

**CITY OF KELOWNA STANDARD DRAWINGS
INDEX AND CROSS-REFERENCE TO MMCD**

MMCD Standard Drawings		City of Kelowna Standard Drawings		
Dwg.	Title	Comment	Dwg.	Title
	GENERAL DETAILS			
G1	General Legend for Contract Drawings	Deleted		<i>(Per City A-size Drawing Block)</i>
G2	Legend for Materials	MMCD	G2	Legend for Materials
G3	Legend for Street Light and Traffic Signal Drawings	Deleted		<i>(Future Amendment - Refer to Utility)</i>
G4	Utility Trench	Replaced	SS-G4	Utility Trench
G5	Pavement Restoration	Replaced	SS-G5	Pavement Restoration
G6	Concrete Encasement for Water Main/Sewer Separation	MMCD	G6	Concrete Encasement for Water Main/Sewer Separation
G7	Concrete Protection for Underground Utilities	MMCD	G7	Concrete Protection for Underground Utilities
G8	Pipe Anchor Blocks	MMCD	G8	Pipe Anchor Blocks
	STORM AND SANITARY SEWERS			
S1	Standard and Sump Manholes	Replaced	SS-S1a SS-S1b	Manholes Manhole Frame and Cover
S2	Standard Manhole Connection Details	Replaced	SS-S1a	Manholes
S3	Manhole Connection Details - Drop and Ramp Type	MMCD	S3	Manhole Connection Details - Drop and Ramp Type
S4	Inside Drop Manhole	MMCD	S4	Inside Drop Manhole
S5	Precast Riser Manhole	MMCD	S5	Precast Riser Manhole
S6	Sewer Clean-Out	Replaced	SS-S6	Clean-Out Detail (Temporary)
S7	Sanitary Sewer Service Connection	Replaced	SS-S7	Sanitary Sewer Service Connection
S8	Storm Sewer Service Connection	MMCD	S8	Storm Sewer Service Connection
S9	Inspection Chamber for 100 to 200 Sanitary Sewer Connection	Replaced	SS-S9	Inspection Chamber for 100 to 200 Sanitary Sewer Connection
S10	Inspection Chamber for 250 to 375 Storm Sewer Connection	MMCD	S10	Inspection Chamber for 250 to 375 Storm Sewer Connection

MMCD Standard Drawings		City of Kelowna Standard Drawings		
Dwg.	Title	Comment	Dwg.	Title
S11	Top Inlet Catch Basin	Replaced	SS-S11a SS-S11b SS-S11c	Catch Basin 900 mm diameter Catch Basin Castings Combined Side and Gutter Inlet Catch Basin - Top Slabs
S12	Lawn Drains	MMCD	S12	Lawn Drains
S13	Storm Sewer Inlet with Safety Grillage	MMCD	S13	Storm Sewer Inlet with Safety Grillage
S14	Concrete Block Endwall	MMCD	S14	Concrete Block Endwall
S15	Driveway Culvert with Concrete Block Endwalls	MMCD	S15	Driveway Culvert with Concrete Block Endwalls
		Added	SS-S50	Manhole Requirement for Services
		Added	SS-S51	Drainage Drywell
		Added	SS-S52	Drainage Drywell Installation
		Added	SS-S53	Pipe Perforation and Bedding Detail for Ground Water Recharge
		Added	SS-S54	Catch Basin Trapping Hood
		Added	SS-S55	Flow Control Chamber (with sediment grease trap)
		Added	SS-S56	IDF Curves
		Added	SS-S57	Riprap Design Chart
	WATERWORKS			
W1	Typical Thrust Block Arrangements	MMCD	W1	Typical Thrust Block Arrangements
W2a	Water Service Connection	Replaced	SS-W2	Water Service Connection
W2b	Water Service Connection	Replaced	SS-W2	Water Service Connection
W2c	Meter Installation for 19mm & 25mm Service Connections	Deleted		
W2d	Meter Installation for 38mm & 50mm Service Connections	Deleted		
W3	Gate Valve Installation	MMCD	W3	Gate Valve Installation
W4	Fire Hydrant Installation	Replaced	SS-W4	Hydrant
W5	Test Point Installation	MMCD	W5	Test Point Installation
W6	Air Valve Assemblies - 25 and 50 mm Valves	Replaced	SS-W6	Air Valve Assembly
W7	Air Valve Assembly - 100 mm Valve	Delete		
W8	Blow-Off for Water Main	Replaced	SS-W8a SS-W8b	Blow-Off (for mains 100mm & smaller) 100mm Blow-Off (for mains 150mm & larger)
W9	Blow - Down Chamber	MMCD	W9	Blow - Down Chamber
W10	Waterworks Chamber Drain	MMCD	W10	Waterworks Chamber Drain
		Added	SS-W50	Irrigation Service
		Added	SS-W51	U-Bend Detail (Pipe Crossing Conflict)

