



Subdivision, Development and Servicing (Bylaw 7900)

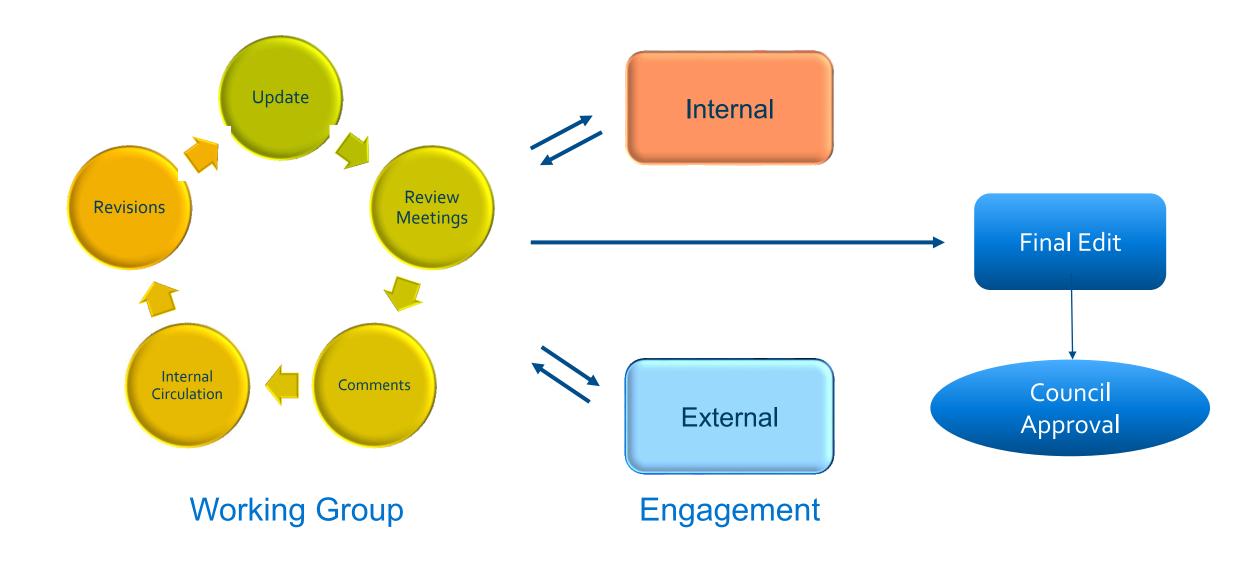
- ► Sets out subdivision application procedures
- ► Provides Design and Construction Standards for works and services
 - ► Schedule 4 Design Standards
 - ► Schedule 5 Construction Standards
- ► Approved Products List (Policy 266)



Objectives

- ▶ Update Design and Construction Standards in Bylaw 7900
 - ► Format to Municipal Infrastructure Design Guidelines (MMCD, 2014)
- ► Ensure quality and long-lasting infrastructure
- "Living Document"
- **▶**Complements:
 - ▶ MMCD Specifications and Standard Detailed Drawings.
 - ► City Schedule 5 Supplementary Specifications and Supplementary Standard Detailed Drawings.
 - ▶ City Policy 265 (Engineering Drawing Submission Requirements).

Bylaw 7900 Review Workflow





Design and Construction Standards

- **▶**Water
- ► Sanitary Sewer
- ▶ Drainage
- ▶ Transportation
- ► Electrical, Street Lighting & Signals
- ► Landscaping & Irrigation
- ► Hillside Development Standards



Design and Construction Standards

- **►**Water
- ► Sanitary Sewer
- Drainage Stormwater Management
- ▶ Transportation
- ► Electrical, Street Lighting & Signals
- ► Landscaping & Irrigation
- ► Hillside Development Standards



- ► Protect Okanagan Lake
- ► Improve Water Quality
- ► Address Climate Change
- ► Hillside Issues





Protect Okanagan Lake

- ▶ Route minor systems to natural watercourses
- ► Eliminate permanent groundwater pumping into the City storm sewer.
 - ▶ Reduce capacity issues near outlets to lake
 - ▶ Eliminate reliance on deeper water table
 - ▶ Improve groundwater quality into Okanagan Lake.
- ►Improve water quality
- ► Address Climate Change
- ► Hillside and Hazardous Slope Issues





- ► Protect Okanagan Lake
- ► Improve water quality
 - ► Emphasis on water quality to Okanagan Lake.
 - Must meet Provincial (MOE) Recreational Water Quality Guidelines.
 - ► Control manholes added
 - Expanded Erosion & Sediment Control process
- ► Address Climate Change
- ► Hillside and Hazardous Slope Issues





