GIS Data Hub Data Collection Specification - Part 2

Data Specification 16

The details of the data to be submitted are as follows:

16.1 Arrow Marking (Point)

Description: A point representation of an arrow painted on the road surface to advice

motorists on the direction of traffic flow.

Attribute Format:

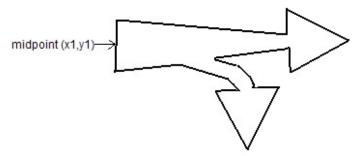
| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description | | |
|------------|--------------|------|-----------|-------|---------------|-------------------------------------|-----------------------------------|--|--|
| TYP_CD | String | 4 | 0 | 0 | No | A, B, C, D, E, F, G, H, I, J, K, | Please see Note 3 | | |
| | | | | | | L, M, N, O | | | |
| BEARG_NUM | Double | 8 | 38 | 8 | No | Bearing. Please see Note 2 | | | |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of road w | evel of road where feature exists | | |
| | | | | | | 2 | At-grade (ground level) | | |
| | | | | | | 8 | 1st level depressed road | | |
| | | | | | | 9 | 1st level elevated road | | |
| | | | | | | 7 | 2nd level depressed road | | |
| | | | | | | 10 | 2nd level elevated road | | |
| RD_CD | Text | 6 | 0 | 0 | No | Refer to list | Road Code (assigned to the | | |
| | | | | | | | Road Name) where feature | | |
| | | | | | | | exists | | |

Notes:

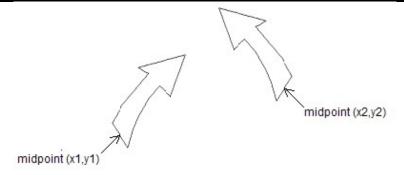
1) Arrow Marking co-ordinate is the midpoint at the base of the arrow in the direction of the traffic flow.

For example,

a) Type C (straight / right turn shared arrow): one arrow only, hence only one point (x1, y1) required.



b) Types G (left converging arrow) & H (right converging arrow): two arrows, hence two points (x1, y1) and (x2, y2) are required.



2) The bearing should correspond with the bearing of each individual road. For example, if the bearing of the road is 97 degrees, then the bearing of arrow markings A is 97 degrees and the bearing of arrow markings B is 277 degrees respectively.





3) List of TYP CD:



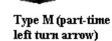
turn arrow)

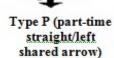
Type D (straight arrow)

Type G (left converging arrow)



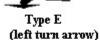
Type J (yellow coloured straight/right turn shared arrow)

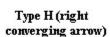






Type B (straight/left turn shared arrow)







shared arrow)

Type N (part-time straight arrow)





Type C (straight/right turn shared arrow)



Type F (left/right turn shared arrow)



Type I (straight/left/right turn shared arrow)



Type L (part-time right turn arrow)



Type O (part-time left/right turn shared arrow)

Bicycle Rack (Point) 16.2

A point representation of a stationary fixture to which a bicycle can be **Description:** securely attached to prevent theft & for parking purposes.

Attribute Format:

| Field Name | Data | Size | Precision | Scale | Allow Null | Value | Description | |
|--------------|--------|------|-----------|-------|---------------|-----------|---------------------------|--|
| | Туре | | _ | | | | | |
| RACK_CNT | Short | 2 | 0 | 0 | No | No of ra | CKS | |
| TYP_CD | String | 6 | 0 | 0 | No | Type of t | tier | |
| | | | | | | D | Double | |
| | | | | | | S | Single | |
| SHLTR_IND | String | 1 | 0 | 0 | Yes | Field to | indicate whether Bicycle | |
| | | | | | | Rack is s | heltered or not. | |
| | | | | | | Υ | Yes | |
| | | | | | | N | No | |
| RACK_DIM | String | 25 | 0 | 0 | Yes | Height a | nd Width of the Rack | |
| AGENCY_IMPL | String | 6 | 0 | 0 | No | Impleme | enting Agency | |
| AGENCY_MAINT | String | 6 | 0 | 0 | No | Mainten | ance Agency | |
| BLDG_NAM | String | 66 | 0 | 0 | Yes | Building | Name | |
| LOCATION | String | 500 | 0 | 0 | Yes | Location | Location of bicycle rack | |
| POSTAL_CD | String | 6 | 0 | 0 | Yes | A uniqu | ie six-digit numeric code | |
| | | | | | | assigned | to each property address. | |

Notes:

List of TYP_CD:





16.3 Bollard (Point)

Description:

A point representation of a strong thick post erected on streets to deter vehicles from passing through. It is also used as markers on road divider or as safety barriers along bus bay or side of roads.

Split arrow bollard is to be captured under 'TRAFFIC SIGN'.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|------------|--------------|------|-----------|-------|---------------|------------|--------------------------|
| TYP_CD | String | 4 | 0 | 0 | No | Please se | e Note 3, 4 |
| | | | | | | С | Concrete |
| | | | | | | D | Flexible Delineator Post |
| | | | | | | F | Fibre Glass |
| | | | | | | FP | Flexible Pole |
| | | | | | | 0 | Others |
| | | | | | | S | Steel |
| | | | | | | SL | Spring Loaded Post |
| | | | | | | Т | Safety |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | oad where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |

Notes:

- 1. The co-ordinate shall be the centre point of the Bollards.
- 2. Bollards in a row are to be recorded individually.
- 3. If TYP_CD is not in the list, assign type 'O' (Others), and attach the photographs.
- 4. List of TYP CD:





| RIMS Unit | • | GIS Data Collection Specification |
|-----------|--|-----------------------------------|
| TYP_CD | Description | |
| D | Flexible Delineator Post | |
| F | Fibre Glass | |
| FP | Flexible Post (look very similar to Spring Loaded bollard except it is made of flexible material) | Flexible posts |
| | | Close-up |



| TYP_CD | Description | GIS Data Collection Specification |
|--------|--|-----------------------------------|
| S | Steel | SGB 8421Y |
| SL | Spring Loaded Post (Post is (made of PVC material) | |
| Т | Safety | |

16.4 Bus Shelter (Line)

Description: A line representation of a shelter for bus commuters.

Attribute Format:

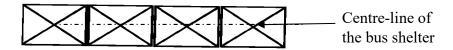
| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|--------------|--------------|------|-----------|-------|---------------|-----------|------------------------------|
| TYP_CD | String | 4 | 0 | 0 | No | Please se | ee Note 7 |
| | | | | | | А | Type A |
| | | | | | | AC | Type AC |
| | | | | | | AF | Type AF |
| | | | | | | AP | Type AP |
| | | | | | | В | Type B |
| | | | | | | С | Type C |
| | | | | | | CA | Type CA |
| | | | | | | СВ | Type CB |
| | | | | | | CE | Type CE |
| | | | | | | СО | Type CO |
| | | | | | | CR | Type CR |
| | | | | | | FR | Type FR |
| | | | | | | 0 | Others |
| | | | | | | 00 | Type OO |
| | | | | | | RM | Type RM |
| | | | | | | RS | Type RS |
| | | | | | | 1C | Type 1C |
| | | | | | | 1F | Type 1F |
| | | | | | | IH | Type IH |
| | | | | | | 1P | Type 1P |
| | | | | | | 1S | Type 1S |
| BUS_STOP_NUM | String | 65 | 0 | 0 | No | Please se | ee Note 2 |
| UNIT_CNT | Short | 2 | 1 | 0 | No | Number | of units of the bus shelter. |
| | | | | | | Please se | ee Note 6 |
| BAY_IND | String | 1 | 0 | 0 | No | N | No bus bay |
| | | | | | | F | Flexible (premixed) bus bay |
| | | | | | | R | Rigid (concreted) bus |
| | | | | | | | bay |
| BUS_ROOF_NUM | String | 10 | 0 | 0 | No | Please se | ee Note 3 |
| STATUS | String | 20 | 0 | 0 | No | OP | OPERATIONAL |
| | | | | | | NOP | NON-OPERATIONAL |
| SERVICE_TYPE | String | 20 | 0 | 0 | No | BA | BASIC (DAY) |
| | | | | | | NB | NON BASIC (NIGHT) |
| | | | | | | ВО | BOTH (DAY&NIGHT) |
| | | | | | | BT | BUS TERMINAL |
| | | | | | | BI | BUS INTERCHANGE |
| | | | | | | BD | BUS DEPOT |
| | | | | | | NA | NIL |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of | road where feature exists |
| _ | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |



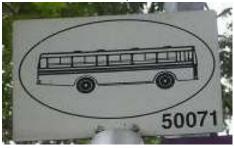
| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|------------|--------------|------|-----------|-------|---------------|--------------------|--|
| RD_CD | Text | 6 | 0 | 0 | No | Refer to list | Road Code (assigned to the Road Name) where feature exists |
| LOC_DESC | Text | 255 | 0 | 0 | No | Location the bus s | Description as shown on top pole |

Notes:

1. The centre-line of the bus shelter along its length should be recorded.



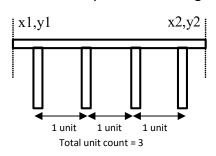
2. BUS_STOP_NUM - The five digit bus stop identification number that is displayed on the bus stop pole e.g. 50071. To record A as 1, Z as 9, B as 2, Y as 8 etc if the identification number contains alphabets.



3. BUS_ROOF_NUM - B-Series number showed on the side of bus shelter roof e.g. B01.



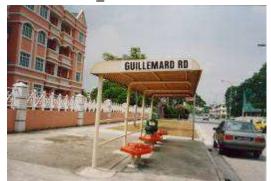
- 4. If TYP CD is not in the list, assign type 'O' (Others), and attach the photographs.
- 5. The length of the BUS SHELTER is to be recorded as from (x1, y1) to (x2, y2) i.e. the length of the roof. The number of units (UNIT_CNT) is illustrated below. If the no of units is not very obvious, the no of units should be derived by dividing the whole length of the bus shelter by 3 and rounding the result to the nearest whole no.







6. List of TYP_CD:



Type A





Type AF



Type AP



Type B



Type C



Type CA



Type CB





Type CE



Type CR



Type OO



Type RS



Type CO



Type FR



Type RM



Type 1C





Type 1F



Type IH







Type 1S



16.5 Bus Stop Pole (Point)

Description: A point representation of a pole to display the bus service numbers calling

at the bus-stop.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description | |
|--------------|--------------|------|-----------|------------------|---------------|--------------------|----------------------------------|--|
| BUS_STOP_NUM | String | 65 | 0 | 0 | No | Please se | Please see Note 2 | |
| BUS_ROOF_NUM | String | 10 | 0 | 0 | No | Please se | ee Note 3 | |
| STATUS | String | 20 | 0 | 0 | No | OP | OPERATIONAL | |
| | | | | | | NOP | NON-OPERATIONAL | |
| SERVICE_TYPE | String | 20 | 0 | 0 | No | BA | BASIC (DAY) | |
| | | | | | | NB | NON BASIC (NIGHT) | |
| | | | ВО | BOTH (DAY&NIGHT) | | | | |
| | | | | | | BT | BUS TERMINAL | |
| | | | | | | BI | BUS INTERCHANGE | |
| | | | | | | BD | BUS DEPOT | |
| | | | | | | NA | NIL | |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | road where feature exists | |
| | | | | | | 2 | At-grade (ground level) | |
| | | | | | | 8 | 1st level depressed road | |
| | | | | | | 9 | 1st level elevated road | |
| | | | | | | 7 | 2nd level depressed road | |
| | | | | | | 10 | 2nd level elevated road | |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to | |
| | | | | | | to list | the Road Name) where | |
| | | | | | | | feature exists | |
| LOC_DESC | Text | 255 | 0 | 0 | No | Location the bus s | Description as shown on top pole | |

Notes:

1. Record the co-ordinate of the BUS STOP POLE.







2. BUS_STOP_NUM - The five digit bus stop identification number that is displayed on the bus stop pole eg.50071 or 27301 as shown on new design. To record A as 1, Z as 9, B as 2, Y as 8 etc if the identification number contains alphabets.





3. BUS_ROOF_NUM - B-Series Number showed on the side of bus shelter roof e.g. B01.



- 4. SERVICE_TYPE
 - a) BASIC (Day)

This type of bus stop caters to services provided from 5.00am to 12.00midnight



b) NON BASIC (Night)

This type of bus stop caters to services provided from 12.00 midnight to 4.30am





c) BOTH (Day & Night)



This type of bus stop caters to both day and night bus services





16.6 Control Box (Point)

Description:

A point representation of a box containing electronic device to control traffic lights or street lighting. The Traffic Signal CONTROL BOX is found near signalised traffic junctions. Each traffic signal junction can have only ONE traffic signal control box. The collection of data covers only signalised junction, road crossing and street lighting control boxes. (Please refer to Note 1)

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|--------------|--------------|------|-----------|-------|---------------|--------------------|--------------------------|
| TYP_CD | String | 6 | 0 | 0 | No | Please se | e Note 1 |
| | | | | | | ERP | Electronic Road Pricing |
| | | | | | | J-EYES | J-Eyes Junction |
| | | | | | | LB | Lighting Box |
| | | | | | | OG | Over ground |
| | | | | | | TS | Traffic Signal |
| CNTL_BOX_NUM | String | 20 | 0 | 0 | No | Control box number | |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | oad where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer to | Road Code (assigned to |
| | | | | | | list | the Road Name) where |
| | | | | | | | feature exists |

Notes:

1. Only the control boxes that have LTA logo need to be captured.



2. List of TYP_CD:





| RIMS Unit | | GIS Data Collection Specification |
|-----------|--------------------|-----------------------------------|
| TYP_CD | Description | |
| LB | Street Lighting | 222 |
| OG | Over ground | |
| TS | Traffic Signal | 399 |



16.7 Convex Mirror (Point)

Description: A point representation of a mirror placed at street locations where visibility

is poor.

Attribute Format:

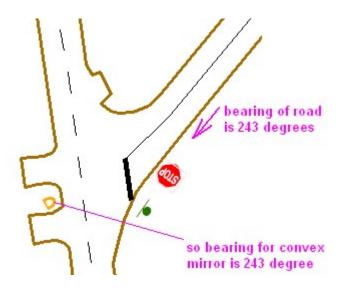
| Field Name | Data | Size | Precision | Scale | Allow | Value | Description |
|------------|--------|------|-----------|-------|-------|------------|--------------------------|
| | Туре | | | | Null | | |
| BEARG_NUM | Double | 8 | 38 | 8 | No | Bearing. | Please see Note 2 |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | oad where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |

Notes:

1. Record the co-ordinate of the pole on which the CONVEX MIRROR is mounted.



2. Bearing of convex mirror





16.8 Covered Linkway (Polygon)

Description: A polygon representation of a covered passage designated for pedestrian

use

to link up with other commuters facilities.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description | | |
|---------------|--------------|------|----------------------------------|------------------------------------|---------------|------------------|--|--|--|
| DESIGN_TYP | String | 6 | 0 | 0 | No | Please N | | | |
| | | | | | | 1PF | Single Pole Flat Roof (Mono pitch) | | |
| | | | 2PF | Double Pole Flat Roof (Mono pitch) | | | | | |
| | | 1PP | Single Pole Double Pitch Roof | | | | | | |
| | | | | | | 2PP | Double Pole Double Pitch Roof | | |
| | | | | | | 1PC | Single Pole Curve Roof | | |
| | | | | | | 2PC | Double Pole Curve Roof | | |
| | | | | | | X | Others | | |
| ROOF MATERIAL | String | 4 | 0 | 0 0 No Typ | | Type of F | Roof material | | |
| | | | | | | Α | Aluminium | | |
| | | | | | | Р | Polycarbonate | | |
| | | | | | | Т | Tiles | | |
| | | | | | | X | Others | | |
| WDT_CATG_CD | Short | 2 | 4 | 0 | No | Indicates | Indicates width of linkway roof | | |
| | | | | | | 1 | < 2.4m | | |
| | | | | | | 2 | 2.4m | | |
| | | | | | | 3 | >2.4m | | |
| HEIGHT | String | 2 | 0 | 0 | No | Indicates | linkway height | | |
| | | | | | | Н | High > 4.5m | | |
| | | | | | | L | Low < 4.5m | | |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of i | road where feature exists | | |
| | | | | | | 2 | At-grade (ground level) | | |
| | | | | | | 8 | 1st level depressed road | | |
| | | | | | | 9 | 1st level elevated road | | |
| | | | | | | 7 | 2nd level depressed road | | |
| | | | | | | 10 | 2nd level elevated road | | |
| RD_CD | Text | 6 | 0 | 0 | No | Refer to list | Road Code (assigned to the Road Name) where feature exists | | |

Notes:

a) The COVERED LINKWAY shall be represented by a polygon outlining the structure as seen from aerial view. The outline shall correspond to the outer edge of the roof of the covered linkway, as shows on example below by points 1, 2, 3, 4, 5, 6, 7, 8 & 9.



b) List of TYP CD



Type 1PF - Single pole flat roof



Type 2PF - Double pole flat roof





Type 1PP - Single pole double pitch roof



Type 2PP - Double pole double pitch roof



Type 1PC - Single pole curve roof



Type 2PC - Double pole curve roof



16.9 Cycling Marking (Point)

Description: A point representation a layer structure which will store both cycling path and bicycle crossing marking information; to differentiate which markings belongs to which category (i.e. Cycling Path Marking or Bicycle Crossing Marking).

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description | |
|----------------------|--------------|------|-----------|-------|---------------|---------------------------|---|--|
| CYL_PATH_CD | String | 6 | 0 | 0 | No | The Cycle | The Cycle path code that uniquely | |
| | | | | | | identifies | the Cycling path name. | |
| RD_CD | String | 6 | 0 | 0 | No | | code that uniquely | |
| | | | | | | | the road name. The road | |
| | | | | | | | unique name assigned | |
| | | | | | | | oad segment by the | |
| 13/1 811184 | Chaut | 1 | 0 | 0 | NI | | d Building Names Board. oad where feature exists | |
| LVL_NUM | Short | 4 | 0 | 0 | No | | | |
| | | | | | | | st level depressed road | |
| | | | | | | | st level depressed road | |
| | | | | | | | nd level depressed road | |
| | | | | | | | and level elevated road | |
| CATG CD | String | 1 | 0 | 0 | No | Category of Cycling Marks | | |
| · · · - · | | | | | | | Sicycle Crossing Markings | |
| | | | | | | | Cycling Path Markings | |
| TYP_CD | String | 25 | 0 | 0 | No | ARRW | Arrows | |
| | | | | | | BL | Bicycle Logo | |
| | | | | | | BLPM | Bicycle Logo Pavement Marker | |
| | | | | | | FL | Footprint Logo | |
| | | | | | | LW | LOOK Word | |
| | | | | | | SL | STOP Line | |
| | | | | | | STS | Strips | |
| | | | | | | SW | STOP Word | |
| BEARG_NUM | Double | 38 | 0 | 0 | No | | ng of the feature in o true north | |

Notes:

1. List of CATG CD:

| TYP_CD | Description |
|--------|-----------------------------------|
| ВҮС | Bicycle Crossing Marking Marking |



| | | | Old Data Collection Openingation |
|--------|---------------------|------|----------------------------------|
| TYP_CD | Description | on | |
| CYC | Cycling Markings | Path | |

2. List of TYP_CD:

| TYP_CD | Description | |
|--------|------------------------------------|------|
| BL | Bicycle Logo | SIE |
| BLPM | Bicycle Logo Pavement Marker | |
| FL | Footprint Logo | |
| LW | LOOK Word | LOOK |
| SL | Stop Line | STOP |
| STS | Strips | |



| TAINO OTIL | | Old Data Gollection openication |
|------------|-------------|---------------------------------|
| TYP_CD | Description | |
| SW | STOP Word | STOP |
| | | |

16.10 Cycling Path (Line)

Description: A line representation of the paths which will facilitate intra-town cycling connecting cyclists from their homes to key public transport hubs (such as MRT stations and bus interchanges), amenities (such as neighbourhood centres, markets, school) and Park Connector Network that run through other towns.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description | | |
|---------------|--------------|------|-----------|-------|---------------|---|---|--|--|
| CYL_PATH_CD | String | 6 | 0 | 0 | No | The Cycle path code that uniquely identifies the Cycling path name. | | | |
| RD_CD | String | 6 | 0 | 0 | No | identifie name is for eac Street ar | The road code that uniquely identifies the road name. The road name is a unique name assigned for each road segment by the Street and Building Names Board. | | |
| LVL_NUM | Short | 4 | 0 | 0 | No | | road where feature exists At-grade (ground level) | | |
| | | | | | | | 1st level depressed road | | |
| | | | | | | | 1st level elevated road | | |
| | | | | | | 7 | 2nd level depressed road | | |
| | | | | | | 10 | 2nd level elevated road | | |
| AGENCY_IMPL | String | 6 | 0 | 0 | No | Impleme | Implementing agencies. | | |
| AGENCY_MAINT | String | 6 | 0 | 0 | No | Mainten | ance agencies. | | |
| WIDTH | Double | 8 | 0 | 0 | Yes | Width of | Width of Cycle Path(m). | | |
| TYPE_MATERIAL | String | 6 | 0 | 0 | Yes | Type of I | Material. | | |
| | | | | | | FRPCC | Fibre Re-enforced Polymer Concrete Coating | | |
| | | | | | | None | None | | |
| SPEED | Double | 2 | 0 | 0 | Yes | Speed Li | mit (KM/Hour) | | |
| FT_MINUTES | Double | 4 | 0 | 0 | Yes | FROM TO | O Minutes | | |
| TF_MINUTES | Double | 4 | 0 | 0 | Yes | TO FROM | TO FROM Minutes | | |
| ONEWAY | String | 2 | 0 | 0 | Yes | Cycle pa | th direction. | | |
| | | | | | | FT | FROM-TO Direction | | |
| | | | | | | | TO- FROM Direction | | |
| | | | | | | N | Closed | | |



16.11 Cycling Path (Under Planning) (Line)

Description: A line representation of the paths under planning stage which will facilitate intra-town cycling connecting cyclists from their homes to key public transport hubs (such as MRT stations and bus interchanges), amenities (such as neighbourhood centres, markets, school) and Park Connector Network that run through other towns.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description | | |
|---------------|--------------|------|-----------|-------|---------------|---|---|--|--|
| CYL_PATH_CD | String | 6 | 0 | 0 | No | The Cycle path code that uniquely identifies the Cycling path name. | | | |
| RD_CD | String | 6 | 0 | 0 | No | identifie name is for eac | The road code that uniquely identifies the road name. The road name is a unique name assigned for each road segment by the Street and Building Names Board. | | |
| LVL_NUM | Short | 4 | 0 | 0 | No | 2 8 9 7 | road where feature exists At-grade (ground level) 1st level depressed road 1st level elevated road 2nd level depressed road 2nd level elevated road | | |
| AGENCY_IMPL | String | 6 | 0 | 0 | No | Implementing agencies. | | | |
| AGENCY_MAINT | String | 6 | 0 | 0 | No | Mainter | Maintenance agencies. | | |
| WIDTH | Double | 8 | 0 | 0 | Yes | Width o | Width of Cycle Path(m). | | |
| TYPE_MATERIAL | String | 6 | 0 | 0 | Yes | FRPCC None | Material. Fibre Re-enforced Polymer Concrete Coating None | | |
| SPEED | Double | 2 | 0 | 0 | Yes | Speed Li | imit (KM/Hour) | | |
| FT_MINUTES | Double | 4 | 0 | 0 | Yes | FROM T | O Minutes | | |
| TF_MINUTES | Double | 4 | 0 | 0 | Yes | TO FROI | TO FROM Minutes | | |
| ONEWAY | String | 2 | 0 | 0 | Yes | FT TF | rth direction. FROM-TO Direction TO- FROM Direction Closed | | |

16.12 Cycling Path Lighting Poles (Point)

Description: A point representation of a pole for mounting cycling path lighting.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description | |
|-------------|--------------|------|-----------|-------|---------------|-------------|-------------------------------|--|
| CYL_PATH_CD | String | 6 | 0 | 0 | No | The Cyc | cle path code that uniquely | |
| | | | | | | identifie | es the Cycling path name. | |
| RD_CD | String | 6 | 0 | 0 | No | The ro | oad code that uniquely | |
| | | | | | | identifie | es the road name. The road | |
| | | | | | | name i | s a unique name assigned | |
| | | | | | | for eac | ch road segment by the | |
| | | | | | | Street a | nd Building Names Board. | |
| LVL_NUM | Short | 4 | 0 | 0 | No | Level of | road where feature exists | |
| | | | | | | 2 | At-grade (ground level) | |
| | | | | | | 8 | 1st level depressed road | |
| | | | | | | 9 | 1st level elevated road | |
| | | | | | | 7 | 2nd level depressed road | |
| | | | | | | 10 | 2nd level elevated road | |
| POLE_NUM | String | 20 | 0 | 0 | Yes | Pole Number | | |
| DIST_POLE | Number | 4 | 0 | 0 | Yes | Distanc | Distance between two poles(m) | |
| BRIGHTNESS | Double | 8 | 0 | 0 | Yes | Brightn | ess of the light | |



16.13 Cycling Signs (Point)

Description: A point representation of the cycling sign (i.e. Cycling Path Signs, Bicycle Crossing Signs) that help to regulate, warm, guide or inform all cycling path users.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description | | |
|------------------------|------------------|---------|-----------|-------|---------------|----------------------------------|---|--|--|
| CYL_PATH_CD | String | 6 | 0 | 0 | No | | The Cycle path code that uniquely identifies the Cycling path name. | | |
| RD_CD | String | 6 | 0 | 0 | No | identifie name is for eacl | The road code that uniquely identifies the road name. The road name is a unique name assigned for each road segment by the Street and Building Names Board. | | |
| LVL_NUM | Short | 4 | 0 | 0 | No | 2 8 9 7 | road where feature exists At-grade (ground level) 1st level depressed road 1st level elevated road 2nd level depressed road 2nd level elevated road | | |
| CATG_CD | String | 1 | 0 | 0 | No | ВҮС | of Cycling Signs Bicycle Crossing Signs Cycling Path Signs | | |
| TYP_CD | String | 25 | 0 | 0 | No | 1 | Please refer to Section 18 for the Type code | | |
| BEARG_NUM MOUNT MTD CD | Double String | 38 1 | 0 | 0 | No Yes | | of Cycling Sign thod used to mount the | | |
| WIGGINI_WITD_CD | Julig | 1 | U | U | ies | Feature B G L P Q S W X | Bridge Gantry Lamp Post 1-Pole 2-Pole Traffic Signal Wall Others | | |



16.14 Detector Loop (Polygon)

Description: A polygon representation of an electronic loop on the road surface at

strategic

locations to detect traffic movements for traffic control purposes.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|------------|--------------|------|-----------|-------|---------------|-------------|--------------------------|
| TYP_CD | String | 4 | 0 | 0 | No | Please see | e Note 1 |
| | | | | | | В | Bus Detector |
| | | | | | | l I | Tactical Loop – RIGHT |
| | | | | | | L | Tactical Loop – LEFT |
| | | | | | | R | Red Light Camera |
| | | | | | | S | Strategic Loop |
| | | | | | | Т | Tactical Loop – |
| | | | | | | | REGULAR |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of re | pad where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed |
| | | | | | | | road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed |
| | | | | | | | road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer to | Road Code (assigned to |
| | | | | | | list | the Road Name) where |
| | | | | | | | feature exists |

Notes:

1. List of TYP_CD:

| TYP_CD | Description |
|--------|---------------------------------------|
| В | Bus Detector Loop |
| | For detecting buses along bus lanes. |
| | They are always 10m in length. |
| | Collection rules are the same as that |
| | for Strategic Loop. |
| | |

TYP_CD Description L, I & T **Tactical Loop** Type M Lane Marking For detecting existence of traffic at junction approaches. It is a trapezoid that slants at 45° to the Lane Marking stop line, and spans two or three lanes. It can also be a regular rectangle that spans two or three See Inset A See Inset B lanes. Tactical Loops always occur before the stop line. Direction of flow Tactical Loop - Left , Right & Regular are to be recorded, as Inset A **Inset B** shown in their respective insets, P1 P2 where coordinates of points P1, P2, P2 P3 and P4 are to be recorded as vertices of the polygon. Tactical Loop - Left Tactical Loop - Right Type M Lane Marking Lane Marking See Inset Α Direction of flow Inset A Ρ1 P2 P4 P3 Tactical Loop - Regular

| RIMS Unit | | GIS Data Collection Specification |
|-----------|---|--|
| TYP_CD | Description | |
| R | For each of the detector loop rectangles shown below, coordinates of points P1, P2, P3 and P4 are to be recorded as vertices of the polygon. | Direction of flow Inset A P1 P2 P4 P3 Red Light Camera |
| S | Strategic Loop For monitoring speed and number of vehicles passing within a lane. The illustration below depicts two types of strategic loop. Each type is to be recorded as shown in the inset, where coordinates of points P1, P2, P3 and P4 are to be recorded as the vertices of the polygon. | See Inset A Direction of flow P2 P4 P2 P4 P2 P4 P3 P3 P3 P3 P4 P5 P4 P5 P5 P5 P5 P5 |



16.15 Emergency Gate (Point)

Description:

A point representation of a gate found along an expressway to be used during an emergency. The co-ordinate of EMERGENCY GATE is to be recorded at the centre point of the Gate.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|------------|--------------|------|-----------|-------|---------------|------------------------------------|--------------------------|
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of road where feature exists | |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |

Notes:

An emergency gate.



