



## Memorandum

**To:**  
**From:** Ed English  
**Date:** May 29, 2017  
**Subject:** May 26, 2017 Project Update  
**File:** Pier 5-7 Marina Reconstruction

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The City of Hamilton made a strategic decision to invest upwards of \$11 million in new infrastructure and amenities to promote the continuation and future expansion of recreational boating in the West Harbour. To this end the City procured Kropf Industries for the manufacturing, assembly, and installation of the new marina in the City's Main Basin. Phase 1 is the replacement of the existing 400 slip marina. Phase 2 will be an expansion to the marina to approximately 650 slips.

Kropf started their work with the removal and demolition of the existing marina. This work began November 14, 2016, when the last boat was removed from its slip. Removals and demolition was completed by the end of February 2017.

Work began on the installation of the new main docks and fingers on February 1, 2017 and was scheduled for completion by May 15, 2017; however, high lake levels and unanticipated weather events have resulted in installation and electrical hook-up delays that has required staging of boat launches and the need for temporary shore power. See below for more detail. The revised date for substantial completion of the project is July 11<sup>th</sup> for mains and fingers; July 28<sup>th</sup> for amenity building and gazebo platform.

### Work Completed to Date

#### A Docks

- A1-A6 mains and fingers complete, with the exception of 2 fingers on A5.
- A1-A6 electrical equipment is complete, with the exception of 4 pedestals and 2 sub-panels on A6.
- A1-A6 water servicing complete, except at 4 pedestals mentioned above.

#### B Docks

- B1-B8 mains and fingers complete, with the exception of 2 fingers on B7.
- B1-B8 electrical equipment is complete, with the exception of 6 pedestals and main panel.
- B1-B8 water servicing complete, except at 6 pedestals mentioned above.

#### C Docks

- C1-C7 mains are installed.
- Electrical sub-stations are installed.
- C6-C7 water mains installed.

#### Ramps

- A6 South ramp installed.
- A6 North ramp not installed due to high water. Access to B Docks from A6 is installed.

- A1 Ramp is installed and secured on a temporary (but safe) basis, due to the high water.
- C1 Ramp is installed and secured on a temporary (but safe) basis, due to the high water.

### **Schedule of Work to be completed**

Subject to weather and ability to complete electrical connections with record high water levels the following work should be completed by the dates listed below.

#### **A Docks**

- Cleat installations completed by June 2<sup>nd</sup>.
- Fender installations completed by June 16<sup>th</sup>.
- Remainder of pedestals completed by June 16<sup>th</sup>.
- Electrical feeds from shore completed by June 16<sup>th</sup>.
- A1-A5 primary power provided by June 23<sup>rd</sup>. (by primary generator)
- Water connections at shore by June 16<sup>th</sup>.

#### **B Docks**

- Cleat installations completed by June 9<sup>th</sup>.
- Fender installations completed by June 16<sup>th</sup>.
- Remainder of pedestal installations by June 16<sup>th</sup>.
- Electrical feed from shore to B1 by June 2<sup>nd</sup>.
- Main panel and terminations by June 9<sup>th</sup>.
- Primary power provided by June 13<sup>th</sup>. (by primary generator)
- Water connection to shore June 16<sup>th</sup>.

#### **C Docks**

- C8 mains completed by June 2<sup>nd</sup>.
- 50% C9 mains completed by June 2<sup>nd</sup>.
- C1-C3 fingers completed by June 9<sup>th</sup>.
- C1-C5 electrical cable installed by June 9<sup>th</sup>.
- Pedestals on C1-C5 completed by June 16<sup>th</sup>.
- Water servicing C1-C5 completed by June 16<sup>th</sup>.

### **Impacts of Weather**

A significant amount of production time has been lost this spring due to both rainfall and high winds (more than 15mm per day and winds greater than 40km/h gusting affects production). The total number of days of lost production due to weather is approximately 40 days.

The highest lake levels on record have proven to be a difficult condition; as a result connections to services (electricity and water) and permanent securing of the ramps to shore have been delayed and will require temporary connections in the interim. Permanent connections for services and the ramps will be delayed until the water level has dropped to adequate levels.

### **Floating Breakwaters**

The floating breakwaters are currently being repaired at the northeast section following a failure in the end joint. The City's contractor and consultant are on site doing repairs and will be installing wave gauges to monitor the performance of the floating breakwaters throughout the 2107 boating season.

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