

Our Ref: LTA/DBC/D66.058.001

Date: 23 September 2022

## **CIRCULAR TO PROFESSIONAL INSTITUTIONS**

### **Who should know**

Developers, Architects, Engineers, Registered Surveyors and Contractors/Builders

Dear Sir/Madam

## **SUBMISSION OF CERTIFIED SURVEY PLANS TO CARRY OUT ENGINEERING WORKS WITHIN RAILWAY PROTECTION ZONE AND RAILWAY CORRIDOR**

- 1 The purpose of this circular is to remind the industry that you are required to apply for and obtain the permit to commence engineering work under Regulation 10 of the Rapid Transit Systems (Development and Building Works in Railway Corridor and Railway Protection Zone) Regulations 2021. The proposal shall include certified survey plans showing the location of the underground rapid transit system (RTS) structures on plan and elevations for critical development within the railway protection zone and railway corridor. This is to ensure the proposed works are carried out in a safe manner such that it will not endanger or affect the structural integrity of the RTS structures and the safety of its operation.

### **For Registered Land Surveyor**

- 2 Survey of underground RTS structures such as stations and tunnels, etc. shall be carried out by a Registered Surveyor:
  - a) To establish the exact alignment and profile of the tunnels for installing equipment in tunnels on site. The information from this survey shall be used to determine the clearances of the equipment to be installed from the structure gauge.
  - b) To establish the horizontal and vertical clearances from the proposed tunnels, pile foundations, basement construction, soil investigation boreholes, installation of ERSS, soil anchors and soil nails, ground monitoring instruments such as inclinometers, piezometers, water standpipes, rod extensometers, etc. The necessary data (such as ground levels and pile toes reduced levels and pile length, etc.) shall be compiled in excel format to facilitate the review.

The certified survey plans and any subsequent amendments shall be certified by the Registered Surveyor. Please refer to Annex A for more information on the validity periods of surveys carried out and submission requirements.

For Qualified Person

- 3 Please be reminded that under Sections 25 and 26 of the Rapid Transit Systems Act:
  - a) Any person who wilfully does or omits to do anything in relation to any railway as a result of which the safety of any person travelling or being upon the railway is endangered, or is likely to be so endangered, shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000 or to imprisonment for a term not exceeding 5 years or to both.
  - b) Any person who wilfully removes, destroys, or damages any railway or railway premises or any part thereof shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$200,000 or to imprisonment for a term not exceeding 12 months or to both.
- 4 We would appreciate it if you could convey the contents of this circular to members of your organization. The revised form and new checklists mentioned in Annex A are available on LTA's corporate website under [Industry & Innovations > Industry Matters > Development & Construction Resources > Building Works & Restricted Activities in Railway Protection Zone > Codes of Practice, Standards, Specifications, Guides & Forms](#).
- 5 If you have any feedback or enquiries concerning this circular, please email to [lta-dbc\\_registry@lta.gov.sg](mailto:lta-dbc_registry@lta.gov.sg).

Thank you.

Yours sincerely

Quek Teck Beng  
Deputy Director  
Infrastructure Protection Division  
Development & Building Control

## ANNEX A

### **Validity Periods**

- 1) The validity periods of survey carried out by the Registered Surveyor are:
  - a) 12 months from the date of the tunnel geometric survey (for submission of proposed reserve lines for new project/development).
  - b) 6 months from the date of the topographical survey.
  
- 2) Once the period of validity of the topographical survey carried out had expired, the Registered Surveyor shall resurvey, revise, and update the survey plans. The Qualified Person shall submit the certified survey plans showing the updated survey information. Exemption may be considered on a case-by-case basis.

### **Submission Requirements**

- 3) Submission for critical development within the railway protection zone of underground rapid transit system (RTS) structures shall consist of:
  - a) Geometric survey of the RTS structures (for approval of reserve lines)
    - FORM LTA DBC RAIL\_S4A
    - Certified Survey Plans in DWG/DGN format
    - Certified Survey Plans in PDF format (Endorsement by Registered Surveyor)
    - Data Tabulation in Excel format
  
  - b) Piling and drilling works stated in Paragraph 2(b) within the 1<sup>st</sup> reserve
    - FORM LTA DBC RAIL\_S4A
    - Certified Survey Plans in DWG/DGN format
    - Certified Survey Plans in PDF format (Endorsement by Registered Surveyor)
    - Data Tabulation in Excel format
  
  - c) Installation of equipment in Rapid Transit System tunnel, noise barrier at elevated viaduct or temporary protection structure on trackway, etc.
    - FORM LTA DBC RAIL\_S4B
    - Certified Survey Plans in DWG/DGN format
    - Certified Survey Plans in PDF format (Endorsement by Registered Surveyor)
    - Equipment or structure details in PDF format (Endorsement by Professional Engineer)
    - Data Tabulation in Excel format
  
  - d) Piling and drilling works stated in Paragraph 2(b) outside the 1<sup>st</sup> reserve but within the railway protection zone and railway corridor
    - Certified Survey Plans in PDF format (Endorsement by Registered Surveyor)

- 4) Prior to commencement of works, a copy of duly completed form “FORM LTA DBC RAIL\_S3” endorsed by Qualified Person and Registered Surveyor shall be submitted upon completion of the setting out of works within the railway protection zone and railway corridor.

**Distribution List (via e-mail):**

President Singapore Institute of Architects	info@sia.org.sg
Chairman Singapore Institute of Surveyors and Valuers	sisv.info@sisv.org.sg
President Association of Consulting Engineers Singapore	secretariat@aces.org.sg
President Singapore Contractors Association Ltd	enquiry@scal.com.sg
President Institution of Engineers, Singapore	ies@iesnet.org.sg
President Real Estate Developers' Association of Singapore	redas_secretariat@redas.com
President Board of Architects, Singapore	boarch@singnet.com.sg
Registrar Professional Engineers Board, Singapore	registrar@peb.gov.sg
Group Director, Development Control Urban Redevelopment Authority	goh_chin_chin@ura.gov.sg
Group Director, Development Services Urban Redevelopment Authority	ler_seng_ann@ura.gov.sg
Group Director, Physical Planning Urban Redevelopment Authority	yvonne_lim@ura.gov.sg
Group Director, Building Quality Group Housing & Development Board	neo_poh_kok@hdb.gov.sg
Director, Infrastructure Engineering Housing & Development Board	lionel_lj_ang@hdb.gov.sg
Group Director, Building Plan & Management Group Building and Construction Agency	clement_tseng@bca.gov.sg

Director, Land Planning Division JTC Corporation	tang_hsiao_ling@jtc.gov.sg
Ag Director, Infrastructure Projects Division JTC Corporation	brian_koh@jtc.gov.sg
Director, Catchment & Waterways Department PUB, Singapore's National Water Agency	yeo_keng_soon@pub.gov.sg
Director, Division of Public Cleanliness National Environment Agency	tai_ji_choong@nea.gov.sg

All CORENET e-Info subscribers