16.16 Footpath (Line)

Description: A line representation of a path designated for pedestrian use. It is usually associated with bus shelter, passenger pick-up bay or taxi shelter.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|-------------|--------------|------|-----------|-------|---------------|------------------------------------|-------------------------------------|
| TYP_CD | String | 4 | 0 | 0 | No | Please Note 2 | |
| _ | | | | | | В | Bricks |
| | | | | | | С | Concrete |
| | | | | | | G | Granolithic |
| | | | | | | 0 | Others |
| | | | | | | S | Slabbed |
| | | | | | | Т | Tile |
| WDT_CATG_CD | Short | 2 | 4 | 0 | No | Width Category | |
| | | | | | | 1 | <=1.2m width |
| | | | | | | 2 | >1.2 & <2m width |
| | | | | | | 3 | >=2m width |
| GRNT_IND | String | 1 | 0 | 0 | No | Drain grating indicator | |
| | | | | | | Υ | Yes |
| | | | | | | N | No |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of road where feature exists | |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where feature exists |

Notes:

- 1. The centre line of the FOOTPATH is to be captured.
- List of TYP_CD:





| RIMS Unit | | GIS Data Collection Specification |
|-----------|-------------|-----------------------------------|
| TYP_CD | Description | Remarks |
| С | Concrete | |
| G | Granolithic | Close up of the material |
| S | Slabbed | |
| T | Tile | |

16.17 Gantry (Line)

Description: A line representation of a raised metallic structure spanning across a

carriageway to support signage or electronic equipment.

Attribute Format:

| Field Name | Data | Size | Precision | Scale | Allow | Value | Description |
|------------|--------|------|-----------|-------|-------|------------------------------------|---------------------------|
| | Туре | | | | Null | | |
| TYP_CD | String | 4 | 0 | 0 | No | Please see Note 2 | |
| | | | | | | D | Directional |
| | | | | | | E | EMAS |
| | | | | | | Н | Height Limit |
| | | | | | | P | ERP |
| GNTRY_NUM | String | 10 | 0 | 0 | Yes | The number on the gantry | |
| MIN_HT_NUM | Double | 8 | 38 | 8 | No | Lowest of three readings, | |
| | | | | | | ± 0.1m a | accuracy. Please see Note |
| | | | | | | 1. | |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of road where feature exists | |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |

Notes:

1. Three readings of relative height between the bottom of the GANTRY and road surface at three different locations are required. The lowest reading shall be recorded in MIN_HT_NUM field.

2. List of TYP CD:





| RIMS Unit | | GIS Data Collection Specification |
|-----------|--------------|---|
| TYP_CD | Description | |
| E | EMAS | CONTRACTORIST THAT |
| Н | Height Limit | HERNY LIMIT ZAIN (D) S. LEYS LEVI LEVI (D) HERNY LIMIT ZAIN (D) |
| P | ERP | ERP |



16.18 Guardrail (Line)

Description: A line representation of a safety barrier to prevent vehicles from going off

the road carriageway.

Attribute Format:

| Field Name | Data | Size | Precision | Scale | Allow | Value | Description |
|------------|--------|------|-----------|-------|-------|------------|--------------------------|
| | Туре | | | | Null | | |
| TYP_CD | String | 4 | 0 | 0 | No | Please se | e Note 1, 3 |
| | | | | | | CC | Crash Cushion |
| | | | | | | SD | Steel P, Double layer |
| | | | | | | SS | Steel P, Single layer |
| | | | | | | ST | Steel P, Triple layer |
| | | | | | | ТВ | Thrie Beam |
| | | | | | | TD | Timber P, Double layer |
| | | | | | | TS | Timber P, Single layer |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | oad where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |

Notes:

- 1. The TYP_CD field, i.e. 'Steel' or 'Timber' refers to the make of the pole of the GUARDRAIL.
- 2. The length of the GUARDRAIL is the two end-most points.



3. List of TYP CD:

| TYP_CD | Description | |
|--------|---------------|--|
| СС | Crash Cushion | |



| RIMS Unit | | GIS Data Collection Specification |
|-----------|-----------------------|-----------------------------------|
| TYP_CD | Description | |
| SD | Steel P, Double layer | |
| SS | Steel P, Single layer | STRIPS |
| ST | Steel P, Triple layer | |
| ТВ | Thrie Beam | |



| TYP_CD | Description |
|--------|------------------------|
| TS | Timber P, Single layer |

16.19 Kerbline (Line)

Description: A line representation of the edges of carriageway used for vehicular traffic.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|------------|--------------|------|-----------|-------|---------------|------------|--------------------------|
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | oad where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| | | | | | | 16 | temporary |

Notes:

1. KERBLINES for both edges of the carriageway, central dividers and islands are to be captured.

16.20 Kerb Side Parking (Line)

A line representation of parking facility for vehicles along the side of road. **Description:**

The span record shall be per TYPE OF PARKING LOTS.

Attribute Format:

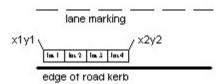
| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|------------|--------------|------|-----------|-------|---------------|------------|--------------------------|
| TYP_CD | String | 4 | 0 | 0 | No | Please se | ee Note 3 |
| | | | | | | В | Bus |
| | | | | | | С | Car |
| | | | | | | CL | Car\Lorry |
| | | | | | | Н | Heavy Vehicle |
| | | | | | | М | Motorcycle |
| | | | | | | Т | Taxi |
| LOTS_CNT | Long | 4 | 10 | 0 | No | Number | of parking lots |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | oad where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |

Notes:

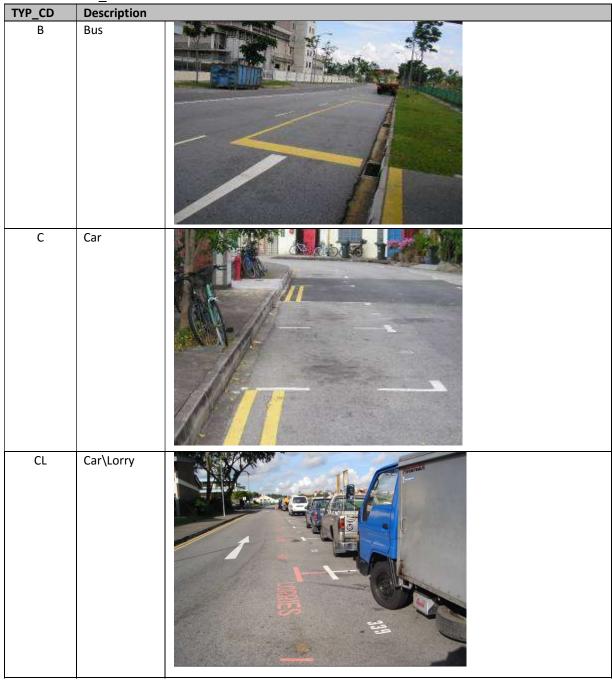
1. If there are parking lots for both Motorcycles and Cars along the same location, two separate records for Motorcycle lots and Car lots are to be captured respectively.



2. The length of KERB SIDE PARKING is the two end-most points of parking boundary.



3. List of TYP_CD:





| RIMS Unit | | GIS Data Collection Specification |
|-----------|------------------|-----------------------------------|
| TYP_CD | Description | |
| H | Heavy Vehicle | |
| M | Motorcycle | |
| Т | Taxi | A BHS R |
| CL | Car\Lorry | |



16.21 Lamp Post (Point)

Description:

A point representation of a pole for mounting street lighting. Lamp posts on pedestrian overhead bridges and pedestrian underpasses need not be captured.

Each lamp post and its number as displayed on its pole are to be recorded separately.

Attribute Format:

| Field Name | Data | Size | Precision | Scale | Allow | Value | Description |
|--------------|--------|------|-----------|-------|-------|------------|---------------------------|
| | Type | | | | Null | | |
| LAMPPOST_NUM | String | 20 | 0 | 0 | | The num | nber that is displayed on |
| | | | | | | the lamp | post. Please see Note 1. |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | oad where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |

Note:

A lamp post with its lamp post number 27.





16.22 Lane Marking (Line)

Description: A line representation painted on the road surface to guide motorists along

the carriageway.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|------------|--------------|------|-----------|-------|---------------|-----------|--|
| | | | | | | Please se | ee Note 5 |
| TYP_CD | String | 4 | 0 | 0 | No | Α | 1m,int 1m,0.1m white |
| | | | | | | A1 | 1m,int 1m,0.1m Yellow |
| | | | | | | A2 | 1m,int 1m,0.2m White |
| | | | | | | А3 | 1m,int 1m,0.3m yellow |
| | | | | | | A4 | Broken white lines at |
| | | | | | | | signalised pedestrian crossing |
| | | | | | | A5 | Broken white line used |
| | | | | | | | to guide motorists across a wide/skewed junction |
| | | | | | | A6 | Broken white lines at bicycle crossing |
| | | | | | | В | 2m,int 4m,0.1m white |
| | | | | | | B1 | 2m,int 10m ,0.1m White |
| | | | | | | С | 4m,int 2m,0.1m white |
| | | | | | | C1 | 4m,int 2m,0.2m white |
| | | | | | | D | 1m,int 1m,0.1m dbl white |
| | | | | | | D1 | 0.5m,int 0.5m,0.1m dbl white |
| | | | | | | E | 2.75m,int 2.75m,0.15m white |
| | | | | | | F | Centre line,0.15 m white |
| | | | | | | G | G - Side Line,0.15 yellow |
| | | | | | | Н | Continuous Double White Line |
| | | | | | | I | Continuous Double Yellow Line |
| | | | | | | J | White Line-Ped Crossing |
| | | | | | | K | Zig Zag Line |
| | | | | | | L | Yellow Line - bus lane |
| | | | | | | М | White Line-stop line |
| | | | | | | N | Yellow Box Line |
| | | | | | | 0 | Single yellow zig-zag |
| | | | | | | Р | Double yellow zig-zag |
| | | | | | | Q | Multi-headed arrow marking |
| | | | | | | R | Bus zone |
| | | | | | | S | Continuous red line for full day bus lane |
| | | | | | | SZ1 | Rumble Strip for Silver Zone |
| | | | | | | S1 | Dotted red line for full day bus lane |
| | | | | | | Т | Turning pocket |



| Field Name | Data | Size | Precision | Scale | Allow | Value | Description |
|------------|-------|------|-----------|-------|-------|------------|--------------------------|
| | Туре | | | | Null | | |
| | | | | | | U | Pedestrian Ahead |
| | | | | | | | marking |
| | | | | | | V | Vibraline |
| | | | | | | w | Corrugated Reflective |
| | | | | | | | Sheeting (waveline) |
| | | | | | | Х | Traffic calming marking |
| | | | | | | Y | Mandatory give way to |
| | | | | | | | buses exiting yellow box |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | oad where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |

Notes:

- 1. LANE MARKINGS within all Road are required to be collected and identified accordingly.
- 2. All coordinates captured shall be based on the centre of the lines.
- 3. If part of LANE MARKING is a single line and the other part is a double line, record as two separate records (see example below).

- 4. For Yellow Box Junction, bus zone and turning pocket capture all the vertices forming the out lines.
- 5. List of TYP CD:

| TYP_ CD | Colour | Description | |
|------------|--------|--|-----------------------------|
| A | White | These white lines are used to indicate the edge of the carriageway adjacent to auxiliary lanes e. g. Exclusive right / left turn lanes at junctions, lay-bys, bus bay etc. | * 1000 * 1000 * 1000 * 1000 |



| RIMS Ur | nit | | | GIS Data Collection Specification |
|------------|--------|--|-------------------------|-----------------------------------|
| TYP_ CD | Colour | Description | | |
| A1 | Yellow | These yellow lines are used along bus lanes to indicate a break for use by other turning vehicles | 1 m x 1 m x 0.1 m | 1000 1000 1000 |
| A2 | White | These white lines are used to indicate the edge of the carriageway adjacent to auxiliary lanes e.g. Exclusive right/left turn lanes at acceleration/deceler ation lanes along expressways. It is also known as speed change lane marking | 1 m x 1 m x 0.2 m | 1000, 1000, 1000, 1000 |
| A3 | Yellow | These broken yellow lines are used along bus lane at junction with side road | 1 m x 1 m x 0.3 m | 1000 1000 1000 |



| RIMS Ur | nit | | | GIS Data Collection Specification |
|------------|--------|--|------------------------|-----------------------------------|
| TYP_ CD | Colour | Description | | |
| A4 | White | These broken white lines are used to demarcate signalised pedestrian crossing lines | 0.2mx 0.3mx0. 2m | 293 306 200 |
| A5 | White | These broken white lines are used for guiding motorist across a wide/skewed junction | 1m x 3m x 0.1m | 3000 1000 |
| A6 | White | These broken white lines are used to demarcate bicycle crossing lines | | |



| RIMS Un | | l | | GIS Data Collection Specification |
|------------|--------|--|--------------------------|-----------------------------------|
| TYP_ CD | Colour | Description | | |
| В | White | These white lines are used as lane marking between lanes | 2 m x 4 m x 0.1 m | 4000 2000 |
| B1 | White | These white lines are used as lane marking between lanes on expressway only | 2 m x 10 m x 0.1 m | 2000 |
| С | White | These white lines are used as lane markings at light controlled intersection and along the approaches at/before the stop line. (Generally 7 to 10 marks are painted) | 4 m x 2 m x 0.1 m | 2000 4000 |



| RIMS Ur | nit | | | GIS Data Collection Specification |
|------------|------------------|--|--------------------------------------|--|
| TYP_ CD | Colour | Description | | |
| C1 | White | These white lines are used as lane markings to serve as edgeline to guide vehicles away from the kerb (generally 7 to 10 marks are painted). | 4 m x 2 m (int) x 0.2 m | MARINE PARADE ROAD purp nocified eduction (Im munk, 2n gup) 100 n.m. Wightin |
| D | White- Double | Two parallel white lines indicate that traffic approaching these lines is to give way to oncoming traffic either on the left or right | 1 m x 1 m x 0.1 m | 1000 1000 1000 1000 |
| D1 | White- Double | Two parallel white lines to indicate lane marking for GWTB (Give Way To Buses) Give Way lines. | 0.5 m x 0.5 m (int) x 0.1 m | |



| RIMS Ur | nit | | | GI | S Data Collection | Specification |
|------------|--------|---|-----------------------------------|-----|-------------------|---------------|
| TYP_ CD | Colour | Description | | | | |
| E | White | These white lines are used as centre lines on a two-way carriageway | 2.75 m x 2.75 m x 0.15 m | | 2750 | 2750 |
| F | White | This continuous white line is used as a centre line on a two-way carriageway and also indicates no parking on both sides | Continu ous x 0.15 m | 150 | | |
| G | Yellow | This continuous yellow line by the side of the carriageway indicates no parking from 7.00a.m. to 7.00p.m on that side of the carriageway except Sundays and public holidays | Continu ous x 0.15 m | | | |



| RIMS Ur | | | | GIS Data Collection Specification |
|------------|-------------------|---|----------------------------|-----------------------------------|
| TYP_ CD | Colour | Description | | |
| Н | White- Double | Two parallel continuous white lines used as centre line on a two-way carriageway or between lanes to indicate no crossing of the lines | Continu ous x 0.10 m | |
| I | Yellow- Double | Two parallel continuous yellow lines by the side of the carriageway indicate no parking at all times on that side of the carriageway | Continu ous x 0.10 m | |
| J | White | This continuous white line is used along expressway adjacent to paved shoulder to indicate the presence of shoulder or adjacent to centre divider to indicate edge line. These are also painted at road crossings to indicate the area where pedestrians/cyclist can cross. | Continu ous x 0.30 m | |



| RIMS Ur | nit | | | | | GIS Data | Collection S | Specification |
|---------|--------|--|----------------------------|------------------|------|----------|--------------|---------------|
| TYP_ | Colour | Description | | | | | | |
| CD | | | | | | | | |
| К | White | These zig zag white line are used to indicate approaching zebra crossing. They also indicate no crossing and no parking at area where these lines are painted | Zig Zag x 0.1m | 300150 OT 100 | 4000 | 150 | 4000 | 150 <u>F</u> |
| L | Yellow | This continuous yellow line is used as bus lane marking | Continu ous x 0.30 m | 300 | | | | |
| М | White | This continuous white line is used as stop lines & edge lines painted next to the centre divider kerbs. These are also painted along dual 3-lane (and above) roads where street lightings are not provided along the centre divider. | Continu ous x 0.20 m | 200 | | | | |



| RIMS Ur | nit | | | GIS Data Collection Specification |
|------------|-------------------|--|-------------------|--|
| TYP_ CD | Colour | Description | | |
| N | Yellow | These continuous yellow lines are used for yellow box junction. 200mm for the diagonals and 455mm for the sides | Continu | 450 |
| 0 | Yellow | Single zig zag yellow line at the edge of a road prohibiting parking at all times | Zig Zag x 0.1m | DOUBLE YELLOW LINES |
| P | Yellow- Double | Double zig zag yellow line at the edge of a road prohibiting stopping of vehicles at all times unless the vehicle is prevented from proceeding due to traffic conditions | Zig Zag x 0.1m | SI TO THE STATE OF |



| RIMS Ur | | | | GIS Data Collection Specification |
|---------|--------|---|---------|-----------------------------------|
| TYP_ | Colour | Description | | |
| Q | White | Type Q is for multi- headed arrows LANE MARKING | Continu | multi-headed arrow lane marking |
| R | Yellow | Type R is for Bus Zone marking | Continu | |
| S | Red | This line is used as a full day bus lane marking. | Continu | |



| RIMS Ur | | | | GIS Data Collection Specification |
|------------|--------|---|-------------|---|
| TYP_ CD | Colour | Description | | |
| SZ1 | Yellow | SZ1 — width 0.6m, int 0.2m rumble strip for Silver Zone | As shown | TYPICAL SATEWAY FEATURET FOR SUMSE ZONE |
| S1 | Red | These lines are used along bus lanes to indicate a break for use by other turning vehicles. | Dash | |
| T | White | Type T is for Turning Pocket marking | Dash | |

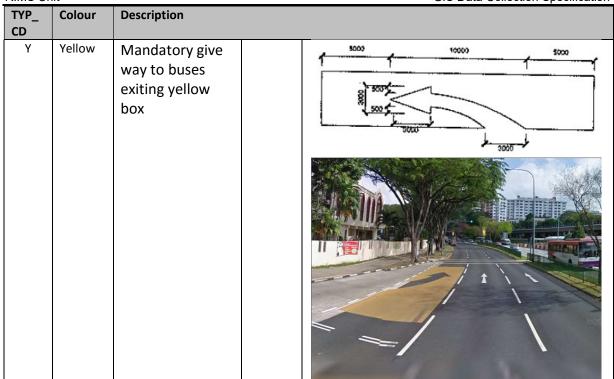


| TYP_ | Colour | Description | | GIS Data Collection Specification |
|------|--------|---------------------------------------|-------------|--|
| U | White | Road crossing ahead marking (PCAM) | As shown | SCHALL ST. RISCORDA. CHICAGO ANG AN ANGENING. CHICAGO ST. ANGEL AND ANGEL A |
| | | | | |
| V | White | Type V is for Vibraline marking | Continu | |



| RIMS U | nit | | | GIS Data Collection Specification |
|--------|--|---|-------------|--|
| TYP_ | Colour | Description | | |
| CD _ | | | | |
| W | Yellow back- ground with black arrow marking | Corrugated Reflective Sheeting (waveline) used for delineation of bend along the wall/kerb. | Continu | |
| X | White | Traffic calming marking | As shown | The state of the s |





16.23 Miscellaneous Point (Point)

Description: A point representation of a miscellaneous inventory item. The centre of

every miscellaneous inventory item is to be captured and recorded separately.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|------------|--------------|------|-----------|-------|---------------|------------|---------------------------|
| TYP_CD | String | 4 | 10 | 0 | No | Please se | ee Note 1 |
| | | | | | | IRS | Intelligent Road Stud |
| | | | | | | OD | Orange Disc |
| | | | | | | Р | Pavement marker |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | road where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |



Notes:

1. List of TYP_CD:

| TYP_CD | Description | |
|--------|--------------------------|-------------------------|
| IRS | Intelligent Road Stud | |
| P | Pavement Marker | Sylventral (Sylventral) |
| OD | Orange Disc | |



16.24 Passenger Pickup Bay (Line)

Description:

A line representation of the area along the side of road for vehicles to pick up or drop off passengers. PICKUP BAY is normally found at MRT/LRT stations and commercial sites, where its shelter may be an extension of an adjoining TAXI SHELTER.

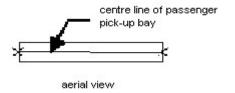
Slab over drains at the centre median should not be considered as footpath.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|------------|--------------|------|-----------|-------|---------------|--------------------------------|---|
| BAY_CNT | Short | 2 | 4 | 0 | No | Number provided passenge | of continuous bays along the kerb for or pickup or drop off |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | oad where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |

Notes:

1. The span of PICKUP BAY shall be the two end-most points of the bays.







16.25 Pedestrian Overhead Bridge/Underpass (Polygon)

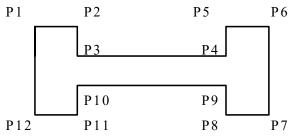
Description: A polygon representation of a raised or underground structure to be used by pedestrians to cross a road or canal.

Attribute Format:

| Field Name | Data | Size | Precision | Scale | Allow Null | Value | Description |
|---------------|-----------------------|------|-----------|-------|---------------|---|-------------------------------|
| TYP_CD | Type String | 4 | 0 | 0 | No | Please se | ee Note 1 |
| _ | | | | | | BW | Broad Walk |
| | | | | | | EB | Eco Bridge |
| | | | | | | FB | Foot Bridge |
| | | | | | | РВ | Pedestrian Bridge |
| | | | | | | РО | Pedestrian Overhead Bridge |
| | | | | | | PU | Pedestrian Underpass |
| BRDG_NUM | String | 20 | 0 | 0 | No | The number on the bridge or underpass. Please see Note 4. | |
| MIN_HT_NUM | Double | 8 | 38 | 8 | No | Lowest o | f 3 readings, |
| | | | | | | ± 0.1m | accuracy. Please see Note |
| | | | | | | 2. | |
| | | | | | | 1 | n Height for Pedestrian |
| | | | | | | · | ss is not required. |
| SHLTR_IND | String | 1 | 0 | 0 | No | Please se | ee Note 3 |
| | | | | | | Υ | Yes |
| | | | | | | N | No |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of i | oad where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |
| BCYL_WHL_RAMP | String | 1 | 0 | 0 | Yes | Bicycle V | /heeling Ramp |

Notes:

 The PEDESTRIAN OVERHEAD BRIDGE/UNDERPASS shall be represented by a polygon outlining the structure as seen from aerial view. The outline shall correspond to the outer edge of the bridge railing and the base of the staircases at either end of the bridge. Points P1 to P12 need to be captured.



Arial view of a Pedestrian Overhead Bridge with staircases at both ends





- 2. Three readings of relative height between the bottom of PEDESTRIAN OVERHEAD BRIDGE and the road surface at three different locations are required. The lowest reading shall be recorded in MIN HT NUM field.
- 3. If the PEDESTRIAN OVERHEAD BRIDGE is sheltered, SHLTR_IND = 'Y' otherwise SHLTR_IND = 'N'.
- 4. Examples of the Bridge ID of the PEDESTRIAN OVERHEAD BRIDGE/UNDERPASS.



5. List of TYP_CD:





| RIMS Unit | | GIS Data Collection Specification |
|-----------|----------------------------------|--|
| TYP_CD | Description | |
| EB | Eco Bridge | Eco-Link @ DXE |
| FB | Foot Bridge | |
| PB | Pedestrian Bridge | 03/05/2010 07:20 |
| PO | Pedestrian Overhead Bridge | Viatingthe fol of Colory: Waterman M * Gallerand M * Reflected M * Refl |



| _CD | Description | |
|-----------------|-------------------------|---------------|
| <u>CD</u> PU | Pedestrian Underpass | |
| | | PU Pedestrian |

6. By default "Bicycle Wheeling Ramp" field values will be updated to "No", user allowed to amend the same.

16.26 Railing (Line)

Description: A line representation of a metallic barrier to separate two areas; example, between two road carriageways, along edges of road or embankment etc.

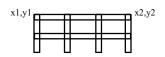
Attribute Format:

| Field Name | Data | Size | Precision | Scale | Allow | Value | Description |
|------------|--------------------|------|-----------|-------|------------|------------|---------------------------|
| TYP CD | Type String | 4 | 0 | 0 | Null No | Please se | ee Note 3 |
| TTF_CD | Julia | • | | 0 | INO | A | Type A Mild Steel |
| | | | | | | В | Type B Mild Steel |
| | | | | | | C | Type C Mild Steel |
| | | | | | | D | Type D Mild Steel |
| | | | | | | E | Type E Mild Steel |
| | | | | | | G | Type G Mild Steel |
| | | | | | | LA | Type A Aluminium |
| | | | | | | LB | Type B Aluminium |
| | | | | | | LB1 | Type B1 Aluminium |
| | | | | | | | (spacing bet top two |
| | | | | | | | horizontal bars increase |
| | | | | | | | to 300mm) |
| | | | | | | LC | Type C Aluminium |
| | | | | | | LD | Type D Aluminium |
| | | | | | | 0 | Others |
| | | | | | | Р | Parapet Railing |
| | | | | | | PP | Parapet (Bridge) Plant |
| | | | | | | | Trough |
| | | | | | | SS | Stainless Steel |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | road where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |

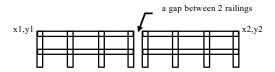
| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|------------|--------------|------|-----------|-------|---------------|------------------|--|
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer to list | Road Code (assigned to the Road Name) where feature exists |

Notes:

1. The length of the RAILING is the two end-most points, i.e.



2. The standard gap between two RAILING panels shall be IGNORED and the two railings panels treated as one continuous span.