MMCD Standard Drawings		City of Kelowna Standard Drawings		
Dwg.	Title	Comment	Dwg.	Title
	CONCRETE AND MISCELLANEOUS DETAILS			
C1	Concrete Sidewalk, Infill and Barrier Curb	MMCD	C1	Concrete Sidewalk, Infill and Barrier Curb
C2	Concrete Sidewalk and Barrier Curb	MMCD	C2	Concrete Sidewalk and Barrier Curb
C3	Concrete Sidewalk and Roll-Over Curb	MMCD	C3	Concrete Sidewalk and Roll-Over Curb
C4	Concrete Curbs - Narrow Base	MMCD	C4	Concrete Curbs - Narrow Base
C5	Concrete Curbs - Wide Base	MMCD	C5	Concrete Curbs - Wide Base
C6	Concrete Median Curb and Interim Curbs	Replaced	SS-C6	Concrete Median Curb and Interim Curbs
C7	Driveway Crossing for Barrier Curbs	Replaced	SS-C7	Driveway Crossing for Barrier Curbs
C8	Wheelchair Ramp for Sidewalk, Infill and Barrier Curbs	MMCD	C8	Wheelchair Ramp for Sidewalk, Infill and Barrier Curbs
C9	Wheelchair Ramp for Sidewalk and Barrier Curbs	MMCD	C9	Wheelchair Ramp for Sidewalk and Barrier Curbs
C10	Concrete Walkway	Replaced	SS-R28	Walkway Gate
C11	Bicycle Baffle	Replaced	SS-R28	Walkway Gate
C12	Removable Restriction Post	Replaced	SS-R28	Walkway Gate
C13	Chain Link Fence for Walkway	MMCD	C13	Chain Link Fence for Walkway
C14	Handrail on Concrete Retaining Wall	MMCD	C14	Handrail on Concrete Retaining Wall
			SS-C50	Concrete Island Ramp
	ROAD WORKS			
R1	Paved Shoulders	MMCD	R1	Paved Shoulders
		Added	SS-R2	Lanes and Emergency and Private Access Roads
		Added	SS-R3	Local - Class 1 (18 m)
		Added	SS-R4	Local - Class 2 (15 m)
		Added	SS-R5	Collector - Class 1 (20 m)
		Added	SS-R6	Collector - Class 1 with Bike Lanes (22 m)
		Added	SS-R7	Collector - Class 2 (18 m)

MMCD Standard Drawings		City of Kelowna Standard Drawings		
Dwg.	Title	Comment	Dwg.	Title
	<u>ROAD WORKS</u> (Cont'd)			
		Added	SS-R8	Arterial - Class 1 Parkway, 4(6) Lanes (35 m)
		Added	SS-R9	Arterial - Class 1 Parkway, 2(4) Lanes (30 m)
		Added	SS-R10	Arterial - Class 1 Rural, 2(4) Lanes (30 m)
		Added	SS-R11	Arterial - Class 2 Residential, 4 Lanes (30 m)
		Added	SS-R12	Arterial - Class 2 Residential, One Way - 3 lanes (20 m)
		Added	SS-R13	Arterial - Class 2 Rural, 2 lane (20 m)
		Added	SS-R14	Arterial - Class 3 Town Centre 4 Lane (28 m)
		Added	SS-R15	Arterial - Class 3 Town Centre, One Way - 3 lanes (25 m)
		Added	SS-R16	Arterial - Class 3 - 2 lane (28 m)
		Added	SS-R17	Local Residential Cul-de-sac (15 m)
		Added	SS-R20	Left Turn Lane (Raised Median)
		Added	SS-R21	Left Turn Lane (Painted) and Two-Way Left Turn Lane
		Added	SS-R22	Curbed Driveway Widths
		Added	SS-R23	Concrete Drainage Swale Across Asphalt
		Added	SS-R24	Density Payment Adjustment Chart
		Added	SS-R25	Noise Mitigation Criteria
		Added	SS-R26	Hydrants and Poles Near Ditches
		Added	SS-R27	Street Name and Stop Sign Standard
		Added	SS-R28	Walkway Gate
		Added	SS-H1	Arterial Condition -A (Village Parkway)
		Added	SS-H2	Arterial Condition B (With 0.8 km Walking Distance of Village)
		Added	SS-H3	Arterial Condition C (Greater than 0.8 km Walking Distance of Village)
		Added	SS-H4	Village Collector Condition A (Retail/M.F. Fronting)
		Added	SS-H5	Village Collector Condition B (No Retail Fronting)
		Added	SS-H6	Collection Condition A (Development Both Sides)
		Added	SS-H7	Collector Condition B (Development One Side)
		Added	SS-H8	Collector Condition C - (No Development Either Side)

