

## 10.0 DIKE

### 10.1 GENERAL

In addition to the requirements specified in this section, all dike designs must be in accordance with DK-01, the City of Richmond's Typical Dike Design Standards (the "Standards", available upon request). Where there is a conflict between the information contained in this section and the Standards, the requirements specified in the Standards shall take precedence.

The City's Dike Master Plan (DMP) serves as a guiding document for dike upgrades in Richmond. All five phases of the DMP are available for review on the City's website: <https://www.richmond.ca/services/water-sewer-flood/dikes/dikemasterplan.htm>

### 10.2 DRAFTING REQUIREMENTS

Please comply with requirements as set out in Section 1.5.

#### Exceptions

- Size: A2 (420 x 594mm)

#### Other Requirements

- Both the 'Construction Elevation' and 'Post Settlement Elevation' of the dike shall be shown on all drawings.
- A table showing the chainage, crest height, and crest width shall be shown for each dike section as follows:

Sample Table – Dike Crest Height and Width By Section

Chainage	Crest Height (m)	Crest Width (m)
STA. 0+000 to 0+280	5.1	5.5
STA. 0+280 to 0+400	5.1	5.5
STA. 0+400 to 0+650	5.1	4.4

### 10.3 MINIMUM SURVEY REQUIREMENTS

Please comply with requirements as set out in Section 2.0, where applicable.

#### Other Requirements

- All elevations shown on drawings shall be derived from a City of Richmond approved benchmark. Refer to the City of Richmond website for the Benchmark locations map: [https://www.richmond.ca/\\_shared/assets/BenchmarkMap21730.pdf](https://www.richmond.ca/_shared/assets/BenchmarkMap21730.pdf)

- Drawing notes shall include which monument(s) elevations are derived from and shall specify which vertical datum was used (currently CVD28GVRD2018)
- If GNSS observations are used to derive elevations, the BCACS station used for corrections shall be specified. Refer to the Government of British Columbia website for more information: <https://www2.gov.bc.ca/gov/content/data/geographic-data-services/geo-spatial-referencing/bcacs/active-control-points/metro-vancouver>
- As-constructed surveys shall capture dike crest height and dike crest width for each section of the constructed dike