

**SHIRE OF YARRA RANGES  
ENGINEER'S ESTIMATE**

REFERENCE NO:	DATE:	21-Jun-21
PROJECT:	NEVADA AVENUE TECOMA IMPROVEMENT WORKS SCS	
TOTAL COSTS:	<b>\$208,388.00</b>	

Item	Description	Quantity	Unit	Rate	Amount
<b>1</b>	<b>SITE PREPARATION/PRELIMINARIES</b>				
1.1	Site establishment, set out and clean up, installation & maintaining sediment control, Environmental Management Plan, OH&S, Site Management Plan, Traffic Management Plan, Council permits, temporary fencing, setout, erection and maintenance of warning signs, lights and barriers.	1	Item	\$ 10,000.00	\$ 10,000.00
1.2	Provide a traffic management plan and traffic management in accordance with the VicRoads Roadworks Signing Code of Practice (AS 1742.3).	1	Item	\$ 10,000.00	\$ 10,000.00
<b>2</b>	<b>REMOVAL WORKS</b>				
2.1	Grubbing and clearing including sawcutting, taking up, removal and/or salvage of all existing redundant concrete, pipework, endwalls, guide posts, retaining walls, pits, trees, planting, etc. as specified.	1	Item	\$ 10,000.00	\$ 10,000.00
<b>3</b>	<b>EARTHWORKS</b>				
	Earthworks including excavation, forming, grading, boxing, filling, trimming, compaction of sub-grade, lowering of all private services, provision of access at existing driveway entrances, as directed and specified.				
3.1	Cut - solid	26	m3	\$ 70.00	\$ 1,820.00
3.2	Fill - solid	20	m3	\$ 70.00	\$ 1,400.00
<b>4</b>	<b>ROAD PAVEMENT</b>				
4.1	Supply, spread and compact 150mm compacted depth of 40mm Class 2 crushed rock 'Subbase Course' compaction to 95% IN PAVEMENT WIDENING supplied, spread and compacted as specified. (Approx. Area as shown) (Pavement Widening Subbase).	31	sq.m	\$ 35.00	\$ 1,085.00
4.2	Supply, lay, spread and compact 40mm compacted depth nom. size 14mm Type H Class 170 asphalt base course.	377	m <sup>2</sup>	\$ 60.00	\$ 22,620.00
4.3	Supply, lay, spread and compact 30mm compacted depth nom. size 10mm Type H Class 170 asphalt wearing course.	377	m <sup>2</sup>	\$ 50.00	\$ 18,850.00
<b>5</b>	<b>VEHICLE CROSSINGS</b>				
5.1	Reinstate existing gravel driveways to match finished surface levels.	15	m <sup>2</sup>	\$ 30.00	\$ 450.00
5.2	Reinstate existing concrete driveways to match finished surface levels.	32	m <sup>2</sup>	\$ 150.00	\$ 4,800.00
<b>6</b>	<b>CONCRETE KERB AND CHANNEL</b>				
6.1	Supply all materials and construct concrete rollover kerb and channel cast-in-situ, inclusive of all vehicular openings and pram crossings placed where directed, laid on 50mm compacted thickness of approved bedding material. All as per SD/B1.	157	Lin.m	\$ 110.00	\$ 17,270.00

6.2	Supply all materials and construct concrete M2 open channel cast-in-situ, inclusive of all vehicular openings placed where directed, laid on 50mm compacted thickness of approved bedding material. All as per SD/B2.	13	Lin.m	\$ 135.00	\$ 1,755.00
<b>7</b>	<b>DRAINAGE</b>				
7.1	100mm dia. Class 400 agricultural drain behind new kerbing, including pit connections as per subsoil drainage Y.R.C SD/D4	170	Lin.m	\$ 40.00	\$ 6,800.00
7.2	Class 2, 300mm diameter rubber ring jointed pipe, supplied, excavated, laid, jointed and backfilled with class 2 FCR backfill, including bedding materials, as specified.	17	Lin.m	\$ 350.00	\$ 5,950.00
7.3	Grated Side Entry pit 1000mm long x 750mm wide internal dimensions (up to 1.5m deep) as per Council Std. Dwg. SD/P3. (Pit #2 & 3).	2	No.	\$ 2,750.00	\$ 5,500.00
7.4	Grated pit 1000mm long x 750mm wide internal dimensions (up to 1.5m deep) as per Council Std. Dwg. SD/P6. Gate to be Council Approved Heavy Duty Type V-Grate or equivalent. (Pit #4)	1	No.	\$ 2,500.00	\$ 2,500.00
7.5	Junction pit 1000mm long x 750mm wide internal dimensions (up to 1.5m deep) as per Council Std. Dwg. SD/P4 with Council Approved Pit Lid. (Pit #1)	1	No.	\$ 2,250.00	\$ 2,250.00
<b>8</b>	<b>LANDSCAPING</b>				
8.1	Regrade and re-topsoil nature strip to an even depth of 50mm with imported local topsoil and grass seeds as specified.	1	item	\$ 3,000.00	\$ 3,000.00
<b>9</b>	<b>PAVEMENT MARKING</b>				
9.1	Supply and linemark with long life thermoplastic material as noted in the specification and on the drawings.	1	item	\$ 1,000.00	\$ 1,000.00
<b>10</b>	<b>ANCILLARY WORKS</b>				
10.1	Reinstate/relocate existing sign as shown on plans, as directed by Council's Superintendent.	2	No.	\$ 150.00	\$ 300.00
10.2	Reinstate/relocate existing letterbox as shown on plans, as directed by Council's Superintendent.	2	No.	\$ 100.00	\$ 200.00
10.3	Supply all materials and construct 150mm thick concrete footpath on 50mm depth size 20mm Class 2 crushed rock bedding. All as per council SD/B5.	10	m <sup>2</sup>	\$ 150.00	\$ 1,500.00
10.4	Supply all materials and construct concrete pram crossings as per council Std. Dwg. SD/B4.	2	No.	\$ 1,200.00	\$ 2,400.00
<b>11</b>	<b>PROVISIONAL ITEMS</b>				
11.1	Excavation of soft or unsuitable subgrade, backfill and compacted with 150mm compacted depth of size 20mm Class 2 crushed rock, as specified. This item includes pavement subbase for new pavement areas.	114	sq.m	\$ 60.00	\$ 6,840.00
11.2	Excavation of soft or unsuitable subgrade, backfill and compacted with 100mm compacted depth of 3% size 20mm Class 3 cement treated crushed rock, as specified. This item includes pavement subbase for new pavement areas.	114	sq.m	\$ 50.00	\$ 5,700.00
11.3	Adjust existing Double Telstra Pit to match new finished surface levels.	2	No.	\$ 5,000.00	\$ 10,000.00

11.4	Provision of as constructed plans to Council.	1	Item	\$ 1,000.00	\$ 1,000.00
11.5	Allowance to top up and reseed areas where topsoil has settled 3-6 months after construction.	1	Item	\$ 2,000.00	\$ 2,000.00
	<b>SUB-TOTAL</b>				\$156,990.00
	Scheme preparation, supervision, administration etc. 5%				\$ 7,849.50
	Engineer Consultants and other Costs				\$ 20,000.00
	Tree Management (Arborist Assessment, Tree Offsets) 5%				\$ 7,849.50
	Contingency sum 10%				\$ 15,699.00
				<b>TOTAL SCHEME COST</b>	<b>\$208,388.00</b>