

## Data Specification of Road Network for VASP (CityGML version 2.0) (28 June 2019)

### Introduction

Intelligent Road Network (IRN) models the road network, which is stored as lines representing road or carriageway centrelines, and points indicating intersections.

### Summary of IRNP RdNet Entities

	File name	Entity in ER Diagram	Description	Remarks
1	CENTERLINE.GML	CENTERLINE	Centreline - Line feature of road centreline	
2	TURN.GML	TURN	Turn - Turn feature representing restricted turn movement among road centrelines	
3	INTERSECTION.GML	INTERSECTION	Intersection - Point feature on intersection of two centrelines	
4	ROUNDABOUT.GML	ROUNDABOUT	Roundabout - Point feature representing location of roundabout	
5	TRAFFIC_FEATURES.GML	TRAFFIC_FEATURES	Traffic Features - Point feature representing location of zebra crossing, yellow box, toll plaza and cul-de-sac.	Toll information is in tun_bridge_toll.csv
6	RUN_IN_OUT.GML	RUN_IN_OUT	Run-in and Run-out - Point feature of run-in, run-out or run-in/run-out of off-street parking sites.	Only those for public parking sites with 100 or more parking space, or parking sites provided online vacancy information available at Data.gov.hk are included.
7	NSR.GML	NSR	No Stopping Restriction - Line	

			feature representing extent of no stopping restriction along roads.	
8	PEDESTRIAN_ZONE.GML	PEDESTRIAN_ZONE	Pedestrian Zone – Line feature of pedestrian zone	
9	BUS_ONLY_LANE.GML	BUS_ONLY_LANE	Bus Only Lane – Line feature of bus only lane	
10	SPEED_LIMIT.GML	SPEED_LIMIT	Speed Limit – Line feature of road with specified speed limit	
11	PROHIBITION.GML	PROHIBITION	Prohibition – Point feature of traffic sign of prohibition on road.	
12	VEHICLE_RESTRICTION.GML	VEHICLE_RESTRICTION	Vehicle Restriction – Point feature of vehicle restriction on road.	
13	PERMIT.GML	PERMIT	Permit – Point feature of directional sign or traffic sign indicating road access with permit or authorisation.	Only major roads requiring permit for access are included.
14	ON_STREET_PARK_PT.GML	ONSTREETPARK	On-street Parking - Location of on-street parking	
15	ON_STREET_PARK.CSV	GISP_ON_STREET_PARKING	Reference of On-street Parking - Additional textual information of Location of on-street parking	
16	TUN_BRIDGE_TOLL.CSV	TUN_BRIDGE_TOLL	Toll Information - Toll information of tunnel and bridge	Location of toll plaza of tunnel and bridge can be found in Traffic Features.

Note:

1. “Summary of IRNP RdNet Entities” above is revised to show “Entity in ER Diagram” which matches with the names shown on ER Diagram at the end of this data specification.
2. The following changes of entity have been implemented:
  - “RD\_ID\_7”, “RD\_ID\_8”, “RD\_ID\_9” and “RD\_ID\_10” are added to the entity “INTERSECTION”.
  - Entity “rndabout” is renamed to “ROUNDABOUT”.
  - Entity “traf\_features” is renamed to “TRAFFIC\_FEATURES”.

- A new entity “Prohibition” has been added to IRNP RdNet.
  - The attribute “GOODS\_VEHICLE” has been removed from entity “Vehicle Restriction”.
  - Entity “runinout” is renamed to “run\_in\_out”.
  - Entity “Roadroute” is removed and the Linear Reference events are replaced with line or point features.
3. The GFS files define the schemas of the corresponding GML files. For details, please refer to [https://www.gdal.org/drv\\_gml.html](https://www.gdal.org/drv_gml.html).