- ► Protect Okanagan Lake
- ► Improve water quality
- ► Address Climate Change
 - Consultant to consider climate change in calculations
 - ► Flow conditions/debris flow
 - ► Minimum 15% capacity increase
 - ► Response required.
- ► Hillside and Hazardous Slope Issues





- ► Protect Okanagan Lake
- ► Improve water quality
- ► Address climate change
- ► Hillside Issues
 - ► Focus on safe conveyance of stormwater to natural watercourse
 - Roof/site drainage direct to Storm
 - No infiltration to ground (except foundation)





Focus in 2019

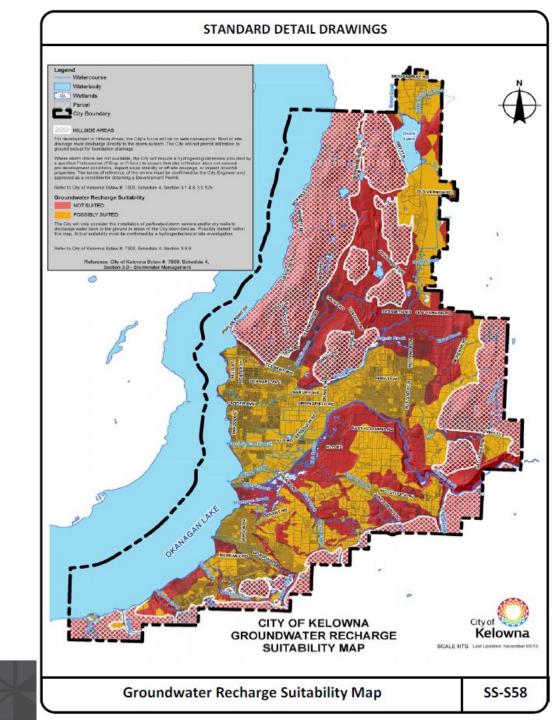
- Fire Flows (Section 1.5)
 - ► Development Permit Stage
 - ▶ No change Use table.
 - ►Building Permit Stage
 - Section 3.2.5.7 of the BC Building Code.
 - ► Automated sprinkler systems to NFPA 13
 - ► Confirmation required.
 - ► Calculated fire flow must not exceed the minimum requirements for that zoning



Drawing Updates

New

► Map identifying where Infiltration to Ground is suitable.

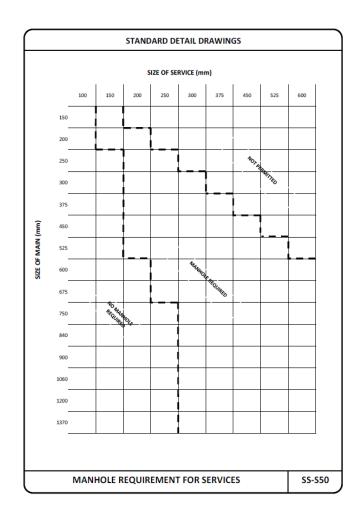


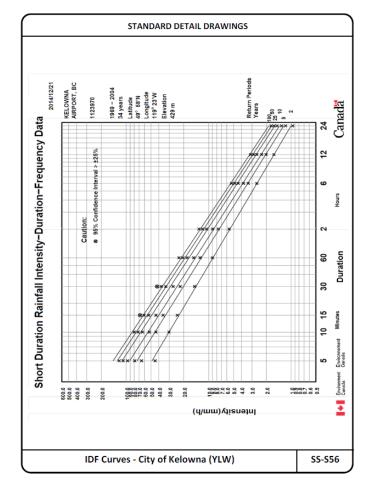


Drawing Updates

<u>Updated</u>

- ► Service/Manholes Sizing
- ► IDF Curve







Policy Update



City of Kelowna 1435 Water Street Kelowna, BC V1Y 1J4 250 469-8500 kelowna.ca POLICY 265

Council Policy

Engineering Drawing Submission Requirements

Approved June 4, 2001

Contact Department: Utility Planning

Guiding Principle

To define standards for drawing submissions to the City.

Purpose

 The purpose of this policy is to outline the minimum standards and requirements the City will accept in the submissions of work(s) and services.

Statement

 These procedures support submissions consistent with Bylaw 7900 - Subdivision, Development & Servicing. The City Engineer or designate will review each submission for conformance.

