lookup Table        |
| trn     | Turn Restrictions Table (dbf)      |
| trr     | Transportation Route Restrictions  |
| rds_lut | Roads Lookup Table                 |
| tzs     | Time Zones (Standard Time)         |
| tzv     | Time Zones (Daylight Savings Time) |

## Data Dictionary

### Area Code Boundaries (acb)



#### Layer Location

\\Canada\CANacb

#### Layer Structure

| Field Name | Field Type | Field Size | Description   |
|------------|------------|------------|---|
| AREA_CODE  | Character  | 8          | Area Code   |
| AREA_PROV  | Character  | 8          | Provincial/Territorial Abbreviation. Records may contain multiple abbreviations where area codes are shared between provinces or territories. |

#### Layer Content

Based on CanMap Municipality Boundaries, area code boundaries represent Canadian telephone area codes. In the North American telephone system, an area code is a three-digit code delineating a “toll” and is distributed according to the North American Number Plan (NANP). An area code is also referred to as a Number Plan Area or NPA.<sup>4</sup>

| Province | Area Code |
|----------|-----------|
| AB       | 403       |
| AB       | 780       |
| BC       | 250       |
| BC       | 604/778   |
| MB       | 204       |
| NB       | 506       |
| NL       | 709       |
| NS/PE    | 902       |
| ON       | 416/647   |
| ON       | 519       |

| Province | Area Code |
|----------|-----------|
| ON       | 613       |
| ON       | 705       |
| ON       | 807       |
| ON       | 905/289   |
| QC       | 418       |
| QC       | 450       |
| QC       | 514       |
| QC       | 819       |
| SK       | 306       |
| YT/NT/NU | 867       |

<sup>4</sup> Source: North American Numbering Plan Administration, September 2003

## Data Dictionary (*cont'd*)

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### Capital Cities (cap)



#### Layer Location

\\Canada\CANcap

#### Layer Structure

| Field Name | Field Type | Field Size | Description                         |
|------------|------------|------------|-------------------------------------|
| NAME       | Character  | 68         | Name of City                        |
| PROV       | Character  | 2          | Provincial/Territorial Abbreviation |

#### Layer Content

Derived from CanMap Populated Placenames, capital cities represent all provincial and territorial capital cities and the national capital city.

## Data Dictionary (*cont'd*)

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### Provincial Boundaries (prv)



#### Layer Location

\\Canada\CANprv

#### Layer Structure

| Field Name | Field Type | Field Size | Description                         |
|------------|------------|------------|-------------------------------------|
| NAME       | Character  | 25         | Provincial/Territorial Name         |
| PROV       | Character  | 2          | Provincial/Territorial Abbreviation |

#### Layer Content

The Provinces layer is comprised of the 10 Provinces and 3 Territories that define Canada for political administrative purposes. DMTI Spatial Provinces and Territories correspond to Statistics Canada 2001 Provinces and Territories (PR)

## Data Dictionary (*cont'd*)

### Regional Municipality Boundaries (rmn)



#### Layer Location

\\Canada\CANrmn

#### Layer Structure

| Field Name | Field Type | Field Size | Description                         |
|------------|------------|------------|-------------------------------------|
| NAME       | Character  | 46         | Census Division Name                |
| PROV       | Character  | 2          | Provincial/Territorial Abbreviation |

#### Layer Content

The Regional Municipalities layer is comprised of intermediate political administrative areas between the Province/Territories and Municipalities. DMTI Spatial Regional Municipalities correspond to Statistics Canada 2001 Census Divisions (CD).

#### Field Content

| Type | Description                     |
|------|---------------------------------|
| CTY  | County                          |
| CU   | Communauté urbaine              |
| DIS  | District                        |
| DIV  | Census Division                 |
| DM   | District Municipality           |
| MRC  | Municipalité régionale de comté |
| RD   | Regional District               |
| REG  | Region                          |
| RM   | Regional Municipality           |
| TER  | Territory                       |
| UC   | United Counties                 |

## Data Dictionary (cont'd)

### Topographic Coverage Areas (top)



#### Layer Location

\\Canada\CANtop

#### Layer Structure

| Field Name | Field Type | Field Size | Description                                 |
|------------|------------|------------|---|
| NAME       | Character  | 68         | Topographic Coverage Area Name <sup>5</sup> |
| NAME_ABBR  | Character  | 5          | Topographic Coverage Area Abbreviation      |
| PROV       | Character  | 2          | Provincial/Territorial Abbreviation         |

#### Layer Content

Topographic coverage areas represent areas across Canada where DMTI provides topographic data. Topographic data includes general land-use classifications, building footprints, transportation and utility features, hydrographical features, and physiographical features. Currently there are over 700 topographic coverage areas across the country.

<sup>5</sup> Refer to Appendix H: Canadian Urban Areas and Abbreviations for more information.

## Data Dictionary (*cont'd*)

### Time Zones – Standard Time (tzs) / Daylight Savings Time (tzd)



#### Layer Location

\\Canada\CANTzs  
\\Canada\CANTzd

#### Layer Structure

| Field Name | Field Type | Field Size | Description  |
|------------|------------|------------|--|
| ZONE_NAME  | Character  | 30         | Time Zone Name   |
| ZONE_ABBR  | Character  | 3          | Time Zone Abbreviation   |
| DEVFROMUTC | Character  | 5          | The difference in hours from Coordinated Universal Time (UTC) or Greenwich Mean Time (GMT) |

#### Layer Content

Canada has six time zones, which are regulated by provincial and territorial governments. In each time zone Standard or Daylight Saving time might be specified. For example, in Ontario, Eastern Standard Time is denoted as Coordinated Universal Time ("UTC") less 6 hours or Eastern Daylight Time as UTC – 4h. In most regions in Canada, Daylight Savings Time begins on the first Sunday of April and ends on the last Sunday of October.

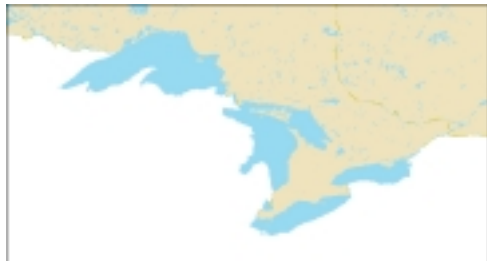
In some parts of Canada, observed time practice differs from official legislated time. The time zones in DMTI Spatial's time zone data are derived from provincial and territorial legislation and regulations that were in effect as of April 1, 2001 (Legislated Time Zones).<sup>6</sup>

<sup>6</sup> Refer to Appendix I: Exceptions to Official Time in Canada for more information.

## Data Dictionary (*cont'd*)

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### National Water (wat)



#### Layer Location

\\Canada\CANwat

#### Layer Structure

| Field Name | Field Type | Field Size | Description     |
|------------|------------|------------|-----------------|
| NAME       | Character  | 40         | Lake/River Name |

#### Layer Content

The national water layer contains generalized major water bodies derived from a variety of sources at scales ranging from 1:50 000 to 1:30 000 000.<sup>7</sup>

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<sup>7</sup> For more information refer to Appendix J: Unshorelined and Shorelined Boundaries



## Data Dictionary (*cont'd*)

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### Expressway Casements (exc)



#### Layer Location

\\Streets\\AREAexc

#### Layer Structure

| Field Name          | Type      | Size | Description                             |
|---------------------|-----------|------|---|
| STREET <sup>8</sup> | Character | 64   | Street Title                            |
| RDS_ID              | Decimal   | 9,0  | Uniqueld of related Roads (rds) segment |

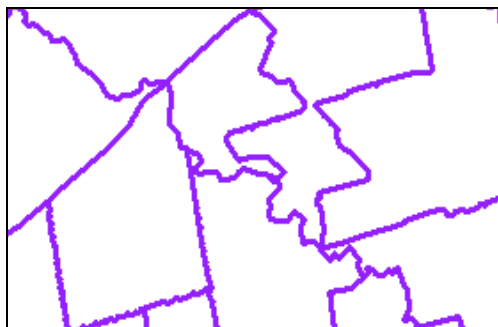
---

<sup>8</sup> For more information refer to Appendix C: Street Types and Street Directions

## Data Dictionary (*cont'd*)

---

### Forward Sortation Areas (fsa)



#### Layer Location

\\Streets\\AREAfsa

#### Layer Structure

| Field Name | Type      | Size | Description                        |
|------------|-----------|------|------------------------------------|
| FSA        | Character | 3    | Forward Sortation Area             |
| PROV       | Character | 2    | Province Abbreviation <sup>9</sup> |
| PROV_CODE  | Character | 2    | Province Code <sup>10</sup>        |

#### Layer Content

The first three characters of a postal code represent the Forward Sortation Area (FSA) indicating a geographic area in an urban or rural area. The first character of the Forward Sortation Area identifies one of the 18 major geographic areas, provinces or districts.

The second numeric character (numerals 0-9) of the Forward Sortation Area Boundary identifies either an urban postal code or a rural postal code. Rural postal code are represented by the numeral 0 (zero) for example, A0A) and are serviced by rural route drivers and/or postal outlets. An urban postal code is represented by the numerals 1 to 9 for example, E2J and are generally serviced by letter carrier or community mailboxes.

The third character of the Forward Sortation Area segment (E2J) in conjunction with the first two characters, describes an area of a city or town or other geographic area.

<sup>9</sup> Source: Canada Post Corporation, The Canadian Addressing Guide, October 2002

<sup>10</sup> Source: Statistics Canada, Standard Geographical Classification (SGC), 2001

## Data Dictionary (*cont'd*)

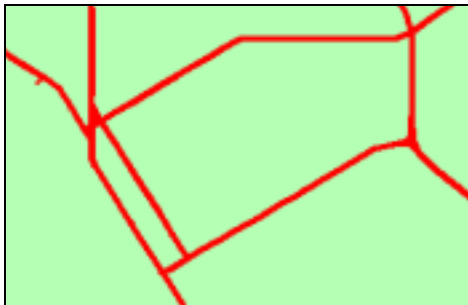
---

| First Letter<br>of FSA | Geographic Area                |
|------------------------|--------------------------------|
| A                      | Newfoundland & Labrador        |
| B                      | Nova Scotia                    |
| C                      | Prince Edward Island           |
| E                      | New Brunswick                  |
| G                      | Quebec (east)                  |
| H                      | Québec (metropolitan Montréal) |
| J                      | Quebec (west)                  |
| K                      | Ontario (east)                 |
| L                      | Ontario (central)              |
| M                      | Ontario (metropolitan Toronto) |
| N                      | Ontario (southwest)            |
| P                      | Ontario (northern)             |
| R                      | Manitoba                       |
| S                      | Saskatchewan                   |
| T                      | Alberta                        |
| V                      | British Columbia               |
| X                      | Northwest Territories/Nunavut  |
| Y                      | Yukon Territory                |

## Data Dictionary (*cont'd*)

---

### Primary Highway Casements (hpc)



#### Layer Location

\\Streets\\AREA\\hpc

#### Layer Structure

| Field Name | Type      | Size | Description                             |
|------------|-----------|------|---|
| STREET     | Character | 64   | Street Title                            |
| RDS_ID     | Decimal   | 9,0  | UniqueID of related Roads (rds) segment |

## Data Dictionary (cont'd)

### Major Roads and Highways (hrd)



#### Layer Location

\\Streets\\AREAhrd

#### Layer Structure

| Field Name | Field Type | Field Size | Description                         |
|------------|------------|------------|-------------------------------------|
| STREET     | Character  | 69         | Street Name                         |
| CARTO      | Decimal    | 3,0        | Cartographic Road Classification    |
| LEFT_MUN   | Character  | 70         | Municipality                        |
| RIGHT_MUN  | Character  | 70         | Municipality                        |
| LEFT_MAF   | Character  | 70         | Municipal Amalgamation              |
| RIGHT_MAF  | Character  | 70         | Municipal Amalgamation              |
| LEFT_FSA   | Character  | 3          | Forward Sortation Area              |
| RIGHT_FSA  | Character  | 3          | Forward Sortation Area              |
| LEFT_PRV   | Character  | 2          | Provincial/Territorial Abbreviation |
| RIGHT_PRV  | Character  | 2          | Provincial/Territorial Abbreviation |
| UNIQUEID   | Decimal    | 9,0        | Unique Identifier of Street segment |

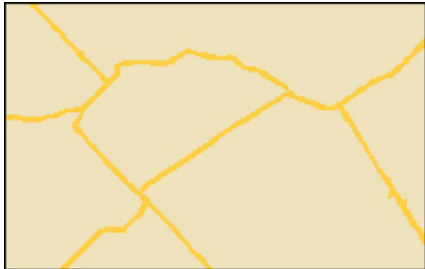
#### Field Content

Please note that as of CanMap v8.2 the Municipality (\_MUN) fields are attributed with 2001 Census based Municipality names. 1996 Census based Municipality names can be obtained by linking the **hrd** layer to the **rds\_int** layer via the UNIQUEID and RDS\_ID fields.

## Data Dictionary (*cont'd*)

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### Secondary Highway Casements (hsc)



#### Layer Location

\Streets\ AREAhsc

#### Layer Structure

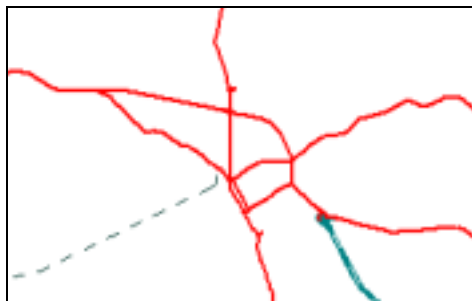
| Field Name           | Type      | Size | Description                             |
|----------------------|-----------|------|---|
| STREET <sup>11</sup> | Character | 64   | Street Title                            |
| RDS_ ID              | Decimal   | 9,0  | Uniqueld of related Roads (rds) segment |

---

<sup>11</sup> For more information refer to Appendix C: Street Types and Street Directions

## Data Dictionary (*cont'd*)

### Highways (hwy)



#### Layer Location

\\Streets\\AREA\\hwy

#### Layer Structure

| Field Name           | Type      | Size | Description                         |
|----------------------|-----------|------|-------------------------------------|
| STREET <sup>12</sup> | Character | 69   | Street Name                         |
| CARTO <sup>13</sup>  | Decimal   | 3,0  | Cartographic Road Classification    |
| LEFT_MUN             | Character | 70   | Municipality                        |
| RIGHT_MUN            | Character | 70   | Municipality                        |
| LEFT_MAF             | Character | 70   | Municipal Amalgamation              |
| RIGHT_MAF            | Character | 70   | Municipal Amalgamation              |
| LEFT_FSA             | Character | 3    | Forward Sortation Area              |
| RIGHT_FSA            | Character | 3    | Forward Sortation Area              |
| LEFT_PRV             | Character | 2    | Provincial/Territorial Abbreviation |
| RIGHT_PRV            | Character | 2    | Provincial/Territorial Abbreviation |
| UNIQUEID             | Decimal   | 9,0  | Unique Identifier of Street segment |

#### Field Content

Please note that as of CanMap v8.2 the Municipality (\_MUN) fields are attributed with 2001 Census based Municipality names. 1996 Census based Municipality names can be obtained by linking the **hwy** layer to the **rds\_int** layer via the UNIQUEID and RDS\_ID fields.

<sup>12</sup> For more information refer to Appendix C: Street Types and Street Directions

<sup>13</sup> For more information refer to Appendix D: Cartographic Road and Rail Classifications

## Data Dictionary (cont'd)

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### Canada\USA Roads Linkages (Ink)



#### Layer Location

\Streets\AREAInk

#### Layer Structure

| Field Name | Type      | Size | Description                             |
|------------|-----------|------|---|
| RDS_ID     | Decimal   | 9,0  | Uniqueld of related Roads (rds) segment |
| CAN_STREET | Character | 69   | Canadian Street at Roads Linkage        |
| PROV       | Character | 2    | Provincial/Territorial Abbreviation     |
| USA_STREET | Character | 69   | American Street at Roads Linkage        |
| STATE      | Character | 2    | State Abbreviation                      |
| PORT_ENTRY | Character | 100  | Port of Entry Name (where applicable)   |
| LONGITUDE  | Decimal   | 11,6 | Longitude of Roads Linkage              |
| LATITUDE   | Decimal   | 11,6 | Latitude of Roads Linkage               |



## Data Dictionary (*cont'd*)

---

### Local Road Casements (lrc)



#### Layer Location

\\Streets\\AREA\\lrc

#### Layer Structure

| Field Name           | Type      | Size | Description                             |
|----------------------|-----------|------|---|
| STREET <sup>14</sup> | Character | 64   | Street Title                            |
| RDS_ ID              | Decimal   | 9,0  | Uniqueld of related Roads (rds) segment |

---

<sup>14</sup> For more information refer to Appendix C: Street Types and Street Directions

## Data Dictionary (cont'd)

## Municipal Amalgamation File (maf)



## Layer Location

\MAF\AREAmaf

## Layer Structure

| Field Name | Field Type | Field Size | Description  |
|------------|------------|------------|--|
| NAME       | Character  | 70         | Municipality name  |
| PROV       | Character  | 2          | Provincial/Territorial Abbreviation.   |
| TYPE       | Character  | 3          | Municipality type  |
| EFF_DATE   | Character  | 8          | Date the municipal amalgamation change comes into effect. Date appears in YYYYMMDD format. Null records indicate that amalgamations have not occurred. |

## Layer Content

The Municipal Amalgamation File (MAF) is a supplementary municipality boundary with CanMap® Streetfiles and CanMap® RouteLogistics and reflects recent changes to any amalgamated municipal boundaries, their subsequent changes to name, municipality type and date of amalgamation. An amalgamation is defined as a consolidation of two or more entire municipalities.

Derived from Statistics Canada 2001 Census the Municipal Amalgamation file contains:

- Municipal amalgamations that have occurred since the 2001 Census
- Municipal amalgamations based on provincial/territorial sources
- Census Subdivision Name and Type revisions from the 2001 Census

Municipality type refers to the census subdivision (CSD) type definition given to a municipality by Statistics Canada. "CSD" is the general term for municipalities (as determined by provincial legislation) or areas treated as municipal equivalents for statistical purposes (for example, Indian reserves, Indian settlements and unorganized territories).

Census subdivisions (CSDs) are classified into 46 types according to official designations adopted by provincial or federal authorities.” The following table provides a list of CSD types and their abbreviations:<sup>15</sup>

<sup>15</sup> Source: Statistics Canada, Standard Geographical Classification (SGC), 2001

## Data Dictionary (cont'd)

| Type | Description                       |
|------|-----------------------------------|
| C    | City                              |
| CC   | Chartered Community               |
| CM   | County (Municipality)             |
| COM  | Community                         |
| CT   | Canton (Municipalité de)          |
| CU   | Cantons unis (Municipalité de)    |
| DM   | District Municipality             |
| HAM  | Hamlet                            |
| ID   | Improvement District              |
| IGD  | Indian Government District        |
| IM   | Island Municipality               |
| LGD  | Local Government District         |
| LOT  | Township and Royalty              |
| M    | Municipalité                      |
| MD   | Municipal District                |
| NH   | Northern Hamlet                   |
| NL   | Nisga'a Land                      |
| NV   | Northern Village                  |
| NVL  | Nisga'a Village                   |
| P    | Paroisse (Municipalité de)        |
| PAR  | Parish                            |
| R    | Indian Reserve / Réserve indienne |
| RC   | Rural Community                   |

| Type | Description                              |
|------|--|
| RDA  | Regional District Electoral Area         |
| RG   | Region                                   |
| RGM  | Regional Municipality                    |
| RM   | Rural Municipality                       |
| RV   | Resort Village                           |
| S-E  | Indian Settlement / Établissement indien |
| SA   | Special Area                             |
| SCM  | Subdivision of County Municipality       |
| SET  | Settlement                               |
| SM   | Specialized Municipality                 |
| SUN  | Subdivision of Unorganized               |
| SV   | Summer Village                           |
| T    | Town                                     |
| TI   | Terre inuite                             |
| TL   | Teslin Land                              |
| TP   | Township                                 |
| TR   | Terres réservées                         |
| UNO  | Unorganized / Non-organisé               |
| V    | Ville                                    |
| VC   | Village cri                              |
| VK   | Village naskapi                          |
| VL   | Village                                  |
| VN   | Village nordique                         |

## Data Dictionary (*cont'd*)

---

### Major Roads Casements (mrc)



#### Layer Location

\\Streets\\AREA\\mrc

#### Layer Structure

| Field Name           | Type      | Size | Description                              |
|----------------------|-----------|------|--|
| STREET <sup>16</sup> | Character | 64   | Street Title                             |
| RDS_ ID              | Decimal   | 9,0  | Uniquelid of related Roads (rds) segment |

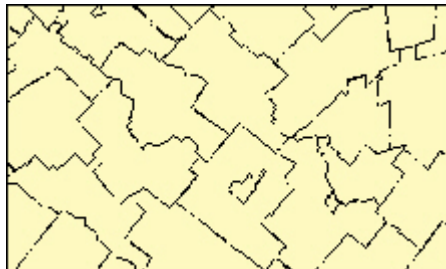
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<sup>16</sup> For more information refer to Appendix C: Street Types and Street Directions

## Data Dictionary (*cont'd*)

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### Municipality Boundaries (mun)



#### Layer Location

\\Streets\AREAmun

#### Layer Structure

| Field Name | Type | Size | Description   |
|------------|------|------|---|
| NAME       | C    | 70   | Municipality Name   |
| TYPE       | C    | 3    | Municipality Type   |
| POP2001    | D    | 8,0  | 2001 Census Population Count                              |
| DWELL2001  | D    | 7,0  | 2001 Census Dwelling Count                                |
| AREA_SQKM  | D    | 12,4 | Area (square kilometers) from Statistics Canada Land Base |
| POP_SQKM   | D    | 13,4 | Population Density (per square kilometer)                 |
| PROV       | C    | 2    | Provincial/Territorial Abbreviation                       |

#### Layer Content

The Municipalities layer is comprised of political administrative entities such as cities, towns, or villages. The DMTI Spatial Municipalities layer corresponds to the Statistics Canada 2001 Census Subdivisions (CSD).

#### Field Content

##### Type

The Municipality Type is used to help distinguish Municipalities having the same name from one another. The Municipality Types correspond to the Statistics Canada 2001 Census Subdivision (CSD) Types.

