

City of Kamloops Standard Survey Requirements

Legend: = Yes = No = only if changed from design

Category	Feature	Design Survey Pickup of Existing Features	Record Survey Pickup of New Features	Comments
Land	City Property	√	<input checked="" type="checkbox"/>	
	Site Improvement Light Pole	√	√	
	Fence	√	√	
	Site Improvement Wall	√	√	
	Columbarium	√	x	
	Bollard	√	√	
	Gate	√	√	
	Hard Surface	√	√	
	Dispenser	√	<input checked="" type="checkbox"/>	
	Bike Jump	√	<input checked="" type="checkbox"/>	
	Flag Pole	√	√	
	Fountain	√	<input checked="" type="checkbox"/>	
	Site Improvement Bench	√	√	
	Garbage Can	√	<input checked="" type="checkbox"/>	
	Planter	√	<input checked="" type="checkbox"/>	
	Site Improvement No Post	√	√	
	Bleacher	√	<input checked="" type="checkbox"/>	
	Picnic Table	√	<input checked="" type="checkbox"/>	
	Playground	√	√	Outline only
	Site Improvement Curb	√	<input checked="" type="checkbox"/>	
	Site Improvement Sign	√	√	
	Site Improvement Sign Support	√	√	
	Site Improvement Sidewalk	√	<input checked="" type="checkbox"/>	
	Methane Vent	√	√	
	Bike Baffle	√	√	
	Turf	x	x	
	Landscape Bed	√	√	
	Scoreboard Sign	√	√	
Site Improvement Weather Station	√	√		
Weigh Scale	√	√		
Building	City Building	√	√	
	Building Roof	x	x	
	Building HVAC	x	x	
	Building Mechanical Equipment	x	x	
	Building Conveying Device	x	x	
	Building Life Safe System	x	x	
	Building Life Safe System Device	x	x	
	Building Plumbing Fixture	x	x	
	Building Electrical Service	x	x	
	Building Electrical Equipment	x	x	
	Building Lighting	x	x	
	Transformer	x	x	
	Switch Gear	x	x	
	Building Door	√	√	
Building Flooring	x	x		
Building Siding	x	x		
Equipment	Furniture	x	x	
	Equipment Powered	x	x	
	Equipment Operational	x	x	
	Appliance	x	x	
	Pooled Asset	x	x	
	Vehicle	x	x	
	KFR Vehicle	x	x	

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Category	Feature	Design Survey Pickup of Existing Features	Record Survey Pickup of New Features	Comments
Roadworks	Street (Subsurface)	x	x	
	Asphalt Street and driveway extents	√	<input checked="" type="checkbox"/>	
	Gravel Street	√	<input checked="" type="checkbox"/>	
	Stairs	√	√	
	Bus Shelter	√	<input checked="" type="checkbox"/>	
	Traffic Light Sensor	x	<input checked="" type="checkbox"/>	
	Traffic Light Coordinator	x	<input checked="" type="checkbox"/>	
	Conduit	√	x	
	Junction Box	√	√	
	Sign or Sign Support	√	√	
	Sidewalk and letdowns	√	<input checked="" type="checkbox"/>	
	Curb and letdowns	√	<input checked="" type="checkbox"/>	
	Light Pole	√	√	
	No Post	√	√	All changes in alignment
	Parking Meter	√	√	
	Parking Ticket	√	√	
	Electrical Line	√	x	
	Guardrail	√	<input checked="" type="checkbox"/>	
	Wall	√	√	All changes in alignment, top and bottom
	Bench	√	<input checked="" type="checkbox"/>	
	Weather Station	√	<input checked="" type="checkbox"/>	
Bridge	√	√		
Paint lines	√	<input checked="" type="checkbox"/>		
Water	Well	√	√	
	Settling Tank	√	√	
	Treatment Plant	√	√	
	Pressurized Main	x	√	All changes in grade (max 20m spacing unless installation is constant grade using a line laser)
	Service Line	x	x	
	Hydrant	√	√	Top of nut
	System Valve	√	√	Top of nut and cover
	Control Valve	√	√	Top of nut and cover
	Stand Pipe	√	√	Top of nut and cover
	Meter Pit	√	√	Cover
	Water Cathodic Protection	√	√	Cover
	Buried Water Fitting (not attached to valve)	x	√	
	Main Stop (if not perpendicular to curb stop)	X	√	hz only within 1m
	Network Structure (booster station)	√	<input checked="" type="checkbox"/>	
	Service Point (curb stop)	√	√	Cover (existing, only if visible)
	Water Reservoir	√	<input checked="" type="checkbox"/>	
	Telemetry	√	<input checked="" type="checkbox"/>	
	Irrigation Line	x	x	
	Irrigation Valve	√	√	Cover (existing, only if City owned and visible)
	Irrigation Head	√	√	Cover (existing, only if City owned and visible)
	Irrigation Controller	√	√	Cover (existing, only if City owned and visible)
Irrigation Backflow Prevention Device	√	√	Cover (existing, only if City owned and visible)	
Air Valve	√	√	Top of pipe and cover	
Sanitary	Gravity Main	√	√	all changes in hz align
	Pressurized Main	x	√	All changes in grade (max 20m spacing unless installation is constant grade using a line laser)
	Sanitary Manhole	√	√	Inverts and cover
	Service Line	x	x	
	System Valve	√	√	Top of nut and cover
	Control Valve	√	√	Top of nut and cover
	Buried Sanitary Fitting (not attached to valve)	x	√	
	Wyes and tees	x	√	hz only within 1m
	Sanitary Cathodic Protection	√	√	Cover
	Clean Out	√	√	Invert and cover
	Detention Pond	√	<input checked="" type="checkbox"/>	
	Network Structure (lift station)	√	<input checked="" type="checkbox"/>	
	Service Point (inspection chamber)	√	√	Invert and cover