3. List of TYP CD:

| | YP_CD: | | |
|--------|-------------------|--|---|
| TYP_CD | Description | Remark | |
| A | Type A Mild Steel | Installed along drain and footpath adjoining carriageway | Along drain Footpath adjoining carriageway |



| RIMS Unit | | | GIS Data Collection Specification |
|-----------|-------------------|---|--|
| TYP_CD | Description | Remark | |
| В | Type B Mild Steel | Installed along drain, carriageway and footpath adjoining carriageway | Along drain Along carriageway Footpath adjoining carriageway |



| and Transport | Authority | | |
|---------------|-------------------|---|--|
| RIMS Unit | Description | Remark | GIS Data Collection Specification |
| D D | Type D Mild Steel | Installed along central dividers, carriageway and footpath adjoining carriageway | Along central divider Watther Market |
| E | Type E Mild Steel | Installed along carriageway or at bus shelters | Along carriageway |
| G | Type G Mild Steel | Installed along central dividers and footpath adjoining carriageway usually located at road junctions and road crossings to ensure visibility and line of sight for drivers and pedestrians is not impaired | Along central divider |



| TYP_CD | Description | Remark | GIS Data Collection Specification |
|--------|----------------------|---|-----------------------------------|
| LA | Type A Aluminium | Installed on retaining | |
| | Type A Adminium | walls | |
| LB | Type B Aluminium | Installed along drain, carriageway and footpath adjoining carriageway | Footpath adjoining carriageway |
| LB1 | Type B1 Aluminium | Installed along drain, carriageway and footpath adjoining carriageway with the spacing between top two horizontal bars increase to 300mm | |
| LC | Type C Aluminium | Installed along central dividers and footpath adjoining carriageway usually located at road junctions and road crossings to ensure visibility and line of sight for drivers and pedestrians/cyclist is not impaired | Along central divider |



| RIMS Unit | | | GIS Data Collection Specification |
|-----------|-----------------------------|--|---|
| TYP_CD | Description | Remark | |
| LD | Type D Aluminium | Installed along central dividers, carriageway and footpath adjoining carriageway | |
| | | | Along central dividers Along carriageway |
| P | Type P | Installed on parapet wall | |
| PP | Type P with Plant Trough | Installed on parapet wall with plant trough | |

16.27 Retaining Wall (Line)

Description: A line representation of a wall that supports the adjacent soil from erosion

or landslide.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|------------|--------------|------|-----------|-------|---------------|---------------------------|-----------------------------|
| TYP_CD | String | | 0 | 0 | No | Please see Note 3 | |
| | | | | | | BW | Brick Wall |
| | | | | | | CA | Crib Wall |
| | | | | | | RC | Reinforced Concrete |
| | | | | | | | Wall |
| | | | | | | RW | Rubble Wall |
| HT_NUM | Double | | 38 | 8 | Yes | Height of retaining wall. | |
| | | | | | | In cases | where there is an irregular |
| | | | | | | shape re | etaining wall, the highest |
| | | | | | | height is | to be taken as the height |
| | | | | | | of the RE | TAINING WALL. |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | road where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |

Notes:

- 1. The length of the RETAINING WALL is to be measured along its base.
- 2. In cases where there is an irregular shape retaining wall, the highest height is to be taken as the height of the RETAINING WALL.
- List of TYP CD:





| RIMS Unit | | GIS Data Collection Specification |
|-----------|-----------------------------|-----------------------------------|
| TYP_CD | Description | |
| CA | Crib Wall | |
| RC | Reinforced Concrete Wall | |
| RW | Rubble Wall | |



16.28 Road Crossing (Line)

Description:

A line representation of a designated location for pedestrians/cyclists to cross the road. Any associated control box is to be captured separately under 'CONTROL BOX'. Traffic Signal Aspect associated with a signalised crossing are to be captured separately under 'TRAFFIC SIGNAL ASPECT'.

Attribute Format:

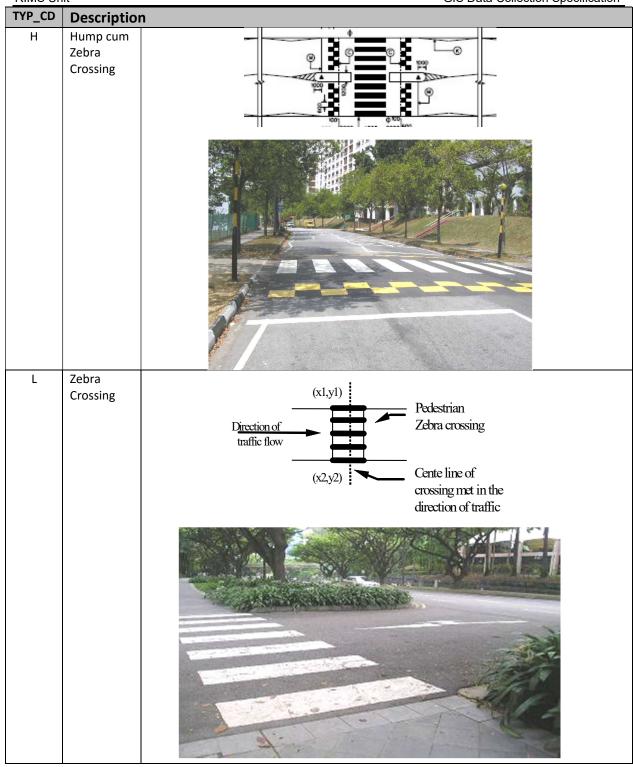
| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|------------|--------------|------|-----------|-------|------------------|----------|---------------------------|
| TYP_CD | String | 4 | 0 | 0 | No | Please s | see Note 1 |
| | | | | ВС | Bicycle Crossing | | |
| | | | | | | Н | Hump cum zebra crossing |
| | | | | | | L | Zebra Crossing |
| | | | | | | R | Raised Zebra Crossing |
| | | | | | | RS | Raised Signalised |
| | | | | | | S | Signalised |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of | road where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |

Notes:

1. List of TYP CD:

| TYP_CD [| Description | |
|----------|---------------------|----|
| BC E | Bicycle Crossing | A6 |

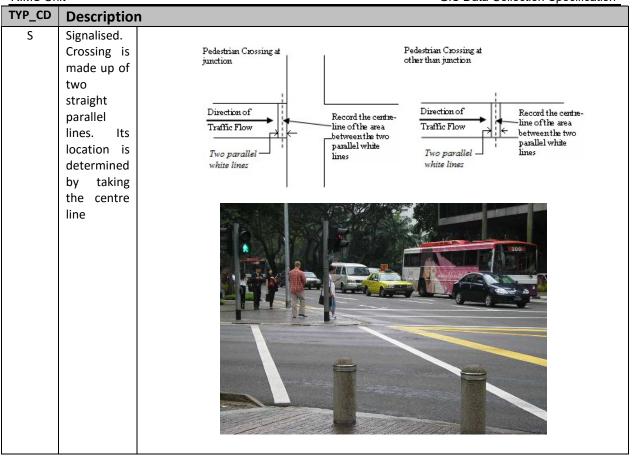






| RIMS Ur | nit | GIS Data Collection Specification |
|---------|--|-----------------------------------|
| TYP_CD | Description | n |
| R | Raised Zebra Crossing | |
| | | NIVES! |
| RS | Raised signalised | — raised pedestrian crossing |
| | crossing | |
| | , and the second | traffic signal aspect WAY |
| | | |





16.29 Road Hump (Line)

Description:

A line representation of a raised section across a road to reduce the speed of vehicles. ROAD HUMP is painted over with distinctive diagonal alternate black and yellow strips. It is usually preceded by a "HUMP AHEAD" marking on the road in the direction of the traffic flow (the "HUMP AHEAD" marking is to be recorded separately under WORD MARKING).

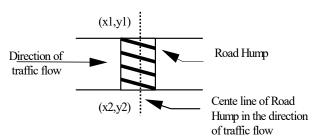
Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|------------|--------------|------|-----------|-------|---------------|------------|--------------------------|
| TYP_CD | String | 4 | 0 | 0 | No | Please se | e Note 2 |
| | | | | | | В | Bus friendly hump |
| | | | | | | R | Road hump |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | oad where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |

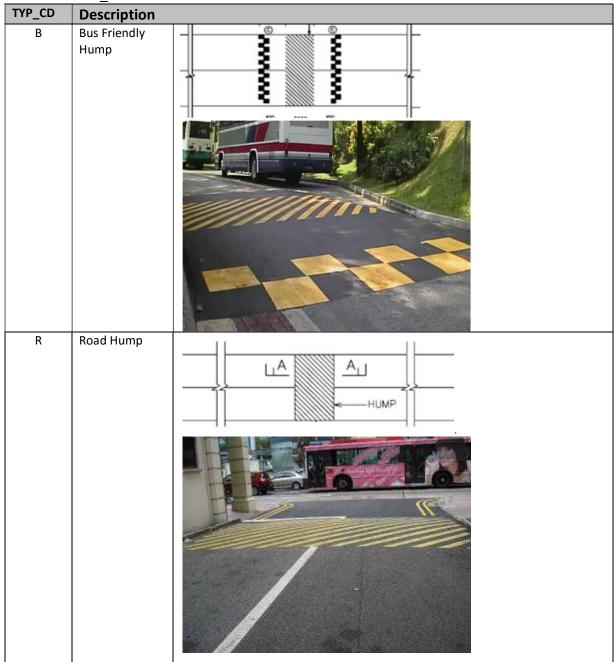


Notes:

1. The Road Hump span is to be recorded at the centre line of the hump.



2. List of TYP CD:



16.30 RTS Line (Line)

Description: A line representation of the centre line of the track used by Mass Rapid

Transit (MRT) and Light Rapid Transit (LRT) Trains.

Attribute Format:

| Field Name | Data | Size | Precision | Scale | Allow | Value | Description |
|-------------|--------|------|-----------|-------|-------|------------|-------------------------|
| | Туре | | | | Null | | |
| TYP_CD | Short | 2 | 4 | 0 | No | 35 | Mass Rapid Transit |
| | | | | | | 36 | Light Rapid Transit |
| RTS_LVL_NUM | Short | 2 | 4 | 0 | No | Level of t | rack |
| | | | | | | 1 | Underground |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 3 | Elevated |
| LIN_NAM | String | 75 | 0 | 0 | No | Line Nam | ne |
| | | | | | | BLE | BOON LAY EXTENSION |
| | | | | | | | LINE |
| | | | | | | CCL | CIRCLE LINE |
| | | | | | | EWL | EAST WEST LINE |
| | | | | | | NEL | NORTH EAST LINE |
| | | | | | | NSL | NORTH SOUTH LINE |
| | | | | | | BPLRT | BUKIT PANJANG LIGHT |
| | | | | | | | RAPID TRANSIT LINE |
| | | | | | | PLRT | PUNGGOL LIGHT RAPID |
| | | | | | | | TRANSIT LINE |
| | | | | | | SLRT | SENGKANG LIGHT RAPID |
| | | | | | | | TRANSIT LINE |
| | | | | | | CA | CHANGI AIRPORT LINE |
| | | | | | | INT | INTERCHANGE |

16.31 RTS Station (Polygon)

Description: A polygon representation of a raised or underground structure used by

passengers for boarding/alighting from the Mass Rapid Transit (MRT) and

Light Rapid Transit (LRT) Trains.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|-------------|--------------|------|-----------|-------|---------------|----------|-------------------------|
| TYP_CD | Short | 2 | 4 | 0 | No | 33 | Light Rapid Transit |
| | | | | | | 34 | Mass Rapid Transit |
| STN_NAM | String | 256 | 0 | 0 | No | Name of | the Station |
| RTS_LVL_NUM | | | | | | Level of | station |
| | | | | | | 1 | Underground |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 3 | Elevated |
| LIN_NAM | String | 75 | 0 | 0 | No | Line Nam | ne |
| | | | | | | BLE | BOON LAY EXTENSION |
| | | | | | | | LINE |
| | | | | | | CCL | CIRCLE LINE |
| | | | | | | EWL | EAST WEST LINE |
| | | | | | | NEL | NORTH EAST LINE |



| Field Name | Data | Size | Precision | Scale | Allow | Value | Description |
|------------|------|------|-----------|-------|-------|-------|----------------------|
| | Туре | | | | Null | | |
| | | | | | | NSL | NORTH SOUTH LINE |
| | | | | | | BPLRT | BUKIT PANJANG LIGHT |
| | | | | | | | RAPID TRANSIT LINE |
| | | | | | | PLRT | PUNGGOL LIGHT RAPID |
| | | | | | | | TRANSIT LINE |
| | | | | | | SLRT | SENGKANG LIGHT RAPID |
| | | | | | | | TRANSIT LINE |
| | | | | | | CA | CHANGI AIRPORT LINE |
| | | | | | | INT | INTERCHANGE |

Notes:

1. The outline of the RTS STATION shall be represented by a polygon outlining the station structure as seen from aerial view.

16.32 Seat (Point)

Description: A point representation of a resting facility along footpath for pedestrians.

Attribute Format:

| - Line | | | | | | | |
|------------|--------------|------|-----------|-------|---------------|------------|--------------------------|
| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | oad where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |

Notes:

1. Record the centre point of each SEAT.

2. Examples of seats.





16.33 Speed Regulating Strip (Line)

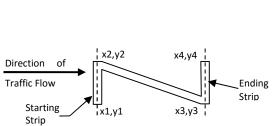
Description: A line representation of a strip across a road to reduce the speed of vehicles.

Attribute Format:

| Field Name | Data | Size | Precision | Scale | Allow | Value | Description |
|------------|-------|------|-----------|-------|-------|------------|--------------------------|
| | Туре | | | | Null | | |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | oad where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |

Notes:

- Record the centre line of the strip.
- For a series of SPEED REGULATING STRIPS found on the road, record only the two endmost STRIPS and join up the two strips with a diagonal line as shown:-







16.34 Street Paint (Polygon)

Description:

A polygon representation of a section of the road paved in red to warn motorists that they are entering a zone where school children may be crossing the road.

Attribute Format:

| Field Name | Data | Size | Precision | Scale | Allow | Value | Description |
|------------|--------|------|-----------|-------|-------|------------|--------------------------|
| | Туре | | | | Null | | |
| TYP_CD | String | 6 | 0 | 0 | No | RED | Red surface |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | oad where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |

Notes:

1. Capture all corners of the polygon depicting the STREET PAINT section.





16.35 Taxi Shelter (Line)

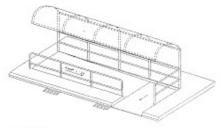
Description: A line representation of a shelter for taxi commuters.

Attribute Format:

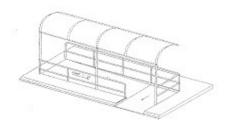
| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|------------|--------------|------|-----------|-------|---------------|------------|--------------------------|
| TYP_CD | String | 4 | 0 | 0 | No | Please se | ee Note 2 |
| | | | | | | Α | Type A |
| | | | | | | В | Туре В |
| | | | | | | С | Type C |
| | | | | | | 0 | Others |
| | | | | | | RM | Type RM |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of r | oad where feature exists |
| | | | | | | 2 | At-grade (ground level) |
| | | | | | | 8 | 1st level depressed road |
| | | | | | | 9 | 1st level elevated road |
| | | | | | | 7 | 2nd level depressed road |
| | | | | | | 10 | 2nd level elevated road |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to |
| | | | | | | to list | the Road Name) where |
| | | | | | | | feature exists |

Notes:

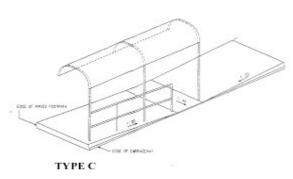
1 List of TYP_CD:



TYPE A



TYPE B





TYPE RM



16.36 Taxi Stop Pole (Point)

Description: A point representation of a pole to indicate the position where taxi should

stop to pick up or drop off passengers.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description | |
|------------|--------------|------|-----------|-------|---------------|------------------------------------|--------------------------|--|
| TYP_CD | String | 10 | 0 | 0 | No | TSTOP | Taxi Stop | |
| | | | | | | TPD | Taxi Pick up/Drop off | |
| | | | | | | TSTAND | Taxi Stand | |
| NO_LOTS | Long | 4 | 5 | 0 | No | No of taxi parking lots | | |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of road where feature exists | | |
| | | | | | | 2 | At-grade (ground level) | |
| | | | | | | 8 | 1st level depressed road | |
| | | | | | | 9 | 1st level elevated road | |
| | | | | | | 7 | 2nd level depressed road | |
| | | | | | | 10 | 2nd level elevated road | |
| RD_CD | Text | 6 | 0 | 0 | No | Refer to | Road Code (assigned to | |
| | | | | | | list | the Road Name) where | |
| | | | | | | | feature exists | |

Notes:

1. Record the co-ordinate of the TAXI STOP POLE



2. Pick up the type and no of taxi parking lots at each location



| 3. List of | TYP_CD: | |
|------------|--|--|
| TYP_CD | Description | |
| TSTOP | Taxi Stop - Taxi stop only allows taxis to perform immediate pick-up and drop-off of passengers, and no waiting at all times. | |
| TPD | Taxi Pick-up/Drop Off - Pick-up/Drop- off point allows taxis including private vehicles to perform immediate pick-up and drop-off of passengers. | Sincery Minus Land |
| TSTAND | Taxi Stand - Taxi stand allows taxis to wait at the facility up to the maximum number of allocated bays reflected on site. | Taxi Taxis Stand 5 Taxis 5 Taxis 6 Taxis 7 Taxis 7 Taxis 7 Taxis 8 Taxis 9 Taxis 10 Tax |

16.37 Traffic Sign (Point)

Description: A point representation of the traffic sign that help to regulate, warn, guide

or inform all road users.

Split arrow BOLLARD is to be captured under TRAFFIC SIGN.

Attribute Format:

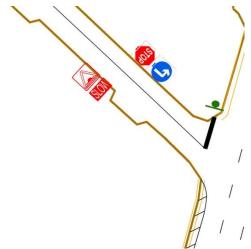
| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description | |
|---------------|--------------|------|-----------|-------|---------------|--|--|--|
| TYP_CD | String | 4 | 0 | 0 | No | Please re Type cod | efer to Section 17 for the | |
| BEARG_NUM | Double | 8 | 38 | 8 | No | Bearing of the traffic sign. Please see Note 4. | | |
| SGNBD_HT_NUM | Double | 8 | 8 | 3 | Yes | Sign board height Required for non- standard Signs only. | | |
| SGNBD_WDT_NUM | Double | 8 | 8 | 3 | Yes | _ | Sign board width Required for non- standard Signs | |
| MOUNT_MTD_CD | String | 1 | 0 | 0 | No | Р | Traffic sign mounted on 1 pole | |
| | | | | | | Q | Traffic sign mounted on 2 poles | |
| | | | | | | В | Bridge | |
| | | | | | | G | Gantry | |
| | | | | | | W | Wall | |
| | | | | | | L | Lamp Post | |
| | | | | | | S | Traffic Signal | |
| | | | | | | X | Others | |
| SGN_CNT | Short | 2 | 4 | 0 | No | 1 | of traffic signs mounted | |
| | | | | | | | on the same pole, wall | |
| LVL_NUM | Short | 2 | 4 | 0 | No | | road where feature exists | |
| | | | | | | 2 | At-grade (ground level) | |
| | | | | | | 8 | 1st level depressed road | |
| | | | | | | 9 | 1st level elevated road | |
| | | | | | | 7 | 2nd level depressed road | |
| | | | | | | 10 | 2nd level elevated road | |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to | |
| | | | | | | to list | the Road Name) where | |
| | | | | | | | feature exists | |
| CATG_CD | Long | 4 | 10 | 0 | no | | of Traffic Signs, Please | |
| | | | | | see Note | e 6 below | | |

Notes:

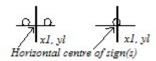
1. If traffic sign description does not match any sign in the list, enter 'O###', where ### is a running serial number that uniquely identifies a particular non-standard traffic sign within the survey. Attach a photograph of the traffic sign.



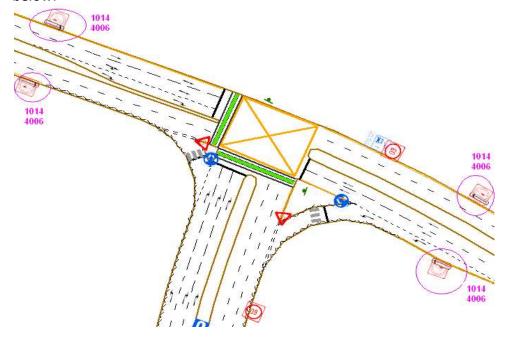
2. If multiple TRAFFIC SIGNS exist on the same pole, record each sign separately and place each sign vertically along the direction of the flow of traffic to avoid overlapping of signs when traffic sign symbols are applied at a reference scale of 1:1000. Please see picture shown below.



3. The co-ordinate of TRAFFIC SIGN should be captured at the horizontal centre of the sign(s).



4. The bearing should follow the flow of traffic except for pedestrian crossing prohibition (1014) and directional arrow (4006) signs. Their orientation are as shown in diagram below:





5. The words on the reverse of the pedestrian crossing prohibition need not be captured. Please see illustration below:



1014 Pedestrian crossing prohibition 4028 Directional arrow (double headed)



1014 Pedestrian crossing prohibition 4006 Directional arrow (single headed)



wording on reversed side no need to be captured

6. Category of Traffic Signs.

1001 to 1999 - Prohibitory Traffic Sign

2001 to 2999 - Warning Traffic Sign

3001 to 3999 - Information Traffic Sign

4001 to 4999 - Supplementary Traffic Sign

5001 to 5999 - Mandatory Traffic Sign

6001 to 6999 - Street Traffic Sign

9001 to 9299 - Flyover Traffic Sign

9300 to 9399 - Tunnel Traffic Sign

9400 to 9499 - Underpass Traffic Sign

9500 to 9599 - Viaduct Traffic Sign

7. Pedestrian Crossing back to back sign:

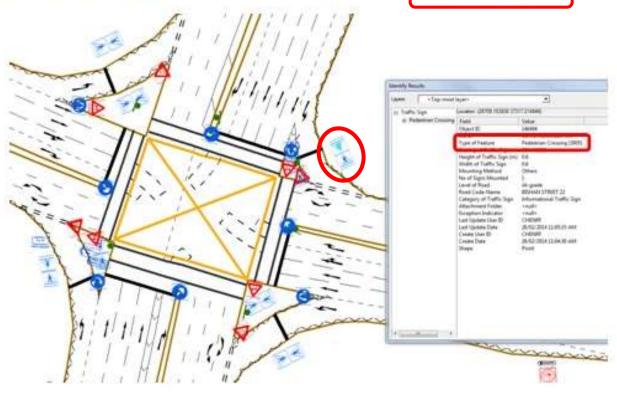
Before: User will need to update **2 numbers of single sided "Pedestrian Crossing [3005]"** traffic sign back to back.

After: User will only need to update 1 number of double sided (back to back) "Pedestrian Crossing (back to back) [3439]" traffic sign. The new "Pedestrian Crossing (back to back) [3439]" help to ease the congestion in the plan layout.



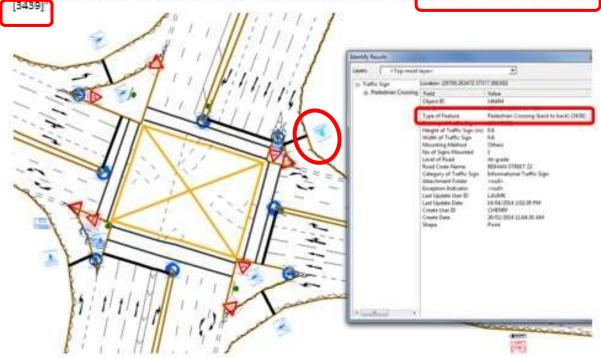
BEFORE

Updating of 2 numbers of pedestrian crossing sign mounted back to back using "Pedestrian Crossing [3005]":



AFTER

Updating of 2 numbers of pedestrian crossing sign mounted back to back using "Pedestrian Crossing (back to back)



16.38 Traffic Signal Aspect (Point)

Description: A point representation of lights consisting of signal aspects to control traffic

flow. If multiple TRAFFIC SIGNAL LIGHTS occur on the same pole, record

each set of traffic signal lights separately.

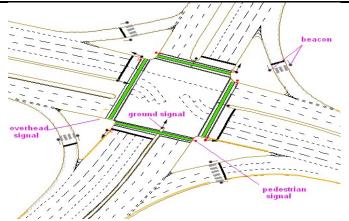
Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description | |
|------------|--------------|---------|-----------|-------|---------------|------------------|--|--|
| TYP_CD | String | 4 | 0 | 0 | No | Please se | Please see Note 2 | |
| | | | | | | Α | Advance Warning Light | |
| | | | | | | В | B-Signal for buses | |
| | | | | | | BCS | Bicycle Crossing | |
| | | | | | | С | Overhead Signal on Centre Median | |
| | | | | | | F | Green Filter Arrow | |
| | | | | | | FL | Floodlight | |
| | | | | | | G | Ground Signal | |
| | | | | | | G+ | Ground Signal (with Green Man +) | |
| | | | | | | Н | Overhead Signal | |
| | | | | | | J | Jumping Amber Light | |
| | | | | | | М | Miniature Ground Signal | |
| | | | | | | N | Beacon | |
| | | | | | | Р | Pedestrian Signal | |
| | | | | | | PC | Pedestrian Signal with Integrated Count Down Timer | |
| | | | | | | RAG | Red/amber/green arrow | |
| | | | | | | SZ | School Zone | |
| | | | | | | Т | Count Down Timer | |
| BEARG_NUM | Double | 8 | 38 | 8 | No | Bearing o | of traffic signal aspect | |
| _ | | | | | | Please se | | |
| LVL_NUM | √l Short | Short 2 | 4 | 0 | No | Level of i | f road where feature exists | |
| | | | | | | 2 | At-grade (ground level) | |
| | | | | | | 8 | 1st level depressed road | |
| | | | | | | 9 | 1st level elevated road | |
| | | | | | | 7 | 2nd level depressed road | |
| | | | | | | 10 | 2nd level elevated road | |
| RD_CD | Text | 6 | 0 | 0 | No | Refer to list | Road Code (assigned to the Road Name) where feature exists | |

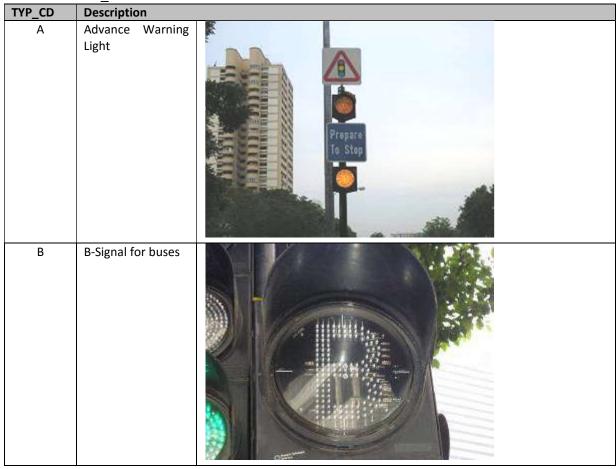
Notes:

1. The bearing of the traffic signal is required and should be within \pm 3° tolerance.





2. List of TYP_CD:





| RIMS Unit | Description | GIS Data Collection Specification |
|-----------|-------------------------------------|-----------------------------------|
| TYP_CD | Description | |
| BCS | Bicycle Crossing | |
| С | Overhead Signal on Centre Median | |
| F | Green Filter Arrow | |



| RIMS Unit | | GIS Data Collection Specification |
|-----------|---|-----------------------------------|
| TYP_CD | Description | |
| FL | Flood light | |
| G | Ground Signal (red, amber and green lights) | |



| RIMS Unit | | GIS Data Collection Specification |
|-----------|---|--|
| TYP_CD | Description | |
| G+ | Ground Signal (red, amber and green lights) (with Green Man +) | SEAS AND CARS OF THE PART OF T |
| Н | Overhead Signal on side of road | |
| J | Jumping Amber Light | School Drift SLIC |



| RIMS Unit | | GIS Data Collection Specification |
|-----------|--------------------------------------|---|
| TYP_CD | Description | |
| M | Miniature Ground Signal | |
| N | Beacon | |
| P | Pedestrian Signal (Red/green Man) | AFFLES COTEL ARCADE SIEVS & BESTAURANTS |





| RIMS Unit | | GIS Data Collection Specification |
|-----------|------------------------------------|-----------------------------------|
| TYP_CD | Description | |
| SZ | School Zone | |
| T | Count Down Timer for Pedestrian | |



16.39 Vehicular Bridge/Flyover/Underpass (Polygon)

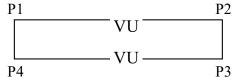
Description: A polygon representation of a raised road structure across a waterway / road for vehicular traffics or an underground passage for vehicular traffics.

