



# **Corporate** *NO: R111*

# **Report** *COUNCIL DATE: May 15, 2000*

## **REGULAR COUNCIL**

**TO: Mayor & Council    DATE: May 9, 2000**

**FROM: General Manager, Engineering    FILE: 4800-008  
4700-003**

**SUBJECT: 2000 Construction Works Impacting Crescent Beach & Crescent Road**

## **RECOMMENDATION**

For information.

## **INTENT**

To inform Council of the proposed scheduling of this year's construction works that will impact Crescent Road and Crescent Beach.

## **BACKGROUND**

Budgeted works for this year that will impact Crescent Beach and Crescent Road include:

- Crescent Beach erosion protection and beach restoration works.
- Completion of the sanitary sewer force main and water main upgrades along Crescent Road from 144 Street to 35A Avenue.
- Potential local improvement sanitary sewer in the area of Crescent Road, 35A Avenue and 141 Street (please see attached figure).

### **Crescent Beach Erosion Protection and Beach Restoration**

Council has authorized \$1.3 million for erosion protection and beach restoration at Crescent Beach. The City is in the process of the engineering and public consultation necessary to complete the design of these works. In

parallel with this, the City is pursuing environmental approvals for the work.

This work includes the haulage to Crescent Beach of rock for erosion protection and material for beach replenishment in the amount of around 46,000 tonnes. Many years ago, dredged material from the Nicomekl River was used to replenish the beach area. However, this silty sand material is very fine and becomes easily airborne, causing mini dust storms. Also, because the material is very fine, it will erode away more quickly than the coarser, heavier sand and beach pebbles that we are proposing to use.

We have been informed that environmental approvals for the barging in of this material directly onto the beach would not likely be received, so we are exploring barging the material via the Crescent Beach Marina and trucking from there. There are, however, a number of issues that will have to be resolved before we can confirm that barging is practical and, even then, it may not be the least cost of delivering the material. Consequently, the fall-back option will be to truck in the needed material. This volume would require 2,600 truck trips and the primary access route will be Crescent Road. Over the 6 to 8 weeks' construction period, this represents a volume of about 80 trucks a day or 10 trucks per hour.

If confirmed as feasible, we will tender barging as the preferred option, with trucking as an alternate and report any cost difference back to Council as part of the tender award.

To minimize impact of the public's use of Crescent Beach and still avoid late fall adverse tide and storm conditions, it is proposed to commence construction on the erosion protection and beach restoration works on September 5, with completion in late October.

### **Crescent Road Force Main**

Part of the Servicing of Morgan Creek included the construction of a major force main from the Morgan Creek pump station to: 144 Street and Crescent Road. The remaining section of this force main, from 144 Street to 35A Avenue, has been operating on an interim size main. The construction of the remaining section of major force main has been deferred until the South Surrey Interchange was completed, so that there will be alternative routes to avoid traffic congestion created by these major works on Crescent Road. This force main work will now have to be sequenced with the public need for access to Crescent Beach and the Crescent Beach erosion works. Due to the lengthy ordering period needed for the force main materials, it is not be possible to complete construction of the force main ahead of the high beach usage time beginning mid-July. Consequently, the construction of the force main will have to await the completion of the bulk of the haulage for the Crescent Beach works (i.e., approximately mid-October). Construction of the force main is anticipated to be complete by February 2001.

### **Potential Local Improvement Sanitary Sewer**

Should the local improvement sanitary sewer project have sufficient property owner support, this work would proceed in conjunction with the force main construction.

### **Road Repaving**

The utility cuts and trenches will be patched as the sewer and water construction proceeds. After the overall project is complete, it is proposed to completely re-pave Crescent Road from 144 Street to 35A Avenue later in 2001, once initial trench settlement is substantially complete.

### **GVS&DD Nicomekl River Crossing**

In addition to the City works, the GVRD will be twinning their Nicomekl River trunk sewer crossing early in 2001. This work will mainly be carried out from the north; however, the new sewer will have to connect in south of the Nicomekl River in the area of the Crescent Beach Marina.

## **Closing**

Significant works will take place on Crescent Beach and Crescent Road this year. The preceding construction schedule has been developed to minimize disruption of the public's use of Crescent Beach and Crescent Road. The Heritage Advisory Committee will be fully briefed on the proposed underground works on Crescent Road.

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PH/brb

Attachment

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