PRELIMINARY OPTION A

OPTION LENGTH =	**2.255**	Km
BRIDGE LENGTH =	**0.509**	Km
VIADUCT LENGTH =	**0.119**	Km
ROAD LENGTH =	**1.597**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0.03**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 3**
2	**Investigation and Design**	**$ 5**
3	**Property Acquisition**	**$ 24**
4	**Public Utility Adjustments**	**$ 1**
5	**Construction**	
5.1	Roadworks	**$ 38**
5.2	Bridge over Clarence River	**$ 65**
5.3	Floodplain Viaduct	**$ 11**
5.4	Rail Overpass	**$ 4**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 5**
	Sub total	**$ 124**
6	**Handover**	**$ 1**
	TOTAL	**$ 158**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

PRELIMINARY OPTION B

OPTION LENGTH =	**2.349**	Km
BRIDGE LENGTH =	**0.545**	Km
VIADUCT LENGTH =	**0.354**	Km
ROAD LENGTH =	**1.42**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0.03**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 3**
2	**Investigation and Design**	**$ 6**
3	**Property Acquisition**	**$ 21**
4	**Public Utility Adjustments**	**$ 1**
5	**Construction**	
5.1	Roadworks	**$ 37**
5.2	Bridge over Clarence River	**$ 69**
5.3	Floodplain Viaduct	**$ 34**
5.4	Rail Overpass	**$ 4**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 6**
	Sub total	**$ 151**
6	**Handover**	**$ 1**
	TOTAL	**$ 184**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

PRELIMINARY OPTION C

OPTION LENGTH =	**4.361**	Km
BRIDGE LENGTH =	**0.4**	Km
VIADUCT LENGTH =	**0.226**	Km
ROAD LENGTH =	**3.705**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0.03**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 4**
2	**Investigation and Design**	**$ 7**
3	**Property Acquisition**	**$ 24**
4	**Public Utility Adjustments**	**$ 2**
5	**Construction**	
5.1	Roadworks	**$ 85**
5.2	Bridge over Clarence River	**$ 51**
5.3	Floodplain Viaduct	**$ 22**
5.4	Rail Overpass	**$ 4**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 6**
	Sub total	**$ 168**
6	**Handover**	**$ 2**
	TOTAL	**$ 206**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

PRELIMINARY OPTION D

OPTION LENGTH =	**4.24**	Km
BRIDGE LENGTH =	**0.4**	Km
VIADUCT LENGTH =	**0.5**	Km
ROAD LENGTH =	**3.34**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 4**
2	**Investigation and Design**	**$ 7**
3	**Property Acquisition**	**$ 38**
4	**Public Utility Adjustments**	**$ 2**
5	**Construction**	
5.1	Roadworks	**$ 80**
5.2	Bridge over Clarence River	**$ 51**
5.3	Floodplain Viaduct	**$ 48**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 7**
	Sub total	**$ 186**
6	**Handover**	**$ 2**
	TOTAL	**$ 239**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

PRELIMINARY OPTION E

OPTION LENGTH =	**1.637**	Km
BRIDGE LENGTH =	**0.624**	Km
VIADUCT LENGTH =	**0**	Km
ROAD LENGTH =	**0.983**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0.03**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 3**
2	**Investigation and Design**	**$ 5**
3	**Property Acquisition**	**$ 1**
4	**Public Utility Adjustments**	**$ 1**
5	**Construction**	
5.1	Roadworks	**$ 28**
5.2	Bridge over Clarence River	**$ 79**
5.3	Floodplain Viaduct	**$ -**
5.4	Rail Overpass	**$ 4**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 4**
	Sub total	**$ 116**
6	**Handover**	**$ 1**
	TOTAL	**$ 127**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

PRELIMINARY OPTION F

OPTION LENGTH =	**1.622**	Km
BRIDGE LENGTH =	**0.727**	Km
VIADUCT LENGTH =	**0**	Km
ROAD LENGTH =	**0.865**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0.03**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 3**
2	**Investigation and Design**	**$ 5**
3	**Property Acquisition**	**$ 0**
4	**Public Utility Adjustments**	**$ 1**
5	**Construction**	
5.1	Roadworks	**$ 25**
5.2	Bridge over Clarence River	**$ 92**
5.3	Floodplain Viaduct	**$ -**
5.4	Rail Overpass	**$ 4**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 5**
	Sub total	**$ 127**
6	**Handover**	**$ 1**
	TOTAL	**$ 138**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