MMCD Standard Drawings		City of Kelowna Standard Drawings		
Dwg.	Title	Comment	Dwg.	Title
	ROAD WORKS (Cont'd)			
		Added	SS-H9	Minor Collector Condition A
		Added	SS-H10	Minor Collector Condition B
		Added	SS-H11	Village Local - Residential
		Added	SS-H12	Local Condition A (Development Both Sides)
		Added	SS-H13	Local Condition B (Development One Side)
		Added	SS-H14	Local Condition C (No Development Either Side)
		Added	SS-H15	Public Lane
	ELECTRICAL AND TRAFFIC SIGNAL DETAILS			<i>(Future Amendment - Refer to Utility)</i>
	LANDSCAPING AND IRRIGATION – 6 (B) Landscaping			
		Added	SS-L.01	Growing Medium - Lawn
		Added	SS-L.02	Growing Medium – Planting Bed
		Added	SS-L.03	Growing Medium - Boulevard
		Added	SS-L.04a	Tree – in Grass Open Space
		Added	SS-L.04b	Tree – in Planting Bed
		Added	SS-L.04c	Boulevard Tree – in Grass
		Added	SS-L.05a	Boulevard Tree – in Structural Soil (Plan)
		Added	SS-L.05b	Boulevard Tree – in Structural Soil (Section A-A')
		Added	SS-L.06a	Boulevard Tree – in Soil Cell (Plan)
		Added	SS-L.06b	Boulevard Tree – in Soil Cell (Section A-A')
		Added	SS-L.07	Root Barrier at Paving
	LANDSCAPING AND IRRIGATION – 6 (C) Irrigation			
		Added	SS-IR.01a	Backflow Prevention Assembly ¾"
		Added	SS-IR.01b	Backflow Prevention Assembly 1" to 2"
		Added	SS-IR.01c	Backflow Prevention Assembly 1" to 2"
		Added	SS-IR.01d	Backflow Prevention Assembly 2 1/2" to 4"
		Added	SS-IR.01e	Backflow Prevention Assembly 2 1/2" to 4"
		Added	SS-IR.02a	Irrigation Vault 1" to 2"
		Added	SS-IR.02b	Irrigation Vault ¾"
		Added	SS-IR.03	Irrigation Cabinet Double
		Added	SS-IR.04a	Trench Section w/o Sleeving
		Added	SS-IR.04b	Thrust Blocks
		Added	SS-IR.05a	Stand Alone Isolation Valve 50mm and Under
		Added	SS-IR.05b	Electric Control Valve 24VAC

MMCD Standard Drawings		City of Kelowna Standard Drawings		
Dwg.	Title	Comment	Dwg.	Title
		Added	SS-IR.06a	Control Zone Kit 25mm
		Added	SS-IR.06b	Control Zone Kit 38mm
		Added	SS-IR.07	Mainline Drain Valve
		Added	SS-IR.08a	Irrigation Value Box Small Size
		Added	SS-IR.08b	Irrigation Value Box Medium Size
		Added	SS-IR.08c	Irrigation Value Box Large Size
		Added	SS-IR.09	Wired Splice Box
		Added	SS-IR.10a	Sprayhead Sprinkler
		Added	SS-IR.10b	Rotor Sprinkler
		Added	SS-IR.11a	Dripline Header Assembly
		Added	SS-IR.11b	Root Watering System (Double)
		Added	SS-IR.11c	Tree Dripline
		Added	SS-IR.12a	Hydrant/Blow-Out Assembly 50mm
		Added	SS-IR.12b	Quick Coupler
		Added	SS-IR.12c	Lateral End Flush Valve
		Added	SS-IR.12d	Hose Bib
		Added	SS-IR.13	Temporary Boulevard Irrigation