



WHISTLER

REPORT | ADMINISTRATIVE REPORT TO COUNCIL

PRESENTED: April 20, 2021
FROM: Infrastructure Services
SUBJECT: ALTA VISTA SERVICES UPGRADE PROJECT – PHASE 2 CONTRACT AWARD

REPORT: 21-052
FILE: E205-E320-2021

COMMENT/RECOMMENDATION FROM THE CHIEF ADMINISTRATIVE OFFICER

That the recommendation of the General Manager of Infrastructure Services be endorsed.

RECOMMENDATION

That Council award the contract for the second phase of the Alta Vista Services Upgrade Project in the amount of \$8,733,143.00 (exclusive of GST) to Coastal Mountain Excavations in accordance with their tender proposal dated March 23, 2021.

PURPOSE OF REPORT

The purpose of this Report is to provide Council with an update on the overall Alta Vista Services upgrade project, inform Council of the results of the 2021 tender process for Phase 2 Alta Vista Services upgrade works, and to request approval to award the tender for construction totalling the amount of \$8,733,143.00 (exclusive of GST).

DISCUSSION

Since 2018 the Infrastructure Services team has been working on the design for this large multi-service capital asset upgrade project. The implementation of these upgrades in the Alta Vista neighbourhood spans three years from 2020 to 2022, and includes two Phases. Phase 1 was completed in 2020 and Phase 2 is to be implemented in 2021 and 2022. The project scope includes replacing aging water mains, upgrading sanitary sewers, improving storm water drainage, upgrading road surfacing and upgrading sections of the valley trail in the Alta Vista neighbourhood. This project will replace some of the oldest water and sewer infrastructure in Whistler.

Each year, the work is planned to take place from April to November. The following streets will be impacted by the project: Alpine Crescent, Alta Vista Road, Archibald Way, Carleton Way, Lakeside Road, Tyrol Crescent and St. Anton Way.

These important asset upgrades are necessary to minimize the risk of failure of aging pipes, reduce water loss from leakage, minimize ongoing odour issues, improve pedestrian safety, and reduce maintenance costs in the area. Much of the infrastructure being replaced by this project is over 45 years old and has exceeded its design life.

This recommendation for contract award is for Phase 2 of this multiyear project. Phase 2 works will begin in spring 2021 and be completed by fall 2022 (over two construction seasons).

The contract award for Phase 2 works includes the following asset items:

1. Water system upgrades:
 - Pressure reducing valve station upgrade
 - Completion of water main on Alta Vista Road, Alpine Crescent and Archibald Crescent
 - Replace approximately 100 water service connections
2. Sewer system upgrades
 - Relining of sewer trunk main (600 & 675mm diameter) – 820 m total
 - Relining of 11 manholes
 - Upgrades to 80 meters of concrete sanitary sewer main
 - Replacement of 20 sanitary sewer service lines
3. Storm water system upgrades:
 - Upgrade of 450 metres of storm water system piping to PVC
 - Upgrade of 500 metres of storm water system piping to HDPE
 - Reshaping 90 metres of open ditches
 - Installation of 35 metre long x 1800mm diameter culvert
 - Upgrade of 80 metres of culverts by relining
4. Road Upgrades:
 - Resurfacing of 1.75 kilometres of roads for an estimated total of 3500 tonnes of asphalt to be placed
5. Valley Trail upgrades:
 - Upgrades to valley trail system creating a continuous path from Blueberry Drive to Lakeside Park including 700 metres of trail and lighting upgrades.

TENDER RESULTS

The Invitation to Tender for the Alta Vista Services Upgrade Project was sent to the 24 vendors from the pre-qualified Request for Supplier Qualifications (RFSQ) evaluation, completed in December 2020.

The tender was posted for these vendors to bid from February 12 to March 23, 2021. A non-mandatory pre-bid site meeting was held for this project on October 29, 2020 with nine contractor representatives in attendance.

