

Item	10
Manager's Report No.	22
Council Meeting	97/08/25

TO: CITY MANAGER **DATE:** 1997 AUG. 15
FROM: DIRECTOR ENGINEERING **FILE:** 50-06-22
SUBJECT: BYRNE ROAD - MARINE WAY TO FRASER PARK DRIVE (PHASE II)
PURPOSE: To seek Council approval to pre-order pipe materials for the Phase II road improvements on Byrne Road - Marine Way to Fraser Park Drive.

RECOMMENDATIONS:

1. THAT Council authorize the issuing of a purchase order to Armtec Construction Products Ltd in the amount of \$460,803 for the supply of asphalt coated CSP pipe material for the Phase II road improvements on Byrne Road - Marine Way to Fraser Park Drive.

REPORT

Byrne Road, south of Marine Way, is designated as a major industrial collector street within the Burnaby Transportation Plan. It currently serves as the principal access to the expanding industrial development in the Big Bend area. The 1997 - 2001 Capital Budget includes provision for a phased construction program that would, over the next several years, complete this portion of Byrne Road to full industrial standards.

Phase I, between Marine Way and Royal Oak Avenue, have recently been completed. Work consisted primarily of initial preloading, due to sensitive soil conditions; upgrading cross culverts; installation of storm sewers on the west side; and road-base widening. A specially coated corrugated steel pipe (CSP) material was specified for the storm sewers to provide the required corrosion protection against the acidic soils in the area, and flexibility to accommodate anticipated ground settlements. It was supplied by Armtec Construction Products Ltd.

Phase II, Royal Oak west for approximately 500m, is of a similar type of construction. Detailed engineering designs and preparation of tender documents for Phase II have now been completed and tender call is expected within the next week. Construction is tentatively scheduled to commence early fall. Armtec Ltd would again be expected to supply the asphalt-coated CSP pipe as they are the only Canadian suppliers outside of New Brunswick.

The fabrication/"dipping tank" process used to apply the asphalt coating is susceptible to lower Fall temperatures. Additionally, the temperature must stay above freezing during the shipping stage to avoid possible damage. As Armtec's plant is located in Prince George and because of the large complex nature of the Byrne Road project, pipe materials would have to be ordered by the end of the first week of September 1997, to ensure timely delivery for Phase II construction.

Other pipe materials that are more readily available, namely PVC, concrete and HDPE, were considered but were either more expensive and/or created additional settlement problems. Furthermore, Armtec's recent quote is comparable with prices obtained through the competitive tendering process used in an earlier phase. It is therefore recommended that the city pre-order the pipe material prior to tendering the main construction contract. Total cost for supply and delivery is \$460,803 including GST. Funding for these expenditures are included in the 1997 Capital Program and have been previously approved by Council in an existing work order.



DIRECTOR ENGINEERING

AAS:

cc: Director Finance
Purchasing Agent