PRELIMINARY OPTION G

OPTION LENGTH =	**2.822**	Km
BRIDGE LENGTH =	**0.48**	Km
VIADUCT LENGTH =	**0.25**	Km
ROAD LENGTH =	**2.062**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0.03**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 3**
2	**Investigation and Design**	**$ 6**
3	**Property Acquisition**	**$ 19**
4	**Public Utility Adjustments**	**$ 1**
5	**Construction**	
5.1	Roadworks	**$ 52**
5.2	Bridge over Clarence River	**$ 61**
5.3	Floodplain Viaduct	**$ 24**
5.4	Rail Overpass	**$ 4**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 5**
	Sub total	**$ 147**
6	**Handover**	**$ 1**
	TOTAL	**$ 178**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

PRELIMINARY OPTION H

OPTION LENGTH =	**3.334**	Km
BRIDGE LENGTH =	**0.415**	Km
VIADUCT LENGTH =	**0.43**	Km
ROAD LENGTH =	**2.459**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0.03**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 3**
2	**Investigation and Design**	**$ 6**
3	**Property Acquisition**	**$ 12**
4	**Public Utility Adjustments**	**$ 2**
5	**Construction**	
5.1	Roadworks	**$ 56**
5.2	Bridge over Clarence River	**$ 53**
5.3	Floodplain Viaduct	**$ 41**
5.4	Rail Overpass	**$ 4**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 6**
	Sub total	**$ 160**
6	**Handover**	**$ 2**
	TOTAL	**$ 185**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

PRELIMINARY OPTION I

OPTION LENGTH =	**2.002**	Km
BRIDGE LENGTH =	**0.412**	Km
VIADUCT LENGTH =	**0.613**	Km
ROAD LENGTH =	**0.977**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 3**
2	**Investigation and Design**	**$ 6**
3	**Property Acquisition**	**$ 36**
4	**Public Utility Adjustments**	**$ 1**
5	**Construction**	
5.1	Roadworks	**$ 32**
5.2	Bridge over Clarence River	**$ 52**
5.3	Floodplain Viaduct	**$ 58**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 6**
	Sub total	**$ 150**
6	**Handover**	**$ 1**
	TOTAL	**$ 197**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

PRELIMINARY OPTION J

OPTION LENGTH =	**3.622**	Km
BRIDGE LENGTH =	**0.405**	Km
VIADUCT LENGTH =	**0.59**	Km
ROAD LENGTH =	**2.627**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 4**
2	**Investigation and Design**	**$ 7**
3	**Property Acquisition**	**$ 1**
4	**Public Utility Adjustments**	**$ 2**
5	**Construction**	
5.1	Roadworks	**$ 69**
5.2	Bridge over Clarence River	**$ 51**
5.3	Floodplain Viaduct	**$ 56**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 7**
	Sub total	**$ 185**
6	**Handover**	**$ 2**
	TOTAL	**$ 201**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

PRELIMINARY OPTION K

OPTION LENGTH =	**4.215**	Km
BRIDGE LENGTH =	**0.45**	Km
VIADUCT LENGTH =	**0.805**	Km
ROAD LENGTH =	**2.96**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 5**
2	**Investigation and Design**	**$ 9**
3	**Property Acquisition**	**$ 1**
4	**Public Utility Adjustments**	**$ 2**
5	**Construction**	
5.1	Roadworks	**$ 92**
5.2	Bridge over Clarence River	**$ 57**
5.3	Floodplain Viaduct	**$ 77**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 9**
	Sub total	**$ 236**
6	**Handover**	**$ 2**
	TOTAL	**$ 256**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

PRELIMINARY OPTION L

OPTION LENGTH =	**4.008**	Km
BRIDGE LENGTH =	**0.62**	Km
VIADUCT LENGTH =	**1.09**	Km
ROAD LENGTH =	**2.298**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 6**
2	**Investigation and Design**	**$ 10**
3	**Property Acquisition**	**$ 1**
4	**Public Utility Adjustments**	**$ 3**
5	**Construction**	
5.1	Roadworks	**$ 64**
5.2	Bridge over Clarence River	**$ 79**
5.3	Floodplain Viaduct	**$ 104**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 10**
	Sub total	**$ 257**
6	**Handover**	**$ 3**
	TOTAL	**$ 279**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