## Data Dictionary (cont'd)

| Type | Description                       |
|------|-----------------------------------|
| C    | City – Cité                       |
| CC   | Chartered Community               |
| CM   | County (Municipality)             |
| COM  | Community                         |
| CT   | Canton (Municipalité de)          |
| CU   | Cantons unis (Municipalité de)    |
| DM   | District Municipality             |
| HAM  | Hamlet                            |
| ID   | Improvement District              |
| IGD  | Indian Government District        |
| IM   | Island Municipality               |
| LGD  | Local Government District         |
| LOT  | Township and Royalty              |
| M    | Municipalité                      |
| MD   | Municipal District                |
| NH   | Northern Hamlet                   |
| NL   | Nisga'a Land                      |
| NV   | Northern Village                  |
| NVL  | Nisga'a Village                   |
| P    | Paroisse (Municipalité de)        |
| PAR  | Parish                            |
| R    | Indian Reserve - Réserve indienne |
| RC   | Rural Community                   |

| Type | Description                              |
|------|--|
| RDA  | Regional District Electoral Area         |
| RG   | Region                                   |
| RGM  | Regional Municipality                    |
| RM   | Rural Municipality                       |
| RV   | Resort Village                           |
| S-E  | Indian Settlement - Établissement indien |
| SA   | Special Area                             |
| SCM  | Subdivision of County Municipality       |
| SET  | Settlement                               |
| SM   | Specialized Municipality                 |
| SUN  | Subdivision of Unorganized               |
| SV   | Summer Village                           |
| T    | Town                                     |
| TI   | Terre inuite                             |
| TL   | Teslin Land                              |
| TP   | Township                                 |
| TR   | Terres réservées                         |
| UNO  | Unorganized - Non organisé               |
| V    | Ville                                    |
| VC   | Village cri                              |
| VK   | Village naskapi                          |
| VL   | Village                                  |
| VN   | Village nordique                         |

## Data Dictionary (cont'd)

### Roads Look Up Table (rds\_lut)

#### Layer Location

\\Streets\\AREArds\_lut

#### Layer Structure

| Field Name               | Type      | Size | Description                                    |
|--------------------------|-----------|------|--|
| RDS_ID                   | Decimal   | 9,0  | Uniqueld of related Roads (rds) segment        |
| ALIAS_NAME               | Character | 69   | Alternate Street Name                          |
| FORMERNAME <sup>17</sup> | Character | 69   | Former Provincial Hwy Name                     |
| HWY_NUM                  | Character | 20   | Highway Number(s) (e.g. Highway 404)           |
| HWY_NUMNAM               | Character | 69   | Road Numeric Name (e.g. Regional Rd 4)         |
| HWY_NAME                 | Character | 69   | Highway Name Non-Numeric (e.g. Don Valley Pky) |
| RD_NUM                   | Character | 20   | Road Number (e.g. 4)                           |
| RD_NUMNAM                | Character | 69   | Road Numeric Name (e.g. Regional Rd 4)         |
| RD_NAME                  | Character | 69   | Road Name Non-Numeric (e.g. Taunton Rd W)      |
| ALASKAHWY                | Decimal   | 1,0  | Alaskan Highway flag                           |
| CARIBOOHWY               | Decimal   | 1,0  | Cariboo Highway flag                           |
| CRWSNSTHWY               | Decimal   | 1,0  | Crowsnest Highway flag                         |
| DEMPSTRHWY               | Decimal   | 1,0  | Dempster Highway flag                          |
| JOHNHRTHWY               | Decimal   | 1,0  | John Hart Highway flag                         |
| KLONDIKEHWY              | Decimal   | 1,0  | Klondike Highway flag                          |
| MCKNZIEHWY               | Decimal   | 1,0  | Mackenzie Highway flag                         |
| TRNSCDAHwy               | Decimal   | 1,0  | TransCanada Highway Flag                       |
| YELLOWHDHWY              | Decimal   | 1,0  | Yellow Head Highway Flag                       |
| TOLL_RD                  | Decimal   | 1,0  | Toll Road Flag                                 |
| BRIDGE                   | Decimal   | 1,0  | Bridge Flag                                    |
| TUNNEL                   | Decimal   | 1,0  | Tunnel Flag                                    |
| BRUNNELNAM               | Character | 69   | Bridge/Tunnel Name                             |
| TRAILNAME                | Character | 100  | Trail Name                                     |
| TRAILTYPE                | Character | 50   | Trail Type                                     |
| TRAILCLASS               | Character | 20   | Trail Class                                    |
| TRAILCODE                | Decimal   | 4,0  | Trail Code                                     |
| L_MUN_96                 | Character | 68   | Municipality (1996 Census based)               |
| R_MUN_96                 | Character | 68   | Municipality (1996 Census based)               |

<sup>17</sup> Applicable only in Ontario

**Trail Classes, Types and Codes**

| <b>TrailCode</b> | <b>TrailType</b>          | <b>TrailClass</b>  |
|------------------|---------------------------|--------------------|
| 1000             | OTHER PARK                | PARK               |
| 1001             | NATIONAL PARK             | PARK               |
| 1002             | PROVINCIAL PARK           | PARK               |
| 1003             | MUNICIPAL PARK            | PARK               |
| 1004             | CONSERVATION AREA         | PARK               |
| 1005             | NATIONAL HISTORIC SITE    | PARK               |
| 1006             | WILDLIFE/NATURE SANCTUARY | PARK               |
| 1007             | EXHIBITION GROUNDS        | PARK               |
| 2000             | OTHER RECREATIONAL        | RECREATIONAL       |
| 2001             | HIKING/WALKING            | RECREATIONAL       |
| 2002             | BIKING                    | RECREATIONAL       |
| 2003             | RIDING                    | RECREATIONAL       |
| 2004             | SNOWMOBILE                | RECREATIONAL       |
| 2005             | SKIING                    | RECREATIONAL       |
| 2006             | GOLF COURSE               | RECREATIONAL       |
| 2007             | PORTAGE                   | RECREATIONAL       |
| 3000             | OTHER PRIVATE             | PRIVATE            |
| 3001             | TOWNHOUSE/CONDOMINIUM     | PRIVATE            |
| 3002             | SHOPPING MALL             | PRIVATE            |
| 3003             | TRAILER PARK              | PRIVATE            |
| 3004             | LOGGING ROAD              | PRIVATE            |
| 3005             | CEMETERY                  | PRIVATE            |
| 3006             | ALLEY WAY                 | PRIVATE            |
| 3007             | AIRPORT/HELIPORT          | PRIVATE            |
| 3008             | ABANDONED RAILWAY         | PRIVATE            |
| 3009             | INDUSTRIAL                | PRIVATE            |
| 3010             | FOREST SERVICE ROAD       | PRIVATE            |
| 3011             | REST AREA                 | PRIVATE            |
| 3012             | SERVICE STATION           | PRIVATE            |
| 3013             | ABANDONED ROAD            | PRIVATE            |
| 3014             | COUNTRY CLUB              | PRIVATE            |
| 3015             | HOTEL/MOTEL               | PRIVATE            |
| 3016             | RETAIL/OFFICE             | PRIVATE            |
| 4000             | OTHER EMERGENCY SERVICES  | EMERGENCY SERVICES |
| 4001             | HOSPITAL                  | EMERGENCY SERVICES |
| 4002             | FIRE ACCESS               | EMERGENCY SERVICES |
| 4003             | EMERGENCY SERVICES ROAD   | EMERGENCY SERVICES |



**Trail Classes, Types and Codes (con't)**

| <b>TrailCode</b> | <b>TrailType</b>                   | <b>TrailClass</b> |
|------------------|------------------------------------|-------------------|
| 5000             | OTHER EDUCATIONAL                  | EDUCATIONAL       |
| 5001             | PRIVATE ELEMENTARY SCHOOL          | EDUCATIONAL       |
| 5002             | PUBLIC ELEMENTARY SCHOOL           | EDUCATIONAL       |
| 5003             | PRIVATE HIGHSCHOOL                 | EDUCATIONAL       |
| 5004             | PUBLIC HIGHSCHOOL                  | EDUCATIONAL       |
| 5005             | UNIVERSITY                         | EDUCATIONAL       |
| 5006             | COLLEGE                            | EDUCATIONAL       |
| 5007             | MILITARY SCHOOL                    | EDUCATIONAL       |
| 5008             | SEPARATE ELEMENTARY SCHOOL         | EDUCATIONAL       |
| 5009             | SEPARATE HIGHSCHOOL                | EDUCATIONAL       |
| 6000             | OTHER GOVERNMENT                   | GOVERNMENT        |
| 6001             | EXPERIMENTAL FARM                  | GOVERNMENT        |
| 6002             | DEPARTMENT OF NATIONAL DEFENCE     | GOVERNMENT        |
| 6003             | CORRECTIONAL FACILITY              | GOVERNMENT        |
| 6004             | WEIGH STATION                      | GOVERNMENT        |
| 6005             | PEDESTRIAN WALK WAY                | GOVERNMENT        |
| 6006             | POLICE TRAINING FACILITY           | GOVERNMENT        |
| 6007             | SEWAGE OR WATER TREATMENT FACILITY | GOVERNMENT        |
| 6008             | NO PUBLIC ACCESS/BUS ROUTE         | GOVERNMENT        |
| 7000             | LIMITED USE ROAD: OTHER            | LIMITED USE ROAD  |
| 7001             | LIMITED USE ROAD: WINTER           | LIMITED USE ROAD  |
| 7002             | LIMITED USE ROAD: DRY WEATHER      | LIMITED USE ROAD  |
| 7003             | LIMITED USE ROAD: CART TRACK       | LIMITED USE ROAD  |

## Data Dictionary (*cont'd*)

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### Trail Casements (tlc)



#### Layer Location

\\Streets\\AREA\\tlc

#### Layer Structure

| Field Name           | Type      | Size | Description                             |
|----------------------|-----------|------|---|
| STREET <sup>18</sup> | Character | 64   | Street Title                            |
| RDS_ID               | Decimal   | 9,0  | Uniqueld of related Roads (rds) segment |

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<sup>18</sup> For more information refer to Appendix C: Street Types and Street Directions

## Data Dictionary (cont'd)

### Aerodromes (aer)



**Layer Location**  
 \POI\AREAaer

#### Layer Structure

| Field Name | Type      | Size | Description  |
|------------|-----------|------|--|
| NAME       | Character | 150  | Aerodrome name   |
| CITY       | Character | 68   | City (or closest Municipality)   |
| PROV       | Character | 2    | Province Abbreviation  |
| ICAO_CODE  | Character | 4    | 4 Character Aerodrome Location Indicator                                     |
| IATA_CODE  | Character | 3    | 3 Character Aerodrome Location Indicator                                     |
| AER_TYPE   | Character | 10   | Description of type of Aerodrome   |
| STATUS     | Character | 10   | Operational status of Aerodrome  |
| NAME_ALIAS | Character | 125  | Aerodrome name alias   |
| PREC_CODE  | Character | 2    | Code indicating the positional accuracy or precision of the geocoded feature |
| ATTRIBCODE | Character | 2    | Code indicating the accuracy of the attribute data                           |
| POI_ID     | Character | 15   | Unique ID  |

#### Layer Content

##### Name

When the geographic location is not reflected in the Aerodrome name, the name of the community is placed before the Aerodrome name separated by a forward slash.

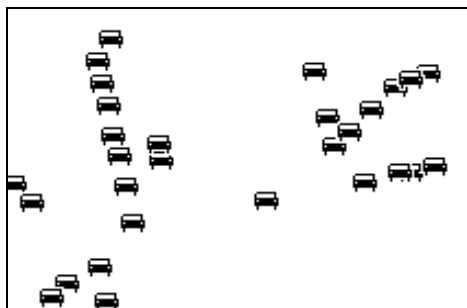
##### Name Alias

Provides a commonly used name.

| Aerodrome Name                 | Community Name | Other Name             | Name Alias                             |
|--------------------------------|----------------|------------------------|--|
| Toronto/Lester B. Pearson Intl | Toronto        | Lester B. Pearson Intl | Lester B Pearson International Airport |
| Montréal/St-Hubert             | Montréal       | St-Hubert              | Aéroport de Saint-Hubert               |
| Calgary/Springbank             | Calgary        | Springbank             | Calgary Springbank Airport             |

## Data Dictionary (*cont'd*)

### Car Pool Lots (cpl)



**Layer Location**  
 \POI\AREAcpl

### Layer Structure

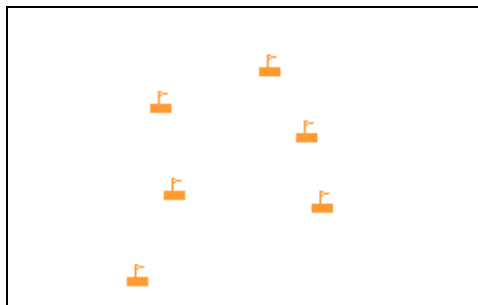
| Field Name              | Type      | Size | Description  |
|-------------------------|-----------|------|--|
| NAME                    | Character | 150  | Car Pool Lot name  |
| LOCATION                | Character | 100  | Car Pool Lot Location  |
| CITY                    | Character | 68   | City (or closest Municipality)   |
| PROV                    | Character | 2    | Province (Abbreviation)  |
| EXIT_NUM                | Character | 5    | Highway Exit Number at Car Pool Lot Location                                 |
| DIRECTION               | Character | 2    | Direction of Highway at Car Pool Lot Location                                |
| PREC_CODE <sup>19</sup> | Character | 2    | Code indicating the positional accuracy or precision of the geocoded feature |
| ATTRIBCODE              | Character | 2    | Code to indicate the accuracy of the attribute data                          |
| POI_ID                  | Character | 15   | Unique ID  |

<sup>19</sup> Refer to the Appendix G: Geographical Placement of Data for more information.

## Data Dictionary (*cont'd*)

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### Education (edu)



#### Layer Location

\\POI\\AREAedu

#### Layer Structure

| Field Name              | Type      | Size | Description  |
|-------------------------|-----------|------|--|
| NAME                    | Character | 150  | Educational facility name  |
| PREC_CODE <sup>20</sup> | Character | 2    | Code indicating the positional accuracy or precision of the geocoded feature |
| ATTRIBCODE              | Character | 2    | Code to indicate the accuracy of the attribute data                          |
| POI_ID                  | Character | 15   | Unique ID  |

#### Layer Content

Includes Elementary, High Schools, Colleges, Cégeps and Universities.

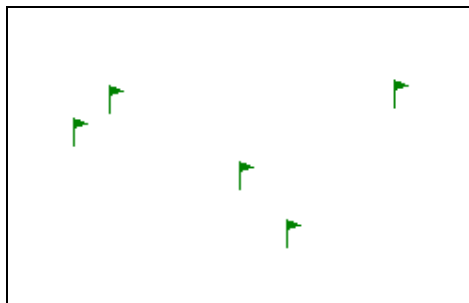
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<sup>20</sup> Refer to the Appendix G: Geographical Placement of Data for more information.

## Data Dictionary (*cont'd*)

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### Golf Courses (glf)



#### Layer Location

\\POI\\AREAglf

#### Layer Structure

| Field Name              | Type      | Size | Description  |
|-------------------------|-----------|------|--|
| NAME                    | Character | 150  | Golf Course name   |
| PREC_CODE <sup>21</sup> | Character | 2    | Code indicating the positional accuracy or precision of the geocoded feature |
| ATTRIBCODE              | Character | 2    | Code to indicate the accuracy of the attribute data                          |
| POI_ID                  | Character | 15   | Unique ID  |

#### Layer Content

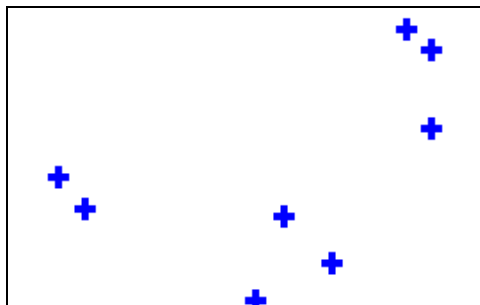
Includes both Private and Public golf courses as well as their locations, phone numbers and number of holes.

---

<sup>21</sup> Refer to the Appendix G: Geographical Placement of Data for more information.

## Data Dictionary (*cont'd*)

### Health Care (hcr)



#### Layer Location

\\POI\\AREA\\hcr

#### Layer Structure

| Field Name              | Type      | Size | Description  |
|-------------------------|-----------|------|--|
| NAME                    | Character | 150  | Health Care facility name  |
| PREC_CODE <sup>22</sup> | Character | 2    | Code indicating the positional accuracy or precision of the geocoded feature |
| ATTRIBCODE              | Character | 2    | Code to indicate the accuracy of the attribute data                          |
| POI_ID                  | Character | 15   | Unique ID (link to main POI database)  |

#### Layer Content

Includes Hospitals, Long-Term Care Centers, Nursing Stations, Outpatient Clinics and Community Health Centers.

<sup>22</sup> Refer to the Appendix G: Geographical Placement of Data for more information.

## Data Dictionary (cont'd)

### Populated Placenames (ppn)



#### Layer Location

\\PPN\\AREAppn

#### Layer Structure

| Field Name | Field Type | Field Size | Description  |
|------------|------------|------------|--|
| NAME       | Character  | 68         | Placename  |
| PROV       | Character  | 2          | Provincial/Territorial Abbreviation  |
| LONGITUDE  | Decimal    | 11,6       | Longitude of Populated Placename   |
| LATITUDE   | Decimal    | 11,6       | Latitude of Populated Placename  |
| PPN_CODE   | Decimal    | 3,0        | Populated Placename Code   |
| PREC_CODE  | Decimal    | 2,0        | Code indicating the positional accuracy or precision of the geocoded feature |
| MJR_CITY   | Decimal    | 1,0        | Identifies cities with populations > 100,000                                 |
| CAPITAL    | Decimal    | 1,0        | Identifies provincial capital cities and the national capital                |
| PRCDCSD    | Character  | 8          | 2001 Census Subdivision (CSD) code in which the placename is located         |
| CSD_NAME   | Character  | 68         | 2001 Census Subdivision (CSD) name in which the placename is located         |
| CSD_POP01  | Decimal    | 8,0        | Census Subdivision (CSD) population (2001) in which the placename is located |

#### Layer Content

Based on the Canadian Geographic Names Database<sup>23</sup>, the CanMap Populated Placenames file provides a rich and extensive layer of cities, towns, villages and communities across Canada. CanMap Populated Placenames have been enhanced by verifying and aligning points with CanMap<sup>®</sup> Streetfiles.

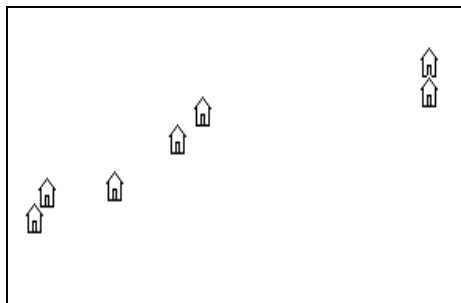
| PPN_Code | Type of Populated Placename   |
|----------|---|
| 101      | Capital City  |
| 100      | Major City  |
| 1        | Minor City  |
| 2        | Town or Village   |
| 3        | Community (includes rural communities, small village, hamlets, settlements) |
| 4        | Urban or Suburban Community   |

<sup>23</sup> Source: Natural Resources Canada, Canadian Geographical Names Database (CGNDB), 1999



## Data Dictionary (*cont'd*)

### Toll Booths (tol)



**Layer Location**  
 \POI\AREAtol

### Layer Structure

| Field Name              | Type      | Size | Description  |
|-------------------------|-----------|------|--|
| NAME                    | Character | 150  | Toll Booth name  |
| LOCATION                | Character | 100  | Toll Booth location  |
| CITY                    | Character | 68   | City (or closest Municipality)   |
| PROV                    | Character | 2    | Province (Abbreviation)  |
| DIRECTION               | Character | 2    | Direction of Highway at Car Pool Lot Location                                |
| PREC_CODE <sup>24</sup> | Character | 2    | Code indicating the positional accuracy or precision of the geocoded feature |
| ATTRIBCODE              | Character | 2    | Code to indicate the accuracy of the attribute data                          |
| POI_ID                  | Character | 15   | Unique ID  |

<sup>24</sup> Refer to the Appendix G: Geographical Placement of Data for more information.

## Data Dictionary (*cont'd*)

### Transportation Stops (trs)



#### Layer Location

\\POI\AREAttrs

#### Layer Structure

| Field Name  | Type    | Size | Description                                       |
|-------------|---------|------|---|
| NAME        | Char    | 150  | Transportation Stop name                          |
| CITY        | Char    | 68   | City or municipality                              |
| PROV        | Char    | 2    | Provincial/Territorial Abbreviation               |
| TRS_TYPE    | Char    | 25   | Transportation Stop classification (if available) |
| OWNER       | Char    | 68   | Transportation Stop owner/operator                |
| ROUTE       | Char    | 100  | Transportation Stop Route                         |
| TRS_NUM     | Char    | 8    | Transportation Stop number (if available)         |
| CODE        | Decimal | 4,0  | Classification Code                               |
| FEATURE     | Char    | 76   | Transportation Stop Feature Type                  |
| PREC_CODE   | Char    | 2    | Precision Code                                    |
| ATTRIB_CODE | Char    | 2    | Attribute Code                                    |
| POI_ID      | Char    | 15   | Transit Stop unique identifier (Unique ID)        |

- ❖ Bus and Rail Transit stops have been merged with the Railway Stops to create a Transportation Stops layer. Some fields were added and others changed name or type to accommodate the transit data. See table above for descriptions of each field.

#### Layer Content

| CODE | FEATURE                              |
|------|--------------------------------------|
| 150  | BUS STOP                             |
| 151  | BUILDING: RAPID TRANSIT STATION      |
| 152  | BUILDING: LIGHT RAIL TRANSIT STATION |
| 154  | BUILDING: COMMUTER RAIL STATION      |
| 155  | BUILDING: RAILWAY STATION            |

## Data Dictionary (*cont'd*)

### Weigh Stations (wgh)



**Layer Location**  
 \POI\AREAwgh

#### Layer Structure

| Field Name | Type      | Size | Description  |
|------------|-----------|------|--|
| NAME       | Character | 150  | Name of Weigh Station  |
| LOCATION   | Character | 100  | Location of Weigh Station  |
| DELIV_MODE | Character | 25   | P.O. Box# or Unit#   |
| CITY       | Character | 68   | City (or closest Municipality)   |
| PROV       | Character | 2    | Province   |
| POST_CODE  | Character | 7    | Postal Code  |
| PHONE      | Character | 15   | Telephone#   |
| FAX        | Character | 15   | Fax#   |
| WGH_TYPE   | Character | 10   | Permanent or Portable Scale  |
| DIRECTION  | Character | 2    | Indicates the direction of road scale is on                                  |
| HOURS      | Character | 20   | Hours of operation   |
| YEAR_ROUND | Decimal   | 1,0  | Year Round operation   |
| RESTROOM   | Decimal   | 1,0  | Restrooms available  |
| AVION401   | Decimal   | 1,0  | Avion 401 automated clearance system   |
| PREC_CODE  | Character | 2    | Code indicating the positional accuracy or precision of the geocoded feature |
| ATTRIBCODE | Character | 2    | Code indicating the accuracy of the attribute data                           |
| POI_ID     | Character | 15   | Unique ID  |

## Data Dictionary (cont'd)

### Building Footprints (bfr)



#### Layer Location

\\Topo\\AREAbfr

#### Layer Structure

| Field Name | Type      | Size | Description      |
|------------|-----------|------|------------------|
| CODE       | Decimal   | 4,0  | Feature Code     |
| FEATURE    | Character | 76   | Feature Type     |
| CATEGORY   | Character | 40   | Feature Category |

#### Layer Content

| Code | Feature                |
|------|------------------------|
| 106  | ARENA                  |
| 107  | ARMOURY                |
| 108  | AUTOMOBILE PLANT       |
| 109  | BARN/MACHINERY SHED    |
| 111  | CEMENT PLANT           |
| 112  | CHEMICAL PLANT         |
| 113  | CHURCH                 |
| 114  | CITY HALL              |
| 115  | COAST GUARD STATION    |
| 116  | COLLEGE                |
| 117  | COMMUNITY CENTRE       |
| 118  | CONVENT                |
| 119  | CORRECTIONAL INSTITUTE |
| 120  | COURTHOUSE             |
| 120  | COURT HOUSE            |
| 121  | CUSTOMS POST           |
| 122  | DOME                   |
| 123  | ELECTRIC POWER STATION |
| 124  | FACTORY                |
| 125  | FILTRATION PLANT       |
| 126  | FIRE STATION           |
| 127  | FIRE/POLICE STATION    |

| Code | Feature                        |
|------|--------------------------------|
| 128  | FISH HATCHERY                  |
| 129  | FISH PROCESSING PLANT          |
| 130  | GRAIN ELEVATOR                 |
| 131  | HALL                           |
| 132  | HIGHWAY SERVICE CENTRE         |
| 133  | HOSPITAL                       |
| 134  | HOSTEL                         |
| 135  | HOTEL                          |
| 136  | KILN (TOBACCO)                 |
| 137  | LUMBER MILL                    |
| 139  | MEDICAL CENTRE                 |
| 140  | MONASTERY                      |
| 141  | MOTEL                          |
| 142  | MUNICIPAL HALL                 |
| 143  | MUSEUM                         |
| 144  | NON-CHRISTIAN PLACE OF WORSHIP |
| 145  | OBSERVATORY                    |
| 146  | OIL/GAS FACILITIES BUILDING    |
| 146  | GAS AND OIL FACILITIES         |
| 147  | OTHER                          |
| 149  | PARLIAMENT BUILDING            |
| 150  | PENITENTIARY                   |

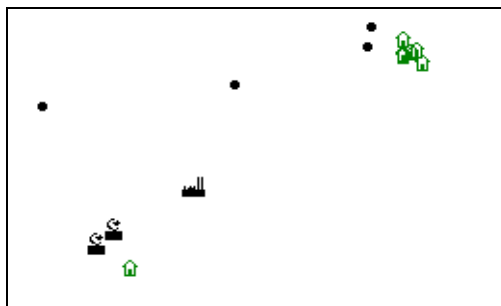
## Data Dictionary (cont'd)

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| Code | Feature                    |
|------|----------------------------|
| 151  | PETROLEUM REFINERY         |
| 152  | PLANT                      |
| 153  | POLICE STATION             |
| 154  | PULP/PAPER MILL            |
| 155  | RAILWAY STATION            |
| 156  | REFORMATORY                |
| 157  | SANATORIUM                 |
| 158  | SATELLITE-TRACKING STATION |
| 159  | SAWMILL                    |
| 160  | SCHOOL                     |
| 161  | SEMINARY                   |
| 162  | SENIOR CITIZENS HOME       |
| 163  | SEWAGE TREATMENT PLANT     |
| 164  | SHIPYARD                   |
| 165  | SHOPPING CENTRE            |
| 166  | SPORTSPLEX                 |
| 167  | STEEL MILL                 |
| 168  | TRADING POST               |
| 169  | UNIVERSITY                 |
| 170  | WARDEN/RANGER STATION      |
| 171  | WATER TREATMENT PLANT      |
| 172  | WEIGH SCALE (HIGHWAY)      |
| 172  | WEIGHT SCALE               |
| 174  | GREENHOUSE                 |
| 175  | PENAL BUILDING             |
| 176  | LODGING FACILITIES         |
| 177  | INDUSTRIAL BUILDING        |
| 178  | RELIGIOUS BUILDING         |
| 179  | EDUCATIONAL BUILDING       |
| 585  | FORT: GENERIC/UNKNOWN      |
| 585  | FORT                       |
| 618  | GREENHOUSE                 |
| 1220 | STADIUM                    |

## Data Dictionary (cont'd)

### Building Points (bpp)



#### Layer Location

\\Topo\\AREA\\bpp

#### Layer Structure

| Field Name | Type      | Size | Description      |
|------------|-----------|------|------------------|
| CODE       | Decimal   | 4,0  | Feature Code     |
| FEATURE    | Character | 76   | Feature Type     |
| CATEGORY   | Character | 40   | Feature Category |