## Data Definition of IRNP RdNet Entities

### 1. CENTERLINE

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	Object ID		AutoNumber
STREET_ENAME	Street / Bridge / Tunnel Name in English	255	Text
STREET_CNAME	Street / Bridge / Tunnel Name in Chinese	255	Text
ELEVATION	The relative elevation level of a road element when two or more roads overlap. Numbers are used to represent the following elevations: a) Zero (0) is the ground level (default); b) A negative number (i.e. -1, -2, -3...) represents underground level; c) A positive number (i.e. 1, 2, 3...) represents flyover level.		Number
ST_CODE	This is the 5 digit street code from Lands Information Centre of Lands Department named roads according to Road Centerline Common Spatial Unit. a) 10001-29999 = Streets with gazetted name (assigned by LIC) b) 30001-39999 = Streets with ungazetted name (assigned by LIC) c) 40001-59999 = Streets without name (assigned by LIC)		Number
EXIT_NUM	This field stores the Exit number of Strategic Routes as well as its associated Strategic Route Number. (e.g. 9A, 4 indicates Exit number 9A of Route No. 4)	50	Text
ROUTE_NUM	This is the field that store Strategic Route number of the road		Number
REMARKS	Additional Information	200	Text
ROUTE_ID	Unique Identifier for the Route segment		Number
TRAVEL_DIRECTION	The permitted direction(s) of travel. Such information is used to determine the accessibility of the road segment. Numbers are used to represent the following travel directions: (1) = Travel is permitted in both directions (default); (2) = Travel is only permitted against the digitised direction of the line feature; (3) = Travel is only permitted in the digitised direction of the line feature; (4) = Travel is not permitted in either direction (Restricted Road). The value of 'Travel_direction' would be assigned to "4" to indicate that the road segment is not permitted for general use by private cars and goods vehicle. Examples of these roads are prohibition zones for all motor vehicles except franchised buses, public light buses, taxis, etc., prohibition zones for all vehicles except with permit and full-time pedestrian zone.		Number
CRE_DATE	To store the date that the record was created		Date/Time
LAST_UPD_DATE_V	To store the date that the record was updated for VASP		Date/Time
ALIAS_ENAME	Alias Name for Street / Bridge / Tunnel in English	255	Text
ALIAS_CNAME	Alias Name for Street / Bridge / Tunnel in Chinese	255	Text
SHAPE_Length	Length of feature	10	Number

## 2. TURN

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	Object ID		AutoNumber
EDGE1END	Indicates if the turn passes through the end of the first edge (Y means the turn passes through the end of the first edge, while N means the turn passes through the beginning of the first edge).	1	Text
EDGE1FCID	The feature class identifier of the line feature representing the first edge of the turn.		Number
EDGE1FID	The ROUTE_ID of the centerline feature representing the first edge of the turn.		Number
EDGE1POS	The position along the line feature that represents the first edge of the turn. For a line feature that represents multiple edges, which can be created by lines with any vertex connectivity or points with override policy, the position indicates which of the feature's edge elements is the first edge in the turn.		Number
EDGE2FCID	The feature class identifier of the line feature representing the 2nd edge of the turn.		Number
EDGE2FID	The ROUTE_ID of the centerline feature representing the 2nd edge of the turn.		Number
EDGE2POS	The position along the line feature that represents the 2nd edge of the turn.		Number
EDGE3FCID	The feature class identifier of the line feature representing the 3rd edge in a multiedge turn with three or more edges.		Number
EDGE3FID	The ROUTE_ID of the centerline feature representing the 3rd edge in a multiedge turn with three or more edges.		Number
EDGE3POS	The position along the line feature that represents the 3rd edge of the turn with three or more edges.		Number
EDGE4FCID	The feature class identifier of the line feature representing the 4th edge in a multiedge turn with three or more edges.		Number

EDGE4FID	The ROUTE_ID of the centerline feature representing the 4th edge in a multiedge turn with three or more edges.		Number
EDGE4POS	The position along the line feature that represents the 4th edge of the turn with three or more edges.		Number
EDGE5FCID	The feature class identifier of the line feature representing the 5th edge in a multiedge turn with three or more edges.		Number
EDGE5FID	The ROUTE_ID of the centerline feature representing the 5th edge in a multiedge turn with three or more edges.		Number
EDGE5POS	The position along the line feature that represents the 5th edge of the turn with three or more edges.		Number
EDGE6FCID	The feature class identifier of the line feature representing the 6th edge in a multiedge turn with three or more edges.		Number
EDGE6FID	The ROUTE_ID of the centerline feature representing the 6th edge in a multiedge turn with three or more edges.		Number
EDGE6POS	The position along the line feature that represents the 6th edge of the turn with three or more edges.		Number
EDGE7FCID	The feature class identifier of the line feature representing the 7th edge in a multiedge turn with three or more edges.		Number
EDGE7FID	The ROUTE_ID of the centerline feature representing the 7th edge in a multiedge turn with three or more edges.		Number
EDGE7POS	The position along the line feature that represents the 7th edge of the turn with three or more edges.		Number
EDGE8FCID	The feature class identifier of the line feature representing the 8th edge in a multiedge turn with three or more edges.		Number
EDGE8FID	The ROUTE_ID of the centerline feature representing the 8th edge in a multiedge turn with three or more edges.		Number
EDGE8POS	The position along the line feature that represents the 8th edge of the turn with three or more edges.		Number