PRELIMINARY OPTION M

OPTION LENGTH =	**5.666**	Km
BRIDGE LENGTH =	**0.867**	Km
VIADUCT LENGTH =	**1.313**	Km
ROAD LENGTH =	**3.486**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 8**
2	**Investigation and Design**	**$ 14**
3	**Property Acquisition**	**$ 3**
4	**Public Utility Adjustments**	**$ 3**
5	**Construction**	
5.1	Roadworks	**$ 98**
5.2	Bridge over Clarence River	**$ 110**
5.3	Floodplain Viaduct	**$ 125**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 13**
	Sub total	**$ 346**
6	**Handover**	**$ 3**
	TOTAL	**$ 378**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

COMMUNITY SUGGESTION 1

OPTION LENGTH =	**2.54**	Km
BRIDGE LENGTH =	**1.053**	Km
VIADUCT LENGTH =	**0.807**	Km
ROAD LENGTH =	**0.65**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0.03**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 6**
2	**Investigation and Design**	**$ 10**
3	**Property Acquisition**	**$ 3**
4	**Public Utility Adjustments**	**$ 3**
5	**Construction**	
5.1	Roadworks	**$ 33**
5.2	Bridge over Clarence River	**$ 134**
5.3	Floodplain Viaduct	**$ 77**
5.4	Rail Overpass	**$ 4**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 10**
	Sub total	**$ 258**
6	**Handover**	**$ 3**
	TOTAL	**$ 283**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

COMMUNITY SUGGESTION 2

OPTION LENGTH =	**3.371**	Km
BRIDGE LENGTH =	**1.827**	Km
VIADUCT LENGTH =	**0.444**	Km
ROAD LENGTH =	**1.07**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0.03**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 10**
2	**Investigation and Design**	**$ 18**
3	**Property Acquisition**	**$ 12**
4	**Public Utility Adjustments**	**$ 5**
5	**Construction**	
5.1	Roadworks	**$ 48**
5.2	Bridge over Clarence River	**$ 348**
5.3	Floodplain Viaduct	**$ 42**
5.4	Rail Overpass	**$ 4**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 17**
	Sub total	**$ 460**
6	**Handover**	**$ 5**
	TOTAL	**$ 509**

Note:
Bridge alignment not suitable for incrementally launched superstructure

COMMUNITY SUGGESTION 3

OPTION LENGTH =	**1.68**	Km
BRIDGE LENGTH =	**0.77**	Km
VIADUCT LENGTH =	**0**	Km
ROAD LENGTH =	**0.88**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0.03**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 4**
2	**Investigation and Design**	**$ 7**
3	**Property Acquisition**	**$ 5**
4	**Public Utility Adjustments**	**$ 2**
5	**Construction**	
5.1	Roadworks	**$ 30**
5.2	Bridge over Clarence River	**$ 147**
5.3	Floodplain Viaduct	**$ -**
5.4	Rail Overpass	**$ 4**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 7**
	Sub total	**$ 188**
6	**Handover**	**$ 2**
	TOTAL	**$ 208**

Note:
Bridge alignment not suitable for incrementally launched superstructure

COMMUNITY SUGGESTION 4

OPTION LENGTH =	**2.087**	Km
BRIDGE LENGTH =	**1.044**	Km
VIADUCT LENGTH =	**0**	Km
ROAD LENGTH =	**1.013**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0.03**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 5**
2	**Investigation and Design**	**$ 10**
3	**Property Acquisition**	**$ 2**
4	**Public Utility Adjustments**	**$ 2**
5	**Construction**	
5.1	Roadworks	**$ 36**
5.2	Bridge over Clarence River	**$ 199**
5.3	Floodplain Viaduct	**$ -**
5.4	Rail Overpass	**$ 4**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 9**
	Sub total	**$ 249**
6	**Handover**	**$ 2**
	TOTAL	**$ 271**

Note:
Bridge alignment not suitable for incrementally launched superstructure

COMMUNITY SUGGESTION 5

OPTION LENGTH =	**3.187**	Km
BRIDGE LENGTH =	**0.537**	Km
VIADUCT LENGTH =	**0.1**	Km
ROAD LENGTH =	**2.52**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0.03**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 3**
2	**Investigation and Design**	**$ 6**
3	**Property Acquisition**	**$ 18**
4	**Public Utility Adjustments**	**$ 2**
5	**Construction**	
5.1	Roadworks	**$ 64**
5.2	Bridge over Clarence River	**$ 68**
5.3	Floodplain Viaduct	**$ 10**
5.4	Rail Overpass	**$ 4**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 6**
	Sub total	**$ 152**
6	**Handover**	**$ 2**
	TOTAL	**$ 183**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

