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**18.3 PINNAROO COMMUNITY WASTEWATER MANAGEMENT SYSTEM PIPEWORK RENEWAL PROJECT STAGE 2 - AWARDING OF CONTRACT**

**Responsible officer: Matthew Sherman, Manager Infrastructure Services**

- Attachments:**
1. **Pinnaroo CWMS Construction Pricing - North Pump Station 7** 
  2. **Pinnaroo CWMS Construction Pricing - North Pump Station 6** 
  3. **Pinnaroo CWMS Construction Pricing - South Pump Station 4** 
  4. **Pinnaroo CWMS Construction Pricing - South Pump Station 3** 

<b>Section under the Act</b>	The grounds on which part of the Council or Committee may be closed to the public are listed in Section 90(2) & (3) of the <i>Local Government Act 1999</i> .
<b>Sub-clause and Reason:</b>	(k) - tenders for the supply of goods, the provision of services or the carrying out of works.

**Executive Summary**

The purpose of this report is to enable Council to enter into a contract for the delivery of the Pinnaroo Community Wastewater Management System (CWMS) Pipework Renewal Project final Stages North and South.

SADB Directional Drilling has completed the full investigation on final Stages North and South and submitted a final value for the Pinnaroo CWMS Pipework Renewal Project Stages North and South works. This report enables Council to consider the final value and award SADB Directional Drilling the contract to undertake the final stages North and South works for the Pinnaroo CWMS Pipework Renewal Project.

<p><b>RECOMMENDATION</b></p> <p>That Council:</p> <ol style="list-style-type: none"> <li>1. exempts itself from the usual requirement to seek tenders for the delivery of the Pinnaroo Community Wastewater Management System Pipework Renewal Project Stages North and South, in accordance with the Exceptions Clause 7.3 of the Procurement Policy, on the basis that the pressures of time are such that an open call is not feasible.</li> <li>2. awards the contract for the delivery of the Pinnaroo Community Wastewater Management System Pipework Renewal Project Stages North and South to SADB Directional Drilling for a contract price of \$2,753,687.10 (ex GST).</li> <li>3. notes that the contract amount exceeds the proposed 2021/22 budget allocation by \$394,414.10 and is reliant on an additional budget allocation to fund the works.</li> </ol>
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**MOVED COUNCILLOR NEVILLE PFEIFFER  
SECONDED COUNCILLOR REBECCA BOSELEY**

**That Council:**

- 1. exempts itself from the usual requirement to seek tenders for the delivery of the Pinnaroo Community Wastewater Management System Pipework Renewal Project Stages North and South, in accordance with the Exceptions Clause 7.3 of the Procurement Policy, on the basis that the pressures of time are such that an open call is not feasible.**
- 2. awards the contract for the delivery of the Pinnaroo Community Wastewater Management System Pipework Renewal Project Stages North and South to SADB Directional Drilling for a contract price of \$2,753,687.10 (ex GST).**
- 3. notes that the contract amount exceeds the proposed 2021/22 budget allocation by \$394,414.10 and is reliant on an additional budget allocation to fund the works.**

**CARRIED.**

**Background**

Council entered into its first contract with SADB Directional Drilling for the delivery of the Pinnaroo CWMS Pipework Renewal Project in early 2020. Stage 1 works (northern residential areas of Pinnaroo) and Stage 2 works (Murrayville Road and Railway Terrace South) are now complete.

Council at its June 2020 meeting gave approval for SADB to undertake an investigation of the remaining CWMS pipework and to report back to Council on the costings to complete the remaining works. The investigation is now complete and the works have been costed.

**Context**

Pinnaroo is serviced by a community wastewater management system, which involves collection, treatment and reuse of wastewater generated in the town. The scheme is one of the oldest in the state, having originally been constructed in 1960's. Consequently, many of the sections of pipe in the collection network are aged, in poor condition and constructed within private property without easements. Such drains require replacement in the coming years, otherwise the performance of the network will begin to worsen.

To better quantify the condition of the collection network, Council obtained a CCTV survey assessment of the entire gravity scheme. This information was then provided to Wallbridge Gilbert Aztec (WGA) to review and prioritise, with tender documentation prepared for Stage 1 of the works, considered to be highest priority.

