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# Appendix C

## Cost Estimates

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**Alternative 2B - Trenchless Alignment**

Item	Description	Unit	Est Quant	Unit Price	Amount
<b>Section A - Site Preparation</b>					
A1	Remove Existing Asphalt	sq.m	280	\$ 8.00	\$ 2,240.00
A3	Remove Existing Concrete Curb	m	10	\$ 14.00	\$ 140.00
A4	Remove Existing CB	each	0	\$ 700.00	\$ -
A6	Remove Existing Concrete Sidewalk	sq.m	10	\$ 18.00	\$ 180.00
A7	Remove Interlock	sq.m	0	\$ 18.00	\$ -
A8	Stripping of Topsoil	sq.m	550	\$ 4.00	\$ 2,200.00
A9	Clearing and Grubbing	LS	1	\$ 2,500.00	\$ 2,500.00
<b>Section B - Roadworks</b>					
B1	Earth Excavation	cu.m	0	\$ 30.00	\$ -
B2	Calcium for Dust Control	tonne	0.25	\$ 1,500.00	\$ 375.00
B3	Granular A (150mm Depth)	sq.m	830	\$ 9.00	\$ 7,470.00
B4	Granular B (450mm Depth)	sq.m	280	\$ 13.00	\$ 3,640.00
B5	Cold Milling (40mm Depth)	sq.m	50	\$ 2.00	\$ 100.00
B6	Hot Mix HL3 (40mm Depth)	sq.m	280	\$ 7.00	\$ 1,960.00
B7	Hot Mix HL3 (40mm Depth) for Asphalt Kill Strip				
B8	Hot Mix HL8 (100mm Depth)	sq.m	280	\$ 20.00	\$ 5,600.00
B9	Tack Coat	sq.m	280	\$ 0.75	\$ 210.00
B10	Concrete Sidewalk	sq.m	10	\$ 160.00	\$ 1,600.00
B11	Asphalt Curb	m	10	\$ 40.00	\$ 400.00
B12	Concrete Curb	m	10	\$ 100.00	\$ 1,000.00
B13	Interlock Concrete Pavers	sq.m	0	\$ 100.00	\$ -
B14	Fine Grading, 200mm Topsoil & Sod	sq.m	180	\$ 25.00	\$ 4,500.00
B15	Fine Grading, 200mm Topsoil & Seed	sq.m	550	\$ 10.00	\$ 5,500.00
B16	Restoration, Tree Planting and Fence at 79 Sunnidale Road	LS	1	\$ 30,000.00	\$ 30,000.00
<b>Section C - Sanitary Sewers</b>					
C1	300mm Diameter PVC DR35 Sanitary Sewer (permanent)	m	50	\$ 500.00	\$ 25,000.00
C2	1200mm Diameter Precast Maintenacne Hole (permenant)	each	4	\$ 10,000.00	\$ 40,000.00
C3	Connect Existing Sewer to Proposed Maintenacne Hole	each	3	\$ 2,500.00	\$ 7,500.00
C4	1200mm Diameter Precast Maintenacne Hole (permenant) - 15m - 20m depth	each	1	\$ 50,000.00	\$ 50,000.00
C5	North Shaft - 17m depth	m	17	\$ 50,000.00	\$ 850,000.00
C6	South Shaft - 4m depth	m	4	\$ 15,000.00	\$ 60,000.00
C7	Trenchless Sanitary Sewer (Using casing as sewer)	m	260	\$ 7,500.00	\$ 1,950,000.00
C8	Residential Sanitary Laterals to Property Line	each	4	\$ 5,000.00	\$ 20,000.00
<b>Section D - Storm Drainage</b>					
D1	Swale Area Fill Placement				
D2	Kidds Creek Culvert Enclosure				
D3	Reinstate Spillway				
<b>Section E - Miscellaneous</b>					
E1	Dam Safety Assessment				
<b>Subtotal</b>					\$ 3,072,115.00
<b>Contingency - 35%</b>					\$ 1,075,240.25
<b>Miscellaneous (traffic control, fencing, etc) - 10%</b>					\$ 307,211.50
<b>Engineering/CA - 15%</b>					\$ 460,817.25
<b>Total</b>					<u>\$ 4,920,000.00</u>