NO_TURN	Negative impedance implied that the turn is restricted. By default, -1 would be assigned.		Number
CRE_DATE	To store the date that the record was created		Date/Time
REMARKS	Additional Information	255	Text
LAST_UPD_DATE_V	To store the date that the record was updated for VASP		Date/Time
TURN_ID	Unique identifier of turn		Number
EXC_VEH_TYPE	<p>This field is used to indicate one or more vehicle types excluded by the turn restriction. Possible vehicle types include:</p> <ul style="list-style-type: none"> <li>a) ALL = All Motor Vehicle</li> <li>b) FB = Franchised Bus</li> <li>c) GMB = Green Mini Bus</li> <li>d) GV = Goods Vehicle</li> <li>e) NA = NA (Default)</li> <li>f) NFB = Non-franchised Bus</li> <li>g) OTH = Others</li> <li>h) PC = Private Car</li> <li>i) PLB = Public Light Bus</li> <li>j) RLB = Private Light Bus</li> <li>k) TX = Taxi</li> </ul>	100	Text
INC_VEH_TYPE	<p>This field is used to indicate one or more vehicle types included by the turn restriction. Possible vehicle types include:</p> <ul style="list-style-type: none"> <li>a) ALL = All Motor Vehicle</li> <li>b) FB = Franchised Bus</li> <li>c) GMB = Green Mini Bus</li> <li>d) GV = Goods Vehicle</li> <li>e) NA = NA (Default)</li> <li>f) NFB = Non-franchised Bus</li> <li>g) OTH = Others</li> <li>h) PC = Private Car</li> <li>i) PLB = Public Light Bus</li> <li>j) RLB = Private Light Bus</li> <li>k) TX = Taxi</li> </ul>	100	Text
PART_TIME_REST	Part Time Restriction. Y for Yes; N for No.	1	Text
EFF_ALL_DAYS	Effective for all days. Y for Yes; N for No.	1	Text
OTHER_REST_TYPE	<p>Other Type of Restriction. The values include:</p> <ul style="list-style-type: none"> <li>a) NA</li> <li>b) Length</li> <li>c) Height</li> <li>d) Weight</li> <li>e) Axle Weight</li> </ul>	100	Text
SHAPE_Length	Length of feature	10	Number

### 3. INTERSECTION

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	Object ID		AutoNumber
CRE_DATE	To store the date that the record was created		Date/Time
INT_ID	Unique Identifier for Intersection.	50	Text
INT_TYPE	There are two types of Intersection Features a) 0 = Others (default) b) 1 = Signalized Junction		Number
INT_ENAME	English Names of streets in the intersection or English name of the street where the point feature locate	255	Text
INT_CNAME	Chinese Names of streets in the intersection or Chinese name of the street where the point feature locate	255	Text
RD_ID_1	The identifier of 1st intersected Road Centerline		Number
RD_ID_2	The identifier of 2nd intersected Road Centerline		Number
RD_ID_3	The identifier of 3rd intersected Road Centerline		Number
RD_ID_4	The identifier of 4th intersected Road Centerline		Number
RD_ID_5	The identifier of 5th intersected Road Centerline		Number
RD_ID_6	The identifier of 6th intersected Road Centerline		Number
RD_ID_7	The identifier of 7th intersected Road Centerline		Number
RD_ID_8	The identifier of 8th intersected Road Centerline		Number
RD_ID_9	The identifier of 9th intersected Road Centerline		Number
RD_ID_10	The identifier of 10th intersected Road Centerline		Number
REMARKS	Additional Information	255	Text
LAST_UPD_DATE_V	To store the date that the record was updated for VASP	8	Date/Time