The lowest priced tender was received from Coastal Mountain Excavations. Their tender contains an optional tender item for supply and installation of valley trail lighting in the amount of \$358,000. This optional item allows the RMOW to include or exclude this portion of the work at our discretion.

The four bids submitted on March 23, 2021 are show below in Table 1 compared to the engineers cost estimate. All costs stated in this discussion and subsequent sections are exclusive of GST.

Table 1: Tender bid summary

TENDERER SUMMARY		TOTAL PRICE (EXCLUDING GST)	VARIANCE TO ENGINEERS ESTIMATE
1	Coastal Mountain Excavations Ltd.	\$ 8,733,143.00	-0.1 %
2	Complete Utility Contracting	\$ 10,102,588.00	+16 %
3	Conwest Contracting Ltd.	\$ 11,656,730.30	+33 %
4	Hanna Infrastructure Ltd.	\$ 11,428,807.00	+31 %
	Engineer's Estimate (R.F. Binnie)	\$ 8,742,226.09	

Official Community Plan

9.5.7. *Objective* - Provide a recreational Valley Trail network.

9.5.7.1. Policy - Maintain and protect a comprehensive multi-use recreational Valley Trail network that links built and natural amenities as shown in Schedules E1, E2, E3 and F.

9.5.7.3. Policy - Plan, improve, expand and connect the recreational Valley Trail network in support of the *RLMP*, *active transportation* objectives and the Cycling Network Plan as shown in Schedules E1, E2, E3 and F.

12.1. Goal - Whistler provides safe drinking water and reliable water supplies for residential, commercial and fire protection needs in a manner that is cost-effective, maintains reliable infrastructure and uses conservation to minimize environmental impacts.

12.1.1. *Objective* - Maintain a potable water supply system that continues to produce sufficient domestic water quantities for current and planned future development, and water quality that meets or exceeds the Canadian Drinking Water Guidelines and fulfils the requirements of the Permit(s) to Operate issued by the Local Health Authority.

12.1.1.1. Policy - Maintain a water supply system, as illustrated in Schedule H, that continues to produce sufficient domestic and firefighting water quantities for current and planned future development, and water quality that meets or exceeds the Canadian Drinking Water Guidelines and fulfils the requirements of the annual Permit(s) to Operate issued by the Local Health Authority.

12.2. Goal - Whistler's sewer systems meet all applicable standards and are maintained in a manner that is cost-effective, ensures reliability and minimizes or eliminates environmental impacts.

12.2.1.1. Policy - Maintain a sewage collection and treatment system that transports and treats sufficient wastewater quantities for current and planned future development, and ensures discharge quality meets or exceeds the Operational Certificate issued by the B.C. Ministry of Environment & Climate Change Strategy.

OTHER POLICY CONSIDERATIONS

None.

BUDGET CONSIDERATIONS

The contract for the Phase 2 works will be spread across two years from spring 2021 to fall 2022. Any works not completed in 2021 will be completed the following year and budget remaining will be carried into 2022. The current budget for the Alta Vista Services Upgrade Project – Phase 2 works draws from the following budget codes in 2021 and 2022: E320, E205, E204, T001 and X156. The Phase 2 (2021-2022) works are shown below in Table 2.

The costs for the stormwater system and road upgrade works are close to the budget for those items with the other asset items for water and sewer upgrades showing below the current budget amounts.

The valley trail portion of the budget is less than the total tender price and does require a budget amendment to proceed. This budget amendment is also presented for Council consideration in a separate Council report at the April 20, 2021 meeting.

Valley Trail lighting was included as an optional item in the tender and can be removed from the scope at no cost. The cost of the valley trail upgrade could be reduced by \$358,000 if the lighting component of the work is removed.