**Alternative 3D - Swale Alignment**

Item	Description	Unit	Est Quant	Unit Price	Amount
<b>Section A - Site Preparation</b>					
A1	Remove Existing Asphalt	sq.m	20	\$ 8.00	\$ 160.00
A3	Remove Existing Concrete Curb	m	4	\$ 14.00	\$ 56.00
A4	Remove Existing CB	each	0	\$ 700.00	\$ -
A6	Remove Existing Concrete Sidewalk	sq.m	10	\$ 18.00	\$ 180.00
A7	Remove Interlock	sq.m	0	\$ 18.00	\$ -
A8	Stripping of Topsoil	sq.m	800	\$ 4.00	\$ 3,200.00
A9	Clearing and Grubbing	LS	1	\$ 10,000.00	\$ 10,000.00
<b>Section B - Roadworks</b>					
B1	Earth Excavation	cu.m	0	\$ 30.00	\$ -
B2	Calcium for Dust Control	tonne	1	\$ 1,500.00	\$ 1,500.00
B3	Granular A (150mm Depth)	sq.m	1300	\$ 9.00	\$ 11,700.00
B5	Granular B (450mm Depth)	sq.m	500	\$ 13.00	\$ 6,500.00
B6	Cold Milling (40mm Depth)	sq.m	0	\$ 2.00	\$ -
B7	Hot Mix HL3 (40mm Depth)	sq.m	20	\$ 7.00	\$ 140.00
B8	Hot Mix HL3 (40mm Depth) for Asphalt Kill Strip				
B9	Hot Mix HL8 (100mm Depth)	sq.m	20	\$ 20.00	\$ 400.00
B10	Tack Coat	sq.m	20	\$ 0.75	\$ 15.00
B11	Concrete Sidewalk	sq.m	10	\$ 160.00	\$ 1,600.00
B12	Asphalt Curb	m	10	\$ 40.00	\$ 400.00
B12	Concrete Curb	m	10	\$ 100.00	\$ 1,000.00
B13	Interlock Concrete Pavers	sq.m	0	\$ 100.00	\$ -
B14	Fine Grading, 200mm Topsoil & Sod	sq.m	20	\$ 25.00	\$ 500.00
B15	Fine Grading, 200mm Topsoil & Seed	sq.m	800	\$ 10.00	\$ 8,000.00
B16	Restoration, Tree Planting and Fence at 79 Sunnidle Road	LS	1	\$ 30,000.00	\$ 30,000.00
<b>Section C - Sanitary Sewers</b>					
C1	300mm Diameter PVC DR35 Sanitary Sewer (permanent)	m	210	\$ 500.00	\$ 105,000.00
C2	1200mm Diameter Precast Maintenacne Hole (permenant)	each	6	\$ 10,000.00	\$ 60,000.00
C3	Connect Existing Sewer to Proposed Maintenacne Hole	each	3	\$ 2,500.00	\$ 7,500.00
C4	1200mm Diameter Precast Maintenacne Hole (permenant) - 15m - 20m depth				
C5	North Shaft - 17m depth				
C6	South Shaft - 4m depth				
C7	Trenchless Sanitary Sewer (Using casing as sewer)				
C8	Residential Sanitary Laterals to Property Line	each	4	\$ 5,000.00	\$ 20,000.00
<b>Section D - Storm Drainage</b>					
D1	Swale Area Fill Placement	cu.m	2000	\$ 25.00	\$ 50,000.00
D2	Kidds Creek Culvert Enclosure	each	1	\$ 150,000.00	\$ 150,000.00
D3	Reinstate Spillway	sq.m	480	\$ 300.00	\$ 144,000.00
<b>Section E - Miscellaneous</b>					
E1	Dam Safety Assessment	each	1	\$ 200,000.00	\$ 200,000.00
<b>Subtotal</b>					\$ 811,851.00
<b>Contingency - 35%</b>					\$ 284,147.85
<b>Miscellaneous (traffic control, fencing, etc) - 10%</b>					\$ 81,185.10
<b>Engineering/CA - 15%</b>					\$ 121,777.65
<b>Total</b>					<u>\$ 1,300,000.00</u>