#### 4. ROUNDABOUT

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	Object ID		AutoNumber
CRE_DATE	To store the date that the record was created		Date/Time
R_ABOUT_ID	The unique identifier of Roundabout. It can be used to link with external tables being maintained by other systems		Number
R_ABOUT_ENAME	English Names of Roundabout	255	Text
R_ABOUT_CNAME	Chinese Names of Roundabout	255	Text
R_ABOUT_TYPE	<p>There are four types of roundabouts:</p> <p>a) 1 = Typical roundabouts (default);</p> <p>b) 2 = Mini roundabouts; (The radius of the center part of the roundabout is less than two meters)</p> <p>c) 3 = Double roundabouts;</p> <p>d) 4 = others</p>		Number
GRADED	Whether the roundabout is grade separated	1	Text
SIGNALIZED	Whether the roundabout is a signalized roundabout	1	Text
NO_OF_ARM	Number of arms		Number
RD_ID_1	The identifier of 1 <sup>st</sup> Road Centerline		Number
RD_ID_2	The identifier of 2 <sup>nd</sup> Road Centerline		Number
RD_ID_3	The identifier of 3 <sup>rd</sup> Road Centerline		Number
RD_ID_4	The identifier of 4 <sup>th</sup> Road Centerline		Number
RD_ID_5	The identifier of 5 <sup>th</sup> Road Centerline		Number
RD_ID_6	The identifier of 6 <sup>th</sup> Road Centerline		Number
RD_ID_7	The identifier of 7 <sup>th</sup> Road Centerline		Number
RD_ID_8	The identifier of 8 <sup>th</sup> Road Centerline		Number
RD_ID_9	The identifier of 9 <sup>th</sup> Road Centerline		Number
RD_ID_10	The identifier of 10 <sup>th</sup> Road Centerline		Number
REMARKS	This field stores additional information	255	Text
LAST_UPD_DATE_V	To store the date that the record was updated for VASP		Date/Time

## 5. TRAFFIC FEATURES

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	Object ID		AutoNumber
FEATURE_TYPE	There are four types of traffic features. 1 = Zebra Crossing 2 = Yellow Box 3 = Toll 4 = Cul-de-sac		Number
FEATURE_ID	Unique Identifier for traffic feature. The identifier will be used to link with external tables for other systems.		Number
CRE_DATE	To store the date that the record was created		Date/Time
RD_ID_1	The identifier of 1st intersected Road Centerline		Number
RD_ID_2	The identifier of 2nd intersected Road Centerline		Number
RD_ID_3	The identifier of 3rd intersected Road Centerline		Number
RD_ID_4	The identifier of 4th intersected Road Centerline		Number
RD_ID_5	The identifier of 5th intersected Road Centerline		Number
RD_ID_6	The identifier of 6th intersected Road Centerline		Number
REMARKS	This field stores additional information on Traffic Features information.	255	Text
TUN_BRIDGE_ID	To store the Feature identifier of TUN_BRIDGE_FARE table		Number
LAST_UPD_DATE_V	To store the date that the record was updated for VASP		Date/Time
RD_ID_7	The identifier of 7th intersected Road Centerline		Number
RD_ID_8	The identifier of 8th intersected Road Centerline		Number
RD_ID_9	The identifier of 9th intersected Road Centerline		Number

6. RUN-IN-OUT

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	Object ID		Number
RUN_IN_OUT_ID	Unique Identifier for Run-in and Run-out		Number
RUN_IN_OUT_TYPE	There are three types of Features a) 1 = Run-in b) 2 = Run-out c) 3 = Run-in & Run-out		Number
PARKING_ID	ID of off-street public car park	255	Text
BUILDING_ENAME	English Names of Building of off-street parking site	255	Text
BUILDING_CNAME	Chinese Names of Building of off-street parking site	255	Text
CRE_DATE	To store the date that the record was created		Date/Time
RD_ID_1	The identifier of 1 <sup>st</sup> intersected Road Centerline		Number
RD_ID_2	The identifier of 2 <sup>nd</sup> intersected Road Centerline		Number
RD_ID_3	The identifier of 3 <sup>rd</sup> intersected Road Centerline		Number
RD_ID_4	The identifier of 4 <sup>th</sup> intersected Road Centerline		Number
REMARKS	This field stores additional information	255	Text
LAST_UPD_DATE_V	To store the date that the record was updated for VASP	8	Date/Time
BUILDING_ADDRESS	Building of off-street parking site	255	Text