Due to the extent of the required upgrades, the upgrade is to be undertaken as a staged process based on priority of required works.

The construction of Stage 1 works was awarded to SADB Directional Drilling (SADB), who proposed to undertake the upgrade works predominantly through directional drilling, with trench excavations where possible. Stage 1 works have been completed.

As prioritised by Council, SADB undertook design and submitted pricing for the next stage of works (Stage 2), which encompassed Murrayville Road and Railway Terrace South. Stage 2 works have now been completed.

**Policy and statutory implications**

The Local Government Act 1999 is relevant to this matter.

Council's Strategic Plan Goal 3, Sustainable Infrastructure & Services, is relevant to this matter.

Council's procurement policy is relevant to this matter. This policy has an exception clause and it is proposed to use the exception clause to enable this project to proceed in a timely manner.

The exceptions clause states:

*Exceptions*

*Generally, open and fair competition is best achieved by undertaking a full public tender call so all interested parties have an opportunity to bid on the call. However, there may be procurements in which a full public tender will not necessarily deliver best value for money and other market approaches may be more appropriate. Council may be exempt from the requirement to seek tenders or quotations, if:*

.....

*7.3 The pressures of time are such that an open call is not feasible...*

**Issues**

Council is able to exempt its self from the usual procurement process on the basis that the pressures of time are such that an open call is not feasible. In this case an open procurement process would result in significant time delays and negatively impact the ability to upgrade the CMWS network in a timely manner.

There would be extensive delays associated with an open tender process, together with delays associated with any new firm being appointed and developing an understanding of the project. SADB has undertaken the detailed investigations for the complete CWMS system and completed stage 1 and 2 works. As a result SADB has strong project and local knowledge and could commence the final stages efficiently.

Council has been satisfied with works completed in stage 1 and stage 2 as well as SADB investigation works. SADB has also provided positive and effective communications with the community during the first two stages.

For the above reasons to date no other contractors have been asked to submit pricing for the remaining stages and an exemption from this requirement is recommended.

There are budget challenges relating to the final stages. There is a significant price difference from the previous proposed budget allocation for 2021/22 (\$2,359,273) and the costings provided (total \$2,753,687.10), this equates to an overall increase of \$394,414.10.

The two main factors for this cost increase are the increased depth of line and increased connection depth. This is in part due to lowering pump station inlets to achieve better grades as well as the fact that South works was not fully surveyed at the time of the proposed budget costings being provided.

In addition, SADB has advised that there has been an increase in material, labour and transport costs in the civil industry associated with recent government stimulus spending. This has resulted in increased costs being: labour cost increases of 12-15%; material cost increases of 15-25%; and transportation cost increases of 20%.

The overall cost for the North and South works has increased by about 16% overall due to the above factors.

It should also be noted that there are provisional cost sum allowances in the proposal. This includes \$18,000 for each pump station for latent conditions, unknown underground obstacles, de watering, septic desludging, by-pass pumping and box shoring. There is also a \$20,000 allowance for refurbishment of each pump station which may be used for lid replacement or minor rectification works. Both of these costs have been included in the totals, therefore there is a total of \$152,000 for provisional cost contingencies.

There is also a \$32,000 cost (upper limit fee) for each of the North and South stages for documentation/superintendency fees for Wallbridge Gilbert Aztec within the costings. It is to be noted that fees are charged on an as needs basis with the stage 2 works fees coming in less than what was allowed for.

A breakdown of the submitted pricing is detailed below:

Table 1: Final Construction Prices – stages North and South

	South Pump Station3	South Pump Station4	North Pump Station6	North Pump Station7
PRELIMINARIES	\$82,614.00	\$190,754.00	\$120,508.00	\$145,980.00
CWMS INFRASTRUCTURE	\$100,932.00	\$290,614.00	\$154,588.00	\$294,917.00
OTHER	\$176,810.00	\$633,061.00	\$182,588.00	\$309,314.00
<b>TOTAL (Ex. GST)</b>	<b>\$360,356.00</b>	<b>\$1,114,429.00</b>	<b>\$457,624.00</b>	<b>\$749,920.00</b>
<i>CITB</i>	<i>\$990.98</i>	<i>\$3,064.68</i>	<i>\$1,258.47</i>	<i>\$2,062.28</i>
<b>GST</b>	<b>\$36,035.60</b>	<b>\$111,442.90</b>	<b>\$45,762.40</b>	<b>\$74,992.00</b>
<b>TOTAL (Inc GST)</b>	<b>\$397,382.58</b>	<b>\$1,228,936.58</b>	<b>\$504,644.87</b>	<b>\$826,974.28</b>
<b>WGA (superintendency)</b>	<b>\$32,000.00</b>		<b>\$32,000.00</b>	
<b>TOTAL (Ex. GST)</b>	<b>Total South</b>	<b>\$1,510,840.50</b>	<b>Total North</b>	<b>\$1,242,846.60</b>

The North and South works are proposed to be completed within a year’s timeframe and works are able to start at the end of July /early August.

It is noted that, as with stage 1 and 2 works, there are several risks associated with the proposed recommendations and construction methodology provided by SADB:

- Presence of unexpected rock formation. Directional drilling is more expensive in hard rock due to a different drilling rig being required and where a rock shelf or floating or loose rock is present maintaining pipe grade is almost impossible.
- Asbestos within private property.
- Unforeseen underground objects ie. buried cars, tanks etc. which may impact proposed alignments.
- Site access. Unwillingness of resident to allow access to private property, potentially delaying works.
- Bypass pumping. SADB have assumed that private Septic Tanks will generally provide sufficient emergency storage to disconnect properties during reconnection to the new line. Undersized, failed or full septic tanks will not provide this volume, requiring additional use of the bypass pumping system.
- Groundwater and dewatering costs.

A provisional sum allowance of \$152,000 has been included in the pricing for latent conditions, and pump station refurbishments.

### **Alternate options**

SADB were the only contractor to price the project. The alternative for Council is to undertake a public tender call similar to the Stage 1 tender process.

The advantage of this that there will be alternate pricing to evaluate SADB's submission, providing a more comprehensive comparison.

However, there are also several key disadvantages to this option; including the following:

- Delay of project by at least several months due to Request for Tender periods, tenderer interviews and tender assessments. This was a notably extensive process in Stage 1 due to complexity of works.
- Additional administration costs to undertake the tender process.
- Potential loss of accommodation due to current availability issues within Pinnaroo and the surrounding region.
- SADB have been engaged to undertake design and costing of Stages North and South, are already onsite and have a detailed familiarisation with the project. Should a new contractor be awarded, there will be additional establishment costs and likely construction delays/issues due to lack of familiarisation with the project and area.
- SADB have developed a strong community relationship, with minimal issues or complaints during Stage 1 construction so far. There is a risk that a new contractor does not develop the same community relationship.

WGA has assisted Council to undertake an assessment of SADB's proposal and it has been determined that the proposal represents fair value.

Consideration to award the contract for either North works or South works as two separate portions could be considered by Council. Council would have additional costs if the two stages were not undertaken consecutively.

**Financial implications**

The final CWMS stage North and South works can be delivered for a contract price of **\$2,753,687.10.00** (excl. GST). The total is significantly over the allocated budget figure of \$2,359,273 and therefore would be reliant on a further budget allocation to proceed with all the full scope of works.

It should be noted that the works were always intended to be a rolling program to suit available funding. We have also seen considerable price increases across many industries including the civil construction sector and this may continue.

Council could address this shortfall by amending the draft budget for 2021/22 prior to adoption, or consider the additional funding required in the first budget review of 2021/22. The later approach is recommended.

**Work Health and Safety and Risk implications**

A site-specific project safety plan will be developed by SADB prior the construction works. This plan will be reviewed by Council and WGA as the project superintendent.

A general work, health and safety management system was included in the SADB submission.

Council faces reputational risk if it does not progress this project.

**Consultation**

As per Stage 1 and 2 works, SADB propose a two-phase community consultation process in conjunction with Council's planned notification process. This will include letter drops and door knocking of directly affected stakeholders.

Council included this project in its draft annual business plan and budget 2021/22 which was the subject of community consultation.