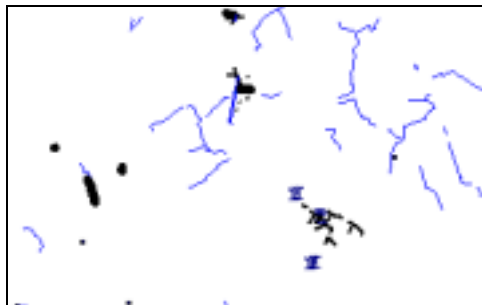
#### Layer Content

| Code | Feature                |
|------|------------------------|
| 109  | BARN/MACHINERY SHED    |
| 110  | CABIN                  |
| 113  | CHURCH                 |
| 114  | CITY HALL              |
| 115  | COAST GUARD STATION    |
| 118  | CONVENT                |
| 122  | DOMES                  |
| 123  | ELECTRIC POWER STATION |
| 125  | FILTRATION PLANT       |
| 126  | FIRE STATION           |
| 127  | FIRE/POLICE STATION    |
| 128  | FISH HATCHERY          |
| 129  | FISH PROCESSING PLANT  |
| 130  | GRAIN ELEVATOR         |
| 136  | KILN (TOBACCO)         |
| 137  | LUMBER MILL            |
| 140  | MONASTERY              |

| Code | Feature                        |
|------|--------------------------------|
| 144  | NON-CHRISTIAN PLACE OF WORSHIP |
| 146  | OIL/GAS FACILITIES BUILDING    |
| 148  | OUTBUILDING                    |
| 151  | PETROLEUM REFINERY             |
| 155  | RAILWAY STATION                |
| 159  | SAWMILL                        |
| 163  | SEWAGE TREATMENT PLANT         |
| 164  | SHIPYARD                       |
| 167  | STEEL MILL                     |
| 170  | WARDEN/RANGER STATION          |
| 171  | WATER TREATMENT PLANT          |
| 174  | GREENHOUSE                     |
| 178  | RELIGIOUS BUILDING             |
| 250  | CEMETERY                       |
| 684  | LOOKOUT                        |
| 1119 | SHRINE                         |

## Data Dictionary (cont'd)

### Hydrographic Structures (hs)



#### Layer Location

\\Topo\\ AREAhS

#### Layer Structure

| Field Name | Type      | Size | Description  |
|------------|-----------|------|--------------|
| CODE       | Decimal   | 4,0  | Feature Code |
| FEATURE    | Character | 76   | Feature Type |

#### Layer Content

| Code | Feature                         |
|------|---------------------------------|
| 58   | BOAT RAMP                       |
| 58   | BOAT RAMP: GENERIC/UNKNOWN      |
| 80   | BREAKWALL/BREAKWATER            |
| 80   | BREAKWATER: UNKNOWN             |
| 275  | CONDUIT: ABOVEGROUND, PENSTOCK  |
| 275  | CONDUIT: GROUND LEVEL, PENSTOCK |
| 276  | CONDUIT: UNDERGROUND, PENSTOCK  |
| 277  | CONDUIT: ABOVEGROUND, OTHER     |
| 277  | CONDUIT: GROUND LEVEL, OTHER    |
| 278  | CONDUIT: UNDERGROUND, OTHER     |
| 289  | CONDUIT BRIDGE: GENERIC/UNKNOWN |
| 359  | DAM                             |
| 360  | DAM: OTHER                      |
| 361  | DAM: SLUICE GATE                |
| 405  | DRYDOCK                         |
| 429  | DYKE/LEVEE                      |
| 429  | DYKE/LEVEE: UNKNOWN             |
| 475  | EXPOSED SHIPWRECK               |
| 486  | FALLS                           |
| 519  | FISH LADDER                     |
| 519  | FISH LADDER: GENERIC/UNKNOWN    |
| 530  | FISH POUND                      |
| 530  | FISH POUND: GENERIC/UNKNOWN     |
| 541  | FLOODED AREA                    |

## Data Dictionary (cont'd)

| Code | Feature  |
|------|--|
| 651  | IRRIGATION CANAL/DITCH                           |
| 662  | KELP: GENERIC/UNKNOWN                            |
| 673  | LOCK GATE: GENERIC/UNKNOWN                       |
| 673  | LOCK GATE  |
| 743  | NAVIGABLE CANAL: ABANDONED                       |
| 744  | NAVIGABLE CANAL: OPERATIONAL                     |
| 755  | NAVIGATION BEACON                                |
| 766  | NAVIGATION LIGHT                                 |
| 766  | NAVIGATIONAL AID: NAVIGATION LIGHT               |
| 767  | NAVIGATIONAL AID: NAVIGATION BEACON              |
| 777  | OBSTACLE IN WATER                                |
| 847  | PERMANENT SNOW AND ICE: OTHER                    |
| 909  | POND PARTITION: GENERIC/UNKNOWN                  |
| 910  | POND PARTITION: FISH POUND                       |
| 911  | POND PARTITION: RESERVOIR                        |
| 912  | POND PARTITION: WASTE                            |
| 967  | RAPIDS   |
| 979  | RESERVOIR: OPEN, DRINKING WATER RESERVOIR        |
| 980  | RESERVOIR: UNDERGROUND, DRINKING WATER RESERVOIR |
| 981  | RESERVOIR: OPEN,DUGOUT                           |
| 982  | RESERVOIR: OPEN,FILTRATION POND                  |
| 1033 | ROCK IN WATER                                    |
| 1044 | ROCKY LEDGE/REEF                                 |
| 1044 | ROCKY LEDGE/REEF: GENERIC/UNKNOWN                |
| 1108 | SEAWALL  |
| 1108 | SEAWALL: GENERIC/UNKNOWN                         |
| 1163 | SLIP   |
| 1174 | SLUICE GATE                                      |
| 1209 | SPRING   |
| 1209 | SPRING: GENERIC/UNKNOWN                          |
| 1453 | WATER BODY: IRRIGATION CANAL                     |
| 1503 | WHARF  |
| 1503 | WHARF: UNKNOWN                                   |
| 1514 | WIND-OPERATED DEVICE: GENERIC/UNKNOWN            |
| 1666 | LIQUIDS DEPOT/DUMPS: LIQUID WASTE, SEWAGE POND   |
| 1667 | LIQUIDS DEPOT/DUMP: LIQUID WASTE, SETTLING POND  |
| 1668 | LIQUIDS DEPOT/DUMP: LIQUID WASTE, UNKNOWN        |
| 1669 | LIQUIDS DEPOT/DUMP: WATER, OTHER                 |
| 1670 | LIQUIDS DEPOT/DUMP: WATER, FILTRATION POND       |
| 1671 | LIQUID DEPOT/DUMP: WATER, DRINKING WATER         |
| 1681 | HAZARD TO NAVIGATION: ROCK IN WATER              |
| 1682 | HAZARD TO NAVIGATION: EXPOSED SHIPWRECK          |
| 1683 | HAZARD TO NAVIGATION: OBSTACLE IN WATER          |



## Data Dictionary (*cont'd*)

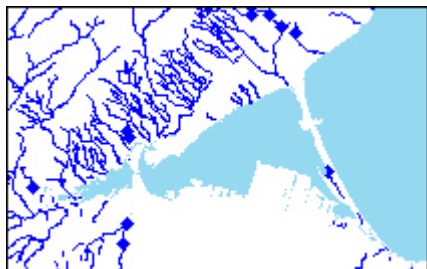
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| Code | Feature                                |
|------|--|
| 1701 | WATER DISTURBANCE: FALLS               |
| 1702 | WATER DISTURBANCE: RAPID               |
| 1710 | UNDERGROUND RESERVOIR: GENERIC/UNKNOWN |

## Data Dictionary (cont'd)

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### Hydrography (hy)



#### Layer Location

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#### Layer Structure

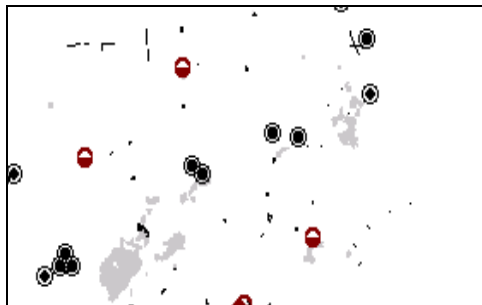
| Field Name | Type      | Size | Description  |
|------------|-----------|------|--------------|
| CODE       | Decimal   | 4,0  | Feature Code |
| FEATURE    | Character | 76   | Feature Type |

#### Layer Content

| Code | Feature                        |
|------|--------------------------------|
| 371  | DISAPPEARING STREAM: OTHER     |
| 372  | DISAPPEARING STREAM: SINKHOLE  |
| 1450 | WATERBODY: INTERMITTENT/SLOUGH |
| 1451 | WATERBODY: IN STRING BOG       |
| 1452 | WATERBODY: OTHER               |
| 1454 | WATERBODY: FLOODED AREA        |
| 1463 | WATERCOURSE: UNKNOWN           |

## Data Dictionary (cont'd)

### Industrial and Resource (ir)



#### Layer Location

\\Topo\\AREAir

#### Layer Structure

| Field Name | Type      | Size | Description  |
|------------|-----------|------|--------------|
| CODE       | Decimal   | 4,0  | Feature Code |
| FEATURE    | Character | 76   | Feature Type |

#### Layer Content

| Code | Feature                                 |
|------|---|
| 34   | AUTO WRECKER: GENERIC/UNKNOWN           |
| 34   | AUTO WRECKER                            |
| 347  | CUT LINE: FIREBREAK                     |
| 348  | CUT LINE: OTHER                         |
| 417  | DUMP: ABANDONED                         |
| 418  | DUMP: OTHER                             |
| 695  | LUMBER YARD                             |
| 695  | LUMBER YARD: GENERIC/UNKNOWN            |
| 707  | MINE: ABANDONED,N/A                     |
| 708  | MINE: OPERATIONAL,OPEN-PIT              |
| 709  | MINE: OPERATIONAL,OTHER                 |
| 788  | OIL/GAS FACILITIES                      |
| 788  | GAS AND OIL FACILITIES: GENERIC/UNKNOWN |
| 793  | OIL OR GAS FIELD: GENERIC/UNKNOWN       |
| 898  | PIT                                     |
| 923  | QUARRY                                  |
| 1231 | STOCKPILE                               |
| 1242 | STOCKYARD                               |
| 1242 | STOCKYARD: GENERIC/UNKNOWN              |
| 1435 | WASTE: OTHER, LIQUID                    |
| 1436 | WASTE: SETTLING POND,LIQUID             |
| 1437 | WASTE: SEWAGE DISPOSAL POND,LIQUID      |
| 1438 | WASTE: OTHER,SOLID                      |

## Data Dictionary (cont'd)

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| Code | Feature   |
|------|---|
| 1656 | SOLIDS DEPOT/DUMP: DOMESTIC, WASTE, ABANDONED     |
| 1657 | SOLIDS DEPOT/DUMP: DOMESTIC, WASTE, OPERATIONAL   |
| 1658 | SOLIDS DEPOT/DUMP: INDUSTRIAL, WASTE, UNKNOWN     |
| 1659 | SOLIDS DEPOT/DUMP: INDUSTRIAL, STOCKPILE, UNKNOWN |
| 1690 | MINING AREA: UNKNOWN, UNKNOWN, UNKNOWN            |
| 1691 | MINING AREA: PIT, OPEN PIT, OPERATIONAL           |
| 1692 | MINING AREA: QUARRY, OPEN PIT, OPERATIONAL        |
| 1693 | MINING AREA: MINE, OPEN, PIT, OPERATIONAL         |
| 1694 | MINING AREA: MINE, UNKNOWN, ABANDONED             |
| 1697 | MINING AREA: MINE, UNDERGROUND, OPERATIONAL       |

## Data Dictionary (*cont'd*)

### Land Feature Labels (llp)



### Layer Location

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### Layer Structure

| Field Name | Type      | Size | Description  |
|------------|-----------|------|--------------|
| NAME       | Character | 100  | Feature Name |
| CODE       | Decimal   | 4,0  | Feature Code |
| FEATURE    | Character | 76   | Feature Type |

### Layer Content

| Code | Feature            |
|------|--------------------|
| 1851 | TOPONYM: PLACE     |
| 1854 | TOPONYM: RELIEF    |
| 1855 | TOPONYM: TRANSPORT |

## Data Dictionary (*cont'd*)

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### Land Use (lur)



#### Layer Location

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#### Layer Structure

| Field Name | Type      | Size | Description         |
|------------|-----------|------|---------------------|
| CATEGORY   | Character | 40   | Category of Landuse |

#### Field Content

Landuse Categories: Commercial; Government and Institutional; Open Area; Parks and Recreational; Residential; Resource and Industrial; Waterbody.

## Data Dictionary (cont'd)

### Other Transportation (ot)



#### Layer Location

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#### Layer Structure

| Field Name | Type      | Size | Description  |
|------------|-----------|------|--------------|
| CODE       | Decimal   | 4,0  | Feature Code |
| FEATURE    | Character | 76   | Feature Type |
| NAME       | Character | 100  | Feature Name |

#### Layer Content

| Code | Feature                                      |
|------|--|
| 10   | AERIAL CABLEWAY: GENERIC/UNKNOWN             |
| 11   | AERIAL CABLEWAY: OTHER                       |
| 12   | AERIAL CABLEWAY: SKI LIFT                    |
| 45   | BARRIER/GATE: GENERIC/UNKNOWN                |
| 46   | BARRIER/GATE: OTHER                          |
| 47   | BARRIER/GATE: TOLLGATE                       |
| 440  | EMBANKMENT: GENERIC/UNKNOWN                  |
| 441  | EMBANKMENT: OTHER                            |
| 442  | EMBANKMENT: CAUSEWAY                         |
| 552  | FOOTBRIDGE: GENERIC/UNKNOWN                  |
| 563  | FORD: GENERIC/UNKNOWN                        |
| 1066 | RUNWAY: GENERIC/UNKNOWN                      |
| 1067 | RUNWAY: AIRFIELD, UNKNOWN, UNKNOWN           |
| 1068 | RUNWAY: AIRFIELD, OPERATIONAL, HARD SURFACE  |
| 1069 | RUNWAY: AIRFIELD, OPERATIONAL, LOOSE SURFACE |
| 1070 | RUNWAY: AIRPORT, OPERATIONAL, HARD SURFACE   |
| 1071 | RUNWAY: UNKNOWN, ABANDONED, UNKNOWN          |
| 1072 | RUNWAY: AIRPORT, OPERATIONAL, LOOSE SURFACE  |
| 1185 | SNOWSHED: GENERIC/UNKNOWN                    |
| 1376 | TUNNEL: GENERIC/UNKNOWN                      |
| 1387 | TURNTABLE: GENERIC/UNKNOWN                   |
| 1720 | HAZARD TO AIR NAVIGATION: GENERIC/UNKNOWN    |

## Data Dictionary (*cont'd*)

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|      |  |
|------|--|
| 1721 | HAZARD TO AIR NAVIGATION: PARABOLIC ANTENNA    |
| 1722 | HAZARD TO AIR NAVIGATION: CHIMNEY              |
| 1723 | HAZARD TO AIR NAVIGATION: TANK                 |
| 1724 | HAZARD TO AIR NAVIGATION: CROSS                |
| 1725 | HAZARD TO AIR NAVIGATION: WIND-OPERATED DEVICE |
| 1726 | HAZARD TO AIR NAVIGATION: CRANE                |
| 1727 | HAZARD TO AIR NAVIGATION: WATER DISTURBANCE    |
| 1728 | HAZARD TO AIR NAVIGATION: BRIDGE               |
| 1729 | HAZARD TO AIR NAVIGATION: NAVIGATIONAL AID     |
| 1730 | HAZARD TO AIR NAVIGATION: AERIAL CABLEWAY      |
| 1731 | HAZARD TO AIR NAVIGATION: TOWER                |

The OT layer also includes the 'PATH'. The PATH is downtown Toronto's underground walkway and links various office towers, parking garages, subway stations, department stores, hotels, tourist attractions, and the Union Station railway terminal.



## Data Dictionary (cont'd)

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### Physiography (ph)



#### Layer Location

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#### Layer Structure

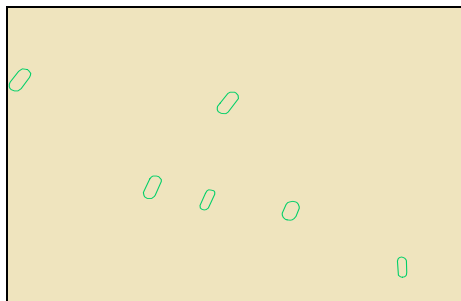
| Field Name | Type      | Size | Description  |
|------------|-----------|------|--------------|
| CODE       | Decimal   | 4,0  | Feature Code |
| FEATURE    | Character | 76   | Feature Type |

#### Layer Content

| Code | Feature                        |
|------|--------------------------------|
| 239  | CAVE ENTRANCE                  |
| 239  | CAVE ENTRANCE: GENERIC/UNKNOWN |
| 394  | DRY RIVER BED                  |
| 394  | DRY RIVER BED: GENERIC/UNKNOWN |
| 451  | ESKER                          |
| 451  | ESKER: GENERIC/UNKNOWN         |
| 574  | FORESHORE FLATS                |
| 731  | MORAINE: GENERIC/UNKNOWN       |
| 1083 | SAND: OTHER                    |
| 1084 | SAND: UNDERWATER               |

## Data Dictionary (*cont'd*)

### Parks & Recreation Lines (prl)



#### Layer Location

\\Topo\\AREAprl

#### Layer Structure

| Field Name | Type      | Size | Description  |
|------------|-----------|------|--|
| CODE       | Decimal   | 4,0  | Park or Recreational Feature Code  |
| FEATURE    | Character | 76   | Park or Recreational Feature Type  |
| NAME       | Character | 68   | Park or Recreational Feature Name  |
| TYPE       | Character | 40   | Park Designation example National, Provincial, Territorial Parks                     |
| CLASS      | Character | 40   | Park or Recreational Feature Classification example wilderness, heritage or waterway |
| PROV       | Character | 2    | Provincial/Territorial Abbreviation  |

#### Layer Content

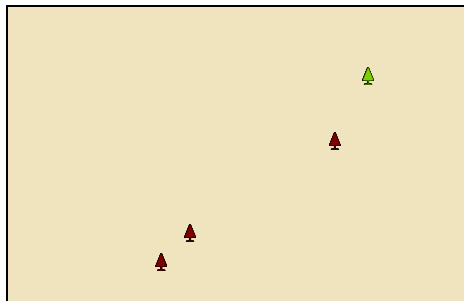
CanMap Parks & Recreation lines layer represents over 2,600 recreation line features across Canada.

#### Features - Recreational Features

| Code | Feature                        |
|------|--------------------------------|
| 1198 | Sports Track/Race Track: Other |

## Data Dictionary (cont'd)

### Parks & Recreation Points (prp)



#### Layer Location

\\Topo\\AREA\\prp

#### Layer Structure

| Field Name | Type      | Size | Description  |
|------------|-----------|------|--|
| CODE       | Decimal   | 4,0  | Park or Recreational Feature Code  |
| FEATURE    | Character | 76   | Park or Recreational Feature Type  |
| NAME       | Character | 68   | Park or Recreational Feature Name  |
| TYPE       | Character | 40   | Park Designation example National, Provincial, Territorial Parks                     |
| CLASS      | Character | 40   | Park or Recreational Feature Classification example wilderness, heritage or waterway |
| PROV       | Character | 2    | Provincial/Territorial Abbreviation  |

#### Layer Content

CanMap Parks & Recreation points layer represents over 150 national, provincial and territorial parks and over 2,300 recreation areas across Canada.

#### Features - Parks

| Code | Feature           |
|------|-------------------|
| 2025 | Provincial Parks  |
| 2026 | Territorial Parks |

#### Features - Recreational

| Code | FEATURE                                  |
|------|--|
| 206  | Camp: Generic/unknown                    |
| 217  | Campground: Generic/unknown              |
| 250  | Cemetery: Generic/unknown                |
| 607  | Golf Driving Range: Generic/unknown      |
| 684  | Lookout: Generic/unknown                 |
| 640  | Historic Site/Point of Interest          |
| 858  | Picnic Site: Generic/unknown             |
| 1525 | Zoo: Generic/unknown                     |
| 1672 | Liquids Depot/dump: Water, Swimming Pool |

## Data Dictionary (*cont'd*)

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### Parks Features - Types

| Type             |
|------------------|
| Provincial Park  |
| Territorial Park |

### Parks Features - Classes

| Class               |
|---------------------|
| Natural Environment |
| Day Use             |
| Nature Reserve      |
| Recreation/Heritage |
| Wildlife            |

### Provincial Parks Duplicate Naming

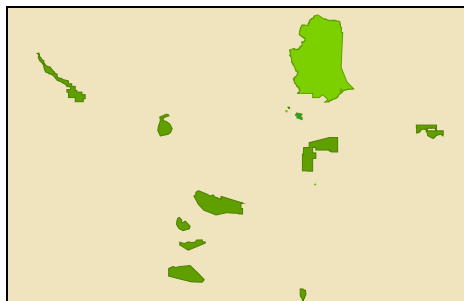
Duplicate naming exists within the Parks & Recreation files. Duplicates exist in the following parks where park boundaries or park names are shared by more than one province:

| Park Name                     | Prov | Prov | Description  |
|-------------------------------|------|------|--|
| Long Point Provincial Park    | NS   | ON   | Park name shared by more than one province                     |
| Ten Mile Lake Provincial Park | NS   | BC   | Park name shared by more than one province                     |
| White Lake Provincial Park    | ON   | BC   | Park name shared by more than one province in the points layer |

CanMap Parks & Recreation does not represent legal park boundaries. At this time discrepancies may exist between the CanMap Park boundaries and the CANwat boundaries.

## Data Dictionary (cont'd)

### Parks & Recreation Regions (pr)



#### Layer Location

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#### Layer Structure

| Field Name | Type      | Size | Description  |
|------------|-----------|------|--|
| CODE       | Decimal   | 4,0  | Park or Recreational Feature Code  |
| FEATURE    | Character | 76   | Park or Recreational Feature Type  |
| NAME       | Character | 68   | Park or Recreational Feature Name  |
| TYPE       | Character | 40   | Park Designation example National, Provincial, Territorial Parks                     |
| CLASS      | Character | 40   | Park or Recreational Feature Classification example wilderness, heritage or waterway |
| PROV       | Character | 2    | Provincial/Territorial Abbreviation  |

#### Layer Content

CanMap Parks & Recreation regions layer represents over 1,600 national, provincial and territorial parks and over 14,000 recreation areas across Canada.