COMMUNITY SUGGESTION 6

OPTION LENGTH =	**2.695**	Km
BRIDGE LENGTH =	**0.406**	Km
VIADUCT LENGTH =	**0.136**	Km
ROAD LENGTH =	**2.083**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0.07**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 3**
2	**Investigation and Design**	**$ 5**
3	**Property Acquisition**	**$ 36**
4	**Public Utility Adjustments**	**$ 1**
5	**Construction**	
5.1	Roadworks	**$ 51**
5.2	Bridge over Clarence River	**$ 52**
5.3	Floodplain Viaduct	**$ 13**
5.4	Rail Overpass	**$ 9**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 5**
	Sub total	**$ 130**
6	**Handover**	**$ 1**
	TOTAL	**$ 177**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

COMMUNITY SUGGESTION 7

OPTION LENGTH =	**2.675**	Km
BRIDGE LENGTH =	**0.638**	Km
VIADUCT LENGTH =	**0.478**	Km
ROAD LENGTH =	**1.529**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0.03**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 4**
2	**Investigation and Design**	**$ 7**
3	**Property Acquisition**	**$ 20**
4	**Public Utility Adjustments**	**$ 2**
5	**Construction**	
5.1	Roadworks	**$ 46**
5.2	Bridge over Clarence River	**$ 81**
5.3	Floodplain Viaduct	**$ 45**
5.4	Rail Overpass	**$ 4**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 7**
	Sub total	**$ 184**
6	**Handover**	**$ 2**
	TOTAL	**$ 219**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

COMMUNITY SUGGESTION 8

OPTION LENGTH =	**2.649**	Km
BRIDGE LENGTH =	**0.563**	Km
VIADUCT LENGTH =	**0.119**	Km
ROAD LENGTH =	**1.837**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0.13**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 3**
2	**Investigation and Design**	**$ 6**
3	**Property Acquisition**	**$ 4**
4	**Public Utility Adjustments**	**$ 2**
5	**Construction**	
5.1	Roadworks	**$ 51**
5.2	Bridge over Clarence River	**$ 71**
5.3	Floodplain Viaduct	**$ 11**
5.4	Rail Overpass	**$ 17**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 6**
	Sub total	**$ 157**
6	**Handover**	**$ 2**
	TOTAL	**$ 174**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

COMMUNITY SUGGESTION 9

OPTION LENGTH =	**4.619**	Km
BRIDGE LENGTH =	**0.506**	Km
VIADUCT LENGTH =	**0.723**	Km
ROAD LENGTH =	**3.36**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0.03**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 5**
2	**Investigation and Design**	**$ 9**
3	**Property Acquisition**	**$ 4**
4	**Public Utility Adjustments**	**$ 2**
5	**Construction**	
5.1	Roadworks	**$ 80**
5.2	Bridge over Clarence River	**$ 64**
5.3	Floodplain Viaduct	**$ 69**
5.4	Rail Overpass	**$ 4**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 8**
	Sub total	**$ 226**
6	**Handover**	**$ 2**
	TOTAL	**$ 249**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

COMMUNITY SUGGESTION 10

OPTION LENGTH =	**4.362**	Km
BRIDGE LENGTH =	**0.414**	Km
VIADUCT LENGTH =	**0.897**	Km
ROAD LENGTH =	**3.051**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 5**
2	**Investigation and Design**	**$ 9**
3	**Property Acquisition**	**$ 2**
4	**Public Utility Adjustments**	**$ 2**
5	**Construction**	
5.1	Roadworks	**$ 78**
5.2	Bridge over Clarence River	**$ 53**
5.3	Floodplain Viaduct	**$ 85**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 8**
	Sub total	**$ 225**
6	**Handover**	**$ 2**
	TOTAL	**$ 246**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

COMMUNITY SUGGESTION 11

OPTION LENGTH =	**4.172**	Km
BRIDGE LENGTH =	**0.378**	Km
VIADUCT LENGTH =	**0.774**	Km
ROAD LENGTH =	**3.02**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 5**
2	**Investigation and Design**	**$ 8**
3	**Property Acquisition**	**$ 1**
4	**Public Utility Adjustments**	**$ 2**
5	**Construction**	
5.1	Roadworks	**$ 77**
5.2	Bridge over Clarence River	**$ 48**
5.3	Floodplain Viaduct	**$ 74**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 8**
	Sub total	**$ 207**
6	**Handover**	**$ 2**
	TOTAL	**$ 226**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