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Category	Feature	Design Survey Pickup of Existing Features	Record Survey Pickup of New Features	Comments
Sanitary cont'd	Sanitary Reservoir	✓	☒	
	Telemetry	✓	☒	
	Septic Field	x	☒	
	Waste Recycle	✓	☒	
	Treatment Plant	✓	☒	
	Compressor	x	x	
	Electrical Kiosk	✓	☒	
	Pump	x	x	
	Pump Motor	x	x	
	Standby Power	x	x	
	Sump Pump	x	x	
Drainage	Air Valve	✓	✓	Top of pipe and cover
	Gravity Main	✓	✓	all changes in hz align
	Pressurized Main	x	✓	All changes in grade (max 20m spacing unless installation is constant grade using a line laser)
	Drainage Manhole including sump	✓	✓	Inverts and cover
	Service Line	x	x	
	System Valve	✓	✓	Top of nut and cover
	Control Valve	✓	✓	Top of nut and cover
	Buried Drainage Fitting (not attached to valve such as wyes and tees if not perp to catch basin)	x	✓	
	Catch Basin including sump	✓	✓	Invert (if non standard) and grate
	Channel	✓	☒	
	Clean Out	✓	✓	Invert and cover
	Detention Pond	✓	☒	
	Inlet	✓	✓	Pipe invert
	Network Structure (lift station)	✓	☒	
	Service Point (inspection chamber)	✓	✓	Invert and cover (existing, only if visible)
	Outlet	✓	✓	Pipe invert
	Rock Pit including sump	✓	✓	Pipe invert and cover
	Telemetry	✓	☒	
	Ground Water Monitor Dev.	✓	✓	Top of casing and ground
	Dyke	✓	☒	
	River Gauge	✓	✓	
	Electrical Kiosk	✓	☒	
	Pump	x	x	
	Pump Motor	x	x	
	Standby Power	x	x	
	Sump Pump	x	x	
	Air Valve	✓	✓	Top of pipe and cover
Communication	Line Structure	✓	x	
	Point Structure	✓	☒	
	Fibre Cable	✓	x	
External Utilities	Kiosk/Vault/Junction Box/Pedestal	✓	☒	Not required for GIS
	Utility Pole	✓	☒	Not required for GIS
	Valve	✓	☒	Not required for GIS

To Assist Contractors and Consultants with the completion of Design surveys and Record surveys to City of Kamloops Standards, the City of Kamloops provides a set of Civil 3D Templates and Files on the City website at (<http://www.kamloops.ca/engineering/index.shtml#>) under the Engineering section

Contractor's submission requirements of record surveys for City of Kamloops awarded projects for completion of record drawings are as follows:

- Record Survey CSV file using City of Kamloops survey codes (+/- 5mm precision unless otherwise approved by City)
- AutoCAD Civil 3D drawing, and Drawing PDF of Record Survey CSV using City of Kamloops template

Consultant's submitting Engineering Record Drawings to City of Kamloops Refer to - Record Drawing Submittal Guidelines/Procedures on the City website at (<http://www.kamloops.ca/engineering/index.shtml#>) under the Construction and Design section