**CP&M - Riverside CWM Construction Pricing**  
 Pump Station 7  
 REVISION DATE: 18 MAY 2021



Item	Description	Unit	Rate	Qty	Amount	Comments
<b>1 PRELIMINARIES</b>						
1.1	Preliminary site investigation - refer notes	item				
1.2	Establishment - refer notes	item				
1.3	Site security	item	\$ 2,750.00	1	\$ 2,750.00	Increased Labour Costs
1.4	Survey - Site Set Out	ea	\$ 130.00	47	\$ 5,640.00	Increased Sub Contractor Costs
1.5	Review existing - refer notes	item				
1.6	Quality control and quality assurance	ea	\$ 53.00	47	\$ 2,491.00	Increased Labour Costs
1.7	Environmental controls management	ea	\$ 53.00	47	\$ 2,491.00	Increased Labour Costs
1.8	Traffic management - refer notes	item				
1.9	Dilatation Survey of Work Area Pre and Post Construction	ea	\$ 121.00	47	\$ 5,687.00	Increased Labour Costs
1.10	Insurances & Statutory Fees	ea	\$ 15.00	47	\$ 705.00	
1.11	"As Constructed" survey	ea	\$ 130.00	47	\$ 5,640.00	
1.12	"As Constructed" drawings in Autocad format.	ea	\$ 53.00	47	\$ 2,491.00	
1.13	Investigations - refer notes	item				
1.14	LAFHA	night	\$ 801.00	35	\$ 28,035.00	Increase Labour Component / Timeline
1.15	Accommodation - inc 12.5% mark up fee	night	\$ 239.00	312	\$ 89,908.00	Increase Labour Component / Timeline
					<b>\$ 145,689.00</b>	
<b>2 LOWER INFRASTRUCTURE</b>						
<i>Trench Re-Excavation</i>						
2.1	Excavate trench	m	\$ 193.00	469	\$ 90,517.00	Increased Labour Costs
2.2	Dispose of surplus spoil at approved stockpile site	m3	\$ 11.00	520	\$ 5,720.00	
2.3	Supply bedding material	m3	\$ 11.00	95	\$ 1,045.00	
2.4	Supply PVC SWS & Fittings	m	\$ 15.00	469	\$ 7,034.00	Increased Material Costs
2.5	Backfill for pipe	m3	\$ 31.00	422	\$ 13,082.00	Increased quantity due to deep trench original \$15 was incorrect \$31 correct
2.6	Reinstate trench (pavement)	m2	\$ 88.00	185	\$ 16,280.00	
2.7	Reinstate trench ( verge)	m2	\$ 11.00	170	\$ 1,870.00	
					<b>\$ 137,918.00</b>	
<i>Direction Drilling</i>						
2.9	Excavate entrance and receiving pits	item	\$ 2,074.00	7	\$ 14,518.00	Increased Labour Costs
2.10	Supply and install pipe (125mm HDPE PN10)	m	\$ 141.00	585	\$ 140,985.00	Increased Labour Costs / Increased Material Costs
2.11	Reinstate trench (pavement)	m2	\$ 88.00	15	\$ 1,308.00	
2.12	Reinstate pit (verge)	item	\$ 11.00	3	\$ 33.00	
					<b>\$ 156,999.00</b>	
<i>Other</i>						
2.13	Rushing point	each	\$ 3,297.00	16	\$ 52,752.00	Increased Labour Costs / Increased Material Costs
2.14	Maintenance hole	each	\$ 8,800.00	5	\$ 44,000.00	225 Maintenance Holes now required / Increased Labour Costs / Increased Material Costs
2.15	Connect to existing maintenance hole/pump station	item	\$ 3,274.00	1	\$ 3,274.00	Increased Labour Costs / Increased Material Costs
2.16	Property connections	item	\$ 3,849.00	47	\$ 157,403.00	Increased Labour Costs / Increased Material Costs / Deeper Connections
2.17	OCTV	km	\$ 11.00	1054	\$ 11,594.00	
2.18	Test and pressure flush pipe	ea	\$ 79.00	29	\$ 2,291.00	
2.19	PC Sum Item - Latent Conditions / Unknown underground obstacles inc rock / de watering / septic desludge, pass pumping and box shoring	item	\$ 18,000.00	1	\$ 18,000.00	Increase in costs due to additional shoring cost allowances
2.20	PC Sum Item - Pump Station Re-Furbishment	ea	\$ 20,000.00	1	\$ 20,000.00	
					<b>\$ 309,314.00</b>	
			<b>Total 1 &amp; 2</b>		<b>\$ 740,920.00</b>	Original \$647,561 increase of <b>\$102,359 (13%)</b>
					<b>GST</b>	<b>\$ 74,292.00</b>
					<b>CRB</b>	<b>\$ 2,062.28</b>
					<b>Total Inc GST &amp; CRB</b>	<b>\$ 817,274.28</b>