#### Features - Park Features

| Code | Feature                  |
|------|--------------------------|
| 2021 | National Parks Polygons  |
| 2022 | National Wildlife Area   |
| 2023 | Migratory Bird Sanctuary |
| 2025 | Provincial Parks         |
| 2026 | Territorial Parks        |
| 2027 | Other Parks              |

## Data Dictionary (*cont'd*)

### Features - Recreational Features

| Code | Feature                                  |
|------|--|
| 23   | Amusement Park: Generic/unknown          |
| 69   | Botanical Garden: Generic/unknown        |
| 217  | Campground: Generic/unknown              |
| 250  | Cemetery: Generic/unknown                |
| 383  | Drive-in Theatre: Generic/unknown        |
| 463  | Exhibition Ground: Fairground            |
| 464  | Exhibition Ground: Other                 |
| 596  | Golf Course: Generic/unknown             |
| 607  | Golf Driving Range: Generic/unknown      |
| 640  | Historic Site/Point of Interest          |
| 684  | Lookout: Generic/unknown                 |
| 823  | Parks/sports Field: Generic/unknown      |
| 858  | Picnic Site: Generic/unknown             |
| 1197 | Sports Track/Race Track/Drag Strip       |
| 1525 | Zoo: Generic/unknown                     |
| 1672 | Liquids Depot/dump: Water, Swimming Pool |

### Parks Features - Types

| Type                     |
|--------------------------|
| National Park            |
| Provincial Park          |
| Territorial Park         |
| Park Reserve             |
| Ecological Reserve       |
| Wildland Park            |
| Wilderness Area          |
| Wilderness Park          |
| Protected Area           |
| Park Area                |
| Recreation Area          |
| Grizzly Bear Sanctuary   |
| Natural Area             |
| National Wildlife Area   |
| Migratory Bird Sanctuary |

## Data Dictionary (cont'd)

### Parks Features - Classes

| Class               |
|---------------------|
| Wilderness          |
| Natural Environment |
| Heritage            |
| Day Use             |
| Camping             |
| Waterway            |
| Recreation          |
| Nature Reserve      |
| Historical          |
| Recreation/Heritage |
| Ecological          |
| Conservation        |
| Education           |

### Federal Parks Duplicate Naming

Duplicate naming exists within the Parks & Recreation files. Duplicates exist in the following parks where park boundaries are shared by more than one province:

| Park Name                        | Prov | Prov | Description                                    |
|----------------------------------|------|------|--|
| St. Clair National Wildlife Area | ON   | SK   | Park boundary shared by more than one province |
| Tuktut Nogait National Park      | NU   | NT   | Park boundary shared by more than one province |
| Wood Buffalo National Park       | AB   | NT   | Park boundary shared by more than one province |

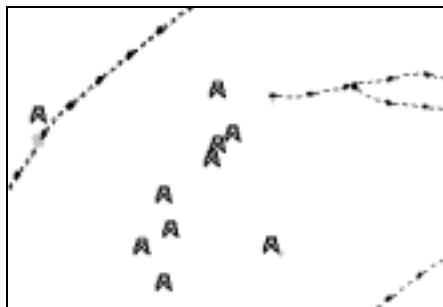
### Provincial Parks Duplicate Naming

Duplicate naming exists within the Parks & Recreation files. Duplicates exist in the following parks where park boundaries or park names are shared by more than one province:

| Park Name                     | Prov | Prov | Description                                    |
|-------------------------------|------|------|--|
| Cypress Hills Provincial Park | AB   | SK   | Park boundary shared by more than one province |
| Duck Mountain Provincial Park | SK   | MB   | Park name shared by more than one province     |
| Long Lake Provincial Park     | NS   | AB   | Park name shared by more than one province     |
| Long Point Provincial Park    | NS   | ON   | Park name shared by more than one province     |
| Mara Provincial Park          | ON   | BC   | Park name shared by more than one province     |
| Sandbanks Provincial Park     | ON   | NL   | Park name shared by more than one province     |
| Silver Lake Provincial Park   | ON   | BC   | Park name shared by more than one province     |
| Ten Mile Lake Provincial Park | NS   | BC   | Park name shared by more than one province     |
| White Lake Provincial Park    | ON   | BC   | Park name shared by more than one province     |

## Data Dictionary (cont'd)

### Pipelines and Transmission (pt)



#### Layer Location

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#### Layer Structure

| Field Name | Type      | Size | Description  |
|------------|-----------|------|--------------|
| CODE       | Decimal   | 4,0  | Feature Code |
| FEATURE    | Character | 76   | Feature Type |

#### Layer Content

| Code | Feature                              |
|------|--------------------------------------|
| 881  | PIPELINE: NATURAL GAS, ABOVEGROUND   |
| 881  | PIPELINE: NATURAL GAS ,ABOVEGROUND   |
| 882  | PIPELINE: NATURAL GAS,UNDERGROUND    |
| 882  | PIPELINE: NATURAL GAS, UNDERGROUND   |
| 883  | PIPELINE: OIL,ABOVEGROUND            |
| 883  | PIPELINE: OIL ABOVEGROUND            |
| 884  | PIPELINE: OIL UNDERGROUND            |
| 884  | PIPELINE: OIL,UNDERGROUND            |
| 885  | PIPELINE: SEWAGE/WASTE, ABOVEGROUND  |
| 885  | PIPELINE: SEWAGE/WASTE,ABOVEGROUND   |
| 886  | PIPELINE: UNKNOWN,ABOVEGROUND        |
| 886  | PIPELINE: UNKNOWN, ABOVEGROUND       |
| 887  | PIPELINE: UNKNOWN,UNDERGROUND        |
| 887  | PIPELINE: UNKNOWN, UNDERGROUND       |
| 890  | PIPELINE: MULTIUSE, ABOVEGROUND      |
| 891  | PIPELINE: MULTIUSE, UNDERGROUND      |
| 1318 | TRANSFORMER STATION (ELECTRIC)       |
| 1318 | TRANSFORMER STATION: GENERIC/UNKNOWN |
| 1330 | TRANSMISSION LINE: POWER,OTHER       |
| 1330 | TRANSMISSION LINE: POWER, OTHER      |
| 1331 | TRANSMISSION LINE: POWER, SUBMARINE  |



## Data Dictionary (*cont'd*)

---

| Code | Feature                             |
|------|-------------------------------------|
| 1331 | TRANSMISSION LINE: POWER,SUBMARINE  |
| 1332 | TRANSMISSION LINE: TELEPHONE,OTHER  |
| 1332 | TRANSMISSION LINE: TELEPHONE, OTHER |
| 1398 | VALVE: GENERIC/UNKNOWN              |
| 1398 | VALVE                               |

## Data Dictionary (cont'd)

### Railway and Transit Lines (rll)



#### Layer Location

\\Rail\\AREArll

#### Layer Structure

| Field Name | Type    | Size | Description   |
|------------|---------|------|---|
| OWNER      | Char    | 68   | Railway Owner/Operator  |
| CARTO      | Decimal | 3,0  | Cartographic Rail Classification                                |
| ACCESS1    | Char    | 50   | Alternate Railway Owner/Operator                                |
| ACCESS2    | Char    | 50   | Alternate Railway Owner/Operator                                |
| ACCESS3    | Char    | 50   | Alternate Railway Owner/Operator                                |
| TRS_RTE    | Char    | 68   | Transit Route   |
| RTE_TYPE   | Char    | 3    | Route Type  |
| PROV       | Char    | 2    | Province  |
| US_RAILCO  | Char    | 15   | American owner/operator of connecting US railway line           |
| US_STP     | Char    | 50   | American railway station of entry on connecting US railway line |
| US_STATE   | Char    | 2    | American State the connecting US railway line enters            |
| CR         | Decimal | 1,0  | Transit: Commuter Rail Flag                                     |
| LRT        | Decimal | 1,0  | Transit: Light Rail Flag  |
| RT         | Decimal | 1,0  | Transit: Rapid Transit Flag                                     |
| CODE       | Decimal | 4,0  | Classification Code   |
| FEATURE    | Char    | 76   | Railway Feature Type  |
| RL_ID      | Decimal | 9,0  | Railway unique identifier (Unique ID)                           |

## Data Dictionary (*cont'd*)

- ❖ Rail Transit lines have been integrated with the Railway lines. The TRS\_TYPE and RTE\_TYPE fields have been added to the Railway lines in order to accomodate the transit data. Three flag fields CR, LRT and RT have been included so that Rail Transit lines can be queried out to create a separate transit layer. In cases where a transit line has shared access with a railway line, the OWNER field will contain the railway data and the transit data will be contained in one of the ACCESS fields.
- ❖ The MAIN, SIDETRACK and ABANDONED fields have been removed and replaced by a new CARTO field that includes rail classifications for each of those categories and a transit carto. See Appendix A : Cartographic Road and Rail Classifications for carto descriptions.

### Layer Content

| CODE | FEATURE                                      |
|------|--|
| 91   | BRIDGE                                       |
| 935  | RAILWAY: ABANDONED                           |
| 961  | RAILWAY: SPECIAL, OTHER, OPERATIONAL, SINGLE |
| 962  | RAILWAY: OPERATIONAL                         |
| 963  | RAILWAY: OPERATIONAL, SIDETRACK              |
| 1376 | TUNNEL                                       |

### Transit Definitions

**Commuter rail (CR)** is a transit railway within urbanized areas, or between urbanized areas and outlying suburbs and regions within commuting distance. These transit lines are often shared with Railway lines.

**Rapid Transit (RT) (metro, subway)** is a high speed transit railway at ground level or below within urbanized areas.

**Light rail (LRT) (streetcar, tramway, automated guideway transit)** is a transit railway that operates on a loop within the central business district of a city or connecting the business district to its suburbs.

## Data Dictionary (cont'd)

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### Vegetation (ver)



#### Layer Location

\Topo\AREAvr

#### Layer Structure

| Field Name | Type      | Size | Description  |
|------------|-----------|------|--------------|
| CODE       | Decimal   | 4,0  | Feature Code |
| FEATURE    | Character | 76   | Feature Type |

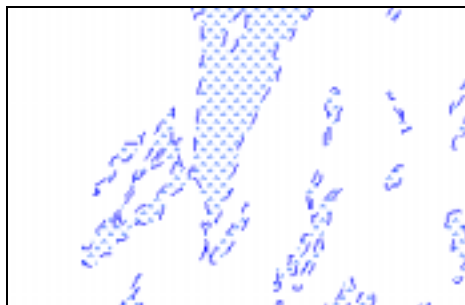
#### Layer Content

| Code | Feature                       |
|------|-------------------------------|
| 834  | PEAT CUTTING                  |
| 834  | PEAT CUTTING: GENERIC/UNKNOWN |
| 1343 | TREE NURSERY                  |
| 1410 | VEGETATION: ORCHARD           |
| 1411 | VEGETATION: VINEYARD/HOPFIELD |
| 1412 | VEGETATION: WOODED AREA       |
| 1413 | VEGETATION: TREE NURSERY      |

## Data Dictionary (cont'd)

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### Wetlands (wer)



#### Layer Location

\\Topo\\AREAwet

#### Layer Structure

| Field Name | Type      | Size | Description  |
|------------|-----------|------|--------------|
| CODE       | Decimal   | 4,0  | Feature Code |
| FEATURE    | Character | 76   | Feature Type |

#### Layer Content

| Code | Feature                     |
|------|-----------------------------|
| 1253 | STRING BOG                  |
| 1253 | STRING BOG: GENERIC/UNKNOWN |
| 1492 | WETLAND                     |
| 1492 | WETLAND: GENERIC/UNKNOWN    |

## Data Dictionary (*cont'd*)

### Water Feature Labels (wlp)



#### Layer Location

\\Topo\\AREAwlp

#### Layer Structure

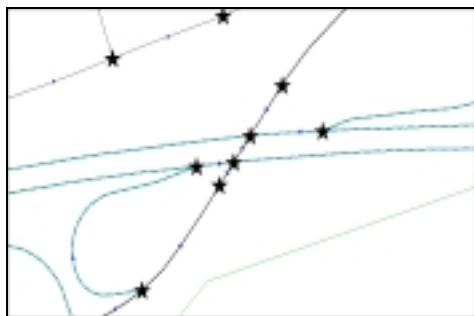
| Field Name | Type      | Size | Description  |
|------------|-----------|------|--------------|
| NAME       | Character | 100  | Feature Name |
| CODE       | Decimal   | 4,0  | Feature Code |
| FEATURE    | Character | 76   | Feature Type |

#### Layer Content

| Code | Feature              |
|------|----------------------|
| 1852 | TOPONYM: HYDROGRAPHY |
| 1853 | TOPONYM: SHORELINE   |

## Data Dictionary (cont'd)

### Relative Elevation Nodes (ren)



#### Layer Location

\\Streets\\ARE\\ren

#### Layer Structure

| Field Name | Type    | Size | Description   |
|------------|---------|------|---|
| NODE_ID    | Decimal | 8,0  | Unique Identifier of node   |
| REL_E      | Decimal | 2,0  | Relative Elevation Value of node  |
| LONGITUDE  | Decimal | 11,6 | Longitude location of node  |
| LATITUDE   | Decimal | 11,6 | Latitude location of node   |
| INTRSCTION | Decimal | 1,0  | Flag indicating whether node is an intersection of two or more segments or a dead end. (1 = Intersection, 0 = Dead End) |

#### Layer Content

Relative elevation differentiates coincident nodes of varying elevation and outlines relationships between street segments on different planes via node-and-segment connectivity. Relative Elevation Nodes (ren) are a work-around for inherent limitations when navigating through three-dimensional street networks represented on the two-dimensional plane (i.e. computer screen).

Ren help to establish routing options and are particularly useful where complex overpass/underpass structures exist because they indicate street segments as being on different road-levels; where on the computer screen all streets appear to be connected. For example, one can discern the physical relationship of an overpass to the street below and determine that a turn directly from the overpass to the street is prohibited. The ren layer, coupled with the Turn Restrictions Table (trn), generates the most accurate routing.

Rule: Travel is permitted between street segments connected by a common node and prohibited between street segments not sharing a common node. A common node (where the FROMNODE value of one segment equals the TONODE value of another) implies a node of same relative elevation and a turning possibility. Conversely, where a common node does not exist (implying a prohibited turn) there are two (or more) nodes stacked directly on top of each other-- each with a different relative elevation.

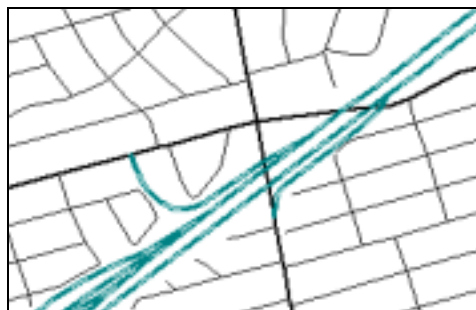
Each respective street segment has two ren associated with it; one at the fromnode and the other at the tonode. Additionally, a street will connect to another street via a common node of the same relative elevation.

Note: REL\_ELEV values are Integer, greater than or equal to zero, depicting the relative elevation or plane associated with a particular street segment. Actual elevations and true ground relationships of “higher- level” and “lower- level” streets are not represented by this field.



## Data Dictionary (cont'd)

### Roads (rte)



#### Layer Location

\\Streets\AREArte

#### Layer Structure

| Field Name               | Type      | Size | Description  |
|--------------------------|-----------|------|--|
| STREET <sup>25</sup>     | Character | 69   | Street Title (comprised of PRETYPE, PREDIR, STREETNAME, SUFTYPE, SUFDIR) |
| FROMLEFT                 | Decimal   | 6,0  | Address on the Left side at the From end of the street segment           |
| TOLEFT                   | Decimal   | 6,0  | Address on the Left side at the To end of the street segment             |
| FROMRIGHT                | Decimal   | 6,0  | Address on the Right side at the From end of the street segment          |
| TORIGHT                  | Decimal   | 6,0  | Address on the Right side at the To end of the street segment            |
| PREDIR                   | Character | 2    | Prefix Direction component of the Street Title (e.g. <b>W</b> 5 St)      |
| PRETYPE                  | Character | 10   | Prefix StreetType component of the Street Title (e.g. <b>Rue</b> Jean)   |
| STREETNAME               | Character | 45   | StreetName component of the Street Title (e.g. <b>John</b> St E)         |
| SUFTYPE                  | Character | 10   | Suffix StreetType component of the Street Title (e.g. John <b>St</b> E)  |
| SUFDIR                   | Character | 2    | Suffix Direction component of the Street Title (e.g. John St <b>E</b> )  |
| CARTO <sup>26</sup>      | Decimal   | 3,0  | Cartographic Road Classification   |
| LEFT_MUN <sup>27</sup>   | Character | 70   | Municipality   |
| RIGHT_MUN <sup>27</sup>  | Character | 70   | Municipality   |
| LEFT_MAF                 | Character | 70   | Municipal Amalgamation   |
| RIGHT_MAF                | Character | 70   | Municipal Amalgamation   |
| LEFT_FSA                 | Character | 3    | Forward Sortation Area   |
| RIGHT_FSA                | Character | 3    | Forward Sortation Area   |
| LEFT_PRV                 | Character | 2    | Province Abbreviation  |
| RIGHT_PRV                | Character | 2    | Province Abbreviation  |
| UNIQUEID                 | Decimal   | 9,0  | Unique Identifier of Street segment                                      |
| ONEWAY                   | Decimal   | 1,0  | One Way flag   |
| RTE_HIRCHY <sup>28</sup> | Decimal   | 3,0  | Route Hierarchy classification   |

<sup>25</sup> For more information refer to Appendix C: Street Types and Street Directions

<sup>26</sup> For more information refer to Appendix D: Cartographic Road Classifications

<sup>27</sup> Source: Statistics Canada, Standard Geographical Classification (SGC), 2001

<sup>28</sup> For more information refer to Appendix E: Routing Hierarchy

## Data Dictionary (cont'd)

| Field Name | Type      | Size | Description   |
|------------|-----------|------|---|
| RSH_TRFFC  | Decimal   | 1,0  | Road segment inundated with vehicular traffic during the rush hour. 1= rush hour traffic, 0= no rush hour traffic |
| MEDIAN     | Decimal   | 1,0  | Single-line road segment with a median separating traffic. 1= median, 0= no median                                |
| ROAD_DIR   | Character | 2    | Road segment direction: FROMNODE to TONODE (FT) or TONODE to FROMNODE (TF)  |
| FROMNODE   | Decimal   | 9,0  | Node begins road segment  |
| TONODE     | Decimal   | 9,0  | Node ends road segment  |
| SPDLMT_KM  | Decimal   | 3,0  | Maximum speed limit for a road segment—80% are legal posted speed limits  |
| SPD_MI     | Decimal   | 3,0  | Estimated speed limit (miles per hour)  |
| RDLEN_MI   | Decimal   | 7,3  | Length of road segment (miles)  |
| SPD_KM     | Decimal   | 3,0  | Estimated speed limit (km per hour)   |
| RDLEN_M    | Decimal   | 10,3 | Length of road segment (meters)   |
| TRVLTIM    | Decimal   | 8,3  | Estimated travel time (minutes) based on speed limit and road length  |
| RDLEN_MI_E | Decimal   | 7,3  | Adjusted road length (miles) calculated using actual distance with elevation                                      |
| RDLEN_M_E  | Decimal   | 10,3 | Adjusted road length (meters) calculated using actual distance with elevation                                     |
| TRVLTIM_E  | Decimal   | 8,3  | Estimated travel time (minutes) based on speed limit and actual road length with elevation                        |

### Field Content

Estimated Speed limits are derived using the Carto value of a Road Segment and the Population Density in the vicinity of the Road Segment. Populated areas have a population density of at least 100 persons per square kilometer; Sparsely Populated areas have a population density of less than 100 persons per square kilometer.

| Carto | Population Density | Speed Limit (km/h)<br>SPEEDKM | Speed Limit (mph)<br>SPEEDMILES |
|-------|--------------------|-------------------------------|---------------------------------|
| 1     | All                | 100                           | 60                              |
| 2     | Populated          | 80                            | 50                              |
| 2     | Sparsely Populated | 80                            | 50                              |
| 3     | Populated          | 60                            | 40                              |
| 3     | Sparsely Populated | 80                            | 50                              |
| 4     | Populated          | 60                            | 40                              |
| 4     | Sparsely Populated | 80                            | 50                              |
| 5     | Populated          | 50                            | 30                              |
| 5     | Sparsely Populated | 80                            | 50                              |
| 6+    | All                | 10                            | 6                               |
| All   | All Ramps          | 50                            | 30                              |

## Data Dictionary (*cont'd*)

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These highway routes are flagged in the Roads Lookup Table (rds\_lut):

- TransCanada Hwy
- Yellowhead Hwy
- Alaskan Hwy
- Cariboo Hwy
- Crowsnest Hwy
- Dempster Hwy
- John Hart Hwy
- Klondike Hwy
- Mackenzie Hwy

### Notes:

- Address fields contain “zeros” for street segments without addresses
- Ramps connecting flagged highway routes are not considered part of the highway route system
- Ferry Ramps connect Ferry Routes to the street network
- As of CanMap v8.2 the Municipality (\_MUN) fields are attributed with 2001 Census based Municipality names. 1996 Census based Municipality names can be obtained by linking the **rte** layer to the **rds\_lut** layer via the UNIQUEID and RDS\_ID fields
- ESRI users: as of CanMap v8.2 all geocoding indexes have been created using 2001 Census based Municipality names
- As of v2005.1, SPDLMT\_KM attribution will be updated on an ongoing basis as part of the production cycle

## Data Dictionary (cont'd)

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### Routes Look Up Table (rte\_lut)<sup>29</sup>

#### Table Location

\\Streets\AREArte\_lut

#### Table Structure

| Field Name | Type      | Size | Description  |
|------------|-----------|------|--|
| RDS_ID     | Decimal   | 9,0  | Unique Identifier of related Routes (rte) segment                        |
| ON_RAMP    | Decimal   | 1,0  | 1 = On Ramp, 0 = not an On Ramp  |
| OFF_RAMP   | Decimal   | 1,0  | 1 = Off Ramp, 0 = not an Off Ramp  |
| GRAD_FC    | Decimal   | 6,3  | Gradient between the From Node and the segment Centroid                  |
| GRAD_CT    | Decimal   | 6,3  | Gradient between the segment Centroid and the To Node                    |
| DIST_FC    | Decimal   | 10,3 | Distance along the gradient between the From Node and segment Centroid   |
| DIST_CT    | Decimal   | 10,3 | Distance along the gradient between the segment Centroid and the To Node |
| EXIT_NUM   | Character | 30   | Highway Exit Number  |
| EXIT_DIR   | Character | 2    | Ramp Exit Direction  |
| FERRY_TYPE | Character | 68   | Ferry Route Type (i.e. Passenger, Vehicle, etc.)                         |

#### Field Content

Ferry Types information included:

| Ferry Types                                     |
|---|
| Canadian Passenger & Freight Ferry              |
| US Passenger & Freight Ferry                    |
| Private Passenger & Freight Ferry               |
| Canadian Passenger & Freight Ferry/Ice Road     |
| US Passenger & Freight Passenger Ferry/Ice Road |
| Private Passenger & Freight Ferry/Ice Road      |

<sup>29</sup> For more information on joining the rte\_lut Table to the rds Layer refer to Appendix K: Joining the rte Layer and rds\_lut Table

## Data Dictionary (cont'd)

### Turn Restrictions Table (trn)

#### Table Location

\\Streets\AREA\trn

#### Table Structure

| Field Name | Type      | Size | Description  |
|------------|-----------|------|--|
| TURN_ID    | Decimal   | 9,0  | Unique Identifier of Turn Restriction  |
| RDS_ID     | Decimal   | 9,0  | Unique Identifier of Road Segment traveling upon   |
| RES_RDS_ID | Decimal   | 9,0  | Unique identifier of Road Segment to which a turn is prohibited  |
| VIA_RDS_ID | Decimal   | 9,0  | Unique Identifier of Road Segment that would have to be traveled upon to execute the prohibited turn to Res_Rds_Id (u-turn on a double-lined road) |
| TRVLDIR    | Character | 5    | Traveling Direction of Road Segment  |
| TYPE       | Character | 10   | Type of prohibited turn (Left, Right, Straight, U-turn) when a legislated turn restriction exists  |
| TIME1_FROM | Character | 8    | Start Time of Turn Restriction   |
| TIME1_TO   | Character | 8    | End Time of Turn Restriction   |
| TIME2_FROM | Character | 8    | Start Time of Turn Restriction   |
| TIME2_TO   | Character | 8    | End Time of Turn Restriction   |
| DAT_FROM   | Character | 10   | First Day of turn restriction  |
| DAY_TO     | Character | 10   | Last Day of turn restriction   |
| ON_RED_SIG | Decimal   | 1,0  | 1 = No Turn on Red, 0 = Turn on any Signal   |
| AUTH_VEHIC | Decimal   | 1,0  | 1 = Authorized Vehicles only, 0 = all Vehicles Excepted  |
| BUS_EXCEPT | Decimal   | 1,0  | 1 = Buses Excepted, 0 = No Exceptions  |
| LEGISLATED | Decimal   | 1,0  | 1 = Legislated, 0 = Non-Legislated   |
| PROV       | Character | 2    | Province Abbreviation  |

#### Table Content

Turn restrictions identify road segments on which it is prohibited to turn from one street segment to another. There are two different classifications of turn restrictions; legislated and non-legislated.

Legislated Turn Restrictions are prohibited turning movements set out by municipal bylaw where signage is posted. One, or a combination of several restrictions may be listed. Example: No left turn from 6 a.m. to 9 a.m., Monday through Friday.

Non-legislated Turn Restrictions are physical restrictions that restrict turning movements-- options that would be considered valid otherwise if the physical restriction was not captured. An example of this situation is the overpass crossing over another street. In this scenario, a turn cannot be made directly from the overpass to the road below and vice versa.

## Data Dictionary (cont'd)

### Transportation Route Restrictions (trr)

#### Table Location

\\Streets\AREA\trr

#### Table Structure

| Field Name | Type      | Size | Description   |
|------------|-----------|------|---|
| RDS_ID     | Decimal   | 9,0  | Unique Identifier of Transportation Route Restriction |
| RES_TRUCK  | Decimal   | 1,0  | 1 = Heavy Trucks prohibited, 0 = Heavy Trucks allowed |
| TIME_FROM  | Character | 8    | Start Time of Restriction                             |
| TIME_TO    | Character | 8    | End Time of Restriction                               |
| DAY_FROM   | Character | 10   | First Day of Restriction                              |
| DAY_TO     | Character | 10   | Last Day of Restriction                               |
| RESWGT_FUL | Decimal   | 6,0  | Maximum Weight Capacity of road                       |
| PROV       | Character | 2    | Province Abbreviation                                 |

#### Table Content

Transportation Route Restrictions identify streets designated as heavy truck routes as defined by a particular municipality. Current coverage includes the CMA boundaries for the 13 capital cities of each province and territory, the capital of Canada, and cities having a combined 1996 Census population of 500 000 or greater. The exception is Iqaluit where only the CSD boundary was utilized.

The Transportation Route Restrictions file is a lookup table that can be linked back to the Roads (rte) file via RDS\_ID in trr and UNIQUEID in rte.

