Data Specification of Road Network (17 November 2017)

Introduction

Road Network dataset models the system of interconnected roads, which is stored as lines representing road or carriageway centrelines, and points indicating intersections. Dynamic event features such as speed limit and vehicle restriction are designed as linear referencing events built on top of the road route. The dataset is provided in the formats of Markup Language (gml/xml/xsd) and ESRI Geodatabase (mdb).

Summary of IRNP RdNet Entities

No.	Filename	Entity in ER Diagram	Description	Remarks
1	centreline	centreline	Centreline - Line feature of road centreline	
2	turn	turn	Turn - Turn feature representing restricted turn movement among road centrelines	
3	intersection	intersection	Intersection - Point feature on intersection of two centrelines	
4	rndabout	rndabout	Roundabout - Point feature representing location of roundabout	
5	traf_features	traf_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
6	runinout	runinout	Run-in and Run-out - Point feature of run-in, run-out or run-in/run-out of off-street parking sites.	Mainly public parking sites with 100 or more parking spaces
7	nsr	nsr	No Stopping Restriction - Line feature representing extent of no stopping restriction along roads.	
8	roadroute	roadroute	Road Route - Line feature as underlying layer for storing linear referencing events.	This layer is generated by the system automatically.
9	pedestrian_zone	pedestrian_zone	Pedestrian Zone - Linear referencing line event representing pedestrian zone	
10	bus_only_lane	bus_only_lane	Bus Only Lane - Linear referencing line event representing extent of bus only lane	

11	speed_limit	speed_limit	Speed Limit - Linear referencing line event representing extent of road with specified speed limit	
12	prohibition	prohibition	Prohibition - Linear referencing point event representing location of traffic sign of prohibition on road.	
13	vehicle_restriction	vehicle_ restriction	Vehicle Restriction - Linear referencing point event representing location of traffic sign of vehicle restriction on road.	
14	permit	permit	Permit - Linear referencing point event representing location of directional sign or traffic sign indicating road access with permit or authorisation.	Only major roads requiring permit for access are included.
15	onstreetpark	onstreetpark	On-street Parking - Location of on-street parking	
16	gisp on street parking	gisp on street parking	Reference of On-street Parking - Additional textual information of Location of on-street parking	
17	tun_bridge_toll	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.

Data Definition of IRNP RdNet Entities

1. CENTRELINE
    - File: CENTRELINE

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	SDE 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	20	Text
LAST_UPD_DATE_V	To store the date that the record was updated for VASP	20	Text
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
    - File: TURN

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	SDE 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 feature identifier of the line 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 feature identifier of the line 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 feature identifier of the line 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 feature identifier of the line 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 feature identifier of the line 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 feature identifier of the line 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 feature identifier of the line 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 feature identifier of the line 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	20	Text
REMARKS	Additional Information	255	Text
LAST_UPD_DATE_V	To store the date that the record was updated for VASP	20	Text
TURN_ID	Unique identifier of turn		Number
SHAPE	Shape of Feature		OLE Object
EXC_VEH_TYPE	This field is used to indicate one or more vehicle types excluded by the turn restriction. Possible vehicle types include: a) ALL = All Motor Vehicle b) FB = Franchised Bus c) GMB = Green Mini Bus d) GV = Goods Vehicle e) NA = NA (Default) f) NFB = Non-franchised Bus g) OTH = Others h) PC = Private Car i) PLB = Public Light Bus j) RLB = Private Light Bus k) TX = Taxi	100	Text
INC_VEH_TYPE	This field is used to indicate one or more vehicle types included by the turn restriction. Possible vehicle types include: a) ALL = All Motor Vehicle b) FB = Franchised Bus c) GMB = Green Mini Bus d) GV = Goods Vehicle e) NA = NA (Default) f) NFB = Non-franchised Bus g) OTH = Others h) PC = Private Car i) PLB = Public Light Bus j) RLB = Private Light Bus k) TX = Taxi	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	Other Type of Restriction. The values include: a) NA b) Length c) Height d) Weight e) Axle Weight	100	Text
SHAPE_Length	Length of feature	10	Number