- Note**
- Item 1.1 Prelim investigations - accounted for in current VO
  - Item 1.2 Establishment - no associated costs if SADB remain on site for duration of project. If project delayed and SADB to de mob from site a demob of \$7,500 and remob fee of \$20,000 will be applied. (Total \$27,500)
  - Item 1.5 Service Locations - No Charge - carried out on current VO
  - Item 1.8 Traffic Management - No associated costs as allowed for in above construction rates
  - Item 1.13 Investigations - accounted for in current VO

DFBAC7 - Financial CWMS Construction Pricing  
 Pump Station 6  
 REVISION DATE: 24 MAY 2021



Item	Description	Unit	Rate	Qty	Amount	Comments
<b>1</b>	<b>PRE INFRASTRUCTURE</b>					
1.1	Preliminary site investigation - refer notes	item				
1.2	Establishment - refer notes	item				
1.3	Site security	item	\$ 2,750.00	1	\$ 2,750.00	Increased Labour Costs
1.4	Survey - Site Set Out	ea	\$ 120.00	29	\$ 3,480.00	Increased Sub Contractor Costs
1.5	Service Locations - refer notes	item				
1.5	Quality control and quality assurance	ea	\$ 53.00	29	\$ 1,537.00	Increased Labour Costs
1.7	Environmental controls management	ea	\$ 53.00	29	\$ 1,537.00	Increased Labour Costs
1.8	Traffic management - refer notes	item				
1.9	Disruption Survey of Work Area Pre and Post Construction	ea	\$ 121.00	29	\$ 3,509.00	Increased Labour Costs
1.10	Insurances & Statutory Fees	ea	\$ 15.00	29	\$ 435.00	
1.11	"As Constructed" survey	ea	\$ 120.00	29	\$ 3,480.00	Increased Sub Contractor Costs
1.12	"As Constructed" drawings in Autocad format	ea	\$ 50.00	29	\$ 1,450.00	Increased Sub Contractor Costs
1.13	Investigations - refer notes	item				
1.14	LAFHA	night	\$ 801.00	30	\$ 24,030.00	Timeline increase
1.15	Accommodation - inc 2.5% mark up fee	night	\$ 290.00	270	\$ 78,300.00	Timeline increase
					<b>\$ 120,508.00</b>	
<b>2</b>	<b>CWMS INFRASTRUCTURE</b>					
	<i>Trench Re-placement</i>					
2.1	Excavate trench	m	\$ 285.00	590	\$ 169,150.00	Increased Labour Costs
2.2	Dispose of surplus soil at approved stockpile site	m3	\$ 11.00	530	\$ 5,830.00	
2.3	Supply bedding material	m3	\$ 31.00	140	\$ 4,340.00	
2.4	Supply PVC SNG & Fittings	m	\$ 16.00	590	\$ 9,440.00	Increased Material Costs
2.5	Backfill for pipe	m3	\$ 31.90	706	\$ 21,948.00	Increased quantity due to deep trench cap (155) will be included \$31 correct
2.6	Reinstate trench (pavement)	m2	\$ 88.00		\$ -	
2.7	Reinstate trench (verge)	m2	\$ 11.00	350	\$ 3,850.00	
					<b>\$ 154,558.00</b>	
	<i>Direction Drilling</i>					
2.9	Excavate entrance and receiving pits	item	\$ 2,074.00		\$ -	Increased Labour Costs
2.10	Supply and install pipe (125mm HDPE PRL16)	m	\$ 241.00		\$ -	Increased Labour Costs / Increased Material Costs
2.11	Reinstate trench (pavement)	m2	\$ 88.00		\$ -	
2.12	Reinstate pit (verge)	item	\$ 11.00		\$ -	
					\$ -	
	<i>Other</i>					
2.13	Flushing point	each	\$ 3,297.00	6	\$ 19,782.00	Increased Labour Costs / Increased Material Costs
2.14	Maintenance hole	each	\$ 8,600.00	2	\$ 17,600.00	225 Maintenance Holes now required / Increased Labour Costs / Increased Material Costs
2.15	Connect to existing maintenance hole/pump station	item	\$ 3,274.00	1	\$ 3,274.00	Increased Labour Costs / Increased Material Costs
2.16	Property connections	item	\$ 3,849.00	29	\$ 97,821.00	Increased Labour Costs / Increased Material Costs / Deeper Connections
2.17	CCTV	lm	\$ 11.00	590	\$ 6,490.00	Increased Sub Contractor Costs
2.18	Test and pressure flush pipe	ea	\$ 79.00	29	\$ 2,291.00	Increased Labour Costs
2.19	PC Sum Item - Latent Conditions / Unknown underground obstacles (inc rock / old watering / septic deslud, by pass pumping and bio shoring)	item	\$ 16,000.00	1	\$ 16,000.00	Increase in costs due to additional shoring cost allowances
2.20	PC Sum item - Pump Station Re-Furbishment	ea	\$ 20,000.00	1	\$ 20,000.00	
					<b>\$ 182,558.00</b>	
			<b>Total 1 &amp; 2</b>		<b>\$ 437,828.00</b>	Original \$304,315, increase of \$78,313 (26%)
					<b>GST</b>	<b>\$ 45,762.40</b>
					<b>COB</b>	<b>\$ 1,158.47</b>
					<b>Total Inc GST &amp; COB</b>	<b>\$ 506,648.87</b>