#### CMAs Included<sup>30</sup>

| Prov  | CMA Name                | 1996 Population | Heavy Truck Weight (kg) |
|-------|-------------------------|-----------------|-------------------------|
| AB    | CALGARY                 | 821,628         | 5,450                   |
| AB    | EDMONTON                | 862,597         | 4,500                   |
| BC    | VANCOUVER <sup>31</sup> | 1,831,665       | 10,000                  |
| BC    | VICTORIA <sup>32</sup>  | 304,287         | 22,000                  |
| MB    | WINNIPEG                | 667,209         | 24,300                  |
| NB    | FREDERICTON             | 78,950          | 10,000                  |
| NF    | ST. JOHN'S              | 174,051         | 3,000                   |
| NS    | HALIFAX                 | 332,518         | 3,000                   |
| NT    | YELLOWKNIFE             | 17,275          | N/A                     |
| NU    | IQALUIT (CSD)           | N/A             | N/A                     |
| ON    | HAMILTON                | 624,360         | 4,000                   |
| ON    | TORONTO                 | 4,263,757       | 5,000                   |
| ON/QC | OTTAWA/HULL             | 1,010,498       | 4,500/ 3,000            |
| PE    | CHARLOTTETOWN           | 57,224          | N/A                     |

<sup>30</sup> For a complete listing of all CSDs contained within the CMA boundaries refer to Appendix F: Transportation Route Restrictions

<sup>31</sup> Exceptions: Port Coquitlam - 4,600 kg; Richmond - 5,000 kg

<sup>32</sup> Exception: District of Saanich – 5,500 kg

## Data Dictionary (cont'd)

| Prov | CMA Name   | 1996 Population | Heavy Truck Weight (kg) |
|------|------------|-----------------|-------------------------|
| QC   | MONTREAL   | 3,326,510       | 3,000                   |
| QC   | QUEBEC     | 671,889         | 3,000                   |
| SK   | REGINA     | 193,652         | 9,000                   |
| YT   | WHITEHORSE | 21,808          | N/A                     |

Heavy Truck Weight is defined as the maximum weight permitted before a vehicle is deemed a heavy truck, designated by a particular municipality. A truck with a weight of 2 500 kg in Montreal is not considered a heavy truck and can therefore travel on all routes within the municipality. Conversely, a truck with a weight of 3 000 kg would be considered a heavy truck in Montreal and must therefore adhere to travel on specified truck routes. Emergency vehicles and, in most cases, school busses are not restricted by heavy truck routes.

Some Municipalities have time and day information associated with heavy truck restrictions:

| RDS_ID    | RES_TRUCK | TIME_FROM | TIME_TO | DAY_FROM | DAY_TO   | RESWGT_FUL | PROV |
|-----------|-----------|-----------|---------|----------|----------|------------|------|
| 1,575,467 | 1         | 7:00 PM   | 7:00 AM | Monday   | Saturday | 0          | MB   |
| 2,246,640 | 1         | 9:00 PM   | 7:00 AM | (none)   | (none)   | 0          | NS   |

The first record would be interpreted: "Street segment 1575467 has a heavy truck restriction between 7:00 p.m. and 7:00 a.m. from Monday to Saturday."

The second record would be interpreted: "Street segment 2246640 has a heavy truck restriction between 9:00 p.m. and 7:00 a.m. on every day of the week."

Note: Time component fields (TIME\_FROM, TIME\_TO) are not populated for street segments where heavy truck restrictions do not exist (i.e. RES\_TRUCK = 0).

## Data Dictionary (*cont'd*)

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### Highway Exits (xit)



#### Layer Location

\\Streets\\AREAxit

#### Layer Structure

| Field Name | Type      | Size | Description            |
|------------|-----------|------|------------------------|
| EXIT_NUM   | Character | 30   | Highway Exit Number    |
| EXIT_DIR   | Character | 2    | Direction of Exit ramp |

#### Layer Content

The exit layer is comprised of points containing exit number and direction attribution. Exit sourcing is only available for the provinces of British Columbia, New Brunswick, Nova Scotia, Ontario and Quebec.

- EXIT\_NUM field contains comma-delimited records where multiple exit numbers exist. 356, 357 – denotes exit 356 and exit 357
- STREET field from rds table contains ampersand-delimited records where multiple exit numbers exist: "HIGHWAY 401 (EXIT 356 & 357)"
- EXIT\_DIR field direction attribution is associated with the exit number only



## Data Dictionary (cont'd)

### Sample Summary of Roads (rte) Segments updated with Highway Exit Number Information

| STREET<br>(rte)  | PRETYPE<br>(rte) | SUFTYPE<br>(rte) | STREET<br>(rte)                            | EXIT_NUM<br>(rte_lut)    | EXIT_DIR<br>(rte_lut) |
|------------------|------------------|------------------|--|--------------------------|-----------------------|
|                  |                  | RAMP             | EXIT 163                                   | 163                      |                       |
|                  |                  | RAMP             | EXIT 107 N                                 | 107                      | N                     |
|                  |                  | RAMP             | EXIT 293 (COLLEGE HILL RD <sup>33</sup> )  | 293 (COLLEGE HILL RD)    |                       |
|                  |                  | RAMP             | EXIT 6 (HIGHWAY 7) N                       | 6 (HIGHWAY 7)            | N                     |
| HIGHWAY 8 BYPASS | HWY              |                  | HIGHWAY 8 BYPASS (EXIT 278 <sup>34</sup> ) | 278                      |                       |
| POINT ACONI RD N |                  | RD               | POINT ACONI RD N (EXIT 18)                 | 18                       |                       |
| ALDER POINT RD   |                  | RD               | ALDER POINT RD (EXIT 19 N)                 | 19                       | N                     |
|                  |                  | ÉCH              | SORTIE 202                                 | 202                      |                       |
|                  |                  | ÉCH              | SORTIE 100 S                               | 100                      | S                     |
|                  |                  | ÉCH              | SORTIE 21 (COTE D'ABRAHAM)                 | 21 (COTE D'ABRAHAM)      |                       |
|                  |                  | ÉCH              | SORTIE 21 (AUT DES LAURENTIDES) N          | 21 (AUT DES LAURENTIDES) | N                     |
| ROUTE 185        | RTE              |                  | ROUTE 185 (SORTIE 499)                     | 499                      |                       |
| BOUL PERROT N    | BOUL             |                  | BOUL PERROT N (SORTIE 37)                  | 37                       |                       |
| ROUTE 132        | RTE              |                  | ROUTE 132 (SORTIE 601 N)                   | 601                      | N                     |
|                  |                  | ÉCH              | SORTIE 76 & 77                             | 76, 77                   |                       |
|                  |                  | RAMP             | EXIT 29 & 31                               | 29, 31                   |                       |
|                  |                  | ÉCH              | SORTIE 78 & 82 & 83                        | 78, 82, 83               |                       |
| HIGHWAY 401      | HWY              |                  | HIGHWAY 401 (COLLECTORS TO EXPRESS)        | COLLECTORS TO EXPRESS    |                       |
| HIGHWAY 401      | HWY              |                  | HIGHWAY 401 (EXPRESS TO COLLECTORS)        | EXPRESS TO COLLECTORS    |                       |
| HIGHWAY 401      | HWY              |                  | HIGHWAY 401 (TO COLLECTORS)                | TO COLLECTORS            |                       |
| HIGHWAY 401      | HWY              |                  | HIGHWAY 401 (TO EXPRESS)                   | TO EXPRESS               |                       |
|                  |                  | RAMP             | TO EXPRESS                                 | TO EXPRESS               |                       |
|                  |                  | RAMP             | TO COLLECTORS                              | TO COLLECTORS            |                       |

A One-to-One relationship exists between the Highway Exit Numbers and the Road (rte) segments updated with Exit Number information and only segments intersecting an exit point are updated with exit information. (The majority of these segments are designated as RAMP or ÉCH (échangeur) in the Roads (rte) SufType field)

<sup>33</sup> Parentheses contain the name of the street being exited to

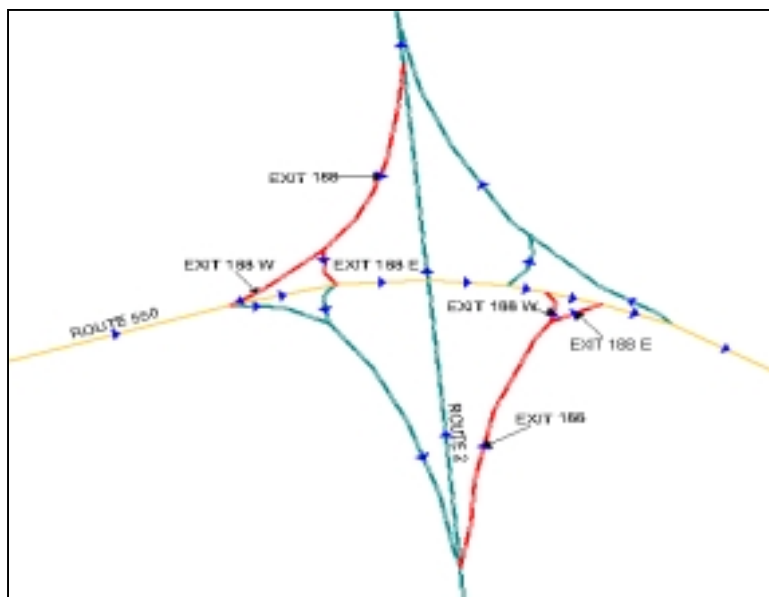
<sup>34</sup> Parentheses contain the exit number associated with the named road

## Data Dictionary (*cont'd*)

Diagram A – Basic Ramp System with Naming Conventions

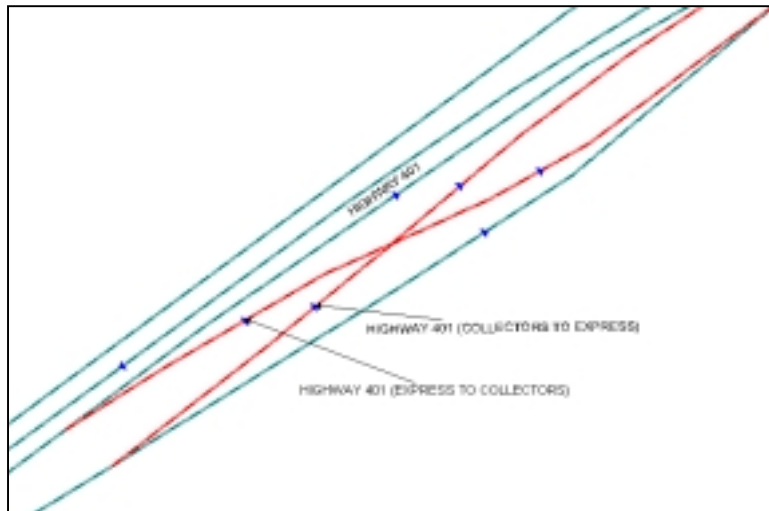


Diagram B – Basic Ramp System with Naming and Directionality Conventions

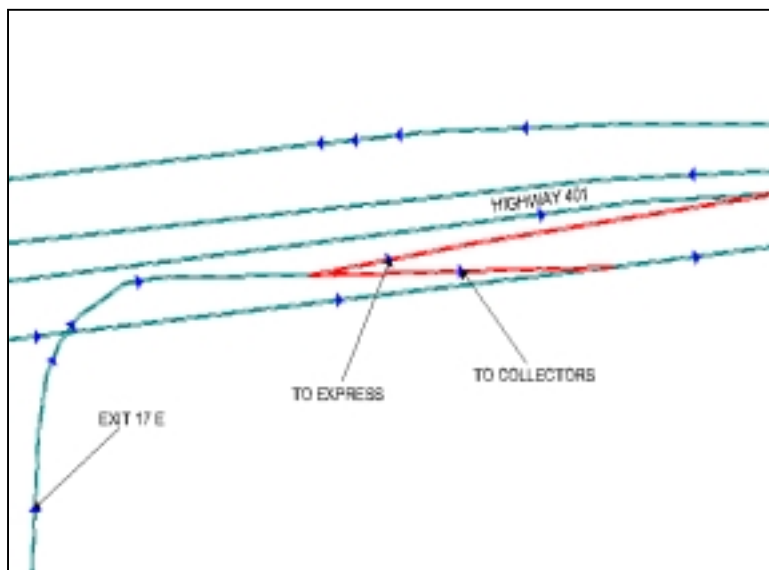


## Data Dictionary (*cont'd*)

**Diagram C** – Naming conventions in Accessing and Exiting Collector and Express Lanes  
(Highway 400 in the Greater Toronto Area in Ontario)

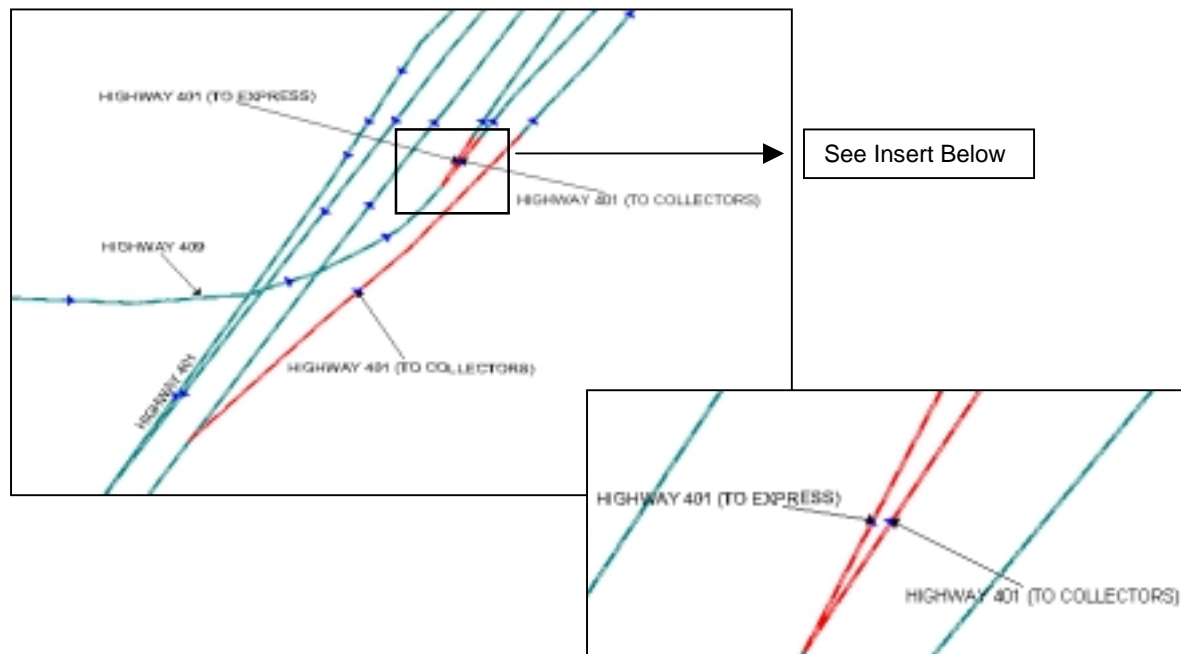


**Diagram D** – Exiting an Off Ramp with a choice to take Express or Collector Lanes (Scenario 1)

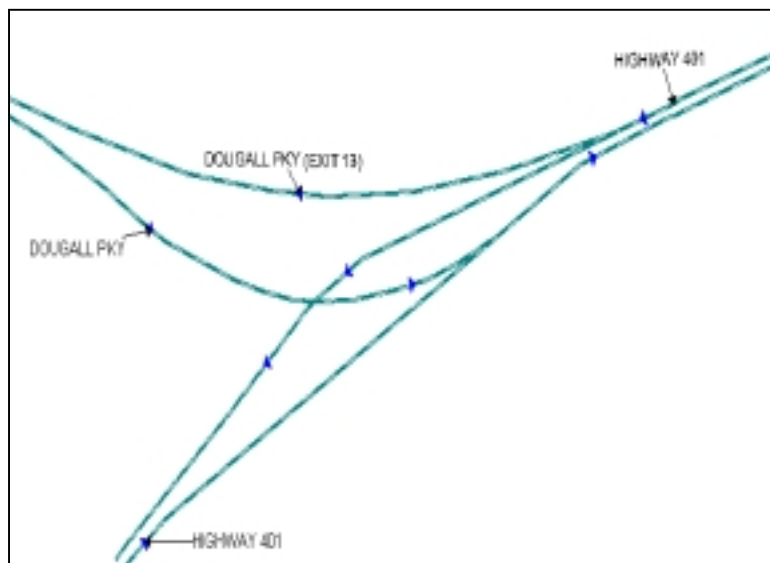


## Data Dictionary (*cont'd*)

**Diagram E – Exiting an Off Ramp with a choice to take Express or Collector Lanes (Scenario 2)**

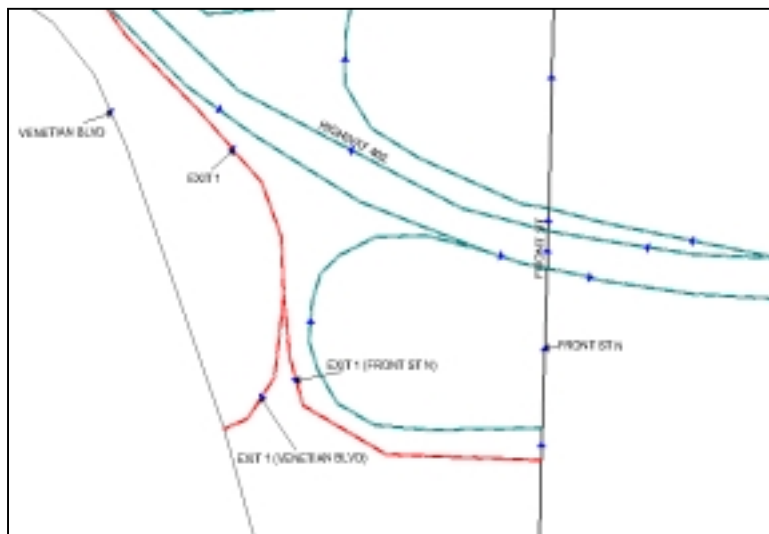


**Diagram F – Named Road Segment acting as an Off Ramp**

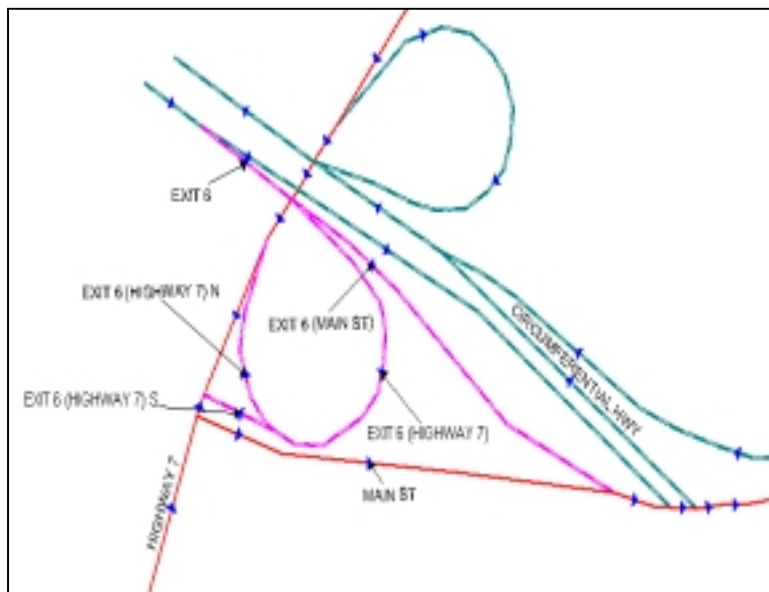


## Data Dictionary (*cont'd*)

**Diagram G** – Multiple Exits from one Off Ramp



**Diagram H** – Multiple Exits from one Off Ramp with Direction



## Appendix A: ESRI® File Extensions

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Refer to the following table for descriptions of ESRI file extensions. All file extensions are not available for all DMTI products.

| File Extension | ArcView | ArcGIS | Both | File Description                |
|----------------|---------|--------|------|---------------------------------|
| *.shp          |         |        | x    | Part of standard ESRI Shapefile |
| *.shx          |         |        | x    | Part of standard ESRI Shapefile |
| *.dbf          |         |        | x    | Part of standard ESRI Shapefile |
| *.aih          | x       |        |      | Part of Attribute Index         |
| *.ain          | x       |        |      | Part of Attribute Index         |
| *.sbn          |         |        | x    | Part of Spatial Index           |
| *.sbx          |         |        | x    | Part of Spatial Index           |
| *.avl          | x       |        |      | Legend Properties               |
| *.lyr          |         | x      |      | Layer Properties                |
| *.prj          |         | x      |      | Datum and Projection Properties |
| *.apr          | x       |        |      | ArcView Project file            |
| *.mxd          |         | x      |      | ArcGIS Project file             |

## Appendix B: MapInfo® Professional File Extensions

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Refer to the following table for descriptions of MapInfo file extensions.

| File Extension | File Description |
|----------------|------------------|
| *.dat          | Attribute Data   |
| *.id           | Graphic Index    |
| *.ind          | Attribute Index  |
| *.map          | Graphic Data     |
| *.tab          | Tab File         |
| *.wor          | Workspace        |

## Appendix C: Street Types and Street Directions<sup>35</sup>

### Street Types

Street Types used in the CanMap<sup>®</sup> suite of products correspond to the standard abbreviations used by Canada Post. The Language column distinguishes between street types in English (E) and street types in French (F).

| Street Type | Abbreviation | Language |
|-------------|--------------|----------|
| Abbey       | ABBEY        | E        |
| Acres       | ACRES        | E        |
| Allée       | ALLÉE        | F        |
| Alley       | ALLEY        | E        |
| Autoroute   | AUT          | F        |
| Avenue      | AV           | F        |
| Avenue      | AVE          | E        |
| Bay         | BAY          | E        |
| Beach       | BEACH        | E        |
| Bend        | BEND         | E        |
| Boulevard   | BLVD         | E        |
| Boulevard   | BOUL         | F        |
| By-Pass     | BYPASS       | E        |
| Byway       | BYWAY        | E        |
| Centre      | C            | F        |
| Campus      | CAMPUS       | E        |
| Cape        | CAPE         | E        |
| Carr        | CAR          | F        |
| Carrefour   | CARREF       | F        |
| Cul-de-sac  | CDS          | E        |
| Cercle      | CERCLE       | F        |
| Chemin      | CH           | F        |
| Chase       | CHASE        | E        |
| Circle      | CIR          | E        |
| Circuit     | CIRCT        | E        |
| Close       | CLOSE        | E        |
| Common      | COMMON       | E        |
| Concession  | CONC         | E        |
| Côte        | CÔTE         | F        |
| Cour        | COUR         | F        |
| Cours       | COURS        | F        |
| Cove        | COVE         | E        |

| Street Type | Abbreviation | Language |
|-------------|--------------|----------|
| Crescent    | CRES         | E        |
| Corners     | CRNRS        | E        |
| Croissant   | CROIS        | F        |
| Crossing    | CROSS        | E        |
| Court       | CRT          | E        |
| Centre      | CTR          | E        |
| Dale        | DALE         | E        |
| Dell        | DELL         | E        |
| Diversion   | DIVERS       | E        |
| Downs       | DOWNS        | E        |
| Drive       | DR           | E        |
| Échangeur   | ÉCH          | F        |
| End         | END          | E        |
| Esplanade   | ESPL         | E        |
| Estates     | ESTATE       | E        |
| Expressway  | EXPY         | E        |
| Extension   | EXTEN        | E        |
| Farm        | FARM         | E        |
| Field       | FIELD        | E        |
| Forest      | FOREST       | E        |
| Front       | FRONT        | E        |
| Freeway     | FWY          | E        |
| Gate        | GATE         | E        |
| Gardens     | GDNS         | E        |
| Glade       | GLADE        | E        |
| Glen        | GLEN         | E        |
| Green       | GREEN        | E        |
| Grounds     | GRNDS        | E        |
| Grove       | GROVE        | E        |
| Harbour     | HARBR        | E        |
| Heath       | HEATH        | E        |
| Highlands   | HGHLDS       | E        |

<sup>35</sup> Source: Canada Post Corporation, The Canadian Addressing Guide, October 2002