COMMUNITY SUGGESTION 12

OPTION LENGTH =	**5.56**	Km
BRIDGE LENGTH =	**0.446**	Km
VIADUCT LENGTH =	**1.514**	Km
ROAD LENGTH =	**3.6**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 7**
2	**Investigation and Design**	**$ 13**
3	**Property Acquisition**	**$ 1**
4	**Public Utility Adjustments**	**$ 3**
5	**Construction**	
5.1	Roadworks	**$ 109**
5.2	Bridge over Clarence River	**$ 57**
5.3	Floodplain Viaduct	**$ 144**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 12**
	Sub total	**$ 323**
6	**Handover**	**$ 3**
	TOTAL	**$ 351**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

COMMUNITY SUGGESTION 13

OPTION LENGTH =	**6.443**	Km
BRIDGE LENGTH =	**1.201**	Km
VIADUCT LENGTH =	**1.52**	Km
ROAD LENGTH =	**3.722**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 9**
2	**Investigation and Design**	**$ 16**
3	**Property Acquisition**	**$ 3**
4	**Public Utility Adjustments**	**$ 4**
5	**Construction**	
5.1	Roadworks	**$ 98**
5.2	Bridge over Clarence River	**$ 152**
5.3	Floodplain Viaduct	**$ 145**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 15**
	Sub total	**$ 411**
6	**Handover**	**$ 4**
	TOTAL	**$ 448**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

COMMUNITY SUGGESTION 14

OPTION LENGTH =	**5.835**	Km
BRIDGE LENGTH =	**0.871**	Km
VIADUCT LENGTH =	**1.262**	Km
ROAD LENGTH =	**3.702**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 8**
2	**Investigation and Design**	**$ 14**
3	**Property Acquisition**	**$ 1**
4	**Public Utility Adjustments**	**$ 3**
5	**Construction**	
5.1	Roadworks	**$ 100**
5.2	Bridge over Clarence River	**$ 111**
5.3	Floodplain Viaduct	**$ 120**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 13**
	Sub total	**$ 344**
6	**Handover**	**$ 3**
	TOTAL	**$ 373**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

COMMUNITY SUGGESTION 15

OPTION LENGTH =	**6.944**	Km
BRIDGE LENGTH =	**0.732**	Km
VIADUCT LENGTH =	**1.25**	Km
ROAD LENGTH =	**4.962**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 7**
2	**Investigation and Design**	**$ 13**
3	**Property Acquisition**	**$ 3**
4	**Public Utility Adjustments**	**$ 3**
5	**Construction**	
5.1	Roadworks	**$ 112**
5.2	Bridge over Clarence River	**$ 93**
5.3	Floodplain Viaduct	**$ 119**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 13**
	Sub total	**$ 337**
6	**Handover**	**$ 3**
	TOTAL	**$ 368**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

COMMUNITY SUGGESTION 16

OPTION LENGTH =	**7.105**	Km
BRIDGE LENGTH =	**1.1**	Km
VIADUCT LENGTH =	**1.28**	Km
ROAD LENGTH =	**4.725**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 8**
2	**Investigation and Design**	**$ 15**
3	**Property Acquisition**	**$ 4**
4	**Public Utility Adjustments**	**$ 4**
5	**Construction**	
5.1	Roadworks	**$ 113**
5.2	Bridge over Clarence River	**$ 140**
5.3	Floodplain Viaduct	**$ 122**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 14**
	Sub total	**$ 389**
6	**Handover**	**$ 4**
	TOTAL	**$ 425**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

COMMUNITY SUGGESTION 17

OPTION LENGTH =	**6.057**	Km
BRIDGE LENGTH =	**0.908**	Km
VIADUCT LENGTH =	**1.485**	Km
ROAD LENGTH =	**3.664**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 8**
2	**Investigation and Design**	**$ 15**
3	**Property Acquisition**	**$ 3**
4	**Public Utility Adjustments**	**$ 4**
5	**Construction**	
5.1	Roadworks	**$ 94**
5.2	Bridge over Clarence River	**$ 115**
5.3	Floodplain Viaduct	**$ 141**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 14**
	Sub total	**$ 365**
6	**Handover**	**$ 4**
	TOTAL	**$ 397**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