Attribute Format:

| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description |
|------------|--------------|------|-----------|-------|---------------|-------------------|----------------------------|
| TYP CD | String | 4 | 0 | 0 | No | Please see Note 3 | |
| _ | | | | | | ВС | Culvert |
| | | | | | | FL | Flyover |
| | | | | | | VB | Vehicular Bridge |
| | | | | | | VT | Vehicular Tunnel |
| | | | | | | VU | Vehicular Underpass |
| BRDG_NUM | String | 20 | 0 | 0 | No | The num | ber on the bridge, flyover |
| | | | | | | or under | pass |
| MIN_HT_NUM | Double | 8 | 8 | 3 | No | Lowest o | f the 3 readings, |
| | | | | | | ± 0.1m a | ccuracy. |
| | | | | | | Please se | ee Note 1 |
| RD_CD | Text | 6 | 0 | 0 | No | Refer to | list |
| | | | | | | Road Cod | de (assigned to the Road |
| | | | | | | Name) w | here feature exists |

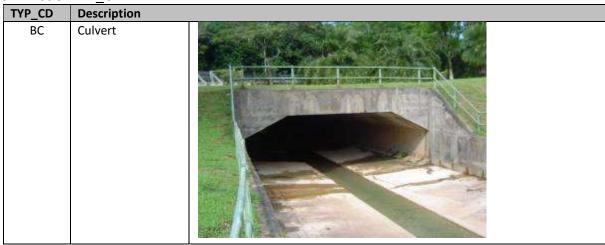
Notes:

- Three readings of relative height at three different locations are required between the top and bottom of VEHICLE UNDERPASS at the entrance. The lowest reading shall be recorded in MIN_HT_NUM field.
- 2. The VEHICLE BRIDGE, VEHICLE UNDERPASS AND FLYOVER shall be represented by a polygon outlining the structure as seen from aerial view. The outline shall correspond to the base of the inner wall in the bridge/underpass/flyover.



Aerial view of a Vehicular Bridge

3. List of TYP_CD:





| RIMS Unit | | GIS Data Collection Specification |
|-----------|------------------------|-----------------------------------|
| TYP_CD | Description | |
| FL | Flyover | |
| VB | Vehicular Bridge | |
| VT | Vehicular Tunnel | |
| VU | Vehicular Underpass | |



| TYP_CD | Description | |
|--------|------------------|--|
| VT | Vehicular Tunnel | |



16.40 Word Marking (Point)

Description:

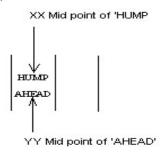
A point representation of a word painted on the road surface to give motorists advance information on approaching facilities or traffic related devices. WORD MARKING within all Roads is to be captured.

Attribute Format:

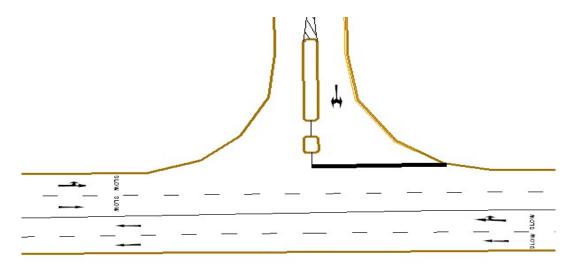
| Field Name | Data Type | Size | Precision | Scale | Allow Null | Value | Description | |
|------------|--------------|------|-----------|-------|---------------|------------------------------------|-----------------------------------|--|
| DESC_TXT | String | 15 | 0 | 0 | No | Record | the word (text) of the | |
| | | | | | | marking | marking in the description field. | |
| | | | | | | Please se | e Note 2 | |
| BEARG_NUM | Double | 8 | 38 | 8 | No | Bearing. | Please see Note 2 | |
| LVL_NUM | Short | 2 | 4 | 0 | No | Level of road where feature exists | | |
| | | | | | | 2 | At-grade (ground level) | |
| | | | | | | 8 | 1st level depressed road | |
| | | | | | | 9 | 1st level elevated road | |
| | | | | | | 7 | 2nd level depressed road | |
| | | | | | | 10 | 2nd level elevated road | |
| RD_CD | Text | 6 | 0 | 0 | No | Refer | Road Code (assigned to | |
| | | | | | | to list | the Road Name) where | |
| | | | | | | | feature exists | |

Notes:

1. Word Marking location is the mid-point of the word marked. E.g. HUMP AHEAD, two separate POINT records, xx and yy are to be captured.



2. The bearing of the word marking is required.



Appendix **17**

17.1 List of Traffic Signs

17.1.1 Prohibitory Traffic Signs

| No | TYP_CD | Description of Prohibitory Traffic Signs | Symbol |
|----|--------|---|--|
| 1 | 1001 | No Right Turn | Ø |
| 2 | 1002 | No Left Turn | S |
| 3 | 1003 | No Entry | |
| 4 | 1004 | Maximum Speed Limit 50 | 50 |
| 5 | 1005 | Width Limit | |
| 6 | 1006 | Weight Limit | TONNES |
| 7 | 1007 | Height Limit - 4.5m | (5m) |
| 8 | 1008 | No Waiting | 0 |
| 9 | 1009 | No Stopping (Clearway) | 8 |
| 10 | 1010 | No Overtaking | |
| 11 | 1011 | Restriction on Lorry | |
| 12 | 1012 | Restriction Of Movement Of Vehicles With 3 Or More Axles | day of the control of |
| 13 | 1014 | Pedestrian Crossing Prohibition (Graphics & Message On Reverse) | |
| 14 | 1015 | Hazardous Loads Prohibition | |



| RIMS Ur | IIL | | GIS Data Collection Specification |
|---------|--------|---|-----------------------------------|
| No | TYP_CD | Description of Prohibitory Traffic Signs | Symbol |
| 15 | 1016 | No Horning | |
| 16 | 1017 | Maximum Speed Limit 60 | (1) |
| 17 | 1018 | Maximum Speed Limit 90 | 90 |
| 18 | 1019 | Maximum Speed Limit 70 | 70 |
| 19 | 1021 | Maximum Speed Limit 80 | (1) |
| 20 | 1023 | No Parking | |
| 21 | 1029 | Maximum Speed Limit 40 | (10) |
| 22 | 1031 | Height Limit - 4.3m | 43m |
| 23 | 1033 | Height Limit - 2.5m | 2.5m |
| 24 | 1034 | Height Limit - 2.8m | (2.8 m) |
| 25 | 1035 | Height Limit - 3.8m | 3.8 m |
| 26 | 1036 | Restriction on Lorry/Bus/Coach | |
| 27 | 1037 | Maximum Speed Limit 15 | 15 |
| 28 | 1038 | Restriction of Movement of Heavy Vehicle (With Message) | PS message |
| 29 | 1044 | Height Limit - 3.3m | 3.3m |
| 30 | 1045 | Restriction on Motorcycle | |



RIMS <u>Unit</u>

| RIMS Ur | nit | ta Collection Specification | |
|---------|--------|--|------------------------|
| No | TYP_CD | Description of Prohibitory Traffic Signs | Symbol |
| 31 | 1046 | Restriction on Bus | |
| 32 | 1047 | Height Limit - 3.2m | 3.2 m |
| 33 | 1048 | No Waiting of Buses/Lorries | |
| 34 | 1049 | Maximum Speed Limit 30 | 30 |
| 35 | 1050 | Height Limit - 2.1m | (2.1m) |
| 36 | 1051 | No Smoking (Graphic) | |
| 37 | 1052 | Restriction Of Movement on Pedestrian and Slow Moving Vehicles | |
| 38 | 1053 | Height Limit - 2.2 m | 2.2m |
| 39 | 1054 | No Riding (graphics only) | |
| 40 | 1055 | No Riding (graphics & words) | NO RIDING First \$1000 |
| 41 | 1056 | Maximum Speed Limit 20 | 20 |
| 42 | 1057 | No Motorised Bicycle (graphic) | |
| 43 | 1058 | Height Limit - 5.4m | 5.4m |
| 44 | 1059 | No Waiting Within Bay | Within Bay |
| 45 | 1060 | Pedestrian & Bicycle Crossing Prohibition (graphic) | A SOLO |



| No | TYP_CD | Description of Prohibitory Traffic Signs | Symbol |
|----|--------|---|--|
| 46 | 1061 | Maximum Speed Limit '25' | 25 |
| 47 | 1062 | Height Limit - 3.9m | GE G |
| 48 | 1063 | Maximum Speed Limit '10' | |
| 49 | 1064 | Restriction on Vehicles Exceeding 1500 kg in unladen weight | THE REAL PROPERTY. |
| 50 | 1065 | No Stopping with arrow pointing to the Left (graphic) | |
| 51 | 1066 | No Stopping with arrow pointing to the Left/Right (graphic) | |
| 52 | 1067 | No Stopping with arrow pointing to the Right (graphic) | |
| 53 | 1068 | NO PEDESTRIAN ENTRY EXCEPT AUTHORISED PERSONNEL | NO PEDESTRIAN ENTRY EXCEPT AUTHORISED PERSONNEL |
| 54 | 1069 | MAX LADEN WEIGHT 30 TONNES | LABON WIDER 30 TORNES |
| 55 | 1070 | No Bicycle (in graphics) | |
| 56 | 1071 | Height Limit – 3.0 m | 3.Üm |
| 57 | 1072 | No Waiting with arrow pointing to the Right (graphic) | The National Action Control of the |
| 58 | 1073 | No Waiting with arrow pointing to both Left/Right (graphic) | |
| 59 | 1074 | No Waiting with arrow point to the Left (graphic) | |



| No | TYP_CD | Description of Prohibitory Traffic Signs | Symbol |
|----|--------|--|--|
| 60 | 1075 | Restriction on Trailer with Container | NO MOVEMENT OF TRAILERS THE CONTINUE OF TRAILE |
| 61 | 1076 | Height Limit - X.Xm | XX m |
| 62 | 1077 | No Motorcycle (in graphics) | |
| 63 | 1078 | No Waiting (with words below) | No Waiting |
| 64 | 1079 | Pedestrian & Cyclists Crossing Prohibition | PEDESTRIANS & CYCLISTS Use Crossing |

17.1.2 Warning Traffic Signs

| No | TYP_CD | Description of Warning Traffic Signs | Symbol |
|----|--------|---|--------|
| 1 | 2001 | Two Way Traffic Ahead | |
| 2 | 2002 | Two Way Traffic Across A One Way Carriageway Ahead | |
| 3 | 2003 | Road Narrows On Both Sides Ahead | |
| 4 | 2004 | Road Narrows On Right Ahead | |
| 5 | 2005 | Road Narrows On Left Ahead | |
| 6 | 2006 | Bend To The Right Ahead | |
| 7 | 2007 | Bend To The Left Ahead | |
| 8 | 2008 | Double Bend Ahead, First To The Right | |
| 9 | 2009 | Double Bend Ahead, First To The Left | |
| 10 | 2010 | Series Of Bends First To The Right Ahead | |
| 11 | 2011 | Series Of Bends First To The Left Ahead | |
| 12 | 2012 | Side Road To The Left Ahead | |
| 13 | 2013 | Side Road To The Right Ahead | |
| 14 | 2014 | Staggered Junction, Left Turn First Ahead | |
| 15 | 2015 | Staggered Junction, Right Turn First Ahead | |
| 16 | 2016 | Cross Road Ahead | |



| RIMS Uni | [| GIS D | ata Collection Specification |
|----------|--------|---|------------------------------|
| No | TYP_CD | Description of Warning Traffic Signs | Symbol |
| 17 | 2017 | Traffic Merges From Left Ahead | |
| 18 | 2018 | Traffic Merges From Right Ahead | |
| 19 | 2019 | Merging Into Traffic On Right Ahead | |
| 20 | 2020 | Merging Into Traffic On Left Ahead | |
| 21 | 2021 | T-Junction Ahead | |
| 22 | 2022 | Dual Carriageway Ends Ahead | |
| 23 | 2023 | Roundabout Ahead | |
| 24 | 2024 | Traffic Signals Ahead | B |
| 25 | 2025 | Pedestrian Crossing Ahead | |
| 26 | 2026 | Children Ahead | |
| 27 | 2027 | Steep Hill Upwards Ahead | |
| 28 | 2028 | Steep Hill Downwards Ahead | |
| 29 | 2029 | Slippery Road Ahead | |
| 30 | 2030 | Uneven Road Ahead | |
| 31 | 2031 | Height Limit Ahead - 4.5m | 4.5 m |
| 32 | 2032 | Level Crossing With Gate Or Barrier Ahead | |



| RIMS Uni | [| GIS D | ata Collection Specification |
|----------|--------|--|------------------------------|
| No | TYP_CD | Description of Warning Traffic Signs | Symbol |
| 33 | 2033 | Level Crossing Without Gate Or Barrier Ahead | |
| 34 | 2034 | Horses Or Ponies Ahead | |
| 35 | 2035 | Reduce Speed Now | REDUCE SPEED MOD |
| 36 | 2036 | Road Hump Ahead | |
| 37 | 2037 | Narrow Bridge Ahead | |
| 38 | 2038 | Quayside Or River Bank Ahead | |
| 39 | 2039 | Accident Area Ahead | Accident Area |
| 40 | 2040 | Expressway Ahead | |
| 41 | 2041 | Restricted Zone Ahead | |
| 42 | 2042 | Elderly Or Handicapped Pedestrians Ahead | Elderly People |
| 43 | 2043 | Slow | SLOW |
| 44 | 2044 | Low Flying Aircraft Ahead | Low Flying Aircraft |
| 45 | 2045 | Diversion To Another Carriageway To The Right Ahead | |
| 46 | 2046 | Diversion To Another Carriageway To The Left Ahead | |
| 47 | 2047 | Danger Ahead | DANGER |



| RIMS Uni | | 913 D | ata Collection Specification |
|----------|--------|---|------------------------------|
| No | TYP_CD | Description of Warning Traffic Signs | Symbol |
| 48 | 2048 | Merge Ahead | MERGE |
| 49 | 2049 | U -Turn Ahead | |
| 50 | 2050 | U -Turn Ahead (From Opposite Direction) | |
| 51 | 2051 | Pedestrian In Road Ahead | |
| 52 | 2052 | Road Pricing Ahead | |
| 53 | 2053 | Raised Zebra Crossing Ahead | Raised Zebra Crossing |
| 54 | 2054 | ERP Ahead | |
| 55 | 2056 | Sharp Deviation | |
| 56 | 2058 | Caution | CAUTION |
| 57 | 2070 | Height Limit Ahead - 1.9m | |
| 58 | 2071 | Height Limit Ahead - 2.2m | |
| 59 | 2072 | Height Limit Ahead - 2.4m | |
| 60 | 2073 | Height Limit Ahead - 4.3m | |
| 61 | 2074 | Height Limit Ahead - 3.3m | |
| 62 | 2075 | Low Bridge Ahead | LOW BRIDGE AHEAD |



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| No | TYP_CD | Description of Warning Traffic Signs | Symbol |
| 63 | 2076 | Height Limit Ahead - 3.9m | 1.9m |
| 64 | 2077 | Height Limit Ahead - 2.0m | 2.0m |
| 65 | 2078 | Underpass Ahead | |
| 66 | 2079 | Cross Ahead – Major Road Ahead | A |
| 67 | 2080 | Cross Ahead – Minor Road Ahead | A |
| 68 | 2081 | Merge After Turn | MERGE AFTER TURN |
| 69 | 2082 | SLOW DOWN | SLOW |
| 70 | 2083 | Tunnel Ahead | |
| 71 | 2084 | Height Limit Ahead – 4.0m | 4.0m |
| 72 | 2085 | KEEP CLEAR | KEEP |
| 73 | 2086 | Blind People Ahead | Blind People |
| 74 | 2087 | FIRE ENGINE ACCESS KEEP CLEAR | FIRE ENGINE. ACCESS KEEP CLEAR |
| 75 | 2088 | Other Danger Ahead | \triangle |
| 76 | 2089 | Silver Zone loving senior couple logo | |
| 77 | 2090 | Children Ahead logo - School Zone | School Zone |



| No | TYP_CD | Description of Warning Traffic Signs | Symbol |
|----|--------|--------------------------------------|-------------------------|
| 78 | 2091 | Weight Limit (XX) Tonnes | (XX) |
| 79 | 2092 | Look Out for Cyclist | Look Out For |
| 80 | 2093 | Keep A Safe Distance | Keep A Safe Distance |

17.1.3 Informational Traffic Signs

| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|----|--------|--|------------------------------|
| 1 | 3001 | Bus Lane | |
| 2 | 3002 | No Through Road | |
| 3 | 3003 | No Through Road On Side Road To Right | H |
| 4 | 3004 | No Through Road On Side Road To Left | H |
| 5 | 3005 | Pedestrian Crossing | |
| 6 | 3006 | One Way Street - Left | ONE WAY |
| 7 | 3007 | One Way Traffic | |
| 8 | 3008 | U –Turn | |
| 9 | 3009 | Taxi Stop | TAM STOP |
| 10 | 3010 | Taxi Stand | Taxi Stand For X Taxis |
| 11 | 3011 | Passenger Pick-Up Point | NA - Up Place |
| 12 | 3012 | Parking Places | Car Perking |
| 13 | 3013 | End Of Expressway Type I (Words) | End Of Expressway |



| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|----|--------|--|--|
| 14 | 3014 | End Of Expressway 500m (Words) | End Of Expressway 500 m |
| 15 | 3015 | Start Of Expressway Type II (Graphic) | A |
| 16 | 3016 | End Of Expressway Type II (Graphic) | X |
| 17 | 3017 | Start Of Expressway (This Sign Use With Type II) | Start Of Expressway |
| 18 | 3018 | End Of Expressway (This Sign Use With Type II) | End Of Expressway |
| 19 | 3019 | Dual Carriageway Ahead | Dual Carriageway Ahead |
| 20 | 3020 | Overpass (To The Left) | Overpass Constitution of the constitution of t |
| 21 | 3021 | Underpass (To The Left) | Under pass |
| 22 | 3022 | Taxis Drop-Off Point | |
| 23 | 3023 | Queue Here For Taxi – arrow left | Queue Here For Taxi |
| 24 | 3024 | Red Light Camera | Red Light Camera |
| 25 | 3025 | Keep Left, Unless Overtaking | Keep Left Unless Overtaking |
| 26 | 3026 | End Of Restricted Zone | End Of Restricted Zone |



| No No | TYP_CD | Description of Informational Traffic Signs | Symbol Symbol |
|-------|--------|---|--|
| 27 | 3027 | Speed Regulating Strips Ahead | Speed Regulating Strips Ahead |
| 28 | 3028 | Expressway Kilometer | LTTESSMAY Km |
| 29 | 3029 | U -Turning Vehicles, Keep Right | U - Turning Vehicles KEEP RIGHT |
| 30 | 3030 | Concealed Exit Ahead | Concealed Exit Ahead |
| 31 | 3031 | Community Centre/Club | Community Cantre |
| 32 | 3032 | Police Post | Police Post |
| 33 | 3033 | Direction Of Temporary Pedestrian Route | Pedsetriana |
| 34 | 3034 | Taxi Fare Information | SOUTH ACCOUNTS ON THE COUNTY ON THE CO |
| 35 | 3035 | Advance Directional Sign (Multiple Signs With Directional Arrows) | Road Name Road Name Road Name |
| 36 | 3036 | Speed Check Area | Speed Check Area |
| 37 | 3037 | Bicycles Stand | |
| 38 | 3038 | No Parking Of Bicycles | No Parting Of Bicycles |
| 39 | 3039 | Rain Shelter (Left) | * |



| No No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|-------|--------|--|--|
| 40 | 3040 | Speed Camera Ahead (Words) | SPEED CAMERA AHEAD |
| 41 | 3041 | To Stay Within Restricted Zone | To Stay Within Restricted Zone |
| 42 | 3042 | Right Turn Lane Ahead | RIGHT TURN LANE AHEAD |
| 43 | 3043 | Lane Indication Ahead (3 Lanes) | ARROV WEREG |
| 44 | 3044 | Cycling Trail | CYCLING TRAIL & |
| 45 | 3045 | Mountain Biking Trial | Mourtain Blving Trail |
| 46 | 3046 | B-Signal For Buses On Bus Bay Only | B-SIGNAL FOR BUSES On Bus Bay Only |
| 47 | 3047 | B-Signal For Buses On Left Most Lane Only | B-SIGNAL FOR BUSES On Left Most Lane Only |
| 48 | 3048 | Keep A Safe Distance From Vehicle In Front | Keep A Safe Distance From Vehicle In Front |
| 49 | 3049 | Do Not Drive On Road Shoulder | Do Not Drive On Road Shoulder |
| 50 | 3050 | Speed Camera Ahead (Graphic) | |



| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|----|--------|---|--|
| 51 | 3052 | Speed Camera Ahead (Words & Graphic) | Speed Camera Ahead |
| 52 | 3053 | Right Turn Lanes Ahead | Right Turn Lanes Ahead |
| 53 | 3054 | Watch Out For Vehicles Turning Ahead | Watch Out For Vehicles Turning Ahead |
| 54 | 3055 | Wheel Clamp Zone | WHEEL CLAMP ZONE |
| 55 | 3056 | Lane Indication Ahead (Waiting Lanes) | Waiting Lanes Ahead |
| 56 | 3057 | Left Turn On Red | LEFT TURN ON RED |
| 57 | 3058 | Stop Before Turning | STOP BEFORE TURNING |
| 58 | 3059 | Stop and Give Way To Pedestrians And Main Road Traffic | STOP and GIVE WAY To Pedestrians And Main Road Traffic |
| 59 | 3060 | Beware Of Turning Vehicles | BEWARE OF TURNING VEHICLES |
| 60 | 3061 | Watch Out For Traffic From Side Road | WATCH OUT FOR TRAFFIC FROM SIDE ROAD |



| No No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|-------|--------|--|---|
| 61 | 3063 | School Zone, Drive Carefully Slow Down & Time Plate | School Zone Drive Carefs y SLOW DOWN Time Plate |
| 62 | 3064 | End Of School Zone | End Of School Zone 🏭 |
| 63 | 3065 | Lane Indication For Expressway | 74 |
| 64 | 3066 | Left Turn Green Arrow Ahead | Left Tern Green Arrow Ahoad |
| 65 | 3067 | Scramble Walk | Scramble Walk |
| 66 | 3068 | Please Push Your Bicycle Across The Overpass | Please Plain Your Bloyde Across The Overpeas |
| 67 | 3069 | Please Push Your Bicycle Across The Underpass | Places Push Your Bloyde Astrone The Undergase |
| 68 | 3070 | School Zone | School zone |
| 69 | 3071 | U-Turn. Passenger Pick-Up/Drop-Off Point | U-Turn Passenger Pick-Up Passenger Drop-Off |



| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|----|--------|--|--|
| 70 | 3072 | Exit | Exit |
| 71 | 3073 | Change In Traffic Light Timing | Change in Traffic Light Timing |
| 72 | 3074 | No Right Turn With Time Restriction | Time |
| 73 | 3075 | Do Not Cross, Please Use Overpass | Do Not Cross Please Use Overpass |
| 74 | 3076 | Taxi Stop (With Directional Arrow) | Taxi Stop |
| 75 | 3077 | Overpass (To The Right) | Overpass |
| 76 | 3078 | Underpass (To The Right) | Underpass |
| 77 | 3080 | One Way Street - Right | CHE BYA |
| 78 | 3081 | Rain shelter - Right | |
| 79 | 3082 | U -Turn 200 m Ahead | U–Turn 200m Ahead |
| 80 | 3085 | U -Turn 150 m Ahead | U–Turn 150m Ahead |
| 81 | 3086 | U -Turn 180 m Ahead | U-Turn 180m Ahead |



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|---------|--------|--|--|
| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
| 82 | 3087 | Watch Out For U-turning Vehicles | Watch Out For U-Turning Vehicles |
| 83 | 3088 | Area Under Camera Surveillance | Area Under Camera Surveillance |
| 84 | 3089 | No Cycling | No Cycling |
| 85 | 3095 | Traffic Signals Not In Operation (With Time Restriction) | Traffic Signals Not in Operation Mon-Sat 7am-9 am |
| 86 | 3096 | Next U-Turn (With Distance) | Next U-Turn XX m Ahead |
| 87 | 3097 | Next U-Turn With Destination | Next U-Turn (Road/ Place) |
| 88 | 3099 | U-Turn 300m Ahead | U-Turn 300m Ahead |
| 89 | 3100 | Next U -Turn 500m Ahead | Next U-Turn 500 m Ahead |
| 90 | 3101 | Watch Out For Traffic From The Right | Watch Out For Traffic From The Right |
| 91 | 3102 | End of Viaduct | End of Viaduct |
| 92 | 3103 | End of Viaduct 300m | End of Viaduct 300m |



| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|-----|--------|--|--|
| 93 | 3104 | End of Viaduct 600m | End of Viaduct 600m |
| 94 | 3105 | Road/Place KEEP LEFT | Road /Place KEEP LEFT |
| 95 | 3106 | Motorcycles & Slower Traffic Keep Left | MOTORCYCLES & SLOWER TRAFFIC KEEP LEFT |
| 96 | 3107 | No Through Road To Road/Place | No Through Road To Road/Place |
| 97 | 3108 | Road/Place KEEP RIGHT | Road /Place KEEP RIGHT |
| 98 | 3109 | Confirmation Sign (Place)-Right | Place Name |
| 99 | 3110 | Confirmation Sign (Road Name) - Left | ROAD/STREET HAME |
| 100 | 3111 | Advance Directional Sign (Map) | /Expressions/ |
| 101 | 3112 | MRT/Bus Interchange(To The Left) | METO-LANGE |
| 102 | 3113 | Curve Alignment Marker | |
| 103 | 3114 | Object Marker | |
| 104 | 3115 | Object Marker - Left | |