## Appendix C: Street Types and Street Directions (*cont'd*)

| Street Type | Abbreviation | Language |
|-------------|--------------|----------|
| Hill        | HILL         | E        |
| Hollow      | HOLLOW       | E        |
| Heights     | HTS          | E        |
| Highway     | HWY          | E        |
| Île         | ÎLE          | F        |
| Impasse     | IMP          | E        |
| Inlet       | INLET        | E        |
| Island      | ISLAND       | E        |
| Key         | KEY          | E        |
| Knoll       | KNOLL        | E        |
| Landing     | LANDNG       | E        |
| Lane        | LANE         | E        |
| Line        | LINE         | E        |
| Link        | LINK         | E        |
| Lookout     | LKOUT        | E        |
| Limits      | LMTS         | E        |
| Loop        | LOOP         | E        |
| Mall        | MALL         | E        |
| Manor       | MANOR        | E        |
| Maze        | MAZE         | E        |
| Meadow      | MEADOW       | E        |
| Mews        | MEWS         | E        |
| Montée      | MONTÉE       | F        |
| Moor        | MOOR         | E        |
| Mount       | MOUNT        | E        |
| Mountain    | MTN          | E        |
| Orchard     | ORCH         | E        |
| Parade      | PARADE       | E        |
| Parc        | PARC         | F        |
| Passage     | PASS         | E        |
| Path        | PATH         | E        |
| Pines       | PINES        | E        |
| Park        | PK           | E        |
| Parkway     | PKY          | E        |
| Pathway     | PTWAY        | E        |
| Place       | PL           | E        |
| Place       | PLACE        | F        |
| Plateau     | PLAT         | E        |
| Plaza       | PLAZA        | E        |
| Port        | PORT         | E        |
| Point       | PT           | E        |
| Pointe      | POINTE       | F        |

| Street Type | Abbreviation | Language |
|-------------|--------------|----------|
| Private     | PVT          | E        |
| Promenade   | PROM         | E        |
| Quai        | QUAI         | F        |
| Quay        | QUAY         | E        |
| Ramp        | RAMP         | E        |
| Rang        | RANG         | F        |
| Road        | RD           | E        |
| Rond-point  | RDPT         | F        |
| Range       | RG           | E        |
| Ridge       | RIDGE        | E        |
| Rise        | RISE         | E        |
| Ruelle      | RLE          | F        |
| Row         | ROW          | E        |
| Route       | RTE          | E        |
| Rue         | RUE          | F        |
| Run         | RUN          | E        |
| Sentier     | SENT         | E        |
| Square      | SQ           | E        |
| Street      | ST           | E        |
| Subdivision | SUBDIV       | E        |
| Terrace     | TERR         | E        |
| Thicket     | THICK        | E        |
| Townline    | TLINE        | E        |
| Towers      | TOWERS       | E        |
| Trail       | TRAIL        | E        |
| Turnabout   | TRNABT       | E        |
| Terrasse    | TSSE         | F        |
| Vale        | VALE         | E        |
| Via         | VIA          | E        |
| View        | VIEW         | E        |
| Villas      | VILLAS       | E        |
| Village     | VILLGE       | E        |
| Vista       | VISTA        | E        |
| Voie        | VOIE         | F        |
| Walk        | WALK         | E        |
| Way         | WAY          | E        |
| Wharf       | WHARF        | E        |
| Wood        | WOOD         | E        |
| Wynd        | WYND         | E        |

## Appendix C: Street Types and Street Directions (*cont'd*)

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### Street Directions

Street Directions used in the CanMap<sup>®</sup> suite of products correspond to the standard abbreviations used by Canada Post. The Language column distinguishes between street types in English (E) and street types in French (F).

| Street Direction | Abbreviation | Language |
|------------------|--------------|----------|
| East             | E            | E        |
| Est              | E            | F        |
| Nord             | N            | F        |
| NordEst          | NE           | F        |
| NordOuest        | NO           | F        |
| North            | N            | E        |
| NorthEast        | NE           | E        |
| NorthWest        | NW           | E        |
| Ouest            | O            | F        |
| South            | S            | E        |
| SouthEast        | SE           | E        |
| SouthWest        | SW           | E        |
| Sud              | S            | F        |
| SudEst           | SE           | F        |
| SudOuest         | SO           | F        |
| West             | W            | E        |

## Appendix D: Cartographic Road and Rail Classifications

| Carto # | Carto Name           | Description   |
|---------|----------------------|---|
| 1       | Expressway           | Expressways and 400 series highways, e.g. Highway 401, Don Valley Parkway               |
| 2       | Primary Highway      | Primary Highway, e.g. Highway 7, Highway 11   |
| 3       | Secondary Highway    | Secondary Highways  |
| 4       | Major Road           | Major road or Arterial road, e.g. Bayview Ave   |
| 5       | Local Road           | Subdivision road in a city or gravel road in a rural area                               |
| 6       | Trail                | Trails  |
| 10      | Main                 | Main Railway and Transit Lines (includes segments of rail that are shared with transit) |
| 11      | Sidetrack            | Sidetrack of Main Railway Route   |
| 12      | Abandoned            | Abandoned sections of Main Railway Route  |
| 13      | Transit              | Transit lines that are not shared with Railway lines                                    |
| 20      | Ferry Route          | Approximate travel route of Ferry   |
| 21      | Ferry Ramp           | Ferry Ramp  |
| 22      | Ice Road             | Approximate travel route of Ice Road  |
| 23      | Ice Ramp             | Ice Ramp  |
| 24      | Ferry Route/Ice Road | Approximate travel route of Ferry/Ice Road  |
| 25      | Ferry/Ice Ramp       | Ferry/Ice Ramp  |

## Appendix E: Routing Hierarchy

Routing Hierarchy consists of six routes representing Canada's high priority road corridors. These corridors consist of interconnecting roads and highways that link capital cities, major provincial population centers and important border crossing points.

- Route 1 - links Canada's national/provincial capitals to cities with populations over 50 000
- Route 2 - links cities with populations between 20 000 and 50 000 and highways that service major border crossings
- Route 3 - links cities with populations between 10 000 and 20 000
- Route 4 - links cities with populations below 10 000
- Route 5 - consists of intercity routes currently present within 6 of the major urban centers (Toronto, Ottawa, Montreal, Vancouver, Victoria and Calgary)
- Route 6 - identifies all other segments within the CanMap file that have not already been identified as being a part of Routes 1 to 5.

### Route 1 Cities

| Name           | Prov | CSD Name       | Pop 1996  |
|----------------|------|----------------|-----------|
| Montréal       | QC   | MONTRÉAL       | 1,016,376 |
| Calgary        | AB   | CALGARY        | 768,082   |
| Toronto        | ON   | TORONTO        | 653,734   |
| Winnipeg       | MB   | WINNIPEG       | 618,477   |
| Edmonton       | AB   | EDMONTON       | 616,306   |
| Mississauga    | ON   | MISSISSAUGA    | 544,382   |
| Vancouver      | BC   | VANCOUVER      | 514,008   |
| Laval          | QC   | LAVAL          | 330,393   |
| London         | ON   | LONDON         | 325,646   |
| Ottawa         | ON   | OTTAWA         | 323,340   |
| Hamilton       | ON   | HAMILTON       | 322,352   |
| Surrey         | BC   | SURREY         | 304,477   |
| Brampton       | ON   | BRAMPTON       | 268,251   |
| Windsor        | ON   | WINDSOR        | 197,694   |
| Saskatoon      | SK   | SASKATOON      | 193,647   |
| Regina         | SK   | REGINA         | 180,400   |
| Burnaby        | BC   | BURNABY        | 179,209   |
| Kitchener      | ON   | KITCHENER      | 178,420   |
| Québec         | QC   | QUÉBEC         | 167,264   |
| Richmond       | BC   | RICHMOND       | 148,867   |
| Burlington     | ON   | BURLINGTON     | 136,976   |
| Oshawa         | ON   | OSHAWA         | 134,364   |
| Vaughan        | ON   | VAUGHAN        | 132,549   |
| St. Catharines | ON   | ST. CATHARINES | 130,926   |
| Longueuil      | QC   | LONGUEUIL      | 127,977   |
| Nepean         | ON   | NEPEAN         | 115,100   |
| Sydney         | NS   | CAPE BRETON    | 114,733   |
| Halifax        | NS   | HALIFAX        | 113,910   |
| Thunder Bay    | ON   | THUNDER BAY    | 113,662   |
| Abbotsford     | BC   | ABBOTSFORD     | 105,403   |

## Appendix E: Routing Hierarchy (cont'd)

| Name             | Prov | CSD Name         | Pop 1996 |
|------------------|------|------------------|----------|
| Gloucester       | ON   | GLOUCESTER       | 104,022  |
| St. John's       | NF   | ST. JOHN'S       | 101,936  |
| Coquitlam        | BC   | COQUITLAM        | 101,820  |
| Cambridge        | ON   | CAMBRIDGE        | 101,429  |
| Gatineau         | QC   | GATINEAU         | 100,702  |
| Guelph           | ON   | GUELPH           | 95,821   |
| Sudbury          | ON   | SUDBURY          | 92,059   |
| Kelowna          | BC   | KELOWNA          | 89,442   |
| Brantford        | ON   | BRANTFORD        | 84,764   |
| Sault Ste. Marie | ON   | SAULT STE. MARIE | 80,054   |
| Barrie           | ON   | BARRIE           | 79,191   |
| Waterloo         | ON   | WATERLOO         | 77,949   |
| Niagara Falls    | ON   | NIAGARA FALLS    | 76,917   |
| Sherbrooke       | QC   | SHERBROOKE       | 76,786   |
| Kamloops         | BC   | KAMLOOPS         | 76,394   |
| Prince George    | BC   | PRINCE GEORGE    | 75,150   |
| Victoria         | BC   | VICTORIA         | 73,504   |
| Beauport         | QC   | BEAUPORT         | 72,920   |
| Sarnia           | ON   | SARNIA           | 72,738   |
| Saint John       | NB   | SAINT JOHN       | 72,494   |
| Charlesbourg     | QC   | CHARLESBOURG     | 70,942   |
| Nanaimo          | BC   | NANAIMO          | 70,130   |
| Peterborough     | ON   | PETERBOROUGH     | 69,535   |
| Dartmouth        | NS   | DARTMOUTH        | 65,629   |
| Chicoutimi       | QC   | CHICOUTIMI       | 63,061   |
| Lethbridge       | AB   | LETHBRIDGE       | 63,053   |
| Hull             | QC   | HULL             | 62,339   |
| Chilliwack       | BC   | CHILLIWACK       | 60,186   |
| Red Deer         | AB   | RED DEER         | 60,075   |
| Moncton          | NB   | MONCTON          | 59,313   |
| Jonquière        | QC   | JONQUIÈRE        | 56,503   |
| Kingston         | ON   | KINGSTON         | 55,947   |
| North Bay        | ON   | NORTH BAY        | 54,332   |
| Stoney Creek     | ON   | STONEY CREEK     | 54,318   |
| Fredericton      | NB   | FREDERICTON      | 46,507   |
| Charlottetown    | PE   | CHARLOTTETOWN    | 32,531   |
| Whitehorse       | YT   | WHITEHORSE       | 19,157   |
| Yellowknife      | NT   | YELLOWKNIFE      | 17,275   |

## Appendix E: Routing Hierarchy (cont'd)

### Route 2 Cities

| Name            | Prov | CSD Name        | Pop 1996 |
|-----------------|------|-----------------|----------|
| New Westminster | BC   | NEW WESTMINSTER | 49,350   |
| Trois-Rivières  | QC   | TROIS-RIVIÈRES  | 48,419   |
| Welland         | ON   | WELLAND         | 48,411   |
| Kanata          | ON   | KANATA          | 47,909   |
| Timmins         | ON   | TIMMINS         | 47,499   |
| Cornwall        | ON   | CORNWALL        | 47,403   |
| St. Albert      | AB   | ST. ALBERT      | 46,888   |
| Medicine Hat    | AB   | MEDICINE HAT    | 46,783   |
| Port Coquitlam  | BC   | PORT COQUITLAM  | 46,682   |
| Chatham         | ON   | CHATHAM         | 43,409   |
| North Vancouver | BC   | NORTH VANCOUVER | 41,475   |
| Brandon         | MB   | BRANDON         | 39,175   |
| Belleville      | ON   | BELLEVILLE      | 37,083   |
| Prince Albert   | SK   | PRINCE ALBERT   | 34,777   |
| Moose Jaw       | SK   | MOOSE JAW       | 32,973   |
| St. Thomas      | ON   | ST. THOMAS      | 32,275   |
| Woodstock       | ON   | WOODSTOCK       | 32,086   |
| Vernon          | BC   | VERNON          | 31,817   |
| Grande Prairie  | AB   | GRANDE PRAIRIE  | 31,140   |
| Penticton       | BC   | PENTICTON       | 30,987   |
| Mission         | BC   | MISSION         | 30,519   |
| Stratford       | ON   | STRATFORD       | 28,987   |
| Orillia         | ON   | ORILLIA         | 27,846   |
| Mount Pearl     | NF   | MOUNT PEARL     | 25,519   |
| Nanticoke       | ON   | NANTICOKE       | 23,485   |
| Langley         | BC   | LANGLEY         | 22,523   |
| Corner Brook    | NF   | CORNER BROOK    | 21,893   |
| Brockville      | ON   | BROCKVILLE      | 21,752   |
| Owen Sound      | ON   | OWEN SOUND      | 21,390   |
| Port Moody      | BC   | PORT MOODY      | 20,847   |

## Appendix E: Routing Hierarchy (cont'd)

### Route 3 Cities

| Name               | Prov | CSD Name            | Pop 1996 |
|--------------------|------|---------------------|----------|
| Miramichi          | NB   | MIRAMICHI           | 19,241   |
| Port Alberni       | BC   | PORT ALBERNI        | 18,468   |
| Port Colborne      | ON   | PORT COLBORNE       | 18,451   |
| Cranbrook          | BC   | CRANBROOK           | 18,131   |
| Thorold            | ON   | THOROLD             | 17,883   |
| Courtenay          | BC   | COURTENAY           | 17,335   |
| Vanier             | ON   | VANIER              | 17,247   |
| White Rock         | BC   | WHITE ROCK          | 17,210   |
| Prince Rupert      | BC   | PRINCE RUPERT       | 16,714   |
| Quinte West        | ON   | SIDNEY              | 16,172   |
| Airdrie            | AB   | AIRDRIE             | 15,946   |
| Yorkton            | SK   | YORKTON             | 15,154   |
| Fort St. John      | BC   | FORT ST. JOHN       | 15,021   |
| Swift Current      | SK   | SWIFT CURRENT       | 14,890   |
| Summerside         | PE   | SUMMERSIDE          | 14,525   |
| Thompson           | MB   | THOMPSON            | 14,385   |
| Leduc              | AB   | LEDUC               | 14,305   |
| Spruce Grove       | AB   | SPRUCE GROVE        | 14,271   |
| Pembroke           | ON   | PEMBROKE            | 14,177   |
| North Battleford   | SK   | NORTH BATTLEFORD    | 14,051   |
| Colwood            | BC   | COLWOOD             | 13,848   |
| Bathurst           | NB   | BATHURST            | 13,815   |
| Camrose            | AB   | CAMROSE             | 13,728   |
| Elliot Lake        | ON   | ELLIOT LAKE         | 13,588   |
| Powell River       | BC   | POWELL RIVER        | 13,131   |
| Portage la Prairie | MB   | PORTAGE LA PRAIRIE  | 13,077   |
| Terrace            | BC   | TERRACE             | 12,779   |
| Fort Saskatchewan  | AB   | FORT SASKATCHEWAN   | 12,408   |
| Lloydminster       | AB   | LLOYDMINSTER (PART) | 11,317   |
| Dawson Creek       | BC   | DAWSON CREEK        | 11,125   |
| Edmundston         | NB   | EDMUNDSTON          | 11,033   |
| Wetaskiwin         | AB   | WETASKIWIN          | 10,959   |
| Estevan            | SK   | ESTEVAN             | 10,752   |
| Williams Lake      | BC   | WILLIAMS LAKE       | 10,472   |
| Kenora             | ON   | KENORA              | 10,063   |

## Appendix E: Routing Hierarchy (cont'd)

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### Route 4 Cities

| Name         | Prov | CSD Name            | Pop 1996 |
|--------------|------|---------------------|----------|
| Weyburn      | SK   | WEYBURN             | 9,723    |
| Nelson       | BC   | NELSON              | 9,585    |
| Parksville   | BC   | PARKSVILLE          | 9,472    |
| Quesnel      | BC   | QUESNEL             | 8,468    |
| Campbellton  | NB   | CAMPBELLTON         | 8,404    |
| Revelstoke   | BC   | REVELSTOKE          | 8,047    |
| Trail        | BC   | TRAIL               | 7,696    |
| Lloydminster | SK   | LLOYDMINSTER (PART) | 7,636    |
| Merritt      | BC   | MERRITT             | 7,631    |
| Castlegar    | BC   | CASTLEGAR           | 7,027    |
| Kimberley    | BC   | KIMBERLEY           | 6,738    |
| Dryden       | ON   | DRYDEN              | 6,711    |
| Drumheller   | AB   | DRUMHELLER          | 6,587    |
| Flin Flon    | MB   | FLIN FLON           | 6,861    |
| Brant        | ON   | BRANTFORD           | 6,487    |
| Melfort      | SK   | MELFORT             | 5,759    |
| Carbonear    | NF   | CARBONEAR           | 5,168    |
| Fernie       | BC   | FERNIE              | 4,877    |
| Melville     | SK   | MELVILLE            | 4,646    |
| Duncan       | BC   | DUNCAN              | 4,583    |
| Cold Lake    | AB   | GRAND CENTRE        | 4,176    |
| Grand Forks  | BC   | GRAND FORKS         | 3,994    |
| Armstrong    | BC   | ARMSTRONG           | 3,906    |
| Rossland     | BC   | ROSSLAND            | 3,802    |
| Enderby      | BC   | ENDERBY             | 2,754    |
| Greenwood    | BC   | GREENWOOD           | 784      |



## Appendix F: Transportation Route Restrictions

| PROV | CSD_NAME            | CMA Boundary |
|------|---------------------|--------------|
| AB   | AIRDRIE             | CALGARY      |
| AB   | BEISEKER            | CALGARY      |
| AB   | CALGARY             | CALGARY      |
| AB   | CHESTERMERE         | CALGARY      |
| AB   | COCHRANE            | CALGARY      |
| AB   | CROSSFIELD          | CALGARY      |
| AB   | IRRICANA            | CALGARY      |
| AB   | ROCKY VIEW NO. 44   | CALGARY      |
| AB   | SARCEE 145          | CALGARY      |
| AB   | ALEXANDER 134       | EDMONTON     |
| AB   | BEAUMONT            | EDMONTON     |
| AB   | BETULA BEACH        | EDMONTON     |
| AB   | BON ACCORD          | EDMONTON     |
| AB   | BRUDERHEIM          | EDMONTON     |
| AB   | CALMAR              | EDMONTON     |
| AB   | DEVON               | EDMONTON     |
| AB   | EDMONTON            | EDMONTON     |
| AB   | EDMONTON BEACH      | EDMONTON     |
| AB   | ENTWISTLE           | EDMONTON     |
| AB   | FORT SASKATCHEWAN   | EDMONTON     |
| AB   | GIBBONS             | EDMONTON     |
| AB   | GOLDEN DAYS         | EDMONTON     |
| AB   | ITASKA BEACH        | EDMONTON     |
| AB   | KAPASIWIN           | EDMONTON     |
| AB   | LAKEVIEW            | EDMONTON     |
| AB   | LEDUC               | EDMONTON     |
| AB   | LEDUC COUNTY NO. 25 | EDMONTON     |
| AB   | LEGAL               | EDMONTON     |
| AB   | MORINVILLE          | EDMONTON     |
| AB   | NEW SAREPTA         | EDMONTON     |
| AB   | PARKLAND COUNTY     | EDMONTON     |
| AB   | POINT ALISON        | EDMONTON     |
| AB   | REDWATER            | EDMONTON     |
| AB   | SEBA BEACH          | EDMONTON     |
| AB   | SPRUCE GROVE        | EDMONTON     |
| AB   | ST. ALBERT          | EDMONTON     |
| AB   | STONY PLAIN         | EDMONTON     |
| AB   | STONY PLAIN 135     | EDMONTON     |
| AB   | STRATHCONA COUNTY   | EDMONTON     |
| AB   | STURGEON NO. 90     | EDMONTON     |
| AB   | SUNDANCE BEACH      | EDMONTON     |

## Appendix F: Transportation Route Restrictions (cont'd)

| PROV | CSD_NAME                   | CMA Boundary |
|------|----------------------------|--------------|
| AB   | THORSBY                    | EDMONTON     |
| AB   | WABAMUN                    | EDMONTON     |
| AB   | WABAMUN 133A               | EDMONTON     |
| AB   | WARBURG                    | EDMONTON     |
| BC   | ANMORE                     | VANCOUVER    |
| BC   | BARNSTON ISLAND 3          | VANCOUVER    |
| BC   | BELCARRA                   | VANCOUVER    |
| BC   | BURNABY                    | VANCOUVER    |
| BC   | BURRARD INLET 3            | VANCOUVER    |
| BC   | CAPILANO 5                 | VANCOUVER    |
| BC   | COQUITLAM                  | VANCOUVER    |
| BC   | COQUITLAM 1                | VANCOUVER    |
| BC   | COQUITLAM 2                | VANCOUVER    |
| BC   | DELTA                      | VANCOUVER    |
| BC   | GREATER VANCOUVER, SUBD. A | VANCOUVER    |
| BC   | KATZIE 1                   | VANCOUVER    |
| BC   | KATZIE 2                   | VANCOUVER    |
| BC   | LANGLEY                    | VANCOUVER    |
| BC   | LANGLEY                    | VANCOUVER    |
| BC   | LANGLEY 5                  | VANCOUVER    |
| BC   | LIONS BAY                  | VANCOUVER    |
| BC   | MAPLE RIDGE                | VANCOUVER    |
| BC   | MATSQUI 4                  | VANCOUVER    |
| BC   | MCMILLAN ISLAND 6          | VANCOUVER    |
| BC   | MISSION 1                  | VANCOUVER    |
| BC   | MUSQUEAM 2                 | VANCOUVER    |
| BC   | MUSQUEAM 4                 | VANCOUVER    |
| BC   | NEW WESTMINSTER            | VANCOUVER    |
| BC   | NORTH VANCOUVER            | VANCOUVER    |
| BC   | NORTH VANCOUVER            | VANCOUVER    |
| BC   | PITT MEADOWS               | VANCOUVER    |
| BC   | PORT COQUITLAM             | VANCOUVER    |
| BC   | PORT MOODY                 | VANCOUVER    |
| BC   | RICHMOND                   | VANCOUVER    |
| BC   | SEMAHMOO                   | VANCOUVER    |
| BC   | SEYMOUR CREEK 2            | VANCOUVER    |
| BC   | SURREY                     | VANCOUVER    |
| BC   | TSAWWASSEN                 | VANCOUVER    |
| BC   | UNIVERSITY ENDOWMENT AREA  | VANCOUVER    |
| BC   | VANCOUVER                  | VANCOUVER    |
| BC   | WEST VANCOUVER             | VANCOUVER    |
| BC   | WHITE ROCK                 | VANCOUVER    |
| BC   | WHONNOCK 1                 | VANCOUVER    |

## Appendix F: Transportation Route Restrictions (cont'd)

| PROV | CSD_NAME            | CMA Boundary |
|------|---------------------|--------------|
| BC   | BECHER BAY 1        | VICTORIA     |
| BC   | CAPITAL, SUBD. B    | VICTORIA     |
| BC   | CAPITAL, SUBD. C    | VICTORIA     |
| BC   | CENTRAL SAANICH     | VICTORIA     |
| BC   | COLE BAY 3          | VICTORIA     |
| BC   | COLWOOD             | VICTORIA     |
| BC   | EAST SAANICH 2      | VICTORIA     |
| BC   | ESQUIMALT           | VICTORIA     |
| BC   | ESQUIMALT           | VICTORIA     |
| BC   | HIGHLANDS           | VICTORIA     |
| BC   | LANGFORD            | VICTORIA     |
| BC   | METCHOSIN           | VICTORIA     |
| BC   | NEW SONGHEES 1A     | VICTORIA     |
| BC   | NORTH SAANICH       | VICTORIA     |
| BC   | OAK BAY             | VICTORIA     |
| BC   | SAANICH             | VICTORIA     |
| BC   | SIDNEY              | VICTORIA     |
| BC   | SOOKE 1             | VICTORIA     |
| BC   | SOOKE 2             | VICTORIA     |
| BC   | SOUTH SAANICH 1     | VICTORIA     |
| BC   | UNION BAY 4         | VICTORIA     |
| BC   | VICTORIA            | VICTORIA     |
| BC   | VIEW ROYAL          | VICTORIA     |
| MB   | BROKENHEAD 4        | WINNIPEG     |
| MB   | EAST ST. PAUL       | WINNIPEG     |
| MB   | HEADINGLEY          | WINNIPEG     |
| MB   | RITCHOT             | WINNIPEG     |
| MB   | ROSSER              | WINNIPEG     |
| MB   | SPRINGFIELD         | WINNIPEG     |
| MB   | ST. CLEMENTS        | WINNIPEG     |
| MB   | ST. FRANCOIS XAVIER | WINNIPEG     |
| MB   | TACHE               | WINNIPEG     |
| MB   | WEST ST. PAUL       | WINNIPEG     |
| MB   | WINNIPEG            | WINNIPEG     |
| NB   | BRIGHT              | FREDERICTON  |
| NB   | DEVON 30            | FREDERICTON  |
| NB   | DOUGLAS             | FREDERICTON  |
| NB   | FREDERICTON         | FREDERICTON  |
| NB   | KINGSCLEAR          | FREDERICTON  |
| NB   | KINGSCLEAR 6        | FREDERICTON  |
| NB   | LINCOLN             | FREDERICTON  |
| NB   | MAUGERVILLE         | FREDERICTON  |