**Note**

- Item 1.1 Prelim Investigations - accounted for in current VO
- Item 1.2 Establishment - no associated costs if SADB remains on site for duration of project.  
 If project delayed and SADB to be mob from site a demob of \$7,500 and remob fee of \$20,000 will be applied. (Total \$27,500)
- Item 1.5 Service Locations - No Charge - carried out on current VO
- Item 1.8 Traffic Management - No associated costs as allowed for in above construction rates
- Item 1.13 Investigations accounted for in current VO



**TABLE 1 - Proposed 2021 Construction Pricing**  
**Pump Station 3**  
**REVISION DATE: 24 MAY 2021**



Item	Description	Unit	Rate	Qty	Amount	Comments
<b>1</b>	<b>PRELIMINARIES</b>					
1.1	Preliminary site investigation - refer notes	item				
1.2	Establishment - refer notes	item				
1.3	Site security	item	\$ 2,750.00	1	\$ 2,750.00	Increased Labour Costs
1.4	Survey - Site Set Out	ea	\$ 120.00	105	\$ 12,600.00	Increased Sub Contractor Costs
1.5	Service locating - refer notes	item				
1.6	Quality control and quality assurance	ea	\$ 53.00	105	\$ 5,565.00	Increased Labour Costs
1.7	Environmental controls management	ea	\$ 53.00	105	\$ 5,565.00	Increased Labour Costs
1.8	Traffic management - refer notes	item				
1.9	Drainage Survey of Work Area Pre and Post Construction	ea	\$ 123.00	105	\$ 12,705.00	Increased Labour Costs
1.10	Insurances & Statutory Fees	ea	\$ 15.00	105	\$ 1,575.00	
1.11	"As Constructed" survey	ea	\$ 120.00	105	\$ 12,600.00	Increased Labour Costs
1.12	"As Constructed" drawings in Autocad format	ea	\$ 30.00	105	\$ 5,250.00	Increased Labour Costs
1.13	Investigations - refer notes	item				
1.14	LAFHA	night	\$ 804.00	41	\$ 32,964.00	Increase Labour Component / Timeline
1.15	Accommodation - inc 12.5% mark up fee	night	\$ 290.00	342	\$ 99,180.00	Increase Labour Component / Timeline
					<b>\$ 190,754.00</b>	
<b>2</b>	<b>CWMS INFRASTRUCTURE</b>					
	<i>Trench Replacement</i>					
2.1	Excavate trench	m	\$ 185.00	529	\$ 97,065.00	Increased Labour Costs
2.2	Dispose of surplus spoil at approved stockpile site	m3	\$ 11.00	500	\$ 5,500.00	
2.3	Supply bedding material	m3	\$ 31.00	130	\$ 4,030.00	
2.4	Supply PVC SAG & Fittings	m	\$ 16.00	529	\$ 8,464.00	Increased Material Costs
2.5	Backfill for pipe	m3	\$ 21.00	380	\$ 11,780.00	Increased quantity due to deep trench original 215 was incorrect 53% correct