7. NSR

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	Object ID		AutoNumber
VEHICLE_TYPE	<p>This is the field where the type of vehicle is stored. Vehicle restriction includes:</p> <p>1 – All motor vehicles  2 – Taxis  3 – PLBs  4 – Goods Vehicles  5 – Others</p>		Number
TIME_ZONE	<p>This field stores information with regard to the time zone of the restriction.</p> <p>1 – 24 Hours  2 – 8 am to 10 am and 5 pm to 7 pm  3 – 7 am to 7 pm  4 – 7 am to midnight  5 – Others</p>		Number
EFFECTIVE_DAY	<p>This field stores information with regard to the effective day of the restriction.</p> <p>1 – All days  2 – All days except Sundays and Public Holidays  3 – General Holidays (Sundays and Public Holidays)  4 – Others</p>		Number
CRE_DATE	To store the date that the record was created		Date/Time
NSR_ID	A unique identifier storing the stop restriction		Number
ST_CODE_1	The street code of 1st Road Centerline		Number
ST_CODE_2	The street code of 2nd Road Centerline		Number
ST_CODE_3	The street code of 3rd Road Centerline		Number
ST_CODE_4	The street code of 4th Road Centerline		Number
ST_CODE_5	The street code of 5th Road Centerline		Number
ST_CODE_6	The street code of 6th Road Centerline		Number
REMARKS	This field stores additional information	255	Text
LAST_UPD_DATE_V	To store the date that the record was updated for VASP		Date/Time
SHAPE_Length	Length of feature		Number

8. PEDESTRIAN ZONE

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	Object ID		Object ID
ROAD_ROUTE_ID	This is the field that stores the Road Route identifier of the Road Route (ROUTE_ID) being referenced.		Number
TIME_ZONE	This field stores the time zone for the bus use only. It store the abbreviation of Traffic Sign (E.g. 24, 7-19, 7:30-9:30)	255	Text
EFFECTIVE_DAY	This field stores information about the frequency of the road pass occurrence by the flag at each digit position. There are 8 digits in this field. E.g. YNNNNNNN. The 1 <sup>st</sup> digit represents Monday, 2 <sup>nd</sup> digit represents Tuesday and so on. The 8 <sup>th</sup> digit represents Public Holidays which has the precedence over the others. 'Y' means the road pass occurs on that day of every week, 'N' means the road pass does not occur on that day of every week.	8	Text
REMARKS	This field stores additional information on Pedestrian Zone. This field can be used for displaying labels.	255	Text
PED_ZONE_ID	A unique identifier of storing the Pedestrian Zone feature		Number
CRE_DATE	To store the date that the record was created		Date/Time
LAST_UPD_DATE_V	To store the date that the record was updated for VASP		Date/Time
SHAPE_Length	Length of feature		Number

9. BUS ONLY LANE

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	Object ID		Object ID
ROAD_ROUTE_ID	This is the field that stores the Road Route identifier of the Road Route (ROUTE_ID) being referenced.		Number
TIME_ZONE	This field stores the time zone for the bus use only. It store the abbreviation of Traffic Sign (E.g. 24, 7-19, 7:30-9:30)	255	Text
EFFECTIVE_DAY	This field stores information about the frequency of the road pass occurrence by the flag at each digit position. There are 8 digits in this field. E.g. YNNNNNNN. The 1 <sup>st</sup> digit represents Monday, 2 <sup>nd</sup> digit represents Tuesday and so on. The 8 <sup>th</sup> digit represents Public Holidays which has the precedence over the others. 'Y' means the road pass occurs on that day of every week, 'N' means the road pass does not occur on that day of every week.	8	Text
BOUND	This field is used to indicate the location of the feature along the centerline. If it is located on the left hand side of the centerline with reference to digitized direction, the value is 1. If it is located on the right hand side of the centerline with reference to digitized direction, the value is -1. If it is located on both sides of the centerline, with reference to digitized direction, the value is 0.		Number
REMARKS	This field stores additional information on Bus Only Lane. This field can be used for displaying labels.	255	Text
BUS_ONLY_LANE_ID	A unique identifier of storing the Bus Only Lane feature		Number
CRE_DATE	To store the date that the record was created		Date/Time
LAST_UPD_DATE_V	To store the date that the record was updated for VASP		Date/Time
SHAPE_Length	Length of feature		Number