3. INTERSECTION
   - File: INTERSECTION

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	SDE Object ID		AutoNumber
CRE_DATE	To store the date that the record was created	20	Text
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
REMARKS	Additional Information	255	Text
LAST_UPD_DATE_V	To store the date that the record was updated for VASP	20	Text

4. ROUNDABOUT
   - File: RNDABOUT

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	SDE Object ID		AutoNumber
SHAPE	Shape of Feature		OLE Object
CRE_DATE	To store the date that the record was created	20	Text
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	There are four types of roundabouts:
	a) 1 = Typical roundabouts (default);
	b) 2 = Mini roundabouts; (The radius of the center part of the roundabout is less than two meters)
	c) 3 = Double roundabouts;
	d) 4 = others
			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 1st Road Centerline		Number
RD_ID_2	The identifier of 2nd Road Centerline		Number
RD_ID_3	The identifier of 3rd Road Centerline		Number
RD_ID_4	The identifier of 4th Road Centerline		Number
RD_ID_5	The identifier of 5th Road Centerline		Number
RD_ID_6	The identifier of 6th Road Centerline		Number
RD_ID_7	The identifier of 7th Road Centerline		Number
RD_ID_8	The identifier of 8th Road Centerline		Number
RD_ID_9	The identifier of 9th Road Centerline		Number
RD_ID_10	The identifier of 10th 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	20	Text

5. TRAFFIC FEATURES
   - File: TRAF_FEATURES

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	SDE Object ID		AutoNumber
SHAPE	Shape of Feature		OLE Object
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	20	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
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	20	Text

6. RUN-IN and RUN-OUT
   - File: RUNINOUT

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	SDE Object ID		Number
SHAPE	Shape of Feature		OLE Object
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	20	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
REMARKS	This field stores additional information	255	Text
LAST_UPD_DATE_V	To store the date that the record was updated for VASP	20	Text
BUILDING_ADDRESS	Building of off-street parking site	255	Text

7. NO STOPPING RESTRICTION
   - File: NSR

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	SDE Object ID		AutoNumber
SHAPE	Shape of the feature		OLD Object
VEHICLE_TYPE	This is the field where the type of vehicle is stored. Vehicle restriction includes: 1 – All motor vehicles 2 – Taxis 3 – PLBs 4 – Goods Vehicles 5 – Others		Number
TIME_ZONE	This field stores information with regard to the time zone of the restriction. 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		Number
EFFECTIVE_DAY	This field stores information with regard to the effective day of the restriction. 1 – All days 2 – All days except Sundays and Public Holidays 3 – General Holidays (Sundays and Public Holidays) 4 – Others		Number
CRE_DATE	To store the date that the record was created	20	Text
NSR_ID	An 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	20	Text
SHAPE_Length	Length of feature		Number

8. ROAD ROUTE
    - File: ROADROUTE

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	SDE Object ID		AutoNumber
SHAPE	Shape of Feature		OLE Object
ROUTE_ID	A unique identifier storing the road route ID		Number
CRE_DATE	To store the date that the record was created	20	Text
LAST_UPD_DATE_V	To store the date that the record was updated for VASP	20	Text

9. PEDESTRIAN ZONE
    - File: PEDESTRIAN_ZONE

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	SDE Object ID		AutoNumber
ROAD_ROUTE_ID	This is the field that stores the Road Route identifier of the Road Route (ROUTE_ID) to be tagged by linear referencing event.		Number
FROM_POINT	This is the field that stores the starting location with regard to the reference point.		Number
TO_POINT	This is the field that stores the ending location with regard to the reference point.		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 1st digit represents Monday, 2nd digit represents Tuesday and so on. The 8th 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	An unique identifier of storing the Pedestrian Zone event		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