COMMUNITY SUGGESTION 18

OPTION LENGTH =	**5.805**	Km
BRIDGE LENGTH =	**0.936**	Km
VIADUCT LENGTH =	**1.331**	Km
ROAD LENGTH =	**3.538**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 8**
2	**Investigation and Design**	**$ 14**
3	**Property Acquisition**	**$ 5**
4	**Public Utility Adjustments**	**$ 4**
5	**Construction**	
5.1	Roadworks	**$ 99**
5.2	Bridge over Clarence River	**$ 119**
5.3	Floodplain Viaduct	**$ 127**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 13**
	Sub total	**$ 358**
6	**Handover**	**$ 4**
	TOTAL	**$ 392**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

COMMUNITY SUGGESTION 19

OPTION LENGTH =	**6.925**	Km
BRIDGE LENGTH =	**0.99**	Km
VIADUCT LENGTH =	**1.26**	Km
ROAD LENGTH =	**4.675**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 8**
2	**Investigation and Design**	**$ 15**
3	**Property Acquisition**	**$ 10**
4	**Public Utility Adjustments**	**$ 4**
5	**Construction**	
5.1	Roadworks	**$ 110**
5.2	Bridge over Clarence River	**$ 126**
5.3	Floodplain Viaduct	**$ 120**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 14**
	Sub total	**$ 371**
6	**Handover**	**$ 4**
	TOTAL	**$ 411**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

COMMUNITY SUGGESTION 20

OPTION LENGTH =	**6.729**	Km
BRIDGE LENGTH =	**0.988**	Km
VIADUCT LENGTH =	**1.423**	Km
ROAD LENGTH =	**4.318**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 9**
2	**Investigation and Design**	**$ 16**
3	**Property Acquisition**	**$ 2**
4	**Public Utility Adjustments**	**$ 4**
5	**Construction**	
5.1	Roadworks	**$ 115**
5.2	Bridge over Clarence River	**$ 125**
5.3	Floodplain Viaduct	**$ 135**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 15**
	Sub total	**$ 392**
6	**Handover**	**$ 4**
	TOTAL	**$ 426**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

COMMUNITY SUGGESTION 21

OPTION LENGTH =	**7.115**	Km
BRIDGE LENGTH =	**1.103**	Km
VIADUCT LENGTH =	**1.71**	Km
ROAD LENGTH =	**4.302**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 10**
2	**Investigation and Design**	**$ 17**
3	**Property Acquisition**	**$ 2**
4	**Public Utility Adjustments**	**$ 4**
5	**Construction**	
5.1	Roadworks	**$ 117**
5.2	Bridge over Clarence River	**$ 140**
5.3	Floodplain Viaduct	**$ 163**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 16**
	Sub total	**$ 437**
6	**Handover**	**$ 4**
	TOTAL	**$ 475**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

COMMUNITY SUGGESTION 22

OPTION LENGTH =	**6.913**	Km
BRIDGE LENGTH =	**1.04**	Km
VIADUCT LENGTH =	**1.615**	Km
ROAD LENGTH =	**4.258**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 9**
2	**Investigation and Design**	**$ 16**
3	**Property Acquisition**	**$ 6**
4	**Public Utility Adjustments**	**$ 4**
5	**Construction**	
5.1	Roadworks	**$ 105**
5.2	Bridge over Clarence River	**$ 132**
5.3	Floodplain Viaduct	**$ 154**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 15**
	Sub total	**$ 407**
6	**Handover**	**$ 4**
	TOTAL	**$ 446**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

COMMUNITY SUGGESTION 23

OPTION LENGTH =	**6.138**	Km
BRIDGE LENGTH =	**0.75**	Km
VIADUCT LENGTH =	**1.845**	Km
ROAD LENGTH =	**3.543**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 8**
2	**Investigation and Design**	**$ 15**
3	**Property Acquisition**	**$ 6**
4	**Public Utility Adjustments**	**$ 4**
5	**Construction**	
5.1	Roadworks	**$ 94**
5.2	Bridge over Clarence River	**$ 95**
5.3	Floodplain Viaduct	**$ 176**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 14**
	Sub total	**$ 379**
6	**Handover**	**$ 4**
	TOTAL	**$ 417**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

COMMUNITY SUGGESTION 24

OPTION LENGTH =	**6.887**	Km
BRIDGE LENGTH =	**0.829**	Km
VIADUCT LENGTH =	**2.5**	Km
ROAD LENGTH =	**3.558**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 10**
2	**Investigation and Design**	**$ 18**
3	**Property Acquisition**	**$ 4**
4	**Public Utility Adjustments**	**$ 5**
5	**Construction**	
5.1	Roadworks	**$ 100**
5.2	Bridge over Clarence River	**$ 105**
5.3	Floodplain Viaduct	**$ 238**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 17