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|---------|--------|--|--|
| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
| 105 | 3116 | Object Marker - Right | |
| 106 | 3117 | Congestion Expected Ahead | CONGESTION EXPECTED |
| 107 | 3118 | Give Way To Vehicle Turning Right | Give Way To Vehicle Turning Right |
| 108 | 3119 | Give Way To Vehicle Turning Left | Give Way To Vehiçle Turning Left |
| 109 | 3120 | Give Way To Traffic On The Right | Give Way To Traffic On The Right |
| 110 | 3121 | No Parking Except Authorised Vehicles | NO PARKING Except Authorited Yealtons |
| 111 | 3122 | No Parking From 7.00 Am To 7.00pm | NO PARKING From 7em to 7pm |
| 112 | 3123 | No Parking with Time Restriction | NO PARKING (Time Restrictor) |
| 113 | 3124 | No Entry Except Authorised Vehicles | NO ENTRY Except Authorised Vehicles |
| 114 | 3125 | Beware of Fire Engine | Beware Of Fire Engine |
| 115 | 3126 | Caution Heavy Vehicles Parking Ahead | CAUTION Honey Vehicles Parking Afroad |
| 116 | 3127 | Watch Out For Traffic To Cross Safely | Watch Out For Traffic To Cross Salely |



| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|-----|--------|--|--|
| 117 | 3128 | No Reversing | No Reversing |
| 118 | 3129 | No U -Turn (In Words) | No U-Turn |
| 119 | 3130 | Prepare To Stop | Prepare To Stop |
| 120 | 3131 | MRT/Bus Interchange (To The Right) | MTG/SUS MTERCHANGE |
| 121 | 3132 | Maximum Height Limit - 2.5m | Max. Height 2.5m |
| 122 | 3133 | Maximum Height Limit - 3.7m | Max. Height 3.7m |
| 123 | 3134 | School Zone Drive Carefully | School Zone Drive Carefully |
| 124 | 3135 | Singapore Cars Please Top Up To 3/4 Tank | SINGAPORE CARS PLEASE TOP UP TO 3/4 TANK |
| 125 | 3138 | Expressway/Road (With Expressway Graphics) | EXPRESSWAY ROAD NAME |
| 126 | 3139 | Caution Heavy Vehicle Turning Out XX m Ahead | Caution Heavy Vehicle Turning Out XXm Ahead |
| 127 | 3142 | Park & Ride (Graphics) -Left | ←A P |
| 128 | 3143 | Park & Ride Confirmation Sign-Left | PARK & RIDE |
| 129 | 3144 | Carpark Confirmation Sign (Left) | CARPARK |



| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|-----|--------|--|--|
| 130 | 3145 | Traffic Signals In Operation (With Time Restriction) | Traffic Signal In Operation Time Restriction |
| 131 | 3146 | Carpark Keep Left | CARPARK KEEP LEFT |
| 132 | 3147 | Beware of Vehicles Turning Left | BEWARE OF VEHICLES TURMING LFFT |
| 133 | 3148 | Caution Heavy Vehicles Turning Ahead | CAUTION Heavy Vehicles Turning Ahead |
| 134 | 3149 | U-Turn Use (Road/Place/Carpark) | U-TURN USE ROAD/ PLACE |
| 135 | 3150 | End of Road XX m Ahead | End of Road XXm Ahead |
| 136 | 3151 | Directional Sign(To Place/Road Use Road) | PLACE/ROAD USE ROAD |
| 137 | 3152 | Cross Safely Use Pedestrian Crossing | CROSS SAFELY use pedestrian crossing |
| 138 | 3153 | Road/Place U-Turn Ahead | ROAD/PLACE U-TURN AHEAD |
| 139 | 3154 | U-Turn to Road/Place | ROAD! PLACE |
| 140 | 3155 | Advance Directional sign (45 Degree Arrow Left) | Road Name Road Name |
| 141 | 3156 | Advance Directional sign (45 Degree Arrow Right) | Road Name Road Name |
| 142 | 3157 | Give Way to Buses Exiting (Graphic) | |
| 143 | 3158 | Give Way to Buses Exiting (Words) | Give Way to Buses Exiting |
| 144 | 3159 | Place of Interest (Confirmation Sign)- Right | PLACE OF NTEREST |



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|---------|--------|--|--|
| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
| 145 | 3160 | Malaysian Lorries Keep Left | Malaysian Lorries KEEP LEFT |
| 146 | 3161 | Motorcyclists To Woodlands Checkpoint Use BKE | Mocarcyclisia To Woodinada Cheekpoini Use BKE |
| 147 | 3162 | HDB Town (With Distance) | HDB TOWN XXm Ahead |
| 148 | 3163 | Place (With Directional Arrow) | PLACE NAME |
| 149 | 3164 | Singapore Cars \$500 Fine | SINGAPORE CARS FINE \$500 |
| 150 | 3165 | Please Top-Up Autopass Card or Cashcard | Please Top-Up Autopass Card or Cashcard |
| 151 | 3166 | Give Way to Buses | GIVE WAY TO BUSES |
| 152 | 3167 | Caution Heavy Vehicles Crossing Ahead | CAUTION Heavy Yahleles Cross ng Ahead |
| 153 | 3168 | No Through Road Ahead And Side Road On The Left | |
| 154 | 3169 | Do Not Cross, Please Use Crossing | Do Not Cross Please Use Crossing |
| 155 | 3170 | Directional Sign | Directional Sign |
| 156 | 3171 | Lane Indication Ahead -2 Lanes (Arrow Markings Shall Tally With Site Condition) | DECEMBER AND STREET |
| 157 | 3172 | Lane Indication Ahead - 4 Lanes (Arrow Markings Shall Tally With Site Condition) | AMBOR MARTING AMBOR MARTING AMBOR WARTHO |
| 158 | 3173 | No Parking/Waiting Strictly For Map Reading Only | No parking/wailing Stricily for map reading only |
| 159 | 3174 | Rental of ERP In-Vehicle Units | Rental of ERP In–vehicle Units |
| 160 | 3175 | Road/Place Turn Left | Road/Place Turn Left |



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|---------|--------|---|---|
| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
| 161 | 3176 | Vehicles Parking Ahead | Vehicles Parking Ahead |
| 162 | 3177 | No Access to Road/Place | No Access To Road/ Place |
| 163 | 3178 | Confirmation Sign (Place) - Left | Place Name |
| 164 | 3179 | Confirmation Sign (Road/Street) - Right | ROAD/STREET NAME |
| 165 | 3180 | Place of Interest (Confirmation Sign) - Left | PLACE OF INTEREST |
| 166 | 3181 | Watch Out For Traffic Before Turning | Watch Out For Traffic Before Turning |
| 167 | 3182 | Autopass Card/Cash Card Top Up | Autopass Card/ Cash Card Top Up |
| 168 | 3183 | End Of Restricted Zone Ahead | End of Restricted Zone Ahead |
| 169 | 3184 | End Of Restricted Zone (Arrow Left) | End of Restricted Zone |
| 170 | 3185 | End Of Restricted Zone (Arrow Right) | End of Restricted Zone |
| 171 | 3186 | U-Turn to Road/Place XX m Ahead | U-Turn to Road/ Place XX m Ahead |
| 172 | 3187 | Road/Place TURN RIGHT | Road /Place TURN RIGHT |
| 173 | 3188 | U-Turn KEEP RIGHT | U-Turn KEEP RIGHT |
| 174 | 3189 | Alternate U-Turn at Paterson Hill/Grange Road | Alternate U-Turn At Paterson Hill /Grange Rd |
| 175 | 3190 | Tow Away Zone | Tow Away Zone |



| No No | TYP_CD | Description of Informational Traffic Signs | ata Collection Specification Symbol |
|-------|--------|---|--|
| NO | TIF_CD | Description of informational frame signs | Зупівої |
| 176 | 3191 | Stop And Give Way To Main Road Traffic | Stop And Gire Way To Main Road Traffic |
| 177 | 3192 | Please Give Way To Reversing Buses | PLEASE GIVE WAY TO REVERSING BUSES |
| 178 | 3193 | Road Ends XX m Ahead | ROAD ENDS XXm AHEAD |
| 179 | 3194 | Watch Out For Vehicles On The Left | Watch Out For Vehicles On The Left |
| 180 | 3195 | Max Height Limit 3.0m | Max. Height 3.0m |
| 181 | 3196 | Heavy Vehicle Park Entrance/Exit XX m Ahead | Heavy Yehicle Park Entrance / Exit XXm Ahead |
| 182 | 3197 | No Through Road Ahead and On Side Road To The Right | |
| 183 | 3198 | Expressway (Confirmation sign) -Left | EXPRESSWAY 🔝 |
| 184 | 3199 | Expressway (Confirmation sign) - Right | EXPRESSWAY |
| 185 | 3200 | Please Use Underpass At | Please Use Underpass At Place Name |
| 186 | 3201 | Community Centre/Club (Left) | Community Centre Community Club |
| 187 | 3202 | Police Post (Left) | Police Post |
| 188 | 3203 | HDB Neighbourhood Map | 11 11 M |
| 189 | 3204 | Cars & Motorcyclists KEEP RIGHT | Cars & Motorcyclista KEEP RIGHT |
| 190 | 3205 | To Tuas Checkpoint To City | To Tuas Checkpoint To City |
| 191 | 3206 | Alternative Route To BKE | Alternative Route To BKE |



| No No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|-------|--------|--|--|
| 192 | 3207 | Look Out For U-Turn Vehicles | Look Out For U-Turn Vehicles |
| 193 | 3208 | Roundabout | NOAD NOAD |
| 194 | 3209 | Airport | Airport |
| 195 | 3210 | Public Carpark Ahead | PUBLIC CARPARK AHEAD |
| 196 | 3211 | Switch Off Engine While Waiting | Switch Off Engine While Waiting |
| 197 | 3212 | Overpass - confirmation sign (Right) | ★ ~ 》 |
| 198 | 3213 | Look Out For Traffic Turning Into SGH | Look Out For Traffic Turning Into SGH |
| 199 | 3214 | Wheelchair (Handicap Sign) | 违 |
| 200 | 3215 | Alternative Route To ECP Via Keppel Rd | Alternative Route To ECP Via Keppel Rd |
| 201 | 3216 | Overpass - Confirmation Sign (right) | ⟨ ₩ 🗡 |
| 202 | 3217 | Alternative Right Turn Access Ahead | Alternative Right Turn Access Ahead |
| 203 | 3218 | East Camp (Ahead arrow) | EAST CAMP |
| 204 | 3219 | East Camp (Left arrow) | EAST CAMP |
| 205 | 3220 | East Camp (Right arrow) | EAST CAMP |
| 206 | 3221 | IN (Arrow To The Left) | |
| 207 | 3222 | IN (Arrow To The Right) | IN |



| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|-----|--------|---|---|
| 208 | 3223 | Advance Directional sign - Road Name (Arrow Ahead) | ↑ Road Name |
| 209 | 3224 | Advance Directional sign - Road Name (Arrow Left) | Road Name |
| 210 | 3225 | Advance Directional sign -Road Name (Arrow Right) | Road Name -> |
| 211 | 3226 | Give Way To Pedestrians And Main Road Traffic | GIVE WAY TO Pedestitans And Main Road Traffic |
| 212 | 3227 | ERP At CTE (City/PIE) | ERP At CTE (City / PIE) |
| 213 | 3228 | Carpark – Confirmation sign- Right | CARPARK |
| 214 | 3229 | ERP Ahead | ERP Ahead |
| 215 | 3230 | Heavy Vehicle Park Entrance Ahead | Watery Vehicle Parts Deterance Altend |
| 216 | 3231 | Heavy Vehicle Park Exit Ahead | Honey Vahles Fack Ext. Ahead |
| 217 | 3232 | Flashing Aviation Lights Ahead | Flashing Aviation Lights Absac |
| 218 | 3233 | Bus Lane (Full Day) | Bus Lane Mon-Sat 7.30m-Bpm |
| 219 | 3234 | Lane Indication Ahead (Five Lanes) | 100 M |
| 220 | 3235 | No Right Turn To Road/Place | No Right Turn To Road/Place |
| 221 | 3236 | Exit (Confirmation Sign) -Left | Exit XX |
| 222 | 3237 | Alternative Route To Road | Alternative Route To Road |
| 223 | 3238 | Central Expressway | Central Expressway |



| No No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|-------|--------|--|--|
| 224 | 3239 | School Zone Drive Carefully SLOW DOWN | School Zone Drive Carefully SLOW DOWN |
| 225 | 3240 | More Car Parking Lots At Place Name | More Car Parking Lots At Place Name |
| 226 | 3241 | Give Way To Pedestrians | Give Way To Pedestrians |
| 227 | 3242 | Lane Indication For Expressway (With Single Left Turn Arrow) | 7 |
| 228 | 3243 | Lane Indication For Expressway (With Double Left Turn Arrows) | 77 |
| 229 | 3244 | No Parking On Turf | No Parking On Turf |
| 230 | 3245 | Orchard Road | ORCHARD ROAD |
| 231 | 3246 | Motorcycle (Graphic) | |
| 232 | 3247 | Motorcycle Keep Left | MOTORINGEA MEAN LANT |
| 233 | 3248 | Motor Car Keep Right | MOTOR CAN NOT EP RIGHT |
| 234 | 3249 | Lane Indication For Motor Cycle/ Motor Car | ↑ ↑ |
| 235 | 3250 | Please Get Your Autopass / Cashcard Ready | Please Get Your Topics Out Cot Ready |
| 236 | 3251 | Toll Charges Information | Toll Charges Information |
| 237 | 3252 | Please Switch-Off Your Engine | PLEASE SWITCH-OFF YOUR ENSINE |
| 238 | 3253 | Singapore Cars with 3/4 tank graphic | SINGAPORE CARE |
| 239 | 3254 | Woodlands Crossing | Woodlands Crossing |



| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|-----|--------|---|--|
| 240 | 3255 | Cars KEEP LEFT | Cars KEEP LEFT |
| 241 | 3256 | Lorries & Buses KEEP RIGHT | Lavies 5 Book szer Acer |
| 242 | 3257 | Underpass - Confirmation Sign (Right) | * □ * |
| 243 | 3258 | Underpass - Confirmation Sign (Left) | (□) |
| 244 | 3259 | ERP At AYE(ECP) 6km | ERP At AYE (ECP) XX km |
| 245 | 3260 | Camera Zone | Camera Zone |
| 246 | 3261 | U-Turn At (Road/Place Name) | U-Turn At Road/Place |
| 247 | 3262 | Use U-Turn 100 m Ahead | Use U-Turn XXm Ahead |
| 248 | 3263 | No Right Turn To (Road Name) with Time Restriction | MO RIGHT TURN TO Road Mame Mon - Fri Time Except Pablic Molidays |
| 249 | 3264 | URA Carpark Only | URA Carpark Only |
| 250 | 3265 | End Of Restricted Zone After Canning Walk | End Of Preprinted Zone Arter Coming Walk |
| 251 | 3266 | MRT Underpass (With Directional Arrow) | MRT Underpass |
| 252 | 3267 | U-Turn 500m Ahead | U-Turn 500m Ahead |
| 253 | 3268 | Leading To Road/Place | Leading To Road/Place |
| 254 | 3269 | Alternative Route To Place Name | Alternate Route To Place Name |
| 255 | 3270 | Park & Ride (graphics) - Right | P |



| No No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|-------|--------|---|--|
| 256 | 3271 | Park & Ride Confirmation Sign- Right | PARK & RIDE |
| 257 | 3272 | Watch Out For Vehicles From Access Road | Watch Out For Vehicles From Access Road |
| 258 | 3273 | MRT Station (Confirmation Sign) - Left | MRT Station |
| 259 | 3274 | MRT Station (Confirmation Sign) - Left | MRT Station |
| 260 | 3275 | Road XX m Ahead | Holland Hill 40m Ahead |
| 261 | 3276 | Motorcyclist To Woodlands Checkpoint Use BKE Via SLE | Motoreyellste To Woodlande Chackpoint Use BKE Yie SLE |
| 262 | 3277 | Left Turn Only To ECP (Changi Airport) | LEFT TURN ONLY TO ECP (Chengl Airport) |
| 263 | 3278 | Please Push Your Bicycle Across The Underpass | Plance Push Your Bicycle Acrose The Underpass |
| 264 | 3279 | No U-Turn with time restriction | No U-Turn Mon-Sat 6.45am-9.30am |
| 265 | 3280 | SLOW DOWN Pedestrians Ahead | SLOW DOWN Pedestrians Ahead |
| 266 | 3281 | To PIE Use BKE via Dairy Farm Road Keep Left | To PIE Use BKE via Dairy Farm Road Keep Left |
| 267 | 3282 | To PIE Use BKE via Dairy Farm Road Keep Right | To PIE Use BKE via Dairy Farm Road Keep Right |
| 268 | 3283 | More Parking Lots | MORE PARKING LOTS |
| 269 | 3284 | Bus Stopping Ahead | Bus Stopping Ahead |
| 270 | 3285 | Lane Indication Ahead (1 lane) | ARROW MARKING |
| 271 | 3286 | Caution Look Out For U-Turning Vehicles | Caution Look Out For U-Turning Vehicles |

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|------------|---|---|--|--|
| No | TYP_CD | Description of Informational Traffic Signs | Symbol | |
| 272 | 3287 | EXIT with Turn Right Ahead arrow | EXIT | |
| 273 | 3288 | ERP At Slip Road To CTE (City) | ERP At Slip Road To CTE(City) | |
| 274 | 3289 | ERP after Tunnel with Time plate | ERP after Tunnel Mon - Sat 12noon - 8pm | |
| 275 | 3290 | CAUTION GIVE WAY To Pedestrians | CAUTION GIVE WAY To Pedestrians | |
| 276 | 3291 | Stop When Red Light Is On | STOP WHEN RED LIGHT IS ON | |
| 277 | 3292 | Please Use Pedestrian Crossing at Traffic Light Junction | Please use pedestrian crossing at traffic light junction | |
| 278 | 3293 | Place Name XXm | PLACE NAME XXm | |
| 279 | 3294 | Road Name XXm | ROAD NAME XXm | |
| 280 | 3295 | Directional sign at Changi Airport | T2 T2 Budget Terminal | |
| 281 | 3296 | Please Use Vehicular Bridge to cross Airport Boulevard | Please Use Vehloular Bridge to cross Alrport Boulevard | |
| 282 | 3297 | No Parking Except For SCDF Vehicles | NO PARKING EXCEPT FOR SCDF VEHICLES | |
| 283 | 3298 | Caution Buses Reserving Ahead | CAUTION BUSES REVERSING AHEAD | |
| 284 | 3299 | U -Turn to CTE | U-TURN TO CTE | |
| 285 | 3300 | Look Out For Oncoming Traffic | Look Out For Oncoming Traffic | |



| No No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|-------|--------|--|---|
| 286 | 3301 | Bus Lane (operating time) | Bus Lane Mon-Fri 7.30am - 9.30am 5.00pm - 8.00pm Except Public Helidyis |
| 287 | 3302 | Reverse Traffic | REVERSE TRAFFIC |
| 288 | 3303 | Switch On Headlights | Switch On Headlights |
| 289 | 3304 | No Through Road To Mount Faber | No Through Road To Mount Faber |
| 290 | 3305 | No Walking Within Bus Park | No Walking Within Bus Park |
| 291 | 3306 | Alternative Route To TPE | Alternative Route To TPE |
| 292 | 3307 | Vehicles with 3 or more axles to Jurong Island KEEP LEFT | Vehicles with 3 or more axies to Jurong Island KEEP LEFT |
| 293 | 3308 | No Entry Except Public Buses | No Entry Except Public Buses |
| 294 | 3309 | No Through Road on Road to the right | |
| 295 | 3310 | Pedestrian Use Steps (graphic) | |
| 296 | 3311 | Ave 12 (Part) Closed | Ave 12 (Part) Closed |
| 297 | 3312 | LED Lane use indicator (on tunnel roof) | • |
| 298 | 3313 | Advance directional sign (EXIT) | ROAD EXIT XX XOOM |
| 299 | 3314 | Directional Arrow Down | ♦ |



| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|-----|--------|---|---|
| 300 | 3315 | Watch Out For Pedestrians | Watch Out For Pedestrians |
| 301 | 3316 | ECP (CHANGI) 45 degrees arrow left | ECP (CHANGI) |
| 302 | 3317 | ECP (CITY) 45 degrees arrow right | ECP (CITY) |
| 303 | 3318 | To Tunnel | lennuT cT |
| 304 | 3319 | Lane Indication Ahead (6 lanes) | ARROW MARKING ARROW MARKING ARROW WARKING ARROW WARKING ARROW WARKING |
| 305 | 3320 | Narrow Lanes Ahead | Narrow Lanes Ahead |
| 306 | 3321 | Confirmation sign - KPE (PIE) - left | KPE (PIE) |
| 307 | 3322 | Advance Directional Sign KPE (electronic sign) | ECP (CITY) |
| 308 | 3323 | Left Lane To Bartley Rd/Upp Serangoon Rd Only | Left Lane To Bartley Rd / Upp Serangoon Rd Only |
| 309 | 3324 | Please Push Bicycle Across | Please Push Bicycle Across |
| 310 | 3325 | Safety Reminder | Safety Reminder |
| 311 | 3326 | Advance Directional Sign - Places of Interest (Left Arrow) | ← PLACE OF INTEREST |
| 312 | 3327 | Advance Directional Sign - Places of Interest (Right Arrow) | PLACE OF INTEREST |
| 313 | 3328 | Advance Directional Sign - Places of Interest (Ahead Arrow) | ↑ PLACE OF INTEREST |
| 314 | 3329 | No Parking On Turf (graphic) | V VV X |



| No No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|-------|--------|---|--|
| 315 | 3330 | Advance Directional Sign - Places (Left arrow) | ← PLACE NAME |
| 316 | 3331 | Advance Directional Sign - Places (Right arrow) | PLACE - |
| 317 | 3332 | Advance Directional Sign - Places (Ahead arrow) | ↑ PLACE NAME |
| 318 | 3333 | Underpass (graphic) | Underpass |
| 319 | 3334 | Cyclists Ahead | Cyclists AHEAD Joint Project By SCTF & LTA |
| 320 | 3335 | No Riding Of Bicycle & Motorcycle | No Riding Of Bicycle & Motorcycle |
| 321 | 3336 | BEWARE OF TRAFFIC | EVAR D |
| 322 | 3337 | BARRIER | BARRIER |
| 323 | 3338 | ERP At ECP(City)/AYE | ERP At ECP (City /AYE) XX km |
| 324 | 3339 | Give Way To Fire Engine | Give Way To Fire Engine |
| 325 | 3340 | Concealed Entrance And Exit Ahead | Concealed Entrance And Exit Ahead |
| 326 | 3341 | Alternative U-Turn Ahead | Alternative U-Turn Ahead |
| 327 | 3342 | Place Ahead | PLACE MANE |
| 328 | 3343 | ERP at Crawford St (Republic Ave) | ERP At Crawford St (Republic Ave) |
| 329 | 3344 | ERP At Entry To ECP(CITY/AYE) | ERP At Entry To ECP (City/AYE) |
| 330 | 3345 | Lane Indication Ahead (waiting lanes) - Left | Waiting Lanes Ahead |



| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|-----|--------|--|---|
| 331 | 3346 | Watch Out For Vehicle Exiting Ahead | Watch Out For Vehicle Exiting Ahead |
| 332 | 3347 | OUT (with left/right arrow) | OUT |
| 333 | 3348 | SCHOOL CHILDREN CROSSING AHEAD | SCHOOL CHILDREN CROSSING AHEAD |
| 334 | 3349 | Roads Junction - Directional sign | 1222 1372 1372 1372 1372 1372 1372 1372 |
| 335 | 3350 | Queue Here For Taxi (arrow right) | Queue Here For Taxi |
| 336 | 3351 | No Parking of Lorry | No Parking Of Lorry |
| 337 | 3352 | U-Turn Ahead To Public Carpark | P D |
| 338 | 3353 | U-turn & To Car Park KEEP RIGHT | U-turn & To Car Park KEEP RIGHT |
| 339 | 3354 | Concealed Exit/Entrance Ahead | Concealed Exit/Entrance Ahead |
| 340 | 3355 | Watch out for Vehicles | Watch Out for Vehicles |
| 341 | 3356 | No Access To Kg Java Rd Via Hampshire Rd On Sundays Between 6pm-11.00pm | No Access To Kg Java Rd Via Hampshire Rd On Sundays Between 6pm - 11.00pm |
| 342 | 3357 | Condominiums/Side Roads KEEP LEFT | Condominiums / Side Roads KEEP LEFT |
| 343 | 3358 | Taxi Stand at Bus Stop | STAND BUS-STOP |
| 344 | 3359 | Verdun Rd (arrow left) | Verdun Rd |
| 345 | 3360 | Verdun Rd (arrow right) | Verdun Rd |
| 346 | 3361 | Verdun Rd Use Desker Rd (arrow Left) | Verdun Rd Use Desker Rd |



| No | TYP_CD | Description of Informational Traffic Signs | ata Collection Specification Symbol |
|-----|--------|--|--|
| 347 | 3362 | Verdun Rd Use Desker Rd (arrow Right) | Verdun Rd Use Desker Rd |
| 348 | 3363 | Verdun Rd Use Desker Rd (arrow Ahead) | Verdun Rd Use Desker Rd |
| 349 | 3364 | Exit to Sungei Rd (arrow Right) | Exit to Sungei Rd |
| 350 | 3365 | Exit to Sungei Rd (arrow Ahead) | Exit to Sungei Rd |
| 351 | 3366 | Alternative Route to Balestier Rd Use Race Course Rd (arrow Left) | Alternative Route to Balestier Rd Use Race Course Rd |
| 352 | 3367 | Alternative Route to Balestier Rd Use Race Course Rd (arrow Ahead) | Alternative Route to Balestier Rd Use Race Course Rd |
| 353 | 3368 | Alternative Route to Kitchener Rd Use Clive St (arrow Ahead) | Alternative Route to Kitchener Rd Use Clive St |
| 354 | 3369 | Alternative Route to Kitchener Rd Use Clive St via Sungei Rd (arrow Right) | Alternative Route to Kitchener Rd Use Clive St Via Sungei Rd |
| 355 | 3370 | Alternative Route to Kitchener Rd Use Clive St via Sungei Rd (arrow Ahead) | Alternative Route to Kitchener Rd Use Clive St Via Sungel Rd |
| 356 | 3371 | Alternative Route to Kitchener Rd Use Clive St via Sungei Rd (U-Turn) | Alternative Route to Kitchener Rd Use Clive St Via Sungei Rd |
| 357 | 3372 | Direction Of Temporary Pedestrian Route (arrow to right) | Pedestrians |
| 358 | 3373 | NO RIGHT TURN FOR SAF VEHICLES | NO RIGHT TURN FOR SAF VEHICLES |
| 359 | 3374 | Alternative Route - Farrer Rd (Adam Rd) | Farrer Rd Lutheran Rd Alternative Route Farrer Rd (Adam. |
| 360 | 3375 | Modified Lane Indication (4 lanes) | |
| 361 | 3376 | Bus Lane AHEAD | Bus Lane AHEAU Mon-Fri 7.30am - 9.30am 5.00pm - 0.00pm rushic Heindays |
| 362 | 3377 | Left Turn/Right Turn Only | ONLY |