10. BUS ONLY LANE
    - File: BUS_ONLY_LANE

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	SDE Object ID		AutoNumber
ROAD_ROUTE_ID	This is the field that stores the Road Route identifier of the Road Route (ROUTE_ID) to be tagged by linear referencing event.		Number
FROM_POINT	This is the field that stores the starting location with regard to the reference point.		Number
TO_POINT	This is the field that stores the ending location with regard to the reference point.		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 1st digit represents Monday, 2nd digit represents Tuesday and so on. The 8th 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
OFFSET	This field is used to indicate the offset distance of the bus only lane along the road route for map display. For the event locates on the left hand side of the road route with reference to measured direction, the offset value would be assigned as positive. For the event locates on the right hand side of the road route with reference to measured direction, the offset value would be assigned as negative. For the event locates on both sides of the road route, with reference to measured direction, the offset value would be assigned as zero.		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	An unique identifier of storing the Bus Only Lane event		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

11. SPEED LIMIT
    - File: SPEED_LIMIT

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	SDE Object ID		AutoNumber
SPEED_LIMIT_ID	An unique identifier of storing the Speed Limit event		Number
ROAD_ROUTE_ID	This is the field that stores the Road Route identifier of the Road Route (ROUTE_ID) to be tagged by linear referencing event.		Number
FROM_POINT	This is the field that stores the starting location with regard to the reference point.		Number
TO_POINT	This is the field that stores the ending location with regard to the reference point.		Number
SPEED_LIMIT	This is the field that stores speed limit for the route segment (in km/hr).	255	Text
OFFSET	This field is used to indicate the offset distance of the speed limit along the road route for map display. For the event locates on the left hand side of the road route with reference to measured direction, the offset value would be assigned as positive. For the event locates on the right hand side of the road route with reference to measured direction, the offset value would be assigned as negative. For the event locates on both sides of the road route, with reference to measured direction, the offset value would be assigned as zero.		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

12. PROHIBITION
    - File: PROHIBITION

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	SDE Object ID		AutoNumber
PROHIBITION_ID	An unique identifier of storing the Prohibition event		Number
EXC_VEH_TYPE	This field is used to indicate one or more vehicle types excluded by the prohibition. Possible vehicle types include: a) ALL = All Motor Vehicle b) FB = Franchised Bus c) GMB = Green Mini Bus d) GV = Goods Vehicle e) NA = NA (Default) f) NFB = Non-franchised Bus g) OTH = Others h) PC = Private Car i) PLB = Public Light Bus j) RLB = Private Light Bus k) TX = Taxi	100	Text
INC_VEH_TYPE	This field is used to indicate one or more vehicle types included by the prohibition. Possible vehicle types include: l) ALL = All Motor Vehicle m) FB = Franchised Bus n) GMB = Green Mini Bus o) GV = Goods Vehicle p) NA = NA (Default) q) NFB = Non-franchised Bus r) OTH = Others s) PC = Private Car t) PLB = Public Light Bus u) RLB = Private Light Bus v) TX = Taxi	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	Other Type of Restriction. The values include: a) NA b) Length c) Height d) Weight e) Axle Weight	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) to be tagged by linear referencing event.		Number
OFFSET	This field is used to indicate the offset distance of the prohibition along the road route for map display. For the event locates on the left hand side of the road route with reference to measured direction, the offset value would be assigned as positive. For the event locates on the right hand side of the road route with reference to measured direction, the offset value would be assigned as negative. For the event locates on both sides of the road route, with reference to measured direction, the offset value would be assigned as zero.		Number
LOCATION	This is the field that stores the location with regard to the reference point.		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