2.6	Reinstate trench (pavement)	m2	\$ 94.00	30	\$ 940.00	Increased Labour Costs / Increased Material Costs
2.7	Reinstate trench ( verge)	m2	\$ 11.00	775	\$ 8,525.00	
					<b>\$ 137,104.00</b>	
	<i>Direction Drilling</i>					
2.9	Excavate entrance and receiving pits	item	\$ 2,074.00	10	\$ 20,740.00	Increased Labour Costs
2.10	Supply and install pipe (125mm HDPE PN16)	m	\$ 243.00	550	\$ 132,850.00	Increased Labour Costs / Increased Material Costs
2.11	Reinstate trench (pavement)	m2	\$ 88.00		\$	
2.12	Reinstate pit (verge)	item	\$ 11.00	20	\$ 220.00	
					<b>\$ 155,510.00</b>	
	<i>Other</i>					
2.13	Flushing point	each	\$ 3,037.00	7	\$ 23,079.00	Increased Labour Costs / Increased Material Costs
2.14	Maintenance hole	each	\$ 8,800.00	6	\$ 52,800.00	225 Maintenance Holes now required / Increased Labour Costs / Increased Material Costs
2.15	Connect to existing maintenance hole/pump station	item	\$ 3,401.00	7	\$ 24,017.00	Increased Labour Costs / Increased Material Costs
2.16	Property connections	item	\$ 3,431.00	105	\$ 360,255.00	Increased Labour Costs / Increased Material Costs / Deeper Connections
2.17	CCTV	hm	\$ 11.00	1499	\$ 16,489.00	
2.18	Test and pressure flush pipe	ea	\$ 78.00	1499	\$ 116,421.00	
2.19	PC Sum Item - Latent Conditions / Unknown underground obstacles inc rock / de watering / septic discharge by pits plumbing and box shoring	item	\$ 18,000.00	1	\$ 18,000.00	Increase in costs due to additional shoring cost allowances
2.20	PC Sum Item - Pump Station Re-Furbishment	ea	\$ 20,000.00	1	\$ 20,000.00	
					<b>\$ 631,061.00</b>	
				<b>Total (1 &amp; 2)</b>	<b>\$ 1,111,429.00</b>	Original \$1,015,439 + \$96,990 (9%)
				GST	\$ 111,442.90	
				CFR	\$ 3,064.64	
				<b>Total inc GST &amp; CFR</b>	<b>\$ 1,225,936.54</b>	

- Note:
- Item 1.1 Pre-site investigations - accounted for in current VO
  - Item 1.2 Establishment - no associated costs if SADB remain on site for duration of project.  
If project delayed and SADB to de mob from site a demob of \$7,500 and remob fee of \$20,000 will be applied. (Total \$27,500)
  - Item 1.5 Service Locations - No Charge - carried out on current VO
  - Item 1.8 Traffic Management - No associated costs as allowed for in above construction rates
  - Item 1.13 Investigations accounted for in current VO