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| No | TYP_CD | Description of Informational Traffic Signs | Symbol | |
| 363 | 3378 | Confirmation Sign - SLE (BKE) - Right | STE (BKE) | |
| 364 | 3379 | Carpark Confirmation Sign - Right | Carpark | |
| 365 | 3380 | Please Push Your Bicycle Across The Overpass | Please Push Your Bicycle Across The Overpass | |
| 366 | 3381 | Cycling Prohibited | Cycling Prohibited | |
| 367 | 3382 | Watch Out For Buses On Right | Watch Out For Buses On Right | |
| 368 | 3383 | Alternative Route To Balestier Rd Use Shan Rd | Alternative Route To Balestier Rd Use Shan Rd ——————————————————————————————————— | |
| 369 | 3384 | Dismount & Push Bicycle | Dismouni & Aush Sispels | |
| 370 | 3385 | ERP At CTE (City/PIE) 11km & 9km | ERP At CTE (City/PIE) 11km & 9km | |
| 371 | 3386 | Give Way to Buses Exiting (word & graphic) | Give Way to Buses Exiting | |
| 372 | 3387 | EXIT No (with 45 degree arrow left) | EXIT Xx | |
| 373 | 3388 | Brickland Rd (KJE) Use U-turn 650m AHEAD | Brickland Rd (KJE) Use U-Turn 850m AHEAD | |
| 374 | 3389 | Directional sign to Tampines Rd/KPE/ECP | Tampines Rd KPE (ECP) | |
| 375 | 3390 | Directional sign to Upp Paya Lebar Rd/Hougang Ave 3/ Tampines Ave 10/Bedok North Rd | Tampiner Ann 10 Houping Ann 10 Houping Ann 10 Houping Ann 1 | |
| 376 | 3391 | 1 Taxi Only | Taxi only | |
| 377 | 3392 | 2 Taxis Only | 2 Taxis only | |



| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|-----|--------|---|--|
| 378 | 3393 | 3 Taxis Only | 3 Taxis only |
| 379 | 3394 | 4 Taxis Only | 4 Taxis only |
| 380 | 3395 | 5 Taxis Only | 5 Taxis Only |
| 381 | 3396 | Advance directional sign - Road, Exit XX with 45 degree arrow Left | ROAD NAME EXIT XX XX m |
| 382 | 3397 | Advance directional sign - Road, Exit XX with down arrow | ROAD NAME EXIT XX |
| 383 | 3398 | No Cycling In The Bicycle Park, Please Dismount & Push Your Bicycle | Portogo in the basener par. |
| 384 | 3399 | Bicycle Park | MODICAL MARKET AND |
| 385 | 3400 | QUEUE HERE FOR TAXI | QUEUE HERE FOR TAXI |
| 386 | 3401 | SPEEDING KILLS Drive Safely | SPEEDING KILLS Drive Safely |
| 387 | 3402 | Nanyang Polytechnic Use EXIT 12B | Nanyang Polytechnic Use EXIT 12B |
| 388 | 3403 | HDB Blocks Directional sign | Blk Nos Blk Nos Blk Nos |
| 389 | 3404 | Taxi Stand Confirmation sign - Right | Taxi Stand |
| 390 | 3405 | XX m Ahead Confirmation sign - Right | XXm Ahead |
| 391 | 3406 | No U -Turn (graphics) | R |



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| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
| 392 | 3407 | Rain Shelter | |
| 393 | 3408 | 300m | 300m |
| 394 | 3409 | U-Turns 150m & 350m AHEAD | U - Turns 150m & 350m AHEAD |
| 395 | 3410 | Robin Road 100m Ahead | Robin Road 100m Ahead |
| 396 | 3411 | Directional Sign -Road Names with Down arrows | Bartley Rd Lor As Sof, Upp Serrogue of Bookstry Rd |
| 397 | 3412 | GIVE WAY TO PEDESTRIAN | GIVE WAY TO PESTRIAN |
| 398 | 3413 | Directional sign -Road Name - arrow down | Larine Rd |
| 399 | 3414 | Max Height Limit 2.0m | Max. Height 2.0m |
| 400 | 3415 | Car Parks - with directional arrows | Car Park X Car Park Y |
| 401 | 3416 | Taxi Stand Confirmation sign - Left | Taxi Stand |
| 402 | 3417 | To Stay Within Restricted Zone (Arrow Right) | To Stay Within Restricted Zone |
| 403 | 3418 | Please Push Your Bicycle Across Overhead Bridge | Please Push Your Bicycle Across Overhead Bridge |
| 404 | 3419 | ERP At PIE (Tuas/CTE) Near Kallang Bahru | ERP At PIE (Tuas/CTE) Near Kallang Bahru |
| 405 | 3420 | Alternative Right Turn At Ubi Ave 3 400m Ahead | Alternative Right Turn At Ubi Ave 3 400m Ahead |
| 406 | 3421 | Drop-Off/Pick-Up Point Opposite | Orep-Off/ Pick-Up Point Opposite |



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| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
| 407 | 3422 | Confirmation Sign - Road/Expressway - Left | Road Name Expressway |
| 408 | 3423 | Motorcycle Parking Place | 655 WHAT PERSON |
| 409 | 3424 | Area Under Camera Surveillance | Area Under Carners Surveillance |
| 410 | 3425 | Confirmation sign - Fort Canning Park | Fort Canning Park |
| 411 | 3426 | Look Out For Traffic From Left | Look Out For Traffic From Left |
| 412 | 3427 | Adam Rd Use Centre Lane | Adam Rd Use Centre Lane |
| 413 | 3428 | Cyclists Ahead (in words) | Cyclists AHEAD |
| 414 | 3429 | Electric Vehicle Quick Charger | |
| 415 | 3430 | To cross Paterson Rd please use the Underpass via ION-Paterson Link @ B2 (words) - Entrance to Underpass (graphic) | To cross Paterson Rd please use the Underpass via ION-Paterson Link @ 82 |
| 416 | 3432 | Animals Ahead Next XXkm | Animals Ahead Next 1km |
| 417 | 3433 | U-Turn XXm Ahead | U-Turn 500m Ahead |
| 418 | 3434 | Alternative U-Turn XXm Ahead | Alternative U-Turn SOOm Ahead |
| 419 | 3435 | Lane indication with destination(s)/road name(s) | AHEAD To Jin To Jurong fisland Jurong fisland Checkpoint Pier Way TIT T T T T T T T T T T T T T T T T T |



| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|-----|--------|--|---|
| 420 | 3436 | Bus Lane on the Right XXm Ahead | Bus Lane on the Right 100m Ahead |
| 421 | 3437 | Bus Lane on the Right Indication | 1 Rus |
| 422 | 3438 | Give Way to Pedestrians with Indication | GIVE A |
| 423 | 3439 | Pedestrian Crossing (back to back) | |
| 424 | 3440 | Watch Out For Vehicles From Kg Bahru Rd | Watch Out For Vehicles From K9 Bahru Rd |
| 425 | 3441 | Give Way TO Vehicles From Duke-NUS | Give Way To Vehicles From Duke-NUS |
| 426 | 3463 | CAUTION Bus Stopping Ahead | GAUTION Bus Stopping Ahead |
| 427 | 3464 | Trailers with Containers (graphic) Keep Right to <road expressway=""> to <road expressway=""> (words)</road></road> | Kep Right to Shears Bridge to ECP(Chang) |
| 428 | 3465 | Trailers with Containers (graphic) Keep Left to <road expressway=""> to <road expressway=""> (words)</road></road> | - |
| 429 | 3466 | Trailers with Containers (graphic) Keep Right to <road expressway=""> (words)</road> | Kray Right to |
| 430 | 3467 | Trailers with Containers (graphic) Keep Left to <road expressway=""> (words)</road> | - |
| 431 | 3468 | Trailers with Containers (graphic) Turn Right Arrow (graphic) Turn Right to <road expressway=""> (words)</road> | Turn Right to Ave((UAS) |



| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
|-----|--------|---|-------------------------------------|
| 432 | 3469 | Trailers with Containers (graphic) Turn Left Arrow (graphic) Turn Right to <road expressway=""> (words)</road> | - |
| 433 | 3470 | Trailers with Containers (graphic) Turn Left Arrow (graphic) Turn Right to <road expressway=""> (words)</road> | Turn Lift to Marin Lift (AVE) |
| 434 | 3471 | Trailers with Containers (graphic) Turn Right Arrow (graphic) Turn Right to <road expressway=""> (words)</road> | - |
| 435 | 3472 | To Stay Within Restricted Zone (words) Left Arrow (graphic) | To Stay Within Restricted Zone |
| 436 | 3473 | To Stay Within Restricted Zone (words) Right Arrow (graphic) | - |
| 437 | 3474 | TPE (PIE-Changi) (words) Aeroplane (graphic) KPE Keep Right (words) | TPE (PIE-Changi) ★ KPE KEEP RIGHT |
| 438 | 3475 | Traffic Police Camera Zone | Traffic Palice Camera Zame |
| 439 | 3476 | Lane Indication (XX Lanes) (arrow markings shall tally with site condition) | DASSAL WORSA |
| 440 | 3477 | Lane Indication for Expressway | 71 |
| 441 | 3478 | Silver Zone Slow Down | Silver Zone Slow Down |
| 442 | 3479 | End of Silver Zone | End Of Silver Zone |
| 443 | 3480 | Look Out for Turning Buses | LOOK OUT FOR TURNING BUSES |



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| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
| 444 | 3481 | Advance Directional Sign - Road Names / Expressway (multiple signs with directional arrows) | Road Name/Ewy Road Name/Ewy Road Name / Expressively |
| 445 | 3482 | Advance Directional sign - Road Name / Expressway (arrow Ahead) | Road Name |
| 446 | 3483 | No U-Turn - Reminder | No U-Turn Beminder |
| 447 | 3484 | Parking Enforcement Camera | Parking Entorepment Camera |
| 448 | 3485 | Taxi Stand (with directional arrow) | Stand Stand |
| 449 | 3486 | Watch Out For Pedestrians Crossing | Watch Out For Pedestrians Crossing |
| 450 | 3487 | Overpass (Facility) with left arrow | Overpass Nicoll Highway Kallang |
| 451 | 3488 | Overpass (Facility) with right arrow | Overpass S'pare Sports Hub Nicoll Highway (City) |
| 452 | 3489 | Overpass (Facility) with straight arrow | Overpass Nicoll Highway Kallang |
| 453 | 3490 | Pedestrian wayfinding (Facility) with left arrow | S'pare Sports Hub |
| 454 | 3491 | Pedestrian wayfinding (Facility) with right arrow | S'pore Sports Hub |
| 455 | 3492 | Pedestrian wayfinding (Facility) with straight arrow | Nicoll Highway (City) |



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| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
| 456 | 3493 | Underpass (Xm) (Facility) with left arrow | Underpass (80m) S'pore Sports Hub |
| 457 | 3494 | Underpass (Xm) (Facility) with right arrow | Underpass (50m) Stadium Blvd Mountbatten Rd |
| 458 | 3495 | Underpass (Xm) (Facility) with straight arrow | Underpass (90m) S'pore Sports Hub |
| 459 | 3496 | New Pedestrian Crossing (right arrow) | New Podestrian Crossing |
| 460 | 3497 | PIE (TUAS) Keep Right | PIE (Tuas) KEEP RIGHT |
| 461 | 3498 | Underpass (Facility) with straight arrow | Underpass S'pore Sports Hub |
| 462 | 3499 | Watch Out For Traffic | Watch Out For Traffic |
| 463 | 3500 | Cyclist Crossing Ahead | 80 |
| 464 | 3501 | Please Push Your Bicycle Across The Ramp | Please Push Your Bicycle Across The Ramp |
| 465 | 3502 | Confirmation sign - Clementi Ave 6 - AYE - Right | Clementi Ave 6 |
| 466 | 3503 | To NUS Use Left Most Lane | To NUS Use Left Most Lane |
| 467 | 3504 | Bus Lane (full day) 0730 to 2300 | Bus Lane Mon-Sat 7.30am-11pm Except Public Holidays |



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| No | TYP_CD | Description of Informational Traffic Signs | Symbol |
| 468 | 3505 | Bus Only Lane | Bus |
| 469 | 3506 | Slower Vehicles KEEP LEFT | Slower Vehicles KEEP LEFT |
| 470 | 3507 | Taxi Stand X Taxis Only | Taxi Stand Taxis Only |
| 471 | 3508 | Your Speed Sign | YOUR SPEED |
| 472 | 3509 | U-Turn at Traffic Light Junction | U-Turn at Traffic Light Junction |
| 473 | 3515 | Lane Begins | LANE BEGINS |
| 474 | 3516 | Lane Ends | LANE ENDS |

17.1.4 Supplementary Traffic Signs

| No | TYP_CD | Description of Supplementary Traffic Signs | Symbol |
|----|--------|---|---|
| 1 | 4001 | Except School Buses | Except School Buses |
| 2 | 4002 | Exceeding 2500kg In Unladen Weight | Exceeding 2500kg in Unladen Weight |
| 3 | 4003 | School Zone For 400m | School Zone For 400m |
| 4 | 4004 | Except Authorised Vehicles | Except Authorised Vehicles |
| 5 | 4005 | Except SBS Buses | Except S B S Buses |
| 6 | 4006 | Directional Arrows (Single Headed) | |
| 7 | 4007 | Vehicles Not Exceeding 2500 Kg In Unladen Weight | Vahicles Not Exceeding 2500kg In Ualaden Weight |
| 8 | 4008 | Except Ambulance And Police Vehicles | Except Ambulance & Police Vehicles |
| 9 | 4009 | Way Out (Right) | ANA OUL |
| 10 | 4010 | Except Loading / Unloading | Except Loading / Unloading |
| 11 | 4011 | Vehicles Not Exceeding 1500 Kg In Unladen Weight | Vehicles Not Exceeding 1500 kg In Unladen Weight |
| 12 | 4012 | Distance Ahead | metres |
| 13 | 4013 | Exceeding 1500kg In Unladen Weight | Exceeding 1500 kg in Uniaden Weight |
| 14 | 4014 | Except Cars, SBS Buses & School Buses | Except Cars SBS & School Buses Only |
| 15 | 4016 | School Zone For 300m | Schapl Zone Far 300m |
| 16 | 4017 | School Zone For 200m | Schapl Zane For 200m |



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| No | TYP_CD | Description of Supplementary Traffic Signs | Symbol |
| 17 | 4018 | Except Buses & Authorised Vehicles | Except Buses & Authorised Vehicles |
| 18 | 4019 | School Zone For 250 m | School Zone For 250 m |
| 19 | 4020 | School Zone for 500 m | School Zone Far 500m |
| 20 | 4021 | Except Buses | Except Buses |
| 21 | 4022 | Except Refuse Trucks | Except Refuse Trucks |
| 22 | 4023 | School Zone For 150m | School Zone Far 150 m |
| 23 | 4024 | School Zone For 350m | School Zone For 350 m |
| 24 | 4025 | Time Plate (For School Days) | School Days 6.6am - 1.20m 12.4gm - 1.15gm 6.46pm - 6.46pm |
| 25 | 4026 | Way Out (Left) | WAY OUT |
| 26 | 4027 | Way Out (Ahead) | WAY 1 |
| 27 | 4028 | Directional Arrows (Double Headed) | |
| 28 | 4029 | Except Coaches | Except Coaches |
| 29 | 4030 | Time Plate (General) | Time plate |
| 30 | 4031 | Distance to MRT Station (Left) | No Market |
| 31 | 4032 | Except Fire Engine | Except Fire Engine |
| 32 | 4033 | School Zone For 600 m | School Zone Far 600m |



| No No | TYP_CD | Description of Supplementary Traffic Signs | Symbol |
|-------|--------|--|---|
| 33 | 4034 | Except Heavy Vehicle Only | Exaspt Heery Vehicles Only |
| 34 | 4035 | School | School |
| 35 | 4036 | Except Public Buses | Except Public Buses |
| 36 | 4037 | NParks Vehicles Only | NParks Vehicles Only |
| 37 | 4038 | СТЕ | CTE |
| 38 | 4039 | Except Taxi | Except Taxi |
| 39 | 4040 | Except Authorised Military Vehicles | Except Authorised Millery Vohicles |
| 40 | 4041 | Except Buses Only | Except Buses Only |
| 41 | 4042 | No Entry Except Taxis | No Entry Except Taxis |
| 42 | 4043 | Except SMRT Buses | Except SMRT Buses |
| 43 | 4044 | Exit With Arrow To Right | EXIT |
| 44 | 4045 | Except On Driving Test | Except On Driving Test |
| 45 | 4046 | PIE | PIE |
| 46 | 4047 | AYE | AYE |
| 47 | 4048 | SLE | SLE |
| 48 | 4049 | ECP | ECP |
| 49 | 4050 | ВКЕ | ВКЕ |
| 50 | 4051 | KPE | KPE |



| No | TYP_CD | Description of Supplementary Traffic Signs | Symbol |
|----|--------|---|--|
| 51 | 4052 | KJE | KJE |
| 52 | 4053 | TPE | TPE |
| 53 | 4054 | No walking (With Directional Arrow) | No Walking |
| 54 | 4055 | Distance to MRT Station (Right) | No management |
| 55 | 4056 | To HDB Carpark Only | To HDB Carpark Only |
| 56 | 4057 | Heavy Vehicle Turning Ahead XX m | Heavy Yehicle Turning Ahead XXm |
| 57 | 4058 | Except Fire Engine & Authorised Vehicles | Erospit For Engine Authorited Vehicle |
| 58 | 4059 | No Entry Except Loading & Unloading | No Entry Except Loading & Unloading |
| 59 | 4060 | No Parking On Grass Verge And Pedestrian Footpath | NC PARKING ON GRASS VERGE AND PEDESTS AN POOLIFATH |
| 60 | 4061 | Except SCDF Vehicles | Except SCDF Vehicles |
| 61 | 4062 | School Zone For 450 m | School Zone Fur 450 m |
| 62 | 4063 | Exit Only | EXIT ONLY |
| 63 | 4064 | Except NParks Vehicles | Except NParks Vahicles |
| 64 | 4065 | Public Car Park | PUBLIC CAR PARK |
| 65 | 4066 | Except Cars, Lorries & Buses | Except Care Lecroles & Busses |
| 66 | 4067 | Except Taxi & Authorised Vehicles | Except Taxi & Authorised Vehicles |
| 67 | 4068 | Except Vehicles With Parking Labels | MALE MACE NO TVOTES |



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| No | TYP_CD | Description of Supplementary Traffic Signs | Symbol |
| 68 | 4069 | On CTE | On CTE |
| 69 | 4070 | MRT Station | MRT |
| 70 | 4071 | Bus Stop | Bus |
| 71 | 4072 | Taxi | Taxi |
| 72 | 4073 | Except Police Vehicle | Except Police Vehicles |
| 73 | 4074 | Except Tour Buses | Except Tour Buses |
| 74 | 4075 | School Zone For 550m | School Zone For 550m |
| 75 | 4076 | Except Coaches & Handicapped Driven Vehicles Only | INDEP 199-20 5 MINISTRAL 199-20 5 MINISTRAL 199-20 5 MINISTRAL |
| 76 | 4077 | Taxi Stand (With Directional Arrow) | TAXI |
| 77 | 4078 | For Taxi Only | For Taxi Only |
| 78 | 4079 | Within Bay Except Authorised Vehicles | Within Bay Ecept Authorised Vehicles |
| 79 | 4080 | Except Public Buses Time Restriction | Except: Public Gluses MON — FRI 7.00am — S.00am 5.30pm — 7.30pm Except Public Holidays |
| 80 | 4081 | No Right Turn Except Public Buses Time Restriction | NO FIGHT TURN Except Public Buses MON - FRI 7.00am - 9.00am 5.30pm - 7.30pm Except Public Holidays |
| 81 | 4082 | School Zone For 270m | School Zone For 270 m |
| 82 | 4083 | Mon - Fri | Mon – Fri |
| 83 | 4084 | Time plate - ERP | Time |
| 84 | 4085 | Reminder | Reminder |



| No No | TYP_CD | Description of Supplementary Traffic Signs | Symbol |
|-------|--------|--|--|
| 85 | 4086 | Motorcycles Parking | MOTORCYCLES PARKING |
| 86 | 4087 | Exit with arrow to left | EXIT |
| 87 | 4088 | Except Alighting/Pickup Passenger | Except Alighting/ Pickup Passenger |
| 88 | 4089 | School Zone For 100m | School Zone For 100 m |
| 89 | 4090 | Reserved For Handicap | Reserved For Handicap |
| 90 | 4091 | Except Residents & Authorised Vehicles | Except Residents & Authorised Vehicles |
| 91 | 4092 | Except TAS Postal Vehicles | Except TAS Postal Vehicles |
| 92 | 4093 | Except SBS Buses 7am - 7pm | Except SBS Buses 7am — 7pm |
| 93 | 4094 | Except For Scheme A Buses | Except For Schame A Buace Time |
| 94 | 4095 | EXCEPT FIRE ENG, LOADING / UNLOADING | EXCEPT FIRE ENG LOADING-UNLOADING |
| 95 | 4096 | Fire Engine Access | Fire Englne Access |
| 96 | 4097 | Except Emergency Vehicles | Except Emergency Vehicles |
| 97 | 4098 | Sundays 6.00pm-11.00pm | Sundays 6.00pm -11.00pm |
| 98 | 4099 | Authorised Vehicles Only | Authorised Vehicles Only |
| 99 | 4100 | Time Restriction for No Stopping | Mon – Fri 6.30am-7.45am 12.30pm-2.30pm Except Public & School Holidays |
| 100 | 4101 | CD Bomb Shelter XXm Ahead | 150m |
| 101 | 4102 | EXCEPT AUTHORISED VEHICLES ONLY | EXCEPT AUTHORISED VEHICLES ONLY |



| No No | TYP_CD | Description of Supplementary Traffic Signs | Symbol |
|-------|--------|---|---|
| 102 | 4103 | Mon - Sat | Mon-Sat |
| 103 | 4104 | Except Loading/Unloading at VIVOCITY | Except Loading / Unloading at VIVOCITY |
| 104 | 4105 | RESERVED - Handicap Parking Lot | HEADOWNED |
| 105 | 4106 | Mon - Fri 7.00am -9.00am Except SBS Buses | Mun-Fri 7,00am-9,00am Except SBS Buses |
| 106 | 4107 | MRT Station with distance and directional arrow right | MRT 300m > |
| 107 | 4108 | PIE (arrow Left) | (PIE |
| 108 | 4109 | MRT Station with distance and directional arrow Left | ————————————————————————————————————— |
| 109 | 4110 | MRT Station with distance and directional arrow Ahead | MRT. |
| 110 | 4111 | EXCEPT FOR AUTHORISED VEHICLES | EXCEPT FOR AUTHORISED VEHICLES |
| 111 | 4112 | House No | Hse Nos |
| 112 | 4113 | 80m Ahead | 80m Ahead |
| 113 | 4114 | Distance with directional arrow Left | ← 150m |
| 114 | 4115 | Distance with directional arrow Right | 350m |
| 115 | 4116 | Distance with directional arrow Ahead | ↑ 350m |
| 116 | 4117 | Bt Batok Town | Bt Batok Town |



| RIMS Unit | | | Data Collection Specification |
|-----------|--------|--|-------------------------------|
| No | TYP_CD | Description of Supplementary Traffic Signs | Symbol |
| 117 | 4118 | Taxi 40m - Arrow Left | 40m Taxi |
| 118 | 4119 | Taxi 40m - Arrow Right | 40m Taxi |
| 119 | 4120 | Taxi 90m -Arrow Left | 90m Taxi |
| 120 | 4121 | Lift access to MRT Via SMU - Arrow Left | Lift access to Mirt |
| 121 | 4122 | Orchard | Orchard |
| 122 | 4123 | MRT Station 75m Ahead | ↑75m |
| 123 | 4124 | MRT Station 75m to the Right | 75m → |
| 124 | 4125 | MRT Station 100m to the Right | MRT 100m→ |
| 125 | 4126 | MRT Station 175m Ahead | MRT ↑175m |
| 126 | 4127 | MRT Station 300m Ahead | ↑ 300m- & |
| 127 | 4128 | MRT Station 325m Ahead | ↑325m |
| 128 | 4129 | MRT Station 325m to the Right | 325m→ |
| 129 | 4130 | MRT Station 325m to the Left | |
| 130 | 4131 | MRT Station 350m Ahead | ↑350m |



| RIMS Unit | | | ata Collection Specification |
|-----------|--------|---|--|
| No | TYP_CD | Description of Supplementary Traffic Signs | Symbol |
| 131 | 4132 | MRT Station 400m Ahead | ↑400m |
| 132 | 4133 | 300m | 300m |
| 133 | 4134 | NO PARKING | NO FARENCE |
| 134 | 4135 | Bicycle Park-Notice | NOTICE Beyond that the first operation doing) special properties of the sign of a second on the put of the sign |
| 135 | 4136 | No movement of vehicles with 3 or more axles | No movement of vehicles with 3 or more axles |
| 136 | 4137 | Alternative Crossings A - POB to the Right, Traffic Crossing to the Left | Alternative Crossings |
| 137 | 4138 | Alternative Crossings B - POB to the Left, Traffic Crossing to the Right | Alternative Crossings |
| 138 | 4139 | Taxi Pick-up | First agg |
| 139 | 4140 | Mon - Fri 7.30am t 8.30am Excluding Public Holidays | Mon - Fri 2 Minst - B Minst Excharge Public Heaterys |
| 140 | 4141 | Except Mon - Fri 7.30am t 8.30am Excluding Public Holidays | Except Mon Fri 2 30an - 1 30an Excluding Public Incidiays |
| 141 | 4142 | MRT Station XXm to the Right | S A MRT |
| 142 | 4143 | MRT Station XXm to the Left | S A NRT ←XX m |
| 143 | 4144 | MRT Station XXm Ahead | ↑XXm |



| RIMS Unit | | GIS L | Pata Collection Specification |
|-----------|--------|---|---|
| No | TYP_CD | Description of Supplementary Traffic Signs | Symbol |
| 144 | 4145 | No Movement of Trailers with Containers | NO MOVEMENT OF TRAILERS |
| 145 | 4146 | Mon - Fri: 7.30am to 8.00pm Except Public Holiday | WITH CONTAINERS Mon to Frie 7.30 am - 8.00 pm Except Public Holiday |
| 146 | 4147 | Mon - Fri 6.30am to 7.20am | Mon - Fri 6.30am - 7.20am |
| 147 | 4148 | No Riding Fine : \$1000 | NO RIDING FINE: \$ 1000 |
| 148 | 4149 | Mon – Fri 7.00am – 7.30am | Man - Fri I Blan - / Mon |
| 149 | 4150 | When Lights Flash (accompanied by a pair of amber LED lights) | When Lights Flash |
| 150 | 4151 | Fine up to \$XXX & X Demerit points | Fine up to \$300 & 3 Demerit points |
| 151 | 4152 | XXXm | XXXm |
| 152 | 4153 | Transit Logo | (1) |
| 153 | 4154 | Drop off | ₽ |
| 154 | 4155 | Mon - Sat 7.30am - 11am Except Sunday and Public Holidays | Mon - Sat 7.30am - 11pm Except Sunday & Public Holidays |
| 155 | 4156 | Mon - Fri 6.30am - 7.30am | Mon - Fri 6.30am - 7.30am |
| 156 | 4157 | Exceeding 2000kg In Unladen Weight | Exceeding 2000 kg In Unladen Weight |
| 157 | 4158 | Mon – Fri 6.45am – 7.45am Excluding Public Holiday | Mon-Fri 6.45am-7.45am Excluding Public Holiday |
| 158 | 4159 | Except School Days Mon – Fri 6.30am – 7.45am | Except School Days Mon-Fri 6.30am-7.45am |



| KINIS UTIIL GIS D | | | vata Collection Specification |
|-------------------|--------|---|---|
| No | TYP_CD | Description of Supplementary Traffic Signs | Symbol |
| 159 | 4160 | MON – FRI 7.30am – 9.30am 5.30pm – 7.30pm EXCEPT PUBLIC HOLIDAY | MON - FRI 7.30am - 9.30am 5.30pm - 7.30pm EXCEPT PUBLIC HOLIDAY |
| 160 | 4161 | 12mn -5am Thu, Sat – Sun & Public Holidays | 12mn-5am Thu, Sat-Sun & Public Holidays |
| 161 | 4162 | 6.30am – 7.30am Except Sat, Sun & Public Holidays | 6.45am-7.30am Except Sat, Sun & Public Holidays |
| 162 | 4163 | X.XXam to X.XXam | x.xx am to x.xx am |
| 163 | 4164 | Except For Public Buses Only On Left Lane | Except For Public Buses Only On Left Lane |
| 164 | 4165 | Except LTA & NParks Vehicles | Except LTA & NParks Vehicles |
| 165 | 4166 | Mon - Fri 6.45am - 7.45am 1.30pm - 3.00pm | Mon - Fri 6.45am - 7.45am 1.30pm - 3.00pm |