## Appendix F: Transportation Route Restrictions (cont'd)

| PROV | CSD_NAME                        | CMA Boundary  |
|------|---------------------------------|---------------|
| NB   | NEW MARYLAND                    | FREDERICTON   |
| NB   | NEW MARYLAND                    | FREDERICTON   |
| NB   | SAINT MARYS                     | FREDERICTON   |
| NB   | SAINT MARY'S 24                 | FREDERICTON   |
| NF   | BAULINE                         | ST. JOHN'S    |
| NF   | BAY BULLS                       | ST. JOHN'S    |
| NF   | CONCEPTION BAY SOUTH            | ST. JOHN'S    |
| NF   | FLATROCK                        | ST. JOHN'S    |
| NF   | LOGY BAY-MIDDLE COVE-OUTER COVE | ST. JOHN'S    |
| NF   | MOUNT PEARL                     | ST. JOHN'S    |
| NF   | PARADISE                        | ST. JOHN'S    |
| NF   | PETTY HARBOUR-MADDOX COVE       | ST. JOHN'S    |
| NF   | PORTUGAL COVE-ST. PHILIP'S      | ST. JOHN'S    |
| NF   | POUCH COVE                      | ST. JOHN'S    |
| NF   | ST. JOHN'S                      | ST. JOHN'S    |
| NF   | TORBAY                          | ST. JOHN'S    |
| NF   | WITLESS BAY                     | ST. JOHN'S    |
| NS   | BEDFORD                         | HALIFAX       |
| NS   | COLE HARBOUR 30                 | HALIFAX       |
| NS   | DARTMOUTH                       | HALIFAX       |
| NS   | HALIFAX                         | HALIFAX       |
| NS   | HALIFAX, SUBD. A                | HALIFAX       |
| NS   | HALIFAX, SUBD. B                | HALIFAX       |
| NS   | HALIFAX, SUBD. C                | HALIFAX       |
| NS   | HALIFAX, SUBD. D                | HALIFAX       |
| NS   | HALIFAX, SUBD. E                | HALIFAX       |
| NS   | SHUBENACADIE 13                 | HALIFAX       |
| NT   | YELLOWKNIFE                     | YELLOWKNIFE   |
| NU   | IQALUIT                         | IQALUIT (CSD) |
| ON   | ANCASTER                        | HAMILTON      |
| ON   | BURLINGTON                      | HAMILTON      |
| ON   | DUNDAS                          | HAMILTON      |
| ON   | FLAMBOROUGH                     | HAMILTON      |
| ON   | GLANBROOK                       | HAMILTON      |
| ON   | GRIMSBY                         | HAMILTON      |
| ON   | HAMILTON                        | HAMILTON      |
| ON   | STONEY CREEK                    | HAMILTON      |
| ON   | CAMBRIDGE                       | OTTAWA        |
| ON   | CASSELMAN                       | OTTAWA        |
| ON   | CLARENCE                        | OTTAWA        |
| ON   | CUMBERLAND                      | OTTAWA        |
| ON   | GLOUCESTER                      | OTTAWA        |
| ON   | GOULBOURN                       | OTTAWA        |

## Appendix F: Transportation Route Restrictions (cont'd)

| PROV | CSD_NAME                  | CMA Boundary  |
|------|---------------------------|---------------|
| ON   | KANATA                    | OTTAWA        |
| ON   | NEPEAN                    | OTTAWA        |
| ON   | OSGOODE                   | OTTAWA        |
| ON   | OTTAWA                    | OTTAWA        |
| ON   | RIDEAU                    | OTTAWA        |
| ON   | ROCKCLIFFE PARK           | OTTAWA        |
| ON   | ROCKLAND                  | OTTAWA        |
| ON   | RUSSELL                   | OTTAWA        |
| ON   | SOUTH GOWER               | OTTAWA        |
| ON   | VANIER                    | OTTAWA        |
| ON   | WEST CARLETON             | OTTAWA        |
| ON   | AJAX                      | TORONTO       |
| ON   | AURORA                    | TORONTO       |
| ON   | BRADFORD WEST Gwillimbury | TORONTO       |
| ON   | BRAMPTON                  | TORONTO       |
| ON   | CALEDON                   | TORONTO       |
| ON   | EAST Gwillimbury          | TORONTO       |
| ON   | EAST YORK                 | TORONTO       |
| ON   | ETOBICOKE                 | TORONTO       |
| ON   | GEORGINA                  | TORONTO       |
| ON   | GEORGINA ISLAND 33        | TORONTO       |
| ON   | HALTON HILLS              | TORONTO       |
| ON   | KING                      | TORONTO       |
| ON   | MARKHAM                   | TORONTO       |
| ON   | MILTON                    | TORONTO       |
| ON   | MISSISSAUGA               | TORONTO       |
| ON   | MONO                      | TORONTO       |
| ON   | NEW TECUMSETH             | TORONTO       |
| ON   | NEWMARKET                 | TORONTO       |
| ON   | NORTH YORK                | TORONTO       |
| ON   | OAKVILLE                  | TORONTO       |
| ON   | ORANGEVILLE               | TORONTO       |
| ON   | PICKERING                 | TORONTO       |
| ON   | RICHMOND HILL             | TORONTO       |
| ON   | SCARBOROUGH               | TORONTO       |
| ON   | TORONTO                   | TORONTO       |
| ON   | UXBRIDGE                  | TORONTO       |
| ON   | VAUGHAN                   | TORONTO       |
| ON   | WHITCHURCH-STOUFFVILLE    | TORONTO       |
| ON   | YORK                      | TORONTO       |
| PE   | BRACKLEY                  | CHARLOTTETOWN |
| PE   | CHARLOTTETOWN             | CHARLOTTETOWN |

## Appendix F: Transportation Route Restrictions (cont'd)

| PROV | CSD_NAME        | CMA Boundary  |
|------|-----------------|---------------|
| PE   | CLYDE RIVER     | CHARLOTTETOWN |
| PE   | CORNWALL        | CHARLOTTETOWN |
| PE   | LOT 31          | CHARLOTTETOWN |
| PE   | LOT 33          | CHARLOTTETOWN |
| PE   | LOT 34          | CHARLOTTETOWN |
| PE   | LOT 35          | CHARLOTTETOWN |
| PE   | LOT 36          | CHARLOTTETOWN |
| PE   | LOT 48          | CHARLOTTETOWN |
| PE   | LOT 49          | CHARLOTTETOWN |
| PE   | LOT 65          | CHARLOTTETOWN |
| PE   | MEADOWBANK      | CHARLOTTETOWN |
| PE   | MILTONVALE PARK | CHARLOTTETOWN |
| PE   | ROCKY POINT 3   | CHARLOTTETOWN |
| PE   | SCOTCHFORT 4    | CHARLOTTETOWN |
| PE   | STRATFORD       | CHARLOTTETOWN |
| PE   | UNION ROAD      | CHARLOTTETOWN |
| PE   | WARREN GROVE    | CHARLOTTETOWN |
| PE   | WINSLOE SOUTH   | CHARLOTTETOWN |
| QC   | AYLMER          | HULL          |
| QC   | BUCKINGHAM      | HULL          |
| QC   | CANTLEY         | HULL          |
| QC   | CHELSEA         | HULL          |
| QC   | GATINEAU        | HULL          |
| QC   | HULL            | HULL          |
| QC   | LA PECHE        | HULL          |
| QC   | MASSON-ANGERS   | HULL          |
| QC   | PONTIAC         | HULL          |
| QC   | VAL-DES-MONTS   | HULL          |
| QC   | ANJOU           | MONTREAL      |
| QC   | BAIE-D'URFE     | MONTREAL      |
| QC   | BEACONSFIELD    | MONTREAL      |
| QC   | BEAUHARNOIS     | MONTREAL      |
| QC   | BELLEFEUILLE    | MONTREAL      |
| QC   | BELOEIL         | MONTREAL      |
| QC   | BLAINVILLE      | MONTREAL      |
| QC   | BOISBRIAND      | MONTREAL      |
| QC   | BOIS-DES-FILION | MONTREAL      |
| QC   | BOUCHERVILLE    | MONTREAL      |
| QC   | BROSSARD        | MONTREAL      |
| QC   | CANDIAC         | MONTREAL      |
| QC   | CARIGNAN        | MONTREAL      |
| QC   | CHAMBLY         | MONTREAL      |
| QC   | CHARLEMAGNE     | MONTREAL      |

## Appendix F: Transportation Route Restrictions (cont'd)

| PROV | CSD_NAME            | CMA Boundary |
|------|---------------------|--------------|
| QC   | CHATEAUGUAY         | MONTREAL     |
| QC   | COTE-SAINT-LUC      | MONTREAL     |
| QC   | DELSON              | MONTREAL     |
| QC   | DEUX-MONTAGNES      | MONTREAL     |
| QC   | DOLLARD-DES-ORMEAUX | MONTREAL     |
| QC   | DORVAL              | MONTREAL     |
| QC   | GORE                | MONTREAL     |
| QC   | GREENFIELD PARK     | MONTREAL     |
| QC   | HAMPSTEAD           | MONTREAL     |
| QC   | HUDSON              | MONTREAL     |
| QC   | KAHNAWAKE 14        | MONTREAL     |
| QC   | KANESATAKE          | MONTREAL     |
| QC   | KIRKLAND            | MONTREAL     |
| QC   | LA PLAINE           | MONTREAL     |
| QC   | LA PRAIRIE          | MONTREAL     |
| QC   | LACHENAIE           | MONTREAL     |
| QC   | LACHINE             | MONTREAL     |
| QC   | LAFONTAINE          | MONTREAL     |
| QC   | LASALLE             | MONTREAL     |
| QC   | L'ASSOMPTION        | MONTREAL     |
| QC   | LAVAL               | MONTREAL     |
| QC   | LAVALTRIE           | MONTREAL     |
| QC   | LE GARDEUR          | MONTREAL     |
| QC   | LEMOYNE             | MONTREAL     |
| QC   | LERY                | MONTREAL     |
| QC   | LES CEDRES          | MONTREAL     |
| QC   | L'ILE-BIZARD        | MONTREAL     |
| QC   | L'ILE-CADIEUX       | MONTREAL     |
| QC   | L'ILE-DORVAL        | MONTREAL     |
| QC   | L'ILE-PERROT        | MONTREAL     |
| QC   | LONGUEUIL           | MONTREAL     |
| QC   | LORRAINE            | MONTREAL     |
| QC   | MAPLE GROVE         | MONTREAL     |
| QC   | MASCOUCHE           | MONTREAL     |
| QC   | MCMASTERVILLE       | MONTREAL     |
| QC   | MELOCHEVILLE        | MONTREAL     |
| QC   | MERCIER             | MONTREAL     |
| QC   | MIRABEL             | MONTREAL     |
| QC   | MONTREAL            | MONTREAL     |
| QC   | MONTREAL-EST        | MONTREAL     |
| QC   | MONTREAL-NORD       | MONTREAL     |
| QC   | MONTREAL-OUEST      | MONTREAL     |

## Appendix F: Transportation Route Restrictions (cont'd)

| PROV | CSD_NAME                   | CMA Boundary |
|------|----------------------------|--------------|
| QC   | MONT-ROYAL                 | MONTREAL     |
| QC   | MONT-SAINT-HILAIRE         | MONTREAL     |
| QC   | NOTRE-DAME-DE-BON-SECOURS  | MONTREAL     |
| QC   | NOTRE-DAME-DE-L'ILE-PERROT | MONTREAL     |
| QC   | OKA                        | MONTREAL     |
| QC   | OKA                        | MONTREAL     |
| QC   | OTTERBURN PARK             | MONTREAL     |
| QC   | OUTREMONT                  | MONTREAL     |
| QC   | PIERREFONDS                | MONTREAL     |
| QC   | PINCOURT                   | MONTREAL     |
| QC   | POINTE-CALUMET             | MONTREAL     |
| QC   | POINTE-CLAIRE              | MONTREAL     |
| QC   | POINTE-DES-CASCADES        | MONTREAL     |
| QC   | REPENTIGNY                 | MONTREAL     |
| QC   | RICHELIEU                  | MONTREAL     |
| QC   | ROSEMERIE                  | MONTREAL     |
| QC   | ROXBORO                    | MONTREAL     |
| QC   | SAINT-AMABLE               | MONTREAL     |
| QC   | SAINT-ANTOINE              | MONTREAL     |
| QC   | SAINT-ANTOINE-DE-LAVALTRIE | MONTREAL     |
| QC   | SAINT-BASILE-LE-GRAND      | MONTREAL     |
| QC   | SAINT-BRUNO-DE-MONTARVILLE | MONTREAL     |
| QC   | SAINT-COLOMBAN             | MONTREAL     |
| QC   | SAINT-CONSTANT             | MONTREAL     |
| QC   | SAINTE-ANNE-DE-BELLEVUE    | MONTREAL     |
| QC   | SAINTE-ANNE-DES-PLAINES    | MONTREAL     |
| QC   | SAINTE-CATHERINE           | MONTREAL     |
| QC   | SAINTE-GENEVIEVE           | MONTREAL     |
| QC   | SAINTE-JULIE               | MONTREAL     |
| QC   | SAINTE-MARTHE-SUR-LE-LAC   | MONTREAL     |
| QC   | SAINTE-THERESE             | MONTREAL     |
| QC   | SAINT-EUSTACHE             | MONTREAL     |
| QC   | SAINT-GERARD-MAJELLA       | MONTREAL     |
| QC   | SAINT-HUBERT               | MONTREAL     |
| QC   | SAINT-ISIDORE              | MONTREAL     |
| QC   | SAINT-JEROME               | MONTREAL     |
| QC   | SAINT-JOSEPH-DU-LAC        | MONTREAL     |
| QC   | SAINT-LAMBERT              | MONTREAL     |
| QC   | SAINT-LAURENT              | MONTREAL     |
| QC   | SAINT-LAZARE               | MONTREAL     |



## Appendix F: Transportation Route Restrictions (cont'd)

| PROV | CSD_NAME                               | CMA Boundary |
|------|--|--------------|
| QC   | SAINT-LEONARD                          | MONTREAL     |
| QC   | SAINT-MATHIAS-SUR-RICHELIEU            | MONTREAL     |
| QC   | SAINT-MATHIEU                          | MONTREAL     |
| QC   | SAINT-MATHIEU-DE-BELOEIL               | MONTREAL     |
| QC   | SAINT-PHILIPPE                         | MONTREAL     |
| QC   | SAINT-PIERRE                           | MONTREAL     |
| QC   | SAINT-PLACIDE                          | MONTREAL     |
| QC   | SAINT-SULPICE                          | MONTREAL     |
| QC   | SENNEVILLE                             | MONTREAL     |
| QC   | TERRASSE-VAUDREUIL                     | MONTREAL     |
| QC   | TERREBONNE                             | MONTREAL     |
| QC   | VARENNES                               | MONTREAL     |
| QC   | VAUDREUIL-DORION                       | MONTREAL     |
| QC   | VAUDREUIL-SUR-LE-LAC                   | MONTREAL     |
| QC   | VERDUN                                 | MONTREAL     |
| QC   | WESTMOUNT                              | MONTREAL     |
| QC   | BEAUPORT                               | QUEBEC       |
| QC   | BERNIERES-SAINT-NICOLAS                | QUEBEC       |
| QC   | BOISCHATEL                             | QUEBEC       |
| QC   | CAP-ROUGE                              | QUEBEC       |
| QC   | CHARLESBOURG                           | QUEBEC       |
| QC   | CHARNY                                 | QUEBEC       |
| QC   | CHÂTEAU-RICHER                         | QUEBEC       |
| QC   | FOSSAMBAULT-SUR-LE-LAC                 | QUEBEC       |
| QC   | LAC-BEAUPORT                           | QUEBEC       |
| QC   | LAC-DELAGE                             | QUEBEC       |
| QC   | LAC-SAINT-CHARLES                      | QUEBEC       |
| QC   | LAC-SAINT-JOSEPH                       | QUEBEC       |
| QC   | L'ANCIENNE-LORETTE                     | QUEBEC       |
| QC   | L'ANGE-GARDIEN                         | QUEBEC       |
| QC   | LEVIS                                  | QUEBEC       |
| QC   | LORETTEVILLE                           | QUEBEC       |
| QC   | NOTRE-DAME-DES-ANGES                   | QUEBEC       |
| QC   | PINTENDRE                              | QUEBEC       |
| QC   | QUEBEC CITY                            | QUEBEC       |
| QC   | SAINT-AUGUSTIN-DE-DESMANES             | QUEBEC       |
| QC   | SAINTE-BRIGITTE-DE-LAVAL               | QUEBEC       |
| QC   | SAINTE-CATHERINE-DE-LA-JACQUES-CARTIER | QUEBEC       |
| QC   | SAINTE-FAMILLE                         | QUEBEC       |
| QC   | SAINTE-FOY                             | QUEBEC       |
| QC   | SAINTE-HELENE-DE-BREAKEVILLE           | QUEBEC       |

## Appendix F: Transportation Route Restrictions (cont'd)

| PROV | CSD_NAME                          | CMA Boundary |
|------|-----------------------------------|--------------|
| QC   | SAINT-EMILE                       | QUEBEC       |
| QC   | SAINTE-PETRONILLE                 | QUEBEC       |
| QC   | SAINT-ETIENNE-DE-BEAUMONT         | QUEBEC       |
| QC   | SAINT-ETIENNE-DE-LAUZON           | QUEBEC       |
| QC   | SAINT-FRANCOIS                    | QUEBEC       |
| QC   | SAINT-GABRIEL-DE-VALCARTIER       | QUEBEC       |
| QC   | SAINT-JEAN                        | QUEBEC       |
| QC   | SAINT-JEAN-CHRYSOSTOME            | QUEBEC       |
| QC   | SAINT-JOSEPH-DE-LA-POINTE-DE-LEVY | QUEBEC       |
| QC   | SAINT-LAMBERT-DE-LAUZON           | QUEBEC       |
| QC   | SAINT-LAURENT                     | QUEBEC       |
| QC   | SAINT-PIERRE                      | QUEBEC       |
| QC   | SAINT-REDEMPTEUR                  | QUEBEC       |
| QC   | SAINT-ROMUALD                     | QUEBEC       |
| QC   | SHANNON                           | QUEBEC       |
| QC   | SILLERY                           | QUEBEC       |
| QC   | STONEHAM-ET-TEWKESBURY            | QUEBEC       |
| QC   | VAL-BELAIR                        | QUEBEC       |
| QC   | VANIER                            | QUEBEC       |
| QC   | WENDAKE                           | QUEBEC       |
| SK   | BALGONIE                          | REGINA       |
| SK   | BELLE PLAINE                      | REGINA       |
| SK   | BUENA VISTA                       | REGINA       |
| SK   | DISLEY                            | REGINA       |
| SK   | EDENWOLD                          | REGINA       |
| SK   | EDENWOLD NO. 158                  | REGINA       |
| SK   | GRAND COULEE                      | REGINA       |
| SK   | LUMSDEN                           | REGINA       |
| SK   | LUMSDEN BEACH                     | REGINA       |
| SK   | LUMSDEN NO. 189                   | REGINA       |
| SK   | PENSE                             | REGINA       |
| SK   | PENSE NO. 160                     | REGINA       |
| SK   | PILOT BUTTE                       | REGINA       |
| SK   | REGINA                            | REGINA       |
| SK   | REGINA BEACH                      | REGINA       |
| SK   | SHERWOOD NO. 159                  | REGINA       |
| SK   | WHITE CITY                        | REGINA       |
| YT   | IBEX VALLEY                       | WHITEHORSE   |
| YT   | LAKE LABERGE 1                    | WHITEHORSE   |
| YT   | MT. LORNE                         | WHITEHORSE   |
| YT   | WHITEHORSE                        | WHITEHORSE   |
| YT   | WHITEHORSE, UNORGANIZED           | WHITEHORSE   |

## Appendix G: Geographical Placement of Data

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### Precision Codes

Code indicating the positional accuracy or precision of the positioned or geocoded feature.

| Prec_Code | Description   |
|-----------|---|
| 1         | Centroid of 1:50 000 NTDB feature or placed via Orthorectified photo  |
| 2         | Block-face representative point from CanMap streets – High precision  |
| 3         | Block-face representative point from CanMap streets – Lower precision |
| 4         | Postal Code - Block-face representative point                         |
| 5         | Postal Code - EA Centroid / FSA Centroid                              |
| 6         | Municipal Centroid  |
| 7         | Canadian Geographical Names Database (CGNDB) <sup>36</sup>            |

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<sup>36</sup> May have been enhanced by removing points from water bodies

## Appendix H: Canadian Urban Areas and Abbreviations

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Canadian urban areas are based upon DMTI's topographic coverage areas. The following table is a partial list of urban areas and their abbreviations. For a complete listing of Canadian urban areas refer to the CANtop layer located in the Canada Directory or for information regarding other areas please contact DMTI Spatial.

| Province | Topographic Coverage Area | Abbreviation |
|----------|---------------------------|--------------|
| AB       | Calgary                   | CLGRY        |
| AB       | Edmonton                  | EDMNT        |
| BC       | Vancouver                 | VNCVR        |
| BC       | Victoria                  | VCTRA        |
| MB       | Winnipeg                  | WINPG        |
| NB       | Fredericton               | FRDTN        |
| NB       | Saint John                | STJON        |
| NL       | Labrador City             | LBDRC        |
| NL       | St. John's                | STJHN        |
| NS       | Halifax                   | HALFX        |
| NT       | Yellowknife               | YLKNF        |
| NU       | Iqaluit                   | IQALT        |
| ON       | Greater Toronto Area      | GTA          |
| ON       | Hamilton Niagara          | HAMNG        |
| ON       | Ottawa                    | OTAWA        |
| PE       | Charlottetown             | CHLTN        |
| QC       | Hull                      | HULL         |
| QC       | Montreal                  | MNTRL        |
| QC       | Quebec City               | QBCTY        |
| SK       | Regina                    | RGNA         |
| YT       | Whitehorse                | WTHRS        |

## Appendix I: Exceptions to Official Time in Canada<sup>37</sup>

In some parts of Canada, observed time practice differs from official time. The following is a list of regions in Canada and the time practices that they observe.

### British Columbia

- Boundary: British Columbia, with exceptions
  - Pacific Standard Time (PST): UTC - 8h
  - Pacific Daylight Time (PDT): UTC - 7h
  - PDT: from 2:00 PST on the first Sunday of April to 2:00 PDT on the last Sunday of October, the period of DST must be gazetted each year.
- British Columbia Exceptions - Municipalities using Mountain Standard and Mountain Daylight Time:
  - Parts of Central Kootenay
  - Parts of Columbia-Shuswap
  - Parts of East Kootenay including all of Cranbrook
  - All of Kootenay-Boundary
  - All of Peace River

### Nunavut Territory

- Boundary: Nunavut east of 85° W longitude; except Southampton Island and the “islands near Southampton Island”.
  - Eastern Daylight Time (EDT): UTC - 4h
  - EDT: from 2:00 EST on the first Sunday of April to 2:00 EDT on the last Sunday of October
- Boundary: Nunavut’s Southampton Island and the “islands near Southampton Island”
  - Eastern Standard Time (EST): UTC - 5h
- Boundary: Nunavut west of 85° W longitude and east of 102° W longitude; except Southampton Island, “the islands near Southampton Island”, and the “Kitikmeot Region”
  - Central Standard Time (CST): UTC - 6h
  - Central Daylight Time (CDT): UTC - 5h
  - CDT: from 2:00 CST on the first Sunday of April to 2:00 CDT on the last Sunday of October
- Boundary: Nunavut west of 102° W longitude; (and all of the “Kitikmeot Region”)
  - Mountain Standard Time (MST): UTC - 6h
  - Mountain Daylight Time (MDT): UTC - 5h
  - MDT: from 2:00 MST on the first Sunday of April to 2:00 MDT on the last Sunday of October

### Ontario

- Boundary: Ontario east of 90° W longitude
  - Eastern Standard Time (EST): UTC - 5h
  - Eastern Daylight Time (EDT): UTC - 4h
  - EDT: from 2:00 EST on the first Sunday of April to 2:00 EDT on the last Sunday of October
- Boundary: Ontario west of 90° W longitude
  - Central Standard Time (CST): UTC - 6h
  - Central Daylight Time (EDT): UTC - 5h
  - CDT: from 2:00 CST on the first Sunday of April to 2:00 CDT on the last Sunday of October

<sup>37</sup> Source: National Research Council (NRC), April 2001

**Quebec**

- Boundary: Quebec east of 63° W longitude
  - Atlantic Standard Time (AST): Coordinated Universal Time ("UTC") - 4h
  - In effect year-round
- Boundary: Quebec west of 63° W longitude
  - Eastern Standard Time (EST): UTC - 5h
  - Eastern Daylight Time (EDT): UTC - 4h
  - EDT: from 2:00 EST on the first Sunday of April to 2:00 EDT on the last Sunday of October

**Saskatchewan**

- Boundary: the Battle River district (around Lloydminster, in 1983 the Payton time option area was created, it uses CST year-round)
  - Central Standard Time (CST): UTC - 6h
  - CST: from 2:00 MST on the first Sunday of April to 2:00 CST on the last Sunday of October
- Boundary: Saskatchewan side of Lloydminster
  - Mountain Standard Time (MST): UTC - 7h
  - Mountain Daylight Time (MDT): UTC - 6h
  - MDT: from 2:00 MST on the first Sunday of April to 2:00 MDT on the last Sunday of October

**Yukon Territory**

- Pacific\* Standard Time (PST): UTC - 8h
- Pacific\* Daylight Time (PDT): UTC - 7h
- PDT: from 2:00 PST on the first Sunday of April to 2:00 PDT on the last Sunday of October

\* Yukon regulations refer to this as "Yukon" rather than Pacific time. Federal legislation (the Interpretation Act) still specifies Yukon time as one hour west of Pacific time. Using "Pacific" avoids this legislative ambiguity.

