

# APPENDIX F

## CONCEPTUAL COST ESTIMATE



Conceptual Cost Estimate for Hwy 15 FPS

North Twinning Option



Item	Unit	Unit Price	Estimated Quantity	Total Cost
<b>Grading</b>				
<b>Mainline Alignment</b>				
Common Excavation	m <sup>3</sup>	\$ 10.00	620,000	\$ 6,200,000.00
Minor Culverts	lump sum	\$ 100,000.00	2	\$ 200,000.00
Topsoil Placement	m <sup>2</sup>	\$ 2.00	330,000	\$ 660,000.00
Seeding	ha	\$ 3,000.00	33	\$ 99,000.00
<b>Service Roads</b>				
Common Excavation	m <sup>3</sup>	\$ 10.00	110,000	\$ 1,100,000.00
Minor Culverts	lump sum	\$ 100,000.00	2	\$ 200,000.00
Top Soil Placement	m <sup>2</sup>	\$ 2.00	157,000	\$ 314,000.00
Seeding	ha	\$ 3,000.00	16	\$ 48,000.00
<b>Grading - Sub Total =</b>				<b>\$ 8,821,000.00</b>
<b>Surfacing</b>				
ACP	tonnes	\$ 105.00	59,000	\$ 6,195,000.00
GBC	tonnes	\$ 32.00	133,000	\$ 4,256,000.00
Gravel	tonnes	\$ 32.00	3000	\$ 96,000.00
<b>Surfacing - Sub Total =</b>				<b>\$ 10,547,000.00</b>
<b>Land</b>				
<b>Right-of-Way</b>				
For Mainline	ha	\$ 25,000.00	38.20	\$ 955,000.00
For Service Roads				
North of Mainline	ha	\$ 25,000.00	7.7	\$ 192,500.00
South of Mainline	ha	\$ 8,000.00	13.1	\$ 104,800.00
<b>Impacted Properties</b>				
SE 27-55-21-4	each	\$ 650,000.00	1	\$ 650,000.00
SW 25-55-21-4	each	\$ 650,000.00	1	\$ 650,000.00
NE 24-55-21-4	each	\$ 650,000.00	1	\$ 650,000.00
<b>Land - Sub Total =</b>				<b>\$ 3,202,300.00</b>
<b>Utility Relocations</b>				
Pipelines < 200 mm	crossings	\$ 100,000.00	12	\$ 1,200,000.00
Pipelines 200 mm to 400 mm	crossings	\$ 200,000.00	5	\$ 1,000,000.00
Pipelines 400 mm to 700 mm	crossings	\$ 500,000.00	6	\$ 3,000,000.00
Pipelines > 700 mm	crossings	\$ 1,000,000.00	1	\$ 1,000,000.00
Raising ≥ 1 Power Lines	crossings	\$ 6,000.00	4	\$ 24,000.00
Relocations ≥ 1 Power Lines	km	\$ 20,000.00	1	\$ 20,000.00
Water Main Relocation	km	\$ 1,500,000.00	4.5	\$ 6,750,000.00
<b>Utility Relocations - Sub Total =</b>				<b>\$ 12,994,000.00</b>
<b>Site Remediation</b>				
Tempo Gas Station (Lot A, NW 22-55-21-4)	unit	\$ 3,000,000.00	1	\$ 3,000,000.00
<b>Site Remediation - Sub Total =</b>				<b>\$ 3,000,000.00</b>
<b>Signage</b>				
	lump sum	\$ 250,000.00	1	\$ 250,000.00
<b>Signage - Sub Total =</b>				<b>\$ 250,000.00</b>
<b>Signalization (2 Intersection @ \$/intersection)</b>				
	intersections	\$ 300,000.00	2	\$ 600,000.00
<b>Signalization - Sub Total =</b>				<b>\$ 600,000.00</b>