17.1.5 Mandatory Traffic Signs

| No | TYP_CD | Description of Mandatory Traffic Signs | Symbol |
|----|--------|--|------------|
| 1 | 5001 | Stop | STOP |
| 2 | 5002 | Give Way | GIVE |
| 3 | 5003 | Stop Children | STOP |
| 4 | 5004 | Ahead Only | |
| 5 | 5005 | Turn Left | |
| 6 | 5006 | Turn Right | |
| 7 | 5007 | Keep Left | |
| 8 | 5008 | Keep Right | (3) |
| 9 | 5009 | Turn Left Ahead | 1 |
| 10 | 5010 | Turn Right Ahead | |
| 11 | 5011 | Pass Either Side | |



17.1.6 Street, Flyover, Tunnel, Underpass and Viaduct Traffic Signs

| No | TYP_CD | Description of Street, Flyover, Tunnel, Underpass and Viaduct Traffic Signs | Symbol |
|----|--------|--|-----------|
| 1 | 6001 | Street Name (Single-Sided, in English only) | - |
| 2 | 6002 | Street Name (Double-Sided, in English only) | • |
| 3 | 6003 | Street Name (Single-Sided, in English and other languages) | |
| 4 | 6004 | Street Name (Double-Sided, in English and other languages) | |
| 5 | 9000 | Flyover | Flyover |
| 6 | 9300 | Tunnel | Tunnel |
| 7 | 9400 | Underpass | Underpass |
| 8 | 9500 | Viaduct | Viaduct |



17.2 List of Flyover, Tunnel, Underpass and Viaduct Names

| No | TYP_CD | Name of Flyover |
|----|--------|---------------------------------|
| 1 | 9001 | Aljunied Flyover |
| 2 | 9002 | Anak Bukit Flyover |
| 3 | 9003 | Ang Mo Kio South Flyover |
| 4 | 9004 | Ang Mo Kio Central Flyover |
| 5 | 9005 | Ang Mo Kio North Flyover |
| 6 | 9006 | Api Api Flyover |
| 7 | 9007 | Bahar Flyover |
| 8 | 9008 | Bedok North Flyover |
| 9 | 9009 | Bedok Reservoir Flyover |
| 10 | 9010 | Benjamin Sheares Bridge |
| 11 | 9011 | Benoi Flyover |
| 12 | 9012 | Bishan Flyover |
| 13 | 9013 | Braddell Flyover |
| 14 | 9014 | Bukit Batok Flyover |
| 15 | 9015 | Bukit Merah Flyover |
| 16 | 9016 | Buona Vista Flyover |
| 17 | 9017 | Changi Airport Aircraft Flyover |
| 18 | 9018 | Changi Flyover |
| 19 | 9019 | Chantek Flyover |
| 20 | 9020 | Choa Chu Kang East Flyover |
| 21 | 9021 | Choa Chu Kang West Flyover |
| 22 | 9022 | Clementi Flyover |
| 23 | 9023 | Clementi North Flyover |
| 24 | 9024 | Corporation Flyover |
| 25 | 9025 | Dairy Farm Flyover |
| 26 | 9026 | Eng Neo Flyover |
| 27 | 9027 | Eunos Flyover |
| 28 | 9028 | Farrer Flyover |
| 29 | 9029 | Gall Batu Flyover |
| 30 | 9030 | Gillman Flyover |
| 31 | 9031 | Henderson Flyover |
| 32 | 9032 | Holland Flyover |
| 33 | 9033 | Hong Kah Flyover |
| 34 | 9034 | Jalan Kayu Flyover |
| 35 | 9035 | Jurong East Flyover |
| 36 | 9036 | Jurong Hill Flyover |
| 37 | 9037 | Kampong Bahru Flyover |
| 38 | 9038 | Kampong Java Flyover |
| 39 | 9039 | Kim Keat Flyover |
| 40 | 9040 | Laguna Flyover |
| 41 | 9041 | Lam San Flyover |
| 42 | 9042 | Lentor Flyover |
| 43 | 9043 | Lower Delta Flyover |
| 44 | 9044 | Loyang Flyover |



| IMS Unit | | GIS Data Collection Specification |
|----------|-----------|-----------------------------------|
| No | TYP_CD | Name of Flyover |
| 45 | 9045 | Mandai Flyover |
| 46 | 9046 | Mandal Lake Flyover |
| 47 | 9047 | Marine Parade Flyover |
| 48 | 9048 | Marsiling Flyover |
| 49 | 9049 | Marymount Flyover |
| 50 | 9050 | Moulmein Flyover |
| 51 | 9051 | Mount Pleasant Flyover |
| 52 | 9052 | Nanyang Flyover |
| 53 | 9053 | Nee Soon Flyover |
| 54 | 9054 | Newton Flyover |
| 55 | 9055 | Ophir Flyover |
| 56 | 9056 | Outram Flyover |
| 57 | 9057 | Oxley Flyover |
| 58 | 9058 | Pandan Flyover |
| 59 | 9059 | Pasir Laba Flyover |
| 60 | 9060 | Pasir Ris Flyover |
| 61 | 9061 | Paya Lebar Flyover |
| 62 | 9062 | Pioneer Flyover |
| 63 | 9063 | Punggol Flyover |
| 64 | 9064 | Radin Mas Flyover |
| 65 | 9065 | Rifle Range Flyover |
| 66 | 9066 | Rochor Flyover |
| 67 | 9067 | Seletar Flyover (CTE) |
| 68 | 9068 | Sembawang Flyover |
| 69 | 9069 | Tampines Flyover |
| 70 | 9070 | Tampines South Flyover |
| 71 | 9071 | Tanah Merah Flyover |
| 72 | 9072 | Tanjong Katong Flyover |
| 73 | 9073 | Tanjong Rhu Flyover |
| 74 | 9074 | Teban Flyover |
| 75 | 9075 | Telok Ayer Flyover |
| 76 | 9076 | Tengah Flyover |
| 77 | 9077 | Thomson Flyover |
| 78 | 9078 | Toa Payoh North Flyover |
| 79 | 9079 | Toa Payoh South Flyover |
| 80 | 9080 | Toh Tuck Flyover |
| 81 | 9081 | Tuas Flyover |
| 82 | 9082 | Turf Club Flyover |
| 83 | 9083 | Ulu Sembawang Flyover |
| 84 | 9084 | University Flyover |
| 85 | 9085 | Upper Changi Flyover |
| 86 | 9086 | Upper Seletar Flyover |
| 87 | 9087 | Upper Thomson Flyover |
| 88 | 9088 | Wayang Satu (Whitley) Flyover |
| 89 | 9089 | Whampoa Flyover |
| | 1 2 2 2 2 | This in pour injuries |

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| IIVIS Unit | | GIS Data Collection Specification |
|------------|--------|-----------------------------------|
| No | TYP_CD | Name of Flyover |
| 90 | 9090 | Woodlands Flyover |
| 91 | 9091 | Woodlands South Flyover |
| 92 | 9092 | Woodsville Flyover |
| 93 | 9093 | Yew Tee Flyover |
| 94 | 9094 | Yio Chu Kang Flyover |
| 95 | 9095 | Zhenghua Flyover |
| 96 | 9096 | Adam Flyover |
| 97 | 9097 | Merdeka Bridge |
| 98 | 9098 | Punggol East Flyover |
| 99 | 9099 | Punggol West Flyover |
| 100 | 9100 | Bukit Timah Seven Mile Flyover |
| 101 | 9101 | Buangkok Flyover |
| 102 | 9102 | Toh Guan Flyover |
| 103 | 9103 | West Coast Flyover |
| 104 | 9104 | Penjuru Flyover |
| 105 | 9105 | Aljunied West Flyover |
| 106 | 9106 | Kallang Way Flyover |
| 107 | 9107 | Defu Flyover |
| 108 | 9108 | Jurong Pier Flyover |
| 109 | 9109 | Jurong Port Flyover |
| 110 | 9110 | Keppel Flyover |
| 111 | 9111 | Portsdown Flyover |
| 112 | 9112 | Queenstown Flyover |
| 113 | 9113 | Simei Flyover |
| 114 | 9114 | Utown Flyover |
| 115 | 9115 | Seletar Aerospace Flyover |
| 116 | 9116 | Bukit Panjang Flyover |
| 117 | 9117 | Hillview Flyover |

| No | TYP_CD | Name of Tunnel |
|----|--------|---------------------|
| 1 | 9300 | Chin Swee Tunnel |
| 2 | 9301 | Kampong Java Tunnel |
| 3 | 9302 | Woodsville Tunnel |
| 4 | 9303 | Fort Canning Tunnel |
| 5 | 9304 | KPE Tunnel |

| No | TYP_CD | Name of Underpass |
|----|--------|-----------------------|
| 1 | 9400 | Ang Mo Kio Underpass |
| 2 | 9401 | Bartley Underpass |
| 3 | 9402 | Bukit Timah Underpass |
| 4 | 9403 | Dunearn Underpass |
| 5 | 9404 | Tuas Underpass |
| 6 | 9405 | Tuas West Underpass |
| 7 | 9406 | Queensway Underpass |
| 8 | 9407 | Braddell Underpass |



| | No | TYP_CD | Name of Underpass |
|---|----|--------|-----------------------------|
| | 9 | 9408 | Clementi Avenue 6 Underpass |
| | 10 | 9409 | Anak Bukit Underpass |
| Ī | 11 | 9410 | Farrer Underpass |
| | 12 | 9411 | Upper Paya Lebar Underpass |

| No | TYP_CD | Name of Viaduct |
|----|--------|----------------------------|
| 1 | 9500 | Keppel Viaduct |
| 2 | 9501 | Macritchie Viaduct |
| 3 | 9502 | Telok Blangah Viaduct |
| 4 | 9503 | Tuas Checkpoint Viaduct |
| 5 | 9504 | Upper Serangoon Viaduct |
| 6 | 9505 | Serangoon Viaduct |
| 7 | 9506 | Lornie Viaduct |
| 8 | 9507 | Bartley Viaduct |
| 9 | 9508 | West Coast Highway Viaduct |

17.3 List of Cycling Signs

| No | TYP_CD | Description of Cycling Signs | Symbol |
|----|--------|---|--------------------------|
| 1 | 7001 | Dismount & Push (Graphics & Words) | Dismount and Push |
| 2 | 7002 | Arrow-Right | |
| 3 | 7003 | Arrow-Left | |
| 4 | 7004 | Arrow-Ahead | |
| 5 | 7005 | Shared Path (graphic) | |
| 6 | 7006 | Stay on Path - Pedestrian-Right, Cyclist-Left (graphic & words) | STAY ON PATH |
| 7 | 7007 | Stay on Path - Cyclist-Right, Pedestrian-Left (graphic & words) | STAY ON PATH |
| 8 | 7008 | Give Way to Pedestrians (graphic & words) | Give Way To Pedestrians |
| 9 | 7009 | Beware of Vehicles (graphic & words) | Beware of Vehicles |
| 10 | 7010 | Cycling Path across road - Right | Cycling Path across road |



| RIMS Unit GIS Data | | | ata Collection Specification |
|--------------------|--------|--|------------------------------|
| No | TYP_CD | Description of Cycling Signs | Symbol |
| 11 | 7011 | Cycling Path across road - Left | Cycling Path across road |
| 12 | 7012 | Cycling Path XXX m - Right | Cycling Path xxx m |
| 13 | 7013 | Cycling Path XXX m - Left | Cycling Path xxx m |
| 14 | 7014 | Cycling Path XXX m - Ahead | Cycling Path xxx m |
| 15 | 7015 | Cycling Path across road (graphic & words) - Right | Cycling Path across road |
| 16 | 7016 | Cycling Path across road (graphic & words) - Left | Cycling Path across road |
| 17 | 7017 | Cycling Path XXX m (graphic & words) - Right | Cycling Path XXXX m |
| 18 | 7018 | Cycling Path XXX m (graphic & words) - Left | Cycling Path xxx m |
| 19 | 7019 | Cycling Path XXX m (graphic & words) - Ahead | Cycling Path xxxx m |
| 20 | 7020 | Pedestrians - Right | Pedestrians |
| 21 | 7021 | Pedestrians - Left | Pedestrians - |
| 22 | 7022 | Dismount | Dismount |



| RIMS Unit GIS Data Collection Specific | | | |
|--|--------|------------------------------|---------------------------|
| No | TYP_CD | Description of Cycling Signs | Symbol |
| 23 | 7023 | Stay On Path (Cyclist Left) | Stay On Track |
| 24 | 7024 | Stay On Path (Cyclist Right) | Stay On Track |
| 25 | 7025 | Shared Track Keep Left | Shared Track Keep Left |
| 26 | 7026 | Give Way To Pedestrians | Give Way To Pedestrians |
| 27 | 7027 | Watch Out For Vehicles | Watch Out For Vehicles |
| 28 | 7028 | Slow | SLOW |
| 29 | 7029 | Shared Path Keep Left | |



17.4 List of Word Marking

| No | Value | Symbol | Description |
|----|---------|------------|------------------------------------|
| 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 |
| 10 | 20 | 20 | 20 |
| 11 | 25 | 25 | 25 |
| 12 | 40 | 40 | 40 |
| 13 | 50 | 50 | 50 |
| 14 | 60 | 60 | 60 |
| 15 | 70 | 70 | 70 |
| 16 | 80 | 80 | 80 |
| 17 | 90 | 90 | 90 |
| 18 | 07:30 - | 1 4 50 M | 07:30 - |
| | 20:00 | // U/:3U=\ | 20:00 |
| | | 20:00 | (Bus Lane Operating Hours Marking) |
| 19 | 23:00 | 23:00 | 23:00 |
| 20 | 50M | 50M | 50M |
| 21 | 50s | 三 三 | '50' KPH Speed Marking |
| | | | (with stripe - anti skid) |
| 22 | 70s | = AT | '70' KPH Speed Marking |
| | | | (with stripe - anti skid) |
| 23 | 80s | AAT | '80' KPH Speed Marking |
| | | | (with stripe - anti skid) |
| 24 | (AYE) | (AYE) | (AYE) |
| 25 | (ECP) | (ECP) | (ECP) |
| 26 | (KPE) | (KPE) | (KPE) |
| 27 | (MCE) | (MCE) | (MCE) |
| 28 | (SLE) | (SLE) | (SLE) |
| 29 | AHEAD | AHEAD | AHEAD |
| 30 | AIRPORT | AIRPORT | AIRPORT |
| 31 | AMK | AMK | ANG MO KIO |
| 32 | AND | AND | AND |
| 33 | A'PORT | A'PORT | AIRPORT |



| No | RIMS Un | | | GIS Data Collection Specification |
|--|---------|--------------|-------------|-----------------------------------|
| ARRIVAL ARROW GRAPHIC) BUSE B B B B B B B B B B B B B | No | Value | Symbol | Description |
| ARROW GRAPHIC) AVE AVE AVENUE AVE 1 AVENUE 1 AVE 1 AVENUE 1 AVE 6 AVE 6 AVENUE 6 AVE 6 AVENUE 6 AVENUE 6 AVE AVE AVENUE 6 AVENUE 1 AVENUE 6 AVENUE 1 BDUS BBDALL BBDALL BBDOK BBOOK BBDOK BBOOK BBDOK BBOOK BBOOK BBOOK BBOOK BBOOK BBOOK BBOOK BBOOK BEDOK BBOOK BEOK BOOK BENES | 34 | A'PT | A'PT | AIRPORT |
| AVE | 35 | ARRIVAL | ARRIVAL | ARRIVAL |
| AVE | 36 | ARROW | 8 | ARROW (GRAPHIC) |
| AVE | | | 8 | |
| 37 | | | + | |
| 38 | 37 | Δ\/F | 5199/4/07/0 | AVENUE |
| 39 | | | | |
| 40 AYE AYE AYE AYE AYERRAJAH EXPRESSWAY 41 B B B B B 42 B'DELL B'DELL BRADELL 43 BAY BAY BAY 44 BEDOK BEDOK BEDOK 45 BISHAN BISHAN BISHAN 46 BKE BKE BUKIT TIMAH EXPRESSWAY 47 BRANI BRANI BRANI BRANI 48 BT BT BUDGET TERMINAL 49 BUS BUS BUS 50 BUSES BUSES BUSES 51 C C C 52 CAMLOGO CAMERA LOGO (GRAPHIC) 53 CAR CAR CAR 4 CHANGI CHANGI CHANGI 55 CITY CITY CITY 56 CLEMENTI CLEMENTI CLEMENTI 57 CROSSING CROSSING CROSSING 58 CTE CTE CTE CENTRAL EXPRESSWAY 59 CYCLE CYCLE 60 CYCLE LOGO CYCLE LOGO (GRAPHIC) 61 CYCLING LANE CYCLE CYCLE 62 D'FARM D'FARM DAIRY FARM 63 DOWN DOWN 64 DRIVE DRIVE DRIVE 65 D'TURE D'TURE DEPARTURE 66 EAST EAST EAST 67 ECP ECP ECP EAST COATPINITS (GRAPHIC) FOOTPRINTS FOOTPRINTS FOOTPRINTS FOOTPRINTS (GRAPHIC) | | | | |
| 41 B B B B B B B B B B B B B B B B B B B | | | | |
| ## BYDELL BYDELL BRADELL ## BEDOK BEDOK BEDOK ## BEDOK BEDOK BEDOK ## BEDOK BISHAN BISHAN ## BEDOK BERNAN BISHAN ## BERNAN BISHAN BISHAN ## BRANI BRANI BRANI ## BERNAN BERNAN BERNAN ## BERNANI BRANI BRANI ## BUS BUS BUS BUS BUSS ## COMMITTION CONTROLLING CONTR | | | | |
| 43 BAY BEDOK BEDOK BEDOK 45 BISHAN BISHAN BISHAN 46 BKE BKE BUKIT TIMAH EXPRESSWAY 47 BRANI BRANI BRANI BRANI 48 BT BT BUDGET TERMINAL 49 BUS BUS BUSES 50 BUSES BUSES BUSES 51 C C C C 52 CAMLOGO CAMERA LOGO (GRAPHIC) 53 CAR CAR CAR 54 CHANGI CHANGI CHANGI 55 CITY CITY CITY 56 CLEMENTI CLEMENTI CLEMENTI 57 CROSSING CROSSING CROSSING 58 CTE CTE CTE CENTRAL EXPRESSWAY 59 CYCLE CYCLE CYCLE 60 CYCLE LOGO CYCLE LOGO (GRAPHIC) 61 CYCLING LANE 62 D'FARM D'FARM DAIRY FARM 63 DOWN DOWN DOWN 64 DRIVE DRIVE DRIVE 65 D'TURE D'TURE DEPARTURE 66 EAST EAST 67 ECP ECP ECP EAST COAST PARKWAY 69 FOOTPRINTS 60 LIST TIME TO TOT TOT TOT TOT TOT TOT TOT TOT TOT | | | | |
| 44 BEDOK BEDOK BISHAN 45 BISHAN 46 BKE BKE BKE BUKIT TIMAH EXPRESSWAY 47 BRANI BRANI BRANI BRANI 48 BT BT BUDGET TERMINAL 49 BUS BUS BUS 50 BUSES BUSES BUSES 51 C C C 52 CAMLOGO CAMERA LOGO (GRAPHIC) 53 CAR CAR CAR 54 CHANGI CHANGI CHANGI 55 CITY CITY CITY 56 CLEMENTI CLEMENTI CLEMENTI 57 CROSSING CROSSING CROSSING 58 CTE CTE CTE CENTRAL EXPRESSWAY 59 CYCLE CYCLE CYCLE 60 CYCLE LOGO CYCLE LOGO (GRAPHIC) 61 CYCLING LANE CYCLE CYCL | | | | |
| BISHAN BISHAN BISHAN BISHAN BKE BKE BUKIT TIMAH EXPRESSWAY BRANI BRANI BRANI BRANI BRANI BRANI BRANI BRANI BUDGET TERMINAL BUS BUS BUS BUSES CAMLOGO CAMERA LOGO (GRAPHIC) CAMERA LOGO (GRAPHIC) CAMERA LOGO (GRAPHIC) CITY | | | | |
| 46 BKE BRANI BRANI BRANI BRANI 48 BT BT BT BUDGET TERMINAL 49 BUS BUSES BUSES 50 BUSES BUSES BUSES 51 C C C 52 CAMLOGO CAMERA LOGO (GRAPHIC) 53 CAR CAR CAR 54 CHANGI CHANGI CHANGI 55 CITY CITY CITY 56 CLEMENTI CLEMENTI CLEMENTI 57 CROSSING CROSSING CROSSING 58 CTE CTE CENTRAL EXPRESSWAY 59 CYCLE CYCLE CYCLE 60 CYCLE LOGO CYCLE LOGO (GRAPHIC) 61 CYCLING LANE CYCLE CYCLE CYCLE LOGO (GRAPHIC) 62 D'FARM D'FARM DAIRY FARM 63 DOWN DOWN DOWN 64 DRIVE DRIVE DEPARTURE 65 D'TURE D'TURE DEPARTURE 66 EAST EAST EAST 67 ECP ECP ECP EAST COAST PARKWAY 68 EXIT EXIT EXIT 69 FOOTPRINTS | | | | |
| 47 BRANI BRANI BRANI BRANI 48 BT BT BUDGET TERMINAL 49 BUS BUS BUS BUSES 50 BUSES BUSES BUSES 51 C C C C 52 CAMLOGO CAMERA LOGO (GRAPHIC) 53 CAR CAR CAR 54 CHANGI CHANGI CHANGI 55 CITY CITY CITY 56 CLEMENTI CLEMENTI CLEMENTI 57 CROSSING CROSSING CROSSING 58 CTE CTE CENTRAL EXPRESSWAY 59 CYCLE CYCLE CYCLE 60 CYCLE LOGO CYCLE LOGO (GRAPHIC) 61 CYCLING LANE CYCLE CYC | | | | - |
| 48 BT BUS BUS BUS BUS BUSES 50 BUSES BUSES BUSES 51 C C C C 52 CAMLOGO CAMERA LOGO (GRAPHIC) 53 CAR CAR CAR CAR 54 CHANGI CHANGI CHANGI 55 CITY CITY CITY 56 CLEMENTI CLEMENTI CLEMENTI 57 CROSSING CROSSING CROSSING 58 CTE CTE CENTRAL EXPRESSWAY 59 CYCLE CYCLE CYCLE 60 CYCLE LOGO CYCLE LOGO (GRAPHIC) 61 CYCLING LANE CYCLE LOGO (GRAPHIC) 61 CYCLING LANE CYCLING LANE (GRAPHIC) 62 D'FARM D'FARM DAIRY FARM 63 DOWN DOWN DOWN 64 DRIVE DRIVE DRIVE DRIVE 65 D'TURE D'TURE DEPARTURE 66 EAST EAST EAST 67 ECP ECP EAST COAST PARKWAY 68 EXIT EXIT EXIT 69 FOOTPRINTS 69 FOOTPRINTS 60 FOOTPRINTS | | | | |
| 49 BUS BUSES BUSES BUSES 51 C C C C 52 CAMLOGO 53 CAR CAR CAR CAR 54 CHANGI CHANGI CHANGI 55 CITY CITY CITY 56 CLEMENTI CLEMENTI CLEMENTI 57 CROSSING CROSSING CROSSING 58 CTE CTE CENTRAL EXPRESSWAY 59 CYCLE CYCLE CYCLE CYCLE CYCLE CYCLE CYCLE LOGO (GRAPHIC) 61 CYCLING LANE 62 D'FARM D'FARM DAIRY FARM 63 DOWN DOWN DOWN 64 DRIVE DRIVE DRIVE 65 D'TURE D'TURE DEPARTURE 66 EAST EAST EAST 67 ECP ECP ECP EAST COAST PARKWAY 69 FOOTPRINTS FOOTPRINTS 60 CCAMERA LOGO (GRAPHIC) CHANGI CH | | | | |
| 50 BUSES BUSES BUSES 51 C C C 52 CAMLOGO CAR CAR 53 CAR CAR CAR 54 CHANGI CHANGI CHANGI 55 CITY CITY CITY 56 CLEMENTI CLEMENTI CLEMENTI 57 CROSSING CROSSING CROSSING 58 CTE CTE CENTRAL EXPRESSWAY 59 CYCLE CYCLE CYCLE 60 CYCLE LOGO CYCLE LOGO (GRAPHIC) 61 CYCLING LANE CYCLING LANE (GRAPHIC) 62 D'FARM D'FARM DAIRY FARM 63 DOWN DOWN DOWN 64 DRIVE DRIVE DRIVE 65 D'TURE D'TURE DEPARTURE 66 EAST EAST EAST 67 ECP ECP EAST COAST PARKWAY 68 EXIT EXIT EXIT 69 FOOTPRINTS FOOTPRINTS (GRAPHIC) | | | | |
| C C CAMLOGO CAMERA LOGO (GRAPHIC) CHANGI C | | | | |
| CAMLOGO CAMERA LOGO (GRAPHIC) CAR CAR CAR CAR CAR CHANGI CHANGI CHANGI CHANGI CITY CITY CITY CITY CITY CITY CITY CLEMENTI CLEMENTI CROSSING CROSING CROSSING CROSING CROSSING CROSI | | | | |
| 53 CAR CAR CAR 54 CHANGI CHANGI CHANGI 55 CITY CITY CITY 56 CLEMENTI CLEMENTI CLEMENTI 57 CROSSING CROSSING CROSSING 58 CTE CTE CENTRAL EXPRESSWAY 59 CYCLE CYCLE CYCLE 60 CYCLE LOGO CYCLE LOGO (GRAPHIC) 61 CYCLING LANE CYCLE CYCLING LANE (GRAPHIC) 62 D'FARM D'FARM DAIRY FARM 63 DOWN DOWN DOWN 64 DRIVE DRIVE DRIVE 65 D'TURE D'TURE DEPARTURE 66 EAST EAST 67 ECP ECP EAST COAST PARKWAY 68 EXIT EXIT EXIT 69 FOOTPRINTS | | | | - |
| 53 CAR CAR CAR 54 CHANGI CHANGI CHANGI 55 CITY CITY CITY 56 CLEMENTI CLEMENTI CLEMENTI 57 CROSSING CROSSING CROSSING 58 CTE CTE CENTRAL EXPRESSWAY 59 CYCLE CYCLE CYCLE 60 CYCLE LOGO CYCLE LOGO CYCLE LOGO (GRAPHIC) 61 CYCLING LANE CYCLE 60 CYCLE LOGO CRAPHIC) 61 CYCLING LANE CGRAPHIC) 62 D'FARM DAIRY FARM 63 DOWN DOWN DOWN 64 DRIVE DRIVE DRIVE 65 D'TURE D'TURE DEPARTURE 66 EAST EAST EAST 67 ECP ECP EAST COAST PARKWAY 68 EXIT EXIT EXIT 69 FOOTPRINTS FOOTPRINTS (GRAPHIC) | J2 | CAIVILOGO | | CAMERA LOGO (GRAFFIIC) |
| CHANGI CHANGI CHANGI CITY CITY CITY CITY CLEMENTI CLEMENTI CLEMENTI CROSSING CROSING CROSSING CROSSICA | | | 0 | |
| 55 CITY CITY CITY 56 CLEMENTI CLEMENTI CLEMENTI 57 CROSSING CROSSING CROSSING 58 CTE CTE CENTRAL EXPRESSWAY 59 CYCLE CYCLE CYCLE 60 CYCLE LOGO CYCLE LOGO (GRAPHIC) 61 CYCLING LANE CYCLING LANE (GRAPHIC) 62 D'FARM D'FARM DAIRY FARM 63 DOWN DOWN DOWN 64 DRIVE DRIVE DRIVE 65 D'TURE D'TURE DEPARTURE 66 EAST EAST EAST 67 ECP ECP ECP EAST COAST PARKWAY 68 EXIT EXIT EXIT 69 FOOTPRINTS FOOTPRINTS FOOTPRINTS (GRAPHIC) | 53 | CAR | CAR | CAR |
| CLEMENTI CLEMENTI CROSSING CROTAL CROSSING CROSSING CROTAL CROSSING CROSSING CROTAL CROSSING CROSSING CROSSING CROTAL CROSSING CROSSING CROTAL CROSSING CROS | 54 | CHANGI | CHANGI | CHANGI |
| 57 CROSSING CROSSING CROSSING 58 CTE CTE CENTRAL EXPRESSWAY 59 CYCLE CYCLE CYCLE 60 CYCLE LOGO CYCLE LOGO (GRAPHIC) 61 CYCLING LANE CYCLING LANE (GRAPHIC) 62 D'FARM D'FARM DAIRY FARM 63 DOWN DOWN DOWN 64 DRIVE DRIVE DRIVE 65 D'TURE D'TURE DEPARTURE 66 EAST EAST EAST 67 ECP ECP EAST COAST PARKWAY 68 EXIT EXIT EXIT 69 FOOTPRINTS FOOTPRINTS (GRAPHIC) | 55 | CITY | CITY | CITY |
| CTE CYCLE CYCLE CYCLE CYCLE LOGO CYCLE LOGO CYCLE LOGO CYCLE LOGO CYCLE LOGO (GRAPHIC) CYCLING LANE CYCLING LANE CYCLING LANE CYCLING LANE (GRAPHIC) CYCLING LANE (GRAPHIC) CYCLING LANE (GRAPHIC) CYCLING LANE (GRAPHIC) D'FARM DAIRY FARM DOWN DOWN DOWN AND DOWN DOWN DOWN DOWN DOWN CYCLING LANE (GRAPHIC) DAIRY FARM DAIRY FARM DOWN DOWN EAST D'TURE DEPARTURE EAST EAST EAST EAST EAST EAST EAST FOOTPRINTS FOOTPRINTS (GRAPHIC) FOOTPRINTS (GRAPHIC) | 56 | CLEMENTI | CLEMENTI | CLEMENTI |
| CYCLE CYCLE CYCLE CYCLE CYCLE LOGO CYCLE LOGO (GRAPHIC) 61 CYCLING LANE CYCLING LANE (GRAPHIC) 62 D'FARM D'FARM DAIRY FARM 63 DOWN DOWN DOWN 64 DRIVE DRIVE DRIVE 65 D'TURE D'TURE DEPARTURE 66 EAST EAST EAST 67 ECP ECP ECP EAST COAST PARKWAY 68 EXIT EXIT EXIT 69 FOOTPRINTS FOOTPRINTS FOOTPRINTS (GRAPHIC) | 57 | CROSSING | CROSSING | CROSSING |
| CYCLE LOGO CYCLE LOGO CYCLE LOGO (GRAPHIC) CYCLING LANE CYCLING LANE (GRAPHIC) CYCLE LOGO (GRAPHIC) CYCLING LANE (GRAPHIC) | 58 | | | CENTRAL EXPRESSWAY |
| 61 CYCLING LANE 62 D'FARM 63 DOWN 64 DRIVE 65 D'TURE 66 EAST 67 ECP 68 EXIT 69 FOOTPRINTS CYCLING LANE (GRAPHIC) | 59 | CYCLE | CYCLE | CYCLE |
| 62 D'FARM D'FARM DAIRY FARM 63 DOWN DOWN DOWN 64 DRIVE DRIVE DRIVE 65 D'TURE D'TURE DEPARTURE 66 EAST EAST EAST 67 ECP ECP EAST COAST PARKWAY 68 EXIT EXIT EXIT 69 FOOTPRINTS FOOTPRINTS FOOTPRINTS | 60 | CYCLE LOGO | 8 | CYCLE LOGO (GRAPHIC) |
| 62 D'FARM D'FARM DAIRY FARM 63 DOWN DOWN DOWN 64 DRIVE DRIVE DRIVE 65 D'TURE D'TURE DEPARTURE 66 EAST EAST EAST 67 ECP ECP EAST COAST PARKWAY 68 EXIT EXIT EXIT 69 FOOTPRINTS FOOTPRINTS FOOTPRINTS | | | OIO | |
| 63 DOWN DOWN 64 DRIVE DRIVE 65 D'TURE D'TURE 66 EAST EAST 67 ECP ECP 68 EXIT EXIT 69 FOOTPRINTS FOOTPRINTS (GRAPHIC) | 61 | CYCLING LANE | | CYCLING LANE (GRAPHIC) |
| 64 DRIVE DRIVE DRIVE 65 D'TURE D'TURE DEPARTURE 66 EAST EAST EAST 67 ECP ECP EAST COAST PARKWAY 68 EXIT EXIT EXIT 69 FOOTPRINTS DRIVE DRIVE DRIVE DRIVE DEPARTURE EAST EAST FOOTPRINTS FOOTPRINTS (GRAPHIC) | 62 | D'FARM | D'FARM | DAIRY FARM |
| 65 D'TURE D'TURE DEPARTURE 66 EAST EAST EAST 67 ECP ECP EAST COAST PARKWAY 68 EXIT EXIT EXIT 69 FOOTPRINTS FOOTPRINTS FOOTPRINTS | 63 | DOWN | DOWN | DOWN |
| 66 EAST EAST EAST 67 ECP ECP EAST COAST PARKWAY 68 EXIT EXIT EXIT 69 FOOTPRINTS FOOTPRINTS FOOTPRINTS | 64 | DRIVE | DRIVE | DRIVE |
| 67 ECP ECP EAST COAST PARKWAY 68 EXIT EXIT EXIT 69 FOOTPRINTS FOOTPRINTS (GRAPHIC) | | | | DEPARTURE |
| 68 EXIT EXIT EXIT 69 FOOTPRINTS FOOTPRINTS (GRAPHIC) | | | | |
| 69 FOOTPRINTS FOOTPRINTS (GRAPHIC) | | ECP | ECP | EAST COAST PARKWAY |
| | | EXIT | EXIT | |
| 70 FORT FORT FORT | 69 | FOOTPRINTS | | FOOTPRINTS (GRAPHIC) |
| | 70 | FORT | FORT | FORT |