13. VEHICLE RESTRICTION
    - File: VEHICLE_RESTRICTION

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	SDE Object ID		AutoNumber
ROAD_ROUTE_ID	This is the field that stores the Road Route identifier of the Road Route (ROUTE_ID) to be tagged by linear referencing event.		Number
LOCATION	This is the field that stores the location with regard to the reference point.		Number
MAX_AXLE_WEIGHT	The maximum weight of the axle of the vehicle that the road can support.	10	Text
OFFSET	This field is used to indicate the offset distance of the vehicle restriction along the road route for map display. For the event locates on the left hand side of the road route with reference to measured direction, the offset value would be assigned as positive. For the event locates on the right hand side of the road route with reference to measured direction, the offset value would be assigned as negative		Number
VR_ID	An unique identifier of storing the Vehicle Restriction event		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

14. PERMIT
    - File: PERMIT

ITEM NAME	DESCRIPTION	WIDTH	TYPE
OBJECTID	SDE Object ID		AutoNumber
PERMIT_ID	An unique identifier of storing the Permit event		Number
ROAD_ROUTE_ID	This is the field that stores the Road Route identifier of the Road Route (ROUTE_ID) to be tagged by linear referencing event.		Number
LOCATION	This is the field that stores the location with regard to the reference point		Number
OFFSET	This field is used to indicate the offset distance of the bus only lane along the road route for map display. For the event locates on the left hand side of the road route with reference to measured direction, the offset value would be assigned as positive. For the event locates on the right hand side of the road route with reference to measured direction, the offset value would be assigned as negative. For the event locates on both sides of the road route, with reference to measured direction, the offset value would be assigned as zero.		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

15. ON STREET PARKING SPACE
    - File: ONSTREETPARK

ITEM NAME	DESCRIPTION	WIDTH	TYPE
FEATUREID	The unique identifier of On-street Parking Space		Number
CRE_DATE	To store the date that the record was created	20	Text
LAST_UPD_DATE	To store the date that the record was updated	20	Text
SHAPE	Shape of the feature		OLE Object
OBJECTID	SDE Object ID		AutoNumber
SHAPE_Length	Length of feature		Number
SHAPE_Area	Area of feature		Number