**Total = \$ 39,500,000.00**  
**Total (with CP Bridge included) = \$ 71,600,000.00**

Conceptual Cost Estimate for Hwy 15 FPS

South Twinning Option



Item	Unit	Unit Price	Estimated Quantity	Total Cost
<b>Grading</b>				
<b>Mainline Alignment</b>				
Common Excavation	m <sup>3</sup>	\$ 10.00	610,000	\$ 6,100,000.00
Minor Culverts	lump sum	\$ 100,000.00	2	\$ 200,000.00
Topsoil Placement	m <sup>2</sup>	\$ 2.00	216,000	\$ 432,000.00
Seeding	ha	\$ 3,000.00	22	\$ 66,000.00
<b>Service Roads</b>				
Common Excavation	m <sup>3</sup>	\$ 10.00	100,000	\$ 1,000,000.00
Minor Culverts	lump sum	\$ 100,000.00	2	\$ 200,000.00
Top Soil Placement	m <sup>2</sup>	\$ 2.00	170,000	\$ 340,000.00
Seeding	ha	\$ 3,000.00	17	\$ 51,000.00
<b>Grading - Sub Total =</b>				<b>\$ 8,389,000.00</b>
<b>Surfacing</b>				
ACP	tonnes	\$ 105.00	57,000	\$ 5,985,000.00
GBC	tonnes	\$ 32.00	130,000	\$ 4,160,000.00
Gravel	tonnes	\$ 32.00	3000	\$ 96,000.00
<b>Surfacing - Sub Total =</b>				<b>\$ 10,241,000.00</b>
<b>Land</b>				
<b>Right-of-Way</b>				
For Mainline	ha	\$ 8,000.00	27.7	\$ 221,600.00
For Service Roads				
North of Mainline	ha	\$ 25,000.00	7.5	\$ 187,500.00
South of Mainline	ha	\$ 8,000.00	12.6	\$ 100,800.00
<b>Impacted Properties</b>				
NW 23-55-21-4	each	\$ 650,000.00	1	\$ 650,000.00
NE 24-55-21-4	each	\$ 650,000.00	1	\$ 650,000.00
<b>Land - Sub Total =</b>				<b>\$ 1,809,900.00</b>
<b>Utility Relocations</b>				
Pipelines < 200 mm	crossings	\$ 100,000.00	17	\$ 1,700,000.00
Pipelines 200 mm to 400 mm	crossings	\$ 200,000.00	8	\$ 1,600,000.00
Pipelines 400 mm to 700 mm	crossings	\$ 500,000.00	5	\$ 2,500,000.00
Pipelines > 700 mm	crossings	\$ 1,000,000.00	1	\$ 1,000,000.00
Raising ≥ 1 Power Lines	crossings	\$ 6,000.00	3	\$ 18,000.00
Relocations ≥ 1 Power Lines	km	\$ 20,000.00	1	\$ 20,000.00
<b>Utility Relocations - Sub Total =</b>				<b>\$ 6,838,000.00</b>
<b>Site Remediation</b>				
Tempo Gas Station (Lot A, NW 22-55-21-4)	unit	\$ 3,000,000.00	1	\$ 3,000,000.00
<b>Site Remediation - Sub Total =</b>				<b>\$ 3,000,000.00</b>
<b>Signage</b>				
	lump sum	\$ 250,000.00	1	\$ 250,000.00
<b>Signage - Sub Total =</b>				<b>\$ 250,000.00</b>
<b>Signalization (2 Intersection @ \$/intersection)</b>				
	intersections	\$ 300,000.00	2	\$ 600,000.00
<b>Signalization - Sub Total =</b>				<b>\$ 600,000.00</b>

**Total = \$ 31,200,000.00**  
**Total (with CP Bridge included) = \$ 63,300,000.00**

Conceptual Cost Estimate for Hwy 15 FPS

Railroad Overpass



Item	Unit	Unit Price	Estimated Quantity	Total Cost
<b>Grading</b>				
Common Excavation	m <sup>3</sup>	\$ 10.00	1,940,000	\$ 19,400,000.00
ACP	tonnes	\$ 105.00	36000.00	\$ 3,780,000.00
GBC	tonnes	\$ 32.00	81000.00	\$ 2,592,000.00
<b>Grading - Sub Total =</b>				<b>\$ 25,772,000.00</b>
<b>Overpass Structure (2 bridges)</b>				
Bridge Structure	m <sup>2</sup>	\$ 5,000.00	2	\$ 6,300,000.00
<b>Overpass Structure - Sub Total =</b>				<b>\$ 6,300,000.00</b>

**Total = \$ 32,100,000.00**