#### 10. SPEED LIMIT

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	Object ID		Object ID
SPEED_LIMIT_ID	A unique identifier of storing the Speed Limit feature		Number
ROAD_ROUTE_ID	This is the field that stores the Road Route identifier of the Road Route (ROUTE_ID) being referenced.		Number
SPEED_LIMIT	This is the field that stores speed limit for the route segment (in km/hr).	255	Text
BOUND	<p>This field is used to indicate the location of the feature along the centerline.</p> <p>If it is located on the left hand side of the centerline with reference to digitized direction, the value is 1.</p> <p>If it is located on the right hand side of the centerline with reference to digitized direction, the value is -1.</p> <p>If it is located on both sides of the centerline, with reference to digitized direction, the value is 0.</p>		Number
REMARKS	This field stores additional information on Speed Limit. This field can be used for displaying labels.	255	Text
CRE_DATE	To store the date that the record was created		Date/Time
LAST_UPD_DATE_V	To store the date that the record was updated for VASP		Date/Time
SHAPE_Length	Length of feature		Number

## 11. PROHIBITION

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	Object ID		Object ID
PROHIBITION_ID	A unique identifier of storing the Prohibition feature		Number
EXC_VEH_TYPE	<p>This field is used to indicate one or more vehicle types excluded by the prohibition. Possible vehicle types include:</p> <ul style="list-style-type: none"> <li>a) ALL = All Motor Vehicle</li> <li>b) FB = Franchised Bus</li> <li>c) GMB = Green Mini Bus</li> <li>d) GV = Goods Vehicle</li> <li>e) NA = NA (Default)</li> <li>f) NFB = Non-franchised Bus</li> <li>g) OTH = Others</li> <li>h) PC = Private Car</li> <li>i) PLB = Public Light Bus</li> <li>j) RLB = Private Light Bus</li> <li>k) TX = Taxi</li> </ul>	100	Text
INC_VEH_TYPE	<p>This field is used to indicate one or more vehicle types included by the prohibition. Possible vehicle types include:</p> <ul style="list-style-type: none"> <li>a) ALL = All Motor Vehicle</li> <li>b) FB = Franchised Bus</li> <li>c) GMB = Green Mini Bus</li> <li>d) GV = Goods Vehicle</li> <li>e) NA = NA (Default)</li> <li>f) NFB = Non-franchised Bus</li> <li>g) OTH = Others</li> <li>h) PC = Private Car</li> <li>i) PLB = Public Light Bus</li> <li>j) RLB = Private Light Bus</li> <li>k) TX = Taxi</li> </ul>	100	Text
PART_TIME_PROHIBITION	Part Time Prohibition. Y for Yes; N for No.	1	Text
EFF_ALL_DAYS	Effective for all days. Y for Yes; N for No.	1	Text
OTHER_REST_TYPE_GV	<p>Other Type of Restriction. The values include:</p> <ul style="list-style-type: none"> <li>a) NA</li> <li>b) Length</li> <li>c) Height</li> <li>d) Weight</li> <li>e) Axle Weight</li> </ul>	100	Text
REMARKS	This field stores additional information on Prohibition. This field can be used for displaying labels.	255	Text
ROAD_ROUTE_ID	This is the field that stores the Road Route identifier of the Road Route (ROUTE_ID) being referenced.		Number
BOUND	This field is used to indicate the location of the feature along the centerline.		Number



	<p>If it is located on the left hand side of the centerline with reference to digitized direction, the value is 1.</p> <p>If it is located on the right hand side of the centerline with reference to digitized direction, the value is -1.</p> <p>If it is located on both sides of the centerline, with reference to digitized direction, the value is 0.</p>		
CRE_DATE	To store the date that the record was created		Date/Time
LAST_UPD_DATE_V	To store the date that the record was updated for VASP		Date/Time