**(FOI 3) - Precinct CDMV Construction Pricing**  
 Pump Station 3  
 REVISION DATE: 21 MAY 2021



Item	Description	Unit	Rate	Qty	Amount	Comments
<b>1</b>	<b>PRELIMINARIES</b>					
1.1	Preliminary site investigation - refer notes	item				
1.2	Establishment - refer notes	item				
1.3	Site security	item	\$ 2,750.00	1	\$ 2,750.00	Increased Labour Costs
1.4	Survey - Site Set Out	ea	\$ 125.00	47	\$ 5,640.00	Increased Sub Contractor Costs
1.5	Service locating - refer notes	item				
1.6	Quality control and quality assurance	ea	\$ 37.00	31	\$ 1,643.00	Increased Labour Costs
1.7	Environmental controls management	ea	\$ 37.00	31	\$ 1,643.00	Increased Labour Costs
1.8	Traffic management - refer notes	item				
1.9	Dilapidation Survey of Work Area Pre and Post Construction	ea	\$ 121.00	31	\$ 3,751.00	Increased Labour Costs
1.10	Insurances & Statutory Fees	ea	\$ 15.00	31	\$ 465.00	
1.11	"As Constructed" survey	ea	\$ 128.00	31	\$ 3,720.00	Increased Labour Costs
1.12	"As Constructed" drawings in AutoCAD format	ea	\$ 50.00	31	\$ 1,550.00	Increased Labour Costs
1.13	Investigations - refer notes	item				
1.14	LAFHA	night	\$ 804.00	18	\$ 14,472.00	Increase Labour Component / Timeline
1.15	Accommodation - inc 12.5% mark up fee	night	\$ 290.00	163	\$ 46,980.00	Increase Labour Component / Timeline
					<b>\$ 82,614.00</b>	
<b>2</b>	<b>CIVIL INFRASTRUCTURE</b>					
	<i>Trench Replacement</i>					
2.1	Excavate trench	m	\$ 157.00	318	\$ 49,926.00	Increased Labour Costs
2.2	Dispose of surplus spoil at approved stockpile site	m3	\$ 11.00	290	\$ 3,190.00	
2.3	Supply bedding material	m3	\$ 31.00	80	\$ 2,480.00	
2.4	Supply PVC S16 & Fittings	m	\$ 15.00	328	\$ 4,920.00	Increased Material Costs
2.5	Backfill for pipe	m3	\$ 31.00	228	\$ 7,068.00	Increased quantity due to deep trench original S15 was incorrect S35 correct
2.6	Reinstate trench (pavement)	m2	\$ 130.00	80	\$ 9,900.00	Increased Labour Costs / Increased Material Costs
2.7	Reinstate trench (verge)	m2	\$ 11.00	100	\$ 1,100.00	
					<b>\$ 72,464.00</b>	
	<i>Direction Drilling</i>					
2.9	Excavate entrance and receiving pits	item	\$ 2,074.00	2	\$ 4,148.00	Increased Labour Costs
2.10	Supply and install pipe (125mm HDPE PN16)	m	\$ 241.00	100	\$ 24,100.00	Increased Labour Costs / Increased Material Costs
2.11	Reinstate trench (pavement)	m2	\$ 89.00		\$	
2.12	Reinstate pit (verge)	item	\$ 11.00	20	\$ 220.00	
					<b>\$ 28,468.00</b>	
	<i>Other</i>					
2.13	Flushing point	each	\$ 3,297.00	1	\$ 9,891.00	Increased Labour Costs / Increased Material Costs
2.14	Maintenance hole	each	\$ 8,500.00	2	\$ 17,000.00	225 Maintenance Holes now required / Increased Labour Costs / Increased Material Costs
2.15	Connect to existing maintenance hole/pump station	item	\$ 3,431.00	1	\$ 3,431.00	Increased Labour Costs / Increased Material Costs
2.16	Property connections	item	\$ 3,349.00	31	\$ 103,819.00	Increased Labour Costs / Increased Material Costs / Deeper Connections
2.17	CCTV	mm	\$ 11.00	420	\$ 4,620.00	
2.18	Test and pressure flush pipe	ea	\$ 78.00	31	\$ 2,449.00	
2.19	PC Sum Item - Latent Conditions / Unknown underground @ sites inc rock / de-watering / septic desludge by pits pumping and shoring	item	\$ 15,000.00	1	\$ 15,000.00	Increase in costs due to additional shoring cost allowances
2.20	PC Sum Item - Pump Station Re-Furnishment	ea	\$ 20,000.00	1	\$ 20,000.00	
					<b>\$ 176,810.00</b>	
					<b>Total 1 &amp; 2</b>	
					<b>\$ 360,326.00</b>	Original \$322,950 + \$37,406 (10%)
					<b>GST</b>	<b>\$ 16,935.60</b>
					<b>CFR</b>	<b>\$ 990.88</b>
					<b>Total inc GST &amp; CFR</b>	<b>\$ 397,982.56</b>

- Note
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