SCHEDULE 1

OF BYLAW 7900

CITY OF KELOWNA

WORKS & SERVICES REQUIREMENTS

BL8382, BL8398, BL8572, BL8712, 8762, 8847, 8981,12356 and 12555 all replaced Schedule 1 in its entirety
BL12624 & BL12818 amended Schedule 1

WORKS & SERVICES REQUIREMENTS

Key Sheet

Abbreviation	Requirement
WTR	Community water system. In subdivisions which are to be provided with a community water system, each Parcel within the proposed subdivision, or Parcel being Developed, must be supplied by a water distribution system, including service connections, and with adequate fire flow and protection, which is designed in accordance with the standards prescribed in the Design Standards Water Section.
WELL	Where a community water system is not available a proven water supply located on each parcel is permitted.
SWR	Community sanitary sewer system.
SWRSEP	Sanitary sewer collection and disposal or Sanitary sewage effluent ground disposal in accordance with Part 2, Section 5.2 (o)(viii) of this bylaw.
DITCH	Drainage collection and disposal system by open ditches and culverts.
STM	Closed drainage collection and disposal system (i.e., a system other than open ditches).
SL	Street lighting throughout the subdivision.
SLI	Street lighting at street intersections only.
OH	Overhead electrical and communication wiring.
UG	Underground electrical and communication wiring and underground or pad-mounted servicing facilities.
W	Communication and electrical wiring to conform to the highest standard of existing adjacent facilities

Table 1: Utility Requirements

	Utilities (Refer to Key Sheet above)				
Zone[1]	Water	Sewer	Drain	Wiring	Lighting
A1	WELL	SWRSEP	DITCH	OH	SLI
A2	WELL	SWRSEP	DITCH	OH	SLI
RR1	WTR	SWRSEP	DITCH	OH	SLI
RR2	WTR	SWR	DITCH	OH	SLI
RU1	WTR	SWR	STM	UG	SL
RU2	WTR	SWR	STM	UG	SL
RU3	WTR	SWR	STM	UG	SL
RU4	WTR	SWR	STM	UG	SL
RU5	WTR	SWR	STM	UG	SL
MF1	WTR	SWR	STM	UG	SL
MF2	WTR	SWR	STM	UG	SL
MF3	WTR	SWR	STM	UG	SL
MH1	WTR	SWR	STM	UG	SL
HD1	WTR	SWR	STM	UG	SL
HD2	WTR	SWR	STM	UG	SL

	Utilities (Refer to Key Sheet above)				
Zone[1]	Water	Sewer	Drain	Wiring	Lighting
C1	WTR	SWR	STM	UG	SL
C2	WTR	SWR	STM	UG	SL
VC1	WTR	SWR	STM	UG	SL
UC1-5	WTR	SWR	STM	UG	SL
CA1	WTR	SWR	STM	UG	SL
I1	WTR	SWR	STM	UG	SL
I2	WTR	SWR	STM	UG	SL
I3	WTR	SWRSEP	DITCH	OH	SLI
I4	WELL	SWRSEP	DITCH	OH	SLI
P1	WTR	SWR	STM	UG	SL
P2	WTR	SWR	STM	UG	SL
P3	WELL	SWRSEP	STM	W	SLI
P4	WELL	SWRSEP	STM	W	SL
W1	N/A	N/A	N/A	N/A	N/A
W2	AS REQUIRED BASED ON DEVELOPMENT PROPOSAL				
CD[(3)]	WTR	SWR	STM	UG	SL
CD12	WTR	SWR	STM	UG	SL

Notes:

1. Comprehensive Development Zones listed in Section 17 of the Zoning Bylaw, except the CD12 – Airport zone.
2. The zones identified in this table are the zones designated in the Zoning Bylaw. Properties with an 's'. 'b'. 'h', 'lp' or 'rls' as part of the zoning designation shall comply with the works and services requirements of the parent zone (e.g. RU1s shall comply with the requirements of the RU1 zone.)

WORKS & SERVICES REQUIREMENTS

Road Requirements

Road requirements (refer to Standard Drawings) are determined using **Table 2** below and **Section 4.2 – Road Classifications**:

1. Roadway classifications identified within the ***Map 13.1 - Functional Road Classification*** of the ***City's Official Community Plan*** (OCP).
2. OCP Functional Road Classification Overlays:
   - ***Map 13.2 – Transit Overlay***;
   - ***Map 13.3 – Biking Overlay***;
   - ***Map 13.4 – Truck Route Overlay***; and
   - ***Map 13.5 – DCC Project Overlay***.
3. Consideration of the local context; the local context may include considerations such as, but not limited to:
   - Fixed elements unlikely to change over time, like topography, water bodies, environmentally sensitive areas, agricultural land reserves, First Nations reserves, etc.
   - Atypical frontages, for example schools, recreational facilities, parks, industrial loading areas, etc.
4. This Bylaw prescribes infrastructure design and practices. Council recognizes that each situation is unique, and solutions may need to be tailored to the existing conditions. As such, discretion is afforded the City Engineer to ensure the optimal technical solutions are implemented and adapt the prescribed practices herein to suit the individual project/site requirements.