## 12. VEHICLE RESTRICTION

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	Object ID		Object ID
ROAD_ROUTE_ID	This is the field that stores the Road Route identifier of the Road Route (ROUTE_ID) being referenced.		Number
MAX_AXLE_WEIGHT	The maximum weight of the axle of the vehicle that the road can support.	10	Text
BOUND	This field is used to indicate the location of the feature along the centerline. If it is located on the left hand side of the centerline with reference to digitized direction, the value is 1. If it is located on the right hand side of the centerline with reference to digitized direction, the value is -1. If it is located on both sides of the centerline, with reference to digitized direction, the value is 0.		Number
VR_ID	A unique identifier of storing the Vehicle Restriction feature		Number
MAX_LENGTH	The maximum length of the vehicle that the road segment can support.	10	Text
MAX_WEIGHT	The maximum weight of the vehicle that the road can support	10	Text
MAX_HEIGHT	The maximum height of the vehicle that the road can support.	10	Text
MAX_WIDTH	The maximum width of the vehicle that the road can support.	10	Text
REMARKS	This field stores additional information on Vehicle Restriction. This field can be used for displaying labels.	255	Text
CRE_DATE	To store the date that the record was created		Date/Time
LAST_UPD_DATE_V	To store the date that the record was updated for VASP		Date/Time

13. PERMIT

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	Object ID		Object ID
PERMIT_ID	A unique identifier of storing the Permit feature		Number
ROAD_ROUTE_ID	This is the field that stores the Road Route identifier of the Road Route (ROUTE_ID) being referenced.		Number
BOUND	<p>This field is used to indicate the location of the feature along the centerline.</p> <p>If it is located on the left hand side of the centerline with reference to digitized direction, the value is 1.</p> <p>If it is located on the right hand side of the centerline with reference to digitized direction, the value is -1.</p> <p>If it is located on both sides of the centerline, with reference to digitized direction, the value is 0.</p>		Number
REMARKS	This field stores additional information on Permit. This field can be used for displaying labels.	255	Text
CRE_DATE	To store the date that the record was created		Date/Time
LAST_UPD_DATE_V	To store the date that the record was updated for VASP		Date/Time

14. ONSTREETPARK

ITEM NAME	DESCRIPTION	WIDTH	TYPE
FEATUREID	The unique identifier of On-street Parking		Number
CRE_DATE	To store the date that the record was created		Date/Time
LAST_UPD_DATE	To store the date that the record was updated		Date/Time
OBJECTID	Object ID		Object ID

15. GISP\_ON\_STREET\_PARKING

ITEM NAME	DESCRIPTION	WIDTH	TYPE
FEATUREID	Feature ID of On-street Parking		Number
STREET_NAME	Street Name of On-street Parking	100	Text
METER_NONMETER	To indicate whether meter is provided	1	Text
CAPACITY	Capacity of On-street Parking		Number
VEHICLE_TYPE_DESCRIPTION	Vehicle Type of On-street Parking	100	Text
PARK_METER_PERIOD_DESC	Park Meter Period of On-street Parking	100	Text
LAST_UPDATE_DATE	To store the date that the record was updated		Date/Time

## 16. TUN\_BRIDGE\_TOLL

ITEM NAME	DESCRIPTION	WIDTH	TYPE
TUNNEL_BRIDGE_NAME	English Name of Tunnel / Bridge	100	Text
TUNNEL_BRIDGE_CHINESE_NAME	Chinese Name of Tunnel / Bridge	100	Text
FEATURE_ID_1	Feature ID #1 of Tunnel / Bridge		Number
FEATURE_ID_2	Feature ID #2 of Tunnel / Bridge		Number
EFFECTIVE_DATE	Effective Date of toll rates		Date/Time
GAZETTED_TOLL	Gazetted toll rates of Tunnel / Bridge		Integer
CONCESSION_TOLL	Concession toll rates of Tunnel / Bridge		Integer
VEHICLE_CLASS_DESCRIPTION	Description of vehicle type for the toll rate	5	Text
REMARKS	Remarks of Tunnel / Bridge	1000	Text
LAST_UPDATED_DATE	To store the date that the record was updated	10	Text

## Entity Relationship Diagram



