



Main Street Renewal

Construction Newsletter No. 35

November 25, 2016

On-Going

Here's a block-by-block breakdown of the work currently underway:

- **Harvey Street to Clegg Street:** Installation of tree guards and tree grates;
- **Clegg Street to the McIlraith Bridge:** Placement of the concrete curbs and sidewalks, electrical work, paving of cycle tracks, line painting, installation of regulatory signs and landscaping.

Upcoming

Here are key **new** upcoming construction activities planned for the next two weeks:

- **Harvey Street to Clegg Street:** Installation of the steel structures for the Public Art.

Traffic

Main Street

Main Street from Riverdale Avenue to Clegg Street will re-open to northbound traffic in the afternoon of November 30th (tentative date).



Cable installation for the Beckwith Road/Bower Street traffic signals.



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Did you know?

The City requires Contractors to perform several quality control tests on the concrete supplied for sidewalks, curbs and retaining walls. As shown in the photos below, the tester is assembling and field curing cylinders of concrete. These cylinders will be cured in the field (initial set) for a day then shipped to a laboratory where they will be placed in a climate controlled room for several days. After the curing period, the cylinders will be placed in a vice like machine that will measure the compression strength of the concrete.



The following field tests are also performed at the time of the concrete delivery:

Slump Test – An inverted cone is filled with concrete and then lifted to see how far down the concrete will slump. The slump must be within a set tolerance to verify the concrete work-ability. The slump can also provide an indication the correct cement / water ratio exists in the mix.

Air Test - This test is performed in a device that looks similar to a pressure cooker. The air tester (pot) is filled with concrete to the brim and water added to remove all the air. The concrete air tester is then pressurized and a gauge indicates the amount of pressure the concrete absorbed, which indicates the volume of micro-air in the mix. Air pockets relieve internal pressure on the concrete by providing tiny chambers for water to expand into when it freezes.

Temperature Test - All concrete delivered to site should fall within the 21 degree Celsius +/- 5 degrees. In cold weather, the water and stones in the mix needs to be heated, and in hot weather ice needs to be added in the water to keep it cool. Temperatures exceeding 25 degrees may trigger the hydration / hardening process sooner than planned which could affect the long term concrete durability.

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