28 September 2017

CIRCULAR TO PROFESSIONAL INSTITUTIONS

Who should know

Building owners, developers, contractors, architects, engineers and transport / traffic consultants

Effective date

2 January 2018

A “TRANSPORT IMPACT ASSESSMENT GUIDELINES FOR DEVELOPMENTS”
– AS A REPLACEMENT OF “GUIDELINES FOR PREPARATION OF TRAFFIC IMPACT ASSESSMENT REPORTS”

1. Please see below information on the new “Transport Impact Assessment Guidelines for Developments” (hereafter referred as “the Guidelines”).

2. The Guidelines will replace the current “Guidelines for Preparation of Traffic Impact Assessment Reports” which was launched in 2011 (and updated in 2016 to introduce Walking and Cycling Plan requirements).

3. The Guidelines provide clarity and assistance on the information and requirements to those preparing a Transport Impact Assessment (TIA) report for submission to the Land Transport Authority (LTA) as part of Development Control (DC) Clearance.

4. It includes a number of amendments to ensure that the Guidelines are up to date and is in line with national efforts towards Walk Cycle Ride Singapore (WCR SG). The amendments also took into account feedback from the industry including Real Estate Developers’ Association of Singapore (REDSAS), Singapore Institute
of Architects (SIA), Institution of Engineers, Singapore (IES) and traffic consultants, etc.

5. The major amendments are summarised in Annex A. The Guidelines will be applied to all TIA studies that have not commenced scoping exercise with LTA on the Guidelines’ effective date (as above) and onwards.


7. Should you have any queries on the Guidelines, please email us at lta-dbe.registry@lta.gov.sg

B REVISIONS TO “STANDARD DETAILS OF ROAD ELEMENTS (SDRE)”

8. Please see below key revisions to the “Standard Details of Road Elements (SDRE)” following changes to the width of footpaths and lanes, and enhancements to certain road elements proposed by relevant agencies.

   a) Increase footpath width from 1.5m to 1.8m;
   b) Reduce lane widths by 0.2m;
   c) New chapter on Cycling; and
   d) Updated technical requirements and referencing of codes to the latest standards.

9. The major amendments are summarised in Annex B.


11. The new version of the SDRE will be soft launched on 29th September 2017 for a period of two months (till 30th November 2017). The finalized version of the SDRE will then be published on 1st December 2017 and will take effect from 2nd January 2018. All proposed street works that has not obtained approval prior to the effective date shall adopt the revised standard.

12. If you have any query pertaining to SDRE, please email ramanathan_s@lta.gov.sg or nadarajah_thurairajasingam@lta.gov.sg
We would appreciate if you could convey the contents of this circular to members of your respective organisations.

Thank you.

Kenneth Wong
Director (Local Planning)
for Group Director Policy & Planning

Enc.
<table>
<thead>
<tr>
<th>Topic</th>
<th>Key Change</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedestrians and Cyclists</td>
<td>• Refinements on the requirements for Walking &amp; Cycling Plan submissions.</td>
<td>Section 3</td>
</tr>
<tr>
<td>Public Transport</td>
<td>• Submission of a new Public Transport Accessibility Level (PTAL) is required to measure the development site’s public transport accessibility and availability.</td>
<td>Section 4</td>
</tr>
<tr>
<td>Road Traffic</td>
<td>• Road / junction priorities for pedestrians, cyclists and buses shall in general be considered and encouraged; • Junction performance criteria is re-defined.</td>
<td>Section 5</td>
</tr>
<tr>
<td>Transport Improvement Measures</td>
<td>• A list of Transport Improvement Measures is provided for the Developer to apply to the proposed development; • The aim is to mitigate development’s negative traffic impact and adopt measures to promote walking, cycling and mass transport use and reduce reliance on cars; • Improvements to road infrastructure will be considered where necessary to ensure a certain level of traffic efficiency.</td>
<td>Section 6</td>
</tr>
<tr>
<td>Other Assessment Issues</td>
<td>• For selected developments, a Post Implementation Review (PIR) is required to assess the transport situation after development opening and/or to evaluate the implementation and effectiveness of the Transport Improvement Measures adopted, and if necessary to explore further measures for improvement.</td>
<td>Section 7</td>
</tr>
<tr>
<td>Conditions when a TIA is required</td>
<td>• For housing, industry and hotel types of developments, the general thresholds based on the scale of development have been increased; • For medical and recreational types of developments, the general thresholds have been re-defined based on the scale of development; • For the rest of development types, the general thresholds remain unchanged.</td>
<td>Annex A</td>
</tr>
</tbody>
</table>
### Key Changes in Revisions to SDRE