## Appendix J: Unshorelined vs. Shorelined Boundaries

### National Water Layer

DMTI Spatial's standard boundaries are referred to as unshorelined boundaries. Unshorelined boundaries suggest that the boundary does not reflect physical shorelines.



Not recommended: "Unshorelined" boundaries with the national water (CANwat) layer beneath the boundary layer.

Recommended: "Unshorelined" boundaries with the national water (CANwat) layer on top of the boundary layer.

Shorelined boundaries are available from DMTI Spatial as a custom order. These boundaries are created using a subset of the CANwat layer, which is used to clip the overlap between the unshorelined boundaries.

### Topographic Coverage Areas

With the purchase of CanMap Streetfiles and CanMap RouteLogistics DMTI Spatial provides a detailed water layer (*AREAh*). Detailed water is only available in topographic coverage areas only.

It is not recommended that you view any shorelined boundaries with the detailed water layer (*AREAh*), as the two layers will not align with each other.



Detailed water layer (*AREAh*) and shorelined census boundaries

National water layer (*CANwat*) and shorelined census boundaries

Please contact DMTI Spatial if you require a detailed nationwide water product or shorelined boundaries

## Appendix k: Joining the rte (rds) Layer and rds\_lut Table

To view the *AREArds* data linked to the *AREArds\_lut* data the user must complete a manual join.

### MapInfo

- Open both the *AREArds* data file and the *AREArds\_lut* data file in MapInfo.
- Select 'Query' > 'SQL Select...'
- Complete the following query in the Query Menu (See Figure 1)
- Select \* from *AREArds*, *AREArds\_lut* where *AREArds.UNIQUEID = AREArds\_lut.RDS\_ID*
- 'Verify' the SQL query and if valid, press 'OK'.

Once the query result has been obtained you can then view the joined tables e.g. 'Joined\_Results' via the Info Tool in the Map Window or through the 'Joined\_Results' Table Browser.

To create a permanent join simply save the joined tables as a new MapInfo Table.

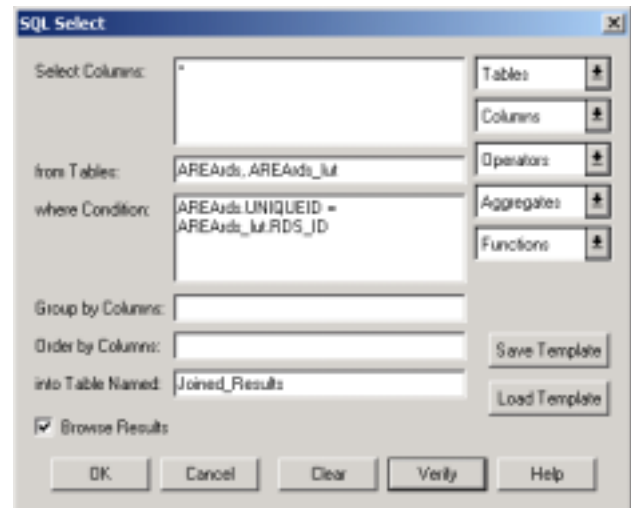


Figure 1: Joining MapInfo Tables

### ArcView

- With the project file open, click on the Window menu and select the project (*AREArds.apr*) to display the project window.
- With the project window now displayed select the 'Tables' icon. Click on the 'Add' button, locate and open the *AREArds\_lut* data table you wish to join.
- With the *AREArds\_lut* table displayed click on the field (*RDS\_ID*) that will be used to join the *AREArds\_lut* table to the *AREArds* data table. Now return to the View with the *AREArds* file.
- Click on the *AREArds* theme in the legend to make it active.
- Click on the 'Open Theme Table' button to display the *AREArds* attribute table (or choose Theme from the Table menu).
- Click on the field that will be used to join the *AREArds* data table (*UNIQUEID*).
- Finally, click on the Join button (or choose Join from the Table menu)

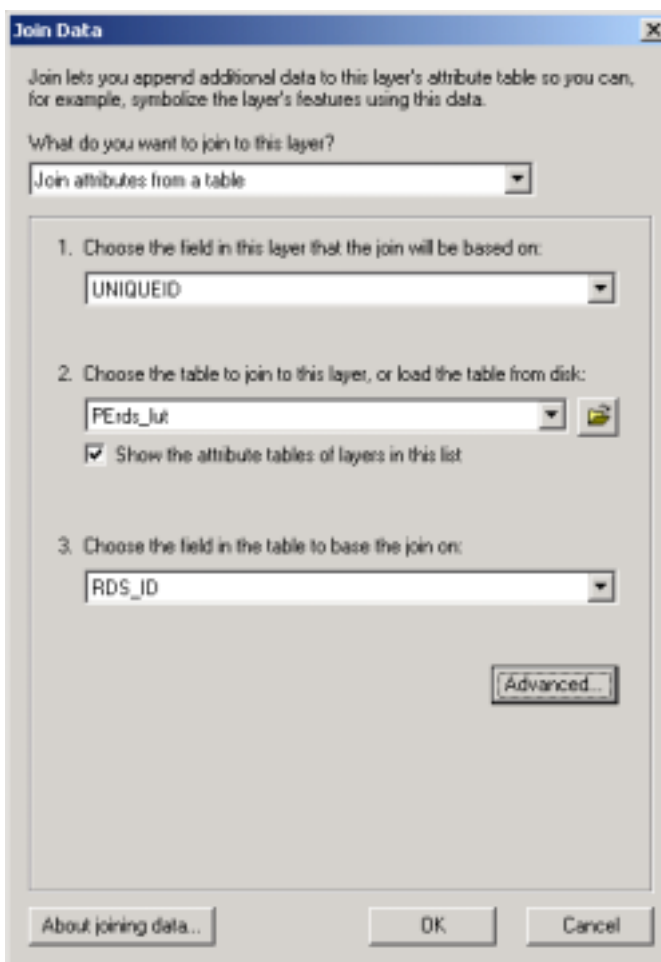
When you scroll along the *AREArds* attribute table you will notice the *AREArds\_lut* data has been joined. Additional data tables can be joined, so that many table attributes can be shown at one time. To undo the joins between the data tables click on the *AREArds* attribute table making it active and from the 'Table' menu select 'Remove All Joins'.



## Appendix k: Joining the rte (rds) Layer and rds\_lut Table (cont'd)

### ArcGIS

- Open the appropriate project file (AREArds.mxd).
- Select the 'Add Data' button to open the corresponding attribute data file (AREArds\_lut.dbf) you wish to join.
- Select the AREArds theme, right click and select 'Joins and Relates' selecting 'Join...' from the sub-menu of choices.
- Complete the 'Join Data' GUI as shown below using the UNIQUEID and RDS\_ID fields as the common field between the tables. Once complete hit 'OK'.
- Once the join is complete select the AREArds theme, right click and select 'Open Attribute Table'. Once open, you can now scroll through the results of the join.
- Additional data tables can be joined, so that many table attributes can be shown at one time. To undo the joins between the data tables select the AREArds attribute table, right click and select 'Joins and Relates' selecting 'Remove Join(s)' from the sub-menu of choices. Select the table you wish to remove the join from the list provided (i.e. AREArds\_lut.dbf).



**Figure 2:** Joining Layers in ArcGIS.

## Appendix L: RouteView Pro

RouteView Pro is an extension to MapInfo Professional providing a user with routing and catchment area functionality.

### How to use the data in RouteView Pro

1. Open the RouteView Pro extension. In MapInfo Professional, under the File pulldown menu, select 'Run MapBasic Program' and run "c:\Program Files\Dataview\RV Pro 1.2\rvpro.mbx"
2. Under the RouteView Pro pulldown menu, select 'Configuration', then 'Open Road Network'.
3. The Road Network file to open is **RVPNad83\CanMapRL\Geography\\_rvp.gph** and the Road Table is **RVPNad83\CanMapRL\Geography\\_rvp.tab**
4. Start using RouteView Pro.

### File Structure: (\_rvp.tab)

| Field Name | Field Type | Field Size | Description  |
|------------|------------|------------|--|
| ID         | Decimal    | 9,0        | Unique identifier for RouteView Pro  |
| NAME       | Character  | 69         | Street Name  |
| TYPE       | Character  | 10         | Road classification  |
| YSKA       | Integer    | -          | Turn restriction code used by RouteView Pro  |
| ONE_WAY    | Character  | 1          | F - if road is one-way in direction of start to end (direction of digitization)<br>R - if road is one-way in direction of end to start (reverse direction of digitization)<br><i>Left blank</i> – if road is 2 way |

### Notes:

- All files found within the **RVPNad83\CanMapRL\AREA\** directory are needed by RouteView Pro. DMTI does not provide RouteView Pro software or tools—please contact software vendor.
- To view all of CanMap® RouteLogistics in MapInfo Professional, please use the data within the **MapInfoNad83\CanMapRL\AREA\** directory.

## Appendix M: ArcView 3.2 Route to Network Analyst<sup>38</sup>

DMTI Spatial is pleased to provide ArcView 3.2 users a tool that allows users to convert CanMap® RouteLogistics shape files to a Network Analyst (ArcView V3.2) routing file. The ArcView 3.2 Route to Network Analyst (RteNA) tool was designed to convert DMTI Spatial route (rte) files and turn restrictions table (trn) files into ArcView Network Analyst compatible routing files. The “open” script allows users to ensure optimal use of the CanMap RouteLogistics product within a software program or application.

### Tool Location

\\\_samples\RteNA

### How to Use the RteNA Tool

- Open the RteNA.apr
- Click the RteNA Tool button - located on the View GUI, to the left of the Help button



**Important:** All of the Network Analyst generated files including the \*rte\_na.nws directory must exist in the same directory before processing can begin. Any missing files will prevent routing from being possible.

| File            | Description            |
|-----------------|------------------------|
| AREArte.shp     | Routing Shape File     |
| AREArte.shx     | Routing Shape File     |
| AREArte.dbf     | Routing Shape File     |
| AREArte.avl     | ArcView Legend File    |
| AREAtrn.dbf     | Turn restriction table |
| AREArds_lut.dbf | RDS Lookup table       |
| AREArte_lut.dbf | RTE Lookup table       |

A converted rte file will be added to the View and the link to the turn restriction table (\*trn\_na.dbf) is established. The directory should contain the following files:

| File           | Description   |
|----------------|---|
| AREArte_na.shp | Resulting rte file compatible with Network Analyst        |
| AREArte_na.shx | Resulting rte file compatible with Network Analyst        |
| AREArte_na.dbf | Resulting rte file compatible with Network Analyst        |
| AREArte_na.sbn | Spatial Indexes   |
| AREArte_na.sbx | Spatial Indexes   |
| AREAtrn_na.dbf | Resulting trn file compatible with Network Analyst        |
| AREArte_na.nws | Directory for routing files as created by Network Analyst |

At this point, users are ready to use Network Analyst for routing. (i.e. 'Find Best Route' function).

<sup>38</sup> This tool is currently provided for free and is not currently supported by DMTI Spatial. If you require any assistance please contact DMTI Spatial.

## Appendix M: ArcView 3.2 Route to Network Analyst (*cont'd*)

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### Preserving or Re-Establishing the Link between the \*rte\_na and \*trn\_na files:

In order to perform routing in future sessions of Network Analyst, the project (RteNA.apr) must be saved to maintain the link between the \*rte\_na and \*trn\_na files. If you do not wish to save the project file, an alternative option is to re-establish the link between the two files by following the instructions given below for the 'SetTurnTable.ave' script.

### How to Use 'SetTurnTable.ave'

Instructions for running the 'SetTurnTable.ave' script (located at: \\_samples\RteNA\Scripts)

Open a new session of ArcView 3.2

- Activate the Network Analyst extension
- From the project menu: File > Extensions > Check on the Network Analyst extension > Click OK

Open a new View

- From the Project window: Double click on the View icon or single click on the View icon > Click the New button

Add the converted \*rte\_na.shp to the View

- From the View menu: Click on View > Add Theme... > Browse for the file > Click OK

Open a new script document

- From the Project window: Double Click on the Scripts icon or single click on the Scripts icon > Click on the New button

Load the script into the new script document

- From the Script menu: Click on Script > Load Text File... > Browse to the Scripts directory select 'SetTurnTable.ave' > Click OK

Compile and run the script

- From the script menu: Click on Script > Compile > Click on the View to make it active > Click on the Window Menu > Select Script1 > Run

Select the \*rte\_na.shp theme from the list > Click OK

Browse to the \*trn\_na.dbf > Click OK

Close the Script window

Save the ArcView project to maintain the links generated within this process for future use

### Important Notes to remember:

When running the RteNA.apr scripts, all files must have DMTI Spatial naming (ex: GTArte.shp). This means the files CANNOT be renamed, as the program will not recognize the required files.

After the processing is complete the original trn.dbf and \*rte.\* files can be removed from the directory as they are not used by Network Analyst.

If you start a new session and set the turntable, you must save the project to keep the link to the turntable.

## Appendix N: ArcLogistics Route v3.0

### File Descriptions

| File         | Description             |
|--------------|-------------------------|
| Allst.shp    | CanMap RouteLogistics   |
| Oneway.shp   | One Way Streets         |
| Turn.shp     | Turn Restrictions       |
| Exit.shp     | Highway Exit Numbers    |
| Dtl-cnty.shp | Municipal boundaries    |
| Zip.shp      | Forward Sortation areas |
| Lakes.shp    | Water Features          |
| Parks.shp    | Park Boundaries         |
| States.shp   | Provincial Boundaries   |

### File Structure

#### Roads - Allst.shp

| Field Name               | Field Type | Field Size | Description  |
|--------------------------|------------|------------|--|
| FULL_NAME                | Character  | 69         | Street Name  |
| L_F_ADD                  | Decimal    | 6,0        | From Left Address  |
| L_T_ADD                  | Decimal    | 6,0        | To Left Address  |
| R_F_ADD                  | Decimal    | 6,0        | From Right Address   |
| R_T_ADD                  | Decimal    | 6,0        | To Right Address   |
| PREFIX                   | Character  | 2          | Prefix Direction before Street Name (e.g. <b>W</b> 5 St)           |
| PRE_TYPE                 | Character  | 10         | Prefix Type before Street Name (e.g. <b>Rue</b> Jean)              |
| NAME                     | Character  | 45         | Street Name (e.g. <b>John</b> St E)                                |
| TYPE                     | Character  | 10         | Street Type after Street Name (e.g. John <b>St</b> E)              |
| SUFFIX                   | Character  | 2          | Suffix Street Direction after Street Name (e.g. John St <b>E</b> ) |
| ALIAS_NAME               | Character  | 69         | Alternate Street Name  |
| FORMERNAME <sup>39</sup> | Character  | 69         | Former Provincial Hwy Name   |
| HWY_NAME                 | Character  | 69         | Highway Names  |
| HWY_NUM                  | Character  | 20         | Highway Number(s)  |
| CARTO                    | Decimal    | 3,0        | Road Classification  |
| CITYL                    | Character  | 70         | City Name to the left of the road segment                          |
| CITYR                    | Character  | 70         | City Name to the right of the road segment                         |
| ZIPL                     | Character  | 3          | FSA (Forward Sortation Area) to the left of the road segment       |
| ZIPR                     | Character  | 3          | FSA (Forward Sortation Area) to the right of the road segment      |
| STATE_ABBR               | Character  | 2          | Province Abbreviation (e.g. Ontario = ON)                          |
| TRNSCDAHWY               | Decimal    | 1,0        | 1 = TransCanada Highway  |
| YELLOWHDHWY              | Decimal    | 1,0        | 1 = Yellow Head Highway  |
| TOLL_RD                  | Decimal    | 1,0        | 1 = Toll Road  |
| SHAPEID                  | Decimal    | 9,0        | Unique Identifier from ArcLogistics Route                          |
| USERID                   | Decimal    | 9,0        | Unique Identifier from CanMap® Streetfiles                         |
| CFCC                     | Character  | 3          | ArcLogistics Route code for classifying street                     |
| DISP_CODE                | Decimal    | 2,0        | ArcLogistics Route code for displaying street segments             |

<sup>39</sup> Applicable only in Ontario

|                          |           |     |  |
|--------------------------|-----------|-----|--|
| ONEWAY                   | Decimal   | 1,0 | 1 = Oneway segment   |
| ON_RAMP                  | Decimal   | 1,0 | 1 = On Ramp  |
| OFF_RAMP                 | Decimal   | 1,0 | 1 = Off Ramp   |
| EXIT_NUM                 | Character | 30  | Highway exit number  |
| EXIT_DIR                 | Character | 2   | Direction of exit ramp   |
| ROAD_DIR                 | Character | 2   | Segment direction is either from the Fnode to the Tnode (FT) or from the Tnode to the Fnode (TF) |
| FNODE                    | Decimal   | 9,0 | Node begins line segment   |
| TNODE                    | Decimal   | 9,0 | Node ends line segment   |
| F_ZLEV                   | Decimal   | 2   | Elevation of Fnode   |
| T_ZLEV                   | Decimal   | 2   | Elevation of Tnode   |
| SPEEDMILES <sup>40</sup> | Decimal   | 3,0 | Estimated speed limit (miles per hour)   |
| RDLENMILES               | Decimal   | 8,3 | Length of segment in miles   |
| SPEEDKM <sup>40</sup>    | Decimal   | 3,0 | Estimated speed limit (kilometers per hour). See note below.                                     |
| METERS                   | Decimal   | 8,3 | Length of segment in meters  |
| FT_MINUTES               | Decimal   | 6,3 | Estimated travel time in minutes based on speed limit and road length                            |
| TF_MINUTES               | Decimal   | 6,3 | Estimated travel time in minutes based on speed limit and road length                            |
| FERRY_TYPE               | Character | 68  | Type of ferry route (ex. Passenger, vehicle, etc.)   |

### One-way Streets (oneway.shp)

| Field Name | Field Type | Field Size | Description  |
|------------|------------|------------|--|
| SHAPEID    | Decimal    | 9,0        | Unique Identifier from ArcLogistics Route              |
| USERID     | Decimal    | 9,0        | Unique Identifier from CanMap <sup>®</sup> Streetfiles |
| ONEWAY     | Decimal    | 1,0        | 1 = Oneway segment                                     |

### Turn Restrictions (turn.shp)<sup>41</sup>

| Field Name | Field Type | Field Size | Description   |
|------------|------------|------------|---|
| FSHAPEID   | Decimal    | 9,0        | From segment unique Identifier from ArcLogistics Route    |
| TSHAPEID   | Decimal    | 9,0        | To segment unique Identifier from ArcLogistics Route      |
| F_USERID   | Decimal    | 9,0        | From segment unique Identifier from CanMap RouteLogistics |
| T_USERID   | Decimal    | 9,0        | To segment unique Identifier from CanMap RouteLogistics   |

### Highway Exit Numbers\* (exit.shp)

| Field Name | Field Type | Field Size | Description            |
|------------|------------|------------|------------------------|
| EXIT_NUM   | Character  | 30         | Highway exit number    |
| EXIT_DIR   | Character  | 2          | Direction of exit ramp |

### Municipality Boundaries (dtl-cnty.shp)

| Field Name | Field Type | Field Size | Description       |
|------------|------------|------------|-------------------|
| NAME       | Character  | 70         | Municipality Name |
| TYPE       | Character  | 3          | Type of Community |

<sup>40</sup> For more information refer to Roads (rte)

<sup>41</sup> For more information refer to Turn Restrictions (trn)

**Forward Sortation Areas (zip.shp)**

| Field Name | Field Type | Field Size | Description                         |
|------------|------------|------------|-------------------------------------|
| ZIP        | Character  | 3          | FSA (first 3 digits of postal code) |

**Parks (parks.shp)**

| Field Name | Field Type | Field Size | Description               |
|------------|------------|------------|---------------------------|
| TYPE       | Character  | 40         | Type of recreational park |

**Provincial Water (lakes.shp)**

| Field Name | Field Type | Field Size | Description     |
|------------|------------|------------|-----------------|
| NAME       | Character  | 40         | Lake/River Name |

**Provincial Outline (state.shp)**

| Field Name | Field Type | Field Size | Description   |
|------------|------------|------------|---------------|
| NAME       | Character  | 68         | Province Name |

## Appendix N: ArcLogistics Route v3.0 (cont'd)

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### Installation of CanMap RouteLogistics for ArcLogistics Route

1. Create a **new directory** for the data on one of your local drives.
2. Copy all the directories and files under the `\A\Nad83\CanmapRL\Geography\A\data` directory on the CD to this **new directory**.
3. Delete the files in the `..\ArcLogistics Route\Background` directory from your computer, then copy the files in the `\A\Nad83\CanmapRL\Geography\Background` directory into `..\ArcLogistics Route\Background`.
4. Under the Start Menu select ESRI\ArcLogistics Route – Administer Streets.
5. Click the Street Data option and then New. A Set Up Streets Dialog will be displayed.
6. Enter a Name for the New Street Dataset (e.g. Ontario).
7. Choose the unit for ArcLogistics Route to display distances in the MapView window.
8. Choose the unit used by the input data found in this folder `\A\Nad83\CanmapRL\Geography\A\data`.
9. Browse to the folder location of the map data files.
10. Check the box to Rebuild Routing and Geocoding Indices.
11. Click OK. A default service area file will be created for the street dataset.
12. Your data is now ready for ArcLogistics Route. Close the Administer Streets window.
13. Open ArcLogistics Route.
14. Under File, select Open Service Area. Open the Service Area that you created under the Administer Streets window. Start using ArcLogistics Route.

### Changing speeds in CanMap RouteLogistics for ArcLogistics Route

1. Close all windows associated with ArcLogistics Route
2. In the `alr_data`, make a backup copy of the `allst.dbf` file. For example, copy the `allst.dbf` to `allst_bk.dbf`
3. Import `allst.dbf` into Microsoft Access or open it in Microsoft Excel
4. Re-populate the SPEEDMILES field and the SPEEDKM field to your desired speeds
5. Re-calculate the FT\_MINUTES and TF\_MINUTES (they both should have the same time) using the following formula:
  1.  $FT\_MINUTES = Meters * .001 / SPEEDKM * 60$
  2.  $TF\_MINUTES = Meters * .001 / SPEEDKM * 60$
6. Save the changes to `allst.dbf` as a dbase 3 file
7. Re-open the Administrator window for ArcLogistics route and rebuild the routing and geocoding indices.
8. Re-open ArcLogistics Route and rebuild the routes



## Appendix N: ArcLogistics Route v3.0 (cont'd)

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### Loading a newer version of CanMap RouteLogistics into ArcLogistics Route

If you have received a previous version of CanMap RouteLogistics in ArcLogistics Route format and wish to refresh the data with the new version contained on this CD, please follow the subsequent steps:

**Note:** This methodology is necessary if you have created Locations, Orders and Vehicles based on a previous version of CanMap RouteLogistics and you wish to preserve this information and use it in conjunction with the newer version of CanMap RouteLogistics. For Example, changing from CanMap RouteLogistics V4.2 to V6.1

1. Make a backup copy of your current directory containing CanMap RouteLogistics in ALR format and all Access databases (i.e. ALR.mdb, ALR1.mdb) containing your Orders, Locations, Vehicles, etc.
2. Copy the new CanMap RouteLogistics data in ALR format directly onto the existing older version of CanMapRouteLogistics in ALR format.

Example:

Current ALR data location:

C:\\_MY\_FILES\ALRDATA\Gta\Alr\_data\  
C:\\_MY\_FILES\ALRDATA\Gta\Background\

New data extracted from CD into “\_MY\_FILES” directory:

C:\\_MY\_FILES\ALR\NAD83\CANMAPRL\GTA\Alr\_data\  
C:\\_MY\_FILES\ALR\NAD83\CANMAPRL\GTA\Background\

- a. Note: It is important that the directory names and path remain the same as when the streets were last Indexed in the Administer Streets utility
- b. Note: Your Access databases (ALR.mdb, ALR1.mdb etc) will not be overwritten, but all other layers containing CanMap RouteLogistics will be overwritten.
3. Rebuild both Geocoding and Routing indices from the Administer streets prompt
4. Open ArcLogistics Route (specify the service area you are refreshing if you have more than one)
  - a. Note: The colour of the Routing sub folders should be a slightly paler yellow than the main “Routing Folder”. This indicates that ALR has detected your new CanMap RouteLogistics data
5. Reroute by using the “Build Route” button to refresh and create new routes based on the existing Locations, Vehicles and Orders.

## **Appendix O: ISO 19115:2003 Compliant Metadata**

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### **Metadata Notification**

As of May 15<sup>th</sup> 2005, DMTI Spatial data products have metadata that are ISO 19115:2003 compliant.

This product now includes structured metadata files as provided in XML and/or HTM format. These metadata files reside with the graphic or database files to which they are associated. It is recommended that users review and customize the metadata as per their specific needs.

This latest addition to the CanMap<sup>®</sup> line of products is another enhancement that will benefit our users and increase overall product satisfaction.