| RIMS Uni | RIMS Unit GIS Data Collection Specification | | | |
|----------|---|------------------------|---------------------------------|--|
| No | Value | Symbol | Description | |
| 71 | GATE | GATE | GATE | |
| 72 | HALUS | HALUS | HALUS | |
| 73 | HANDICAP | E | HANDICAP (GRAPHIC) | |
| 74 | HUMP | HUMP | HUMP | |
| 75 | HUMPS | HUMPS | HUMPS | |
| 76 | H'VIEW | H'VIEW | HILLVIEW | |
| 77 | IN | IN | IN | |
| 78 | J'RONG | J'RONG | JURONG | |
| 79 | JURONG | JURONG | JURONG | |
| 80 | KEEP | KEEP | KEEP | |
| 81 | KJE | KJE | KRANJI EXPRESSWAY | |
| 82 | K'LANG | K'LANG | KALLANG | |
| 83 | KM | KM | KM | |
| 84 | KM/H | KM/H | KM/H | |
| 85 | KPE | KPE | KALLANG PAYA LEBAR EXPRESSWAY | |
| | | | | |
| 86 | LANE | LANE | LANE | |
| 87 | LEFT | LEFT | LEFT | |
| 88 | LOADING | LOADING | LOADING | |
| 89 | LOOK | | LOOK (GRAPHIC) | |
| 90 | LOOK L/R ARROW | ←LOOK→ | LOOK LEFT RIGHT ARROW (GRAPHIC) | |
| 91 | LOOK LEFT/RIGHT | STOP GOOK LEFT RIGHT | LOOK LEFT/RIGHT (GRAPHIC) | |
| 92 | LOOKLEFT | ê ê STOP ê ê LOOK LEFT | LOOK LEFT (GRAPHIC) | |
| 93 | LOOKRIGHT | COOK RIGHT | LOOK RIGHT (GRAPHIC) | |
| 94 | LOR | LOR | LORONG | |
| 95 | LORNIE | LORNIE | LORNIE | |
| 96 | LORRY | LORRY | LORRY | |
| 97 | M\CYCLE | M\CYCLE | MOTORCYCLE | |
| 98 | MCE | MCE | MARINA COASTAL EXPRESSWAY | |
| 99 | MOTOR | MOTOR | MOTOR | |
| 100 | MOTORCYCLE | MOTORCYCLE | MOTORCYCLE | |
| 101 | NO | NO | NO | |
| 102 | ONLY | ONLY | ONLY | |
| 103 | OPERATOR | OPERATOR | OPERATOR | |
| 104 | OUT | OUT | OUT | |
| 105 | PARK | PARK | PARK | |
| | 1 | 1 | 1 | |



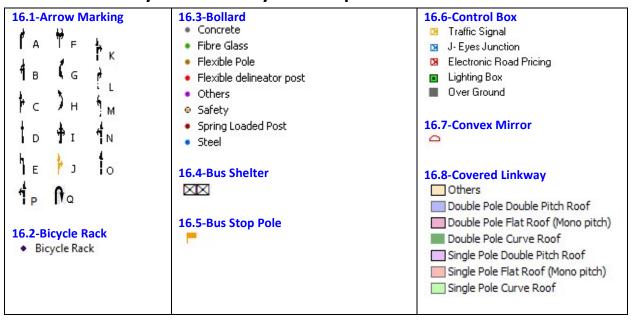
| NO Value Symbol Description 106 PARKING PARKING PARKING 107 PAYOH PAYOH PAYOH 108 P'GGOL P'GGOL PUNGGOL 109 PICK PICK PICK 110 PICK-UP PICK-UP PICK-UP 111 PIE PIE PAN ISLAND EXPRESSWAY 112 PYRAMIDSTRIPS PYRAMID STRIPS (GRAPHIC) 113 RD RD RD 114 RESIDENT RESIDENT 115 ROAD ROAD ROAD 116 ROCHOR ROCHOR ROCHOR 117 S SH SHOULDER (vertical) 118 SBST SINGAPORE BUS SERVICE TRANSIT 119 SCHOOL SCHOOL SCHOOL 120 SENTOSA SENTOSA SENTOSA 121 S'GOON SERANGOON SERANGOON 122 SH SH SHOULDER (horizontal) 123 | RIMS Unit | RIMS Unit GIS Data Collection Specification | | | |
|--|-----------|---|---------------|-------------------------------|--|
| 107 | No | Value | Symbol | Description | |
| 108 | 106 | PARKING | PARKING | PARKING | |
| 109 | 107 | PAYOH | PAYOH | PAYOH | |
| 110 | 108 | P'GGOL | P'GGOL | PUNGGOL | |
| 111 | 109 | PICK | PICK | PICK | |
| 111 | 110 | PICK-UP | PICK-UP | PICK-UP | |
| PYRAMIDSTRIPS | 111 | PIE | PIE | PAN ISLAND EXPRESSWAY | |
| 114 | _ | PYRAMIDSTRIPS | 三 | PYRAMID STRIPS (GRAPHIC) | |
| 115 ROAD ROAD ROCHOR ROCHOR 116 ROCHOR ROCHOR ROCHOR 117 S SH SHOULDER (vertical) 118 SBST SBST SINGAPORE BUS SERVICE TRANSIT 119 SCHOOL SCHOOL SCHOOL 120 SENTOSA SENTOSA SENTOSA 121 S'GOON SERANGOON 122 SH SH SHOULDER (horizontal) 122 SH SH SHOULDER (horizontal) 123 SIMS SIMS SIMS 124 SLE SLE SELETAR EXPRESSWAY 125 SLOW SLOW SLOW 126 SLOWLY SLOWLY SLOWLY 127 STAND STAND STAND 128 STOP STOP STOP 129 STRIP STRIP STRIPS 131 T1 T1 T1 132 T2 T2 T2 133 | 113 | RD | RD | ROAD | |
| 116 ROCHOR ROCHOR ROCHOR 117 S SH SHOULDER (vertical) 118 SBST SBST SINGAPORE BUS SERVICE TRANSIT 119 SCHOOL SCHOOL SCHOOL 120 SENTOSA SENTOSA SENTOSA 121 S'GOON S'GOON SERANGOON 122 SH SH SHOULDER (horizontal) 123 SIMS SIMS SIMS 124 SLE SLE SELETAR EXPRESSWAY 125 SLOW SLOW SLOW 126 SLOWLY SLOWLY SLOWLY 127 STAND STAND STAND 128 STOP STOP STOP 129 STRIP STRIP STRIP 130 STRIPS STRIPS STRIPS 131 T1 T1 T1 132 T2 T2 T2 133 TAXI TAXIS TAXIS 134 | 114 | RESIDENT | RESIDENT | RESIDENT | |
| 117 | 115 | ROAD | ROAD | ROAD | |
| 118 | 116 | ROCHOR | ROCHOR | ROCHOR | |
| 119 | 117 | S | SH | SHOULDER (vertical) | |
| 119 | 118 | SBST | SBST | SINGAPORE BUS SERVICE TRANSIT | |
| 120 | | SCHOOL | SCHOOL | SCHOOL | |
| 121 | | | | | |
| 122 | _ | | | | |
| 123 | | | | | |
| 124 | | | | | |
| 125 | _ | | | | |
| 126 SLOWLY SLOWLY SLOWLY 127 STAND STAND STAND 128 STOP STOP STOP 129 STRIP STRIP STRIPS 130 STRIPS STRIPS STRIPS 131 T1 T1 T1 132 T2 T2 T2 133 TAXI TAXI TAXI 134 TAXIS TAXIS TAXIS 135 TO TO TO 136 TOA TOA TOA 137 TPE TPE TAMPINES EXPRESSWAY 138 TRIANGLE TRIANGLE (GRAPHIC) 139 TUAS TUAS TUAS 140 UNLOADING UNLOADING UNLOADING 141 UP UP UP 142 UPP UPPER UPPER 143 UPPER UPPER UPPER 144 USE UNDERPASS USE UNDERPASS USE UNDER | | | | | |
| 127 STAND STAND STAND 128 STOP STOP STOP 129 STRIP STRIP STRIPS 130 STRIPS STRIPS 131 T1 T1 T1 132 T2 T2 T2 133 TAXI TAXI TAXI 134 TAXIS TAXIS TAXIS 135 TO TO TO 136 TOA TOA TOA 137 TPE TPE TAMPINES EXPRESSWAY 138 TRIANGLE TRIANGLE (GRAPHIC) 139 TUAS TUAS TUAS 140 UNLOADING UNLOADING UNLOADING 141 UP UP UP 142 UPP UPPER UPPER 143 UPPER UPPER UPPER 144 USE UNDERPASS USE UNDERPASS USE UNDERPASS 145 VAN VAN VAN | | | | | |
| 128 STOP STOP STOP 129 STRIP STRIP STRIP 130 STRIPS STRIPS STRIPS 131 T1 T1 T1 132 T2 T2 T2 133 TAXI TAXI TAXI 134 TAXIS TAXIS TAXIS 135 TO TO TO 136 TOA TOA TOA 137 TPE TPE TAMPINES EXPRESSWAY 138 TRIANGLE TRIANGLE (GRAPHIC) 139 TUAS TUAS TUAS 140 UNLOADING UNLOADING UNLOADING 141 UP UP UP 142 UPP UPPER UPPER 143 UPPER UPPER UPPER 144 USE UNDERPASS USE UNDERPASS USE UNDERPASS 145 VAN VAN VAN 146 VISITORS VISITORS <td></td> <td></td> <td></td> <td></td> | | | | | |
| 129 | _ | | | | |
| 130 STRIPS STRIPS 131 T1 T1 T1 132 T2 T2 T2 133 TAXI TAXI TAXI 134 TAXIS TAXIS TAXIS 135 TO TO TO 136 TOA TOA TOA 137 TPE TPE TAMPINES EXPRESSWAY 138 TRIANGLE TRIANGLE (GRAPHIC) 139 TUAS TUAS TUAS 140 UNLOADING UNLOADING UNLOADING 141 UP UP UP 142 UPP UPPER UPPER 143 UPPER UPPER UPPER 144 USE UNDERPASS USE UNDERPASS USE UNDERPASS 145 VAN VAN VAN 146 VISITORS VISITORS | | | | | |
| 131 T1 T1 T1 132 T2 T2 T2 133 TAXI TAXI TAXIS 134 TAXIS TAXIS TAXIS 135 TO TO TO 136 TOA TOA TOA 137 TPE TPE TAMPINES EXPRESSWAY 138 TRIANGLE TRIANGLE (GRAPHIC) 139 TUAS TUAS TUAS 140 UNLOADING UNLOADING UNLOADING 141 UP UP UP 142 UPP UPPER UPPER 143 UPPER UPPER UPPER 144 USE UNDERPASS USE UNDERPASS USE UNDERPASS 145 VAN VAN VAN 146 VISITORS VISITORS VISITORS | | | | | |
| 132 T2 T2 T2 133 TAXI TAXI TAXIS 134 TAXIS TAXIS TAXIS 135 TO TO TO 136 TOA TOA TOA 137 TPE TPE TAMPINES EXPRESSWAY 138 TRIANGLE TRIANGLE (GRAPHIC) 139 TUAS TUAS TUAS 140 UNLOADING UNLOADING UNLOADING 141 UP UP UP 142 UPP UPP UPPER 143 UPPER UPPER UPPER 144 USE UNDERPASS USE UNDERPASS USE UNDERPASS 145 VAN VAN VAN 146 VISITORS VISITORS VISITORS | | | | | |
| 133 TAXI TAXI TAXI 134 TAXIS TAXIS 135 TO TO TO TO 136 TOA TOA TOA 137 TPE TPE TAMPINES EXPRESSWAY 138 TRIANGLE 139 TUAS TUAS TUAS 140 UNLOADING UNLOADING UNLOADING 141 UP UP UP 142 UPP UPP UPP 143 UPPER UPPER 144 USE UNDERPASS USE UNDERPASS 145 VAN VAN VAN 146 VISITORS VISITORS VISITORS | | | | | |
| 134TAXISTAXISTAXIS135TOTOTO136TOATOATOA137TPETPETAMPINES EXPRESSWAY138TRIANGLETRIANGLE (GRAPHIC)139TUASTUASTUAS140UNLOADINGUNLOADINGUNLOADING141UPUPUP142UPPUPPERUPPER143UPPERUPPERUPPER144USE UNDERPASSUSE UNDERPASSUSE UNDERPASS145VANVANVAN146VISITORSVISITORSVISITORS | | | | | |
| 135TOTOTO136TOATOATOA137TPETPETAMPINES EXPRESSWAY138TRIANGLETRIANGLE (GRAPHIC)139TUASTUASTUAS140UNLOADINGUNLOADINGUNLOADING141UPUPUP142UPPUPPERUPPER143UPPERUPPERUPPER144USE UNDERPASSUSE UNDERPASSUSE UNDERPASS145VANVANVAN146VISITORSVISITORSVISITORS | | | | | |
| 136TOATOATOA137TPETPETAMPINES EXPRESSWAY138TRIANGLETRIANGLE (GRAPHIC)139TUASTUASTUAS140UNLOADINGUNLOADINGUNLOADING141UPUPUP142UPPUPPERUPPER143UPPERUPPERUPPER144USE UNDERPASSUSE UNDERPASSUSE UNDERPASS145VANVANVAN146VISITORSVISITORSVISITORS | | | | | |
| 137TPETPETAMPINES EXPRESSWAY138TRIANGLETRIANGLE (GRAPHIC)139TUASTUAS140UNLOADINGUNLOADING141UPUP142UPPUPPER143UPPERUPPER144USE UNDERPASSUSE UNDERPASS145VANVAN146VISITORSVISITORS | | | | | |
| 138TRIANGLETUASTUAS139TUASTUAS140UNLOADINGUNLOADING141UPUP142UPPUPP143UPPERUPPER144USE UNDERPASSUSE UNDERPASS145VANVAN146VISITORSVISITORS | | | | | |
| 139 TUAS TUAS 140 UNLOADING UNLOADING UNLOADING 141 UP UP 142 UPP UPP UPPER 143 UPPER UPPER 144 USE UNDERPASS USE UNDERPASS 145 VAN VAN VAN 146 VISITORS VISITORS | | | TPE | | |
| 140UNLOADINGUNLOADING141UPUP142UPPUPPER143UPPERUPPER144USE UNDERPASSUSE UNDERPASS145VANVAN146VISITORSVISITORS | 138 | TRIANGLE | | TRIANGLE (GRAPHIC) | |
| 141UPUP142UPPUPP143UPPERUPPER144USE UNDERPASSUSE UNDERPASS145VANVAN146VISITORSVISITORS | 139 | TUAS | TUAS | TUAS | |
| 142UPPUPPER143UPPERUPPER144USE UNDERPASSUSE UNDERPASS145VANVAN146VISITORSVISITORS | 140 | UNLOADING | UNLOADING | UNLOADING | |
| 143UPPERUPPER144USE UNDERPASSUSE UNDERPASS145VANVAN146VISITORSVISITORS | 141 | UP | UP | UP | |
| 144USE UNDERPASSUSE UNDERPASS145VANVAN146VISITORSVISITORS VISITORS | 142 | UPP | UPP | UPPER | |
| 145VANVAN146VISITORSVISITORS | 143 | UPPER | UPPER | UPPER | |
| 146 VISITORS VISITORS VISITORS | 144 | USE UNDERPASS | USE UNDERPASS | USE UNDERPASS | |
| | 145 | VAN | VAN | VAN | |
| | 146 | VISITORS | VISITORS | VISITORS | |
| | 147 | WAY | WAY | WAY | |

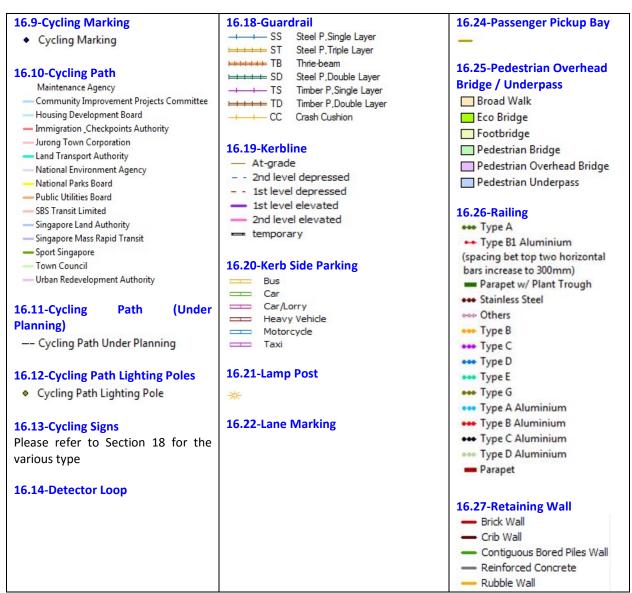
GIS Data Collection Specification

| No | Value | Symbol | Description |
|-----|--------|--------|--------------|
| 148 | WM | WM | WM |
| 149 | X-ING | X-ING | CROSSING |
| 150 | X-INGS | X-INGS | CROSSINGS |
| 151 | YCK | YCK | YIO CHU KANG |



18 **Inventory Items and Symbol Representation**







RIMS Unit GIS Data Collection Specification A -1m,int 1m,0.1m white Detector Loop A1-1m.int 1m.0.1m Yellow Strategic Loop A2 -1m,int 1m,0.2m White 16.28-Road crossing A3 -1m.int 1m.0.3m vellow Signalised crossing Tactical Loop - LEFT A4 - broken white lines at signalised pedestrian crossing A5 - guiding line across a wide/skewed junction Tactical Loop - RIGHT Raised Signalised crossing B - 2m,int 4m,0.1m white ☐ Tactical Loop - REGULAR B1 - 2m,int 10m ,0.1m White IIII C - 4m.int 2m.0.1m white Hump cum Zebra Crossing Bus Detector D - 1m,int 1m,0.1m dbl white E -2.75m,int 2.75m,0.15m white 11 Zebra crossing Red Light Camera F - Centre line.0.15 m white G - Side Line, 0.15 yellow Raised zebra crossing H - continuous Double White Line 16.15-Emergency Gate I - continuous Double Yellow Line J - White Line-Ped Crossing ** K - Zig Zag Line L - Yellow Line - bus lane 16.29-Road Hump M - White Line-stop line Bus Friendly Hump 16.16-Footpath N - Yellow Box Line Bricks O-Single Yellow zig-zag Road Hump - Double Yellow zig-zag -- Concrete Q - Multi-arrow R - Bus Zone -- Granolithic S - continuous red line for full day bus lane 16.30-RTS Line -- Others ----S1 - Dotted red line for full day bus lane Light Rail Transit Line T-Turning Pocket --- Slabbed U - Pedestrian crossing ahead marking Mass Rapid Transit Line □□□□ V-Vibraline Tile A A X - Traffic Calming marking Y - Yellow box for buses exiting C1 - 4m.int 2m,0.2m white 16.17-Gantry W - Waveline for delineation of bend (wall) Directional D1 - 0.5m.int 0.5m,0.1m dbl white - SZ1 - Rumble strip for Silver Zone = Height limit = ERP 16.23-Miscellaneous Point = EMAS Intelligent Road Stud Orange Disc Pavement Marker