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Chapter Name</th>
<th>Brief description of changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 3</td>
<td>Kerbs &amp; Footpaths</td>
<td>- Increase in footpath width from 1.5m to 1.8m.</td>
</tr>
<tr>
<td>Chapter 9</td>
<td>Traffic Management Measures</td>
<td></td>
</tr>
<tr>
<td>Chapter 11</td>
<td>Bus Stops</td>
<td></td>
</tr>
<tr>
<td>Chapter 8</td>
<td>Road Markings &amp; Signs</td>
<td>- Reduction of lane width by 0.2m for arterial roads and expressways.</td>
</tr>
<tr>
<td>Chapter 9</td>
<td>Traffic Management Measures</td>
<td></td>
</tr>
<tr>
<td>Chapter 21</td>
<td>Cycling Path</td>
<td>- New chapter on cycling path with following details are included:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Treatment at Major Junctions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Treatment at Other Junctions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Treatment at Development/ Car Park Access</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Bicycle Crossing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Shared Track</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Treatment at Bus Stop with Bay</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Treatment at Bus Stop without Bay</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Cycling Path – Pavement Marking Details</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Cycling Track Signs &amp; Lighting</td>
</tr>
<tr>
<td>Chapter 1</td>
<td>Public Lighting</td>
<td>- PVC cable warning marker to cover the full width of the UPVC pipes along the side-table and road crossings.</td>
</tr>
<tr>
<td>Chapter 3</td>
<td>Kerbs &amp; Footpath</td>
<td>- Same pavement details to be used for footpath, cycling path &amp; shared path. 50mm thick unwashed sand layer replaced with 50mm thick lean concrete in the new detail.</td>
</tr>
<tr>
<td>Chapter 10</td>
<td>Support for Directional &amp; Information Signs</td>
<td>- Headroom clearance for directional and information signs revised from 2.1m to 2.4m to facilitate cycling.</td>
</tr>
<tr>
<td>Chapter 12</td>
<td>Planting Requirement</td>
<td>- To revise the term ‘loamy soil’ to ‘Approved Soil Mix (ASM)’ for the planting verge. ASM is in compliance to NParks’ requirements as stated in their Handbook dated 2011.</td>
</tr>
</tbody>
</table>
DISTRIBUTION LIST

President
Singapore Institute of Architects
79/79A/79B Neil Road
Singapore 088904

President
Association of Consulting Engineers Singapore
18 Sin Ming Lane, #06-01 Midview City
Singapore 573960

President
Singapore Contractors Association Ltd
1 Bukit Merah Lane 2, Construction House, Singapore 159760

President
Institution of Engineers, Singapore
70 Bukit Tinggi Road
Singapore 289758

President
Singapore Real Estate Developers Association
190 Clemenceau Avenue, #07-01 Singapore Shopping Centre
Singapore 239924

President
Board of Architects, Singapore
5 Maxwell Road 1st Storey, Tower Block, MND Complex
Singapore 069110

President
Professional Engineers Board, Singapore,
52 Jurong Gateway Road, #07-03
Singapore 608550

Group Director
Development Control, Urban Redevelopment Authority
45 Maxwell Road, The URA Centre
Singapore 069118
Director
Development & Procurement Department, Housing and Development Board
HDB Hub, 480 Lorong 6 Toa Payoh
Singapore 310480

Group Director
Building Plan & Management Division, Building and Construction Authority
52 Jurong Gateway Road, #06-01
Singapore 608550

Director
Land and Planning Group, JTC Corporation
8 Jurong Town Hall Road, The JTC Summit
Singapore 609431

Director
Planning & Design Development Division, National Parks Board
Singapore Botanic Gardens, 1 Cluny Road
Singapore 259569

Head
Building Plan Unit (BPU), Public Utilities Board &

Director
Catchment & Waterways, Public Utilities Board
Environment Building, 40 Scotts Road #09-01
Singapore 228231