Table 2: Road Requirements (Refer to Standard Drawings)

Roadway Classification OCP Map 3.1		OCP Map 13.3 – Biking Overlay			Notes:
		Not on Biking Overlay	On Secondary Biking	On Primary Biking Route	
Laneway	Hillside	XS-R01		Consult with City Engineer	
	Suburban	XS-R02			
	Core Area	XS-R02			
	Urban Centre	XS-R02			
Local	Rural	XS-R20		Consult with City Engineer	
	Hillside	XS-R21			Village Local-Residential, development fronts at least one side
	Hillside	XS-R22			Condition A, development fronts both sides
	Hillside	XS-R23			Condition B, development fronts one side only
	Hillside	XS-R24			Condition C, no development fronts street
	Suburban	XS-R25			
	Industrial	XS-R26			
	Core Area	XS-R27			
	Urban Centre	XS-R28			
Collector	Rural	XS-R40		Consult with City Engineer	
	Hillside	XS-R41	Consult with City Engineer		Village Collector Condition A, where commercial development fronts street
	Hillside	XS-R42			Village Collector Condition B, where no commercial development fronts street
	Hillside	XS-R43			Collector Condition A, development fronts both sides
	Hillside	XS-R44			Collector Condition B, development fronts one side only
	Hillside	XS-R45			Collector Condition C, no development fronts street
	Hillside	XS-R46			Minor Collector Condition A, development fronts both sides or, development fronts one side only
	Hillside	XS-R47			Minor Collector Condition B, no development fronts street
	Suburban	XS-R48	XS-R49		
	Industrial	XS-R50	Consult with City Engineer		
	Core Area	XS-R51	XS-R52		
	Urban Centre	XS-R53	XS-R54		
Minor Arterial	Rural	XS-R60		XS-R61	
	Hillside	XS-R62	Consult with City Engineer	Consult with City Engineer	Arterial Condition A, within village centre where environmental conditions permit
	Hillside	XS-R63			Arterial Condition B, within 10-minute walking distance of village centre; or, within village centre where environmental conditions do not permit the use of Condition A
	Hillside	XS-R64			Arterial Condition C, greater than a 10-minute walking distance from village centre.
	Suburban	XS-R65			
	Core Area	XS-R66			
	Urban Centre	XS-R67			
Major Arterial	Rural				
	3-lane	XS-R80		XS-R81	
	5-lane	XS-R82		XS-R83	
	Suburban			Consult with City Engineer	
	3-lane	XS-R84			
	5-lane	XS-R85			
	Core Area				
	3-lane	XS-R86			
	5-lane	XS-R87			
	Urban Centre				
	3-lane	XS-R88			
	5-lane	XS-R89			

BL12624 & BL12818 amended Table 2 Notes:

Notes:

1. Active Transportation Corridors not located with road right-of-way's such as but not limited to the Okanagan Rail Trail and Mission Creek Greenway, are transportation corridors requiring frontage improvements.
2. Pedestrian facilities are required on any road fronting a school or major recreational facilityin rural land use areas.
3. Where a fronting ROW is of insufficient width to achieve the road requirements, dedication of additional ROW along the frontage of a Parcel may be required without compensation to a depth that is the lesser of 10 m and the difference between the current width and 20 m.
4. Where road requirements include sustainable design features or elements to support walking, bicycling, public transit, or other alternative forms of transportation, up to 5 m of ROW, in addition to that required under Note 3, may be required to be dedicated along the frontage of a Parcel without compensation to facilitate construction and installation of such works.
5. Where OCP Map 13.2, 13.3, 13.4, or 13.5 overlays are present, consult with City Engineer for modifications to typical road cross-sections and right-of-way widths to meet Schedule 4 design requirements.

Linear Park Trails Requirements

Linear Park requirements (refer to Standard Drawings) are determined using **Table 3: Trail Requirements,** ***Map 10.1 - Linear Corridors*** of the ***City's Official Community Plan*** (OCP).

Table 3: Trail Requirements (Refer to Standard Drawings)

CLASS		DIMENSIONS			LONGITUDINAL SLOPE		CROSS SLOPE	MATERIALS				
Trail Class	Trail Type	(W) Width	(C) Clear Zone	(H) Min. Vertical Clearance	(S) Typical Slope	(S) Slope for Short Sections (max. 10m)	Cross Slope	Surface Type	(M1) Type Depth	(M2) Granular Base	(M3) Sub-Base	(M4) Compacted Sub-Grade
1	Major Urban Promenade	4.5m or greater	0.5 m	3.0 m	5% max. (1:20)	8% max. (1:12)	2% min.	Asphalt	50 mm	100 mm	200 mm	95% MPD
								Concrete or Brick	100 mm or 75 mm	100 mm	N/A	95% MPD
2	Major Multi-Use (Urban)	4.5 - 3.0 m	0.5 m	3.0 m	8% max. (1:12)	12% max. (1:8)	2% min.	Asphalt	50 mm	100 mm	200 mm	95% MPD
								Concrete or Brick	60 mm	100 mm	N/A	95% MPD
3	Major Multi-Use (Rural)	4.5 - 3.0 m	0.5 m	2.5 m	8% max. (1:12)	12% max. (1:8)	2% min.	Asphalt	50 mm	75 mm	150 mm	95% MPD
								Concrete or Brick	60 mm	100 mm	N/A	95% MPD
4	Standard Multi-Use	3.0 - 2.0 m	0.5 m	3.0 - 2.5 m	8% max. (1:12)	15% max. (1:7)	2% min.	Asphalt millings	60 mm	75 mm	150 mm	95% MPD
								Aggregate	50 mm	100 mm	N/A	95% MPD
5	Narrow Multi-Use	1.5 - 1.2 m	0.5 m	2.5 m	8% max. (1:12)	15% max. (1:7)	2% min.	Asphalt millings	60 mm	75 mm	150 mm	95% MPD
								Aggregate	50 mm	100 mm	N/A	95% MPD
6	Nature Trails	1.2 - 0.6 m	0.5 m	2.5 m	20% (1:5) max. hiking & walking	Over 20% use steps, etc.	2% min.	Natural ground	N/A	N/A	N/A	95% MPD
					15% (1:7) max. mountain biking	15%		Aggregate if needed	50 mm	100 mm	N/A	95% MPD