16. REFERENCE OF ON STREET PARKING SPACE
    - File: GISP ON STREET PARKING

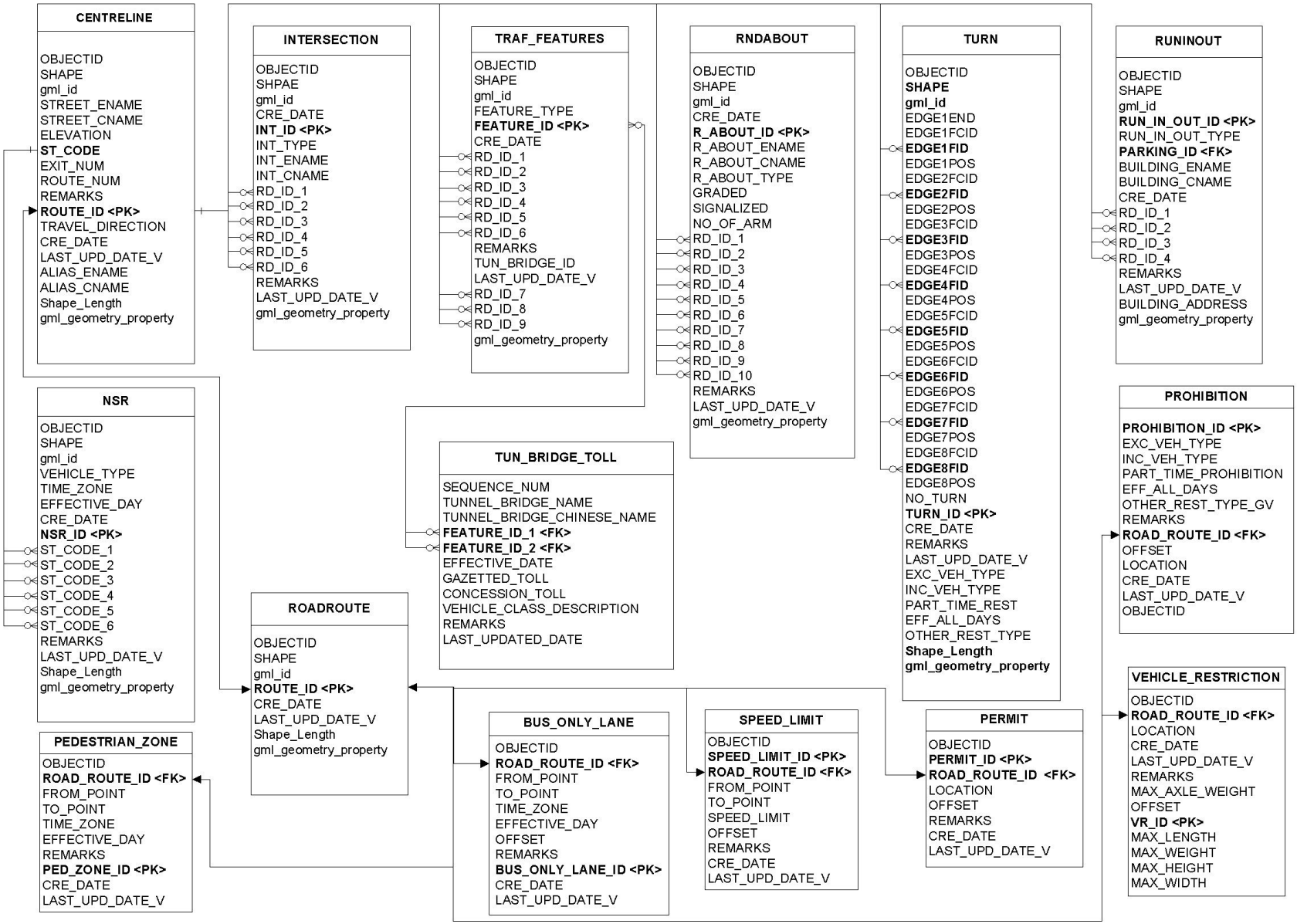
ITEM NAME	DESCRIPTION	WIDTH	TYPE
FEATUREID	Feature ID of On-street Parking		Number
STREET_NAME	Street Name of On-street Parking	100	Text
METER_NONMETER	To indicate whether meter is provided	1	Text
CAPACITY	Capacity of On-street Parking		Number
VEHICLE_TYPE_DESCRIPTION	Vehicle Type of On-street Parking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

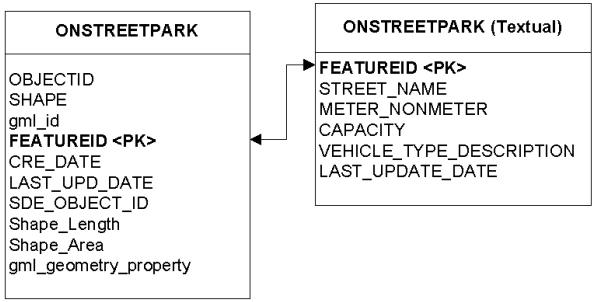
17. TOLL INFORMATION OF TUNNEL AND BRIDGE

- File: TUN_BRIDGE_TOLL

ITEM NAME	DESCRIPTION	WIDTH	TYPE
SEQUENCE_NUM	The unique identifier of toll rates		Number
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		Date/Time

Entity Relationship Diagram




ONSTREETPARK
OBJECTID
SHAPE
gml_id
FEATUREID <PK>
CRE_DATE
LAST_UPD_DATE
SDE_OBJECT_ID
Shape_Length
Shape_Area
gml_geometry_property
ONSTREETPARK (Textual)
FEATUREID <PK>
STREET_NAME
METER_NONMETER
CAPACITY
VEHICLE_TYPE_DESCRIPTION
LAST_UPDATE_DATE