Table 2: Phase 2 budget and tender price comparison

BUDGET CODE NUMBER & NAME	2021 BUDGET AMOUNT	2022 BUDGET	TOTAL PHASE 2 BUDGET	PHASE 2 TENDER PRICE	VARIANCE TENDER TO BUDGET
E320_04 – Sewer Main Upgrades	\$3,250,000	\$100,000	\$3,350,000	\$2,989,027	-11%
E205_07 – Water Main Upgrades	\$1,900,000	\$150,000	\$2,050,000	\$1,739,461	-15%
E204_04 – Pressure Reducing Valve Station	\$1,200,000	\$50,000	\$1,250,000	\$650,190	-48%
T001_08 – Road and Stormwater Upgrades	\$2,000,000	\$500,000	\$2,500,000	\$2,417,124	-3%
X156_01– Valley Trail & Lighting	\$0	\$1,077,550*	\$1,077,550	\$937,341	-13%
Total Phase 2	\$8,350,000	\$1,877,550	\$10,227,550	\$8,733,143	-15%

*A budget amendment will be required to complete the scope for the valley trail upgrade portion of this project.

TOTAL PROJECT COST OVERVIEW

The overall project spans five years from 2018 to 2022. Below is a summary of the total project cost for the Alta Vista Services Upgrade project including design, procurement and construction. The project costs are spread across five various asset categories for a total five-year forecasted cost of \$13,693,584.

Table 3: Total project costs 2018 - 2022

Budget Code Number & name	2018 Actuals	2019 Actuals	2020 Actuals	2021 Budget	2022 Budget	Phase 1 & 2 - TOTAL
Sewer Main Upgrades - E320_04	\$36,332	\$102,603	\$763,491	\$3,250,000	\$100,000	\$4,252,426
Water Main Upgrades - E205_07	\$36,332	\$85,839	\$1,860,470	\$1,900,000	\$150,000	\$4,032,641
Pressure Reducing Valve Station -E204_04	\$0	\$0	\$0	\$1,200,000	\$50,000	\$1,250,000
Road and Storm Upgrades- T001_08	\$36,332	\$0	\$544,636	\$2,000,000	\$500,000	\$3,080,968
Valley & Trail Lighting- X156_01	\$0	\$0	\$0	\$0	\$1,077,550*	\$1,077,550
TOTAL COST	\$108,995	\$188,442	\$3,168,597	\$8,350,000	\$1,877,550	\$13,693,584

*This budget item is pending approval of a budget amendment.

SAFETY CONSIDERATIONS

Coastal Mountain Excavations, in addition to all RMOW vendors, will be following the recommended safety guidelines with respect to COVID as set forth by the BC Provincial Health Officer and the BC Construction Safety Alliance. Their safe work procedures will be reviewed, approved and adjusted daily (as required) prior to starting work.

COMMUNITY ENGAGEMENT AND CONSULTATION

RMOW staff are actively engaged with the neighbourhood residents and general public with regards to this project and its impact to the community via a number of communication forums:

- Project update letters to residents, website, Pique Newspaper advertisements.
- A public information session was held on October 21, 2020 to review the design details with residents via a Zoom video conference.
- Residents have been actively engaged in the development of this project and have provided constructive feedback which has been included in the design.
- Project updates and contact information can be found on the RMOW website:
<https://www.whistler.ca/business/current-projects/alta-vista-services-upgrade-project>

SUMMARY

Staff recommend Council award the contract for the Alta Vista Services Upgrade Project – Phase 2 in the amount of \$8,733,143.00 (exclusive of GST) to Coastal Mountain Excavations Ltd. in accordance with their tender proposal dated March 23, 2021. This project will upgrade vital sections of our valley trail network, replace some of the oldest water, storm water and sewer infrastructure in Whistler, and is an important part of our on-going long-term asset management plan.

Respectfully submitted,

Tammy Shore, P. Eng.
CAPITAL PROJECTS MANAGER
for
James Hallisey, P. Eng.
GENERAL MANAGER OF INFRASTRUCTURE SERVICES