**Alternative 3E - Toe of Slope Alignment**

Item	Description	Unit	Est Quant	Unit Price	Amount
<b>Section A - Site Preparation</b>					
A1	Remove Existing Asphalt	sq.m	20	\$ 8.00	\$ 160.00
A3	Remove Existing Concrete Curb	m	4	\$ 14.00	\$ 56.00
A4	Remove Existing CB	each	0	\$ 700.00	\$ -
A6	Remove Existing Concrete Sidewalk	sq.m	10	\$ 18.00	\$ 180.00
A7	Remove Interlock	sq.m	0	\$ 18.00	\$ -
A8	Stripping of Topsoil	sq.m	800	\$ 4.00	\$ 3,200.00
A9	Clearing and Grubbing	LS	1	\$ 10,000.00	\$ 10,000.00
<b>Section B - Roadworks</b>					
B1	Earth Excavation	cu.m	0	\$ 30.00	\$ -
B2	Calcium for Dust Control	tonne	1	\$ 1,500.00	\$ 1,500.00
B3	Granular A (150mm Depth)	sq.m	890	\$ 9.00	\$ 8,010.00
B5	Granular B (450mm Depth)	sq.m	90	\$ 13.00	\$ 1,170.00
B6	Cold Milling (40mm Depth)	sq.m	0	\$ 2.00	\$ -
B7	Hot Mix HL3 (40mm Depth)	sq.m	20	\$ 7.00	\$ 140.00
B8	Hot Mix HL3 (40mm Depth) for Asphalt Kill Strip				
B9	Hot Mix HL8 (100mm Depth)	sq.m	20	\$ 20.00	\$ 400.00
B10	Tack Coat	sq.m	20	\$ 0.75	\$ 15.00
B11	Concrete Sidewalk	sq.m	10	\$ 160.00	\$ 1,600.00
B12	Asphalt Curb	m	10	\$ 40.00	\$ 400.00
B12	Concrete Curb	m	10	\$ 100.00	\$ 1,000.00
B13	Interlock Concrete Pavers	sq.m	0	\$ 100.00	\$ -
B14	Fine Grading, 200mm Topsoil & Sod	sq.m	20	\$ 25.00	\$ 500.00
B15	Fine Grading, 200mm Topsoil & Seed	sq.m	800	\$ 10.00	\$ 8,000.00
B16	Restoration, Tree Planting and Fence at 79 Sunnidale Road	LS	1	\$ 30,000.00	\$ 30,000.00
<b>Section C - Sanitary Sewers</b>					
C1	300mm Diameter PVC DR35 Sanitary Sewer (permanent)	m	210	\$ 500.00	\$ 105,000.00
C2	1200mm Diameter Precast Maintenacne Hole (permanent)	each	7	\$ 10,000.00	\$ 70,000.00
C3	Connect Existing Sewer to Proposed Maintenacne Hole	each	3	\$ 2,500.00	\$ 7,500.00
C4	1200mm Diameter Precast Maintenacne Hole (permanent) - 15m - 20m depth				
C5	North Shaft - 17m depth				
C6	South Shaft - 4m depth				
C7	Trenchless Sanitary Sewer (Using casing as sewer)				
C8	Residential Sanitary Laterals to Property Line	each	4	\$ 5,000.00	\$ 20,000.00
<b>Section D - Storm Drainage</b>					
D1	Swale Area Fill Placement				
D2	Kidds Creek Culvert Enclosure				
D3	Reinstate Spillway	sq.m	70	\$ 300.00	\$ 21,000.00
<b>Section E - Watermains</b>					
E1	Dam Safety Assessment	allowance	1	\$ 200,000.00	\$ 200,000.00
<b>Subtotal</b>					\$ 489,831.00
<b>Contingency - 35%</b>					\$ 171,440.85
<b>Miscellaneous (traffic control, fencing, etc) - 10%</b>					\$ 48,983.10
<b>Engineering/CA - 15%</b>					\$ 73,474.65
<b>Total</b>					<u>\$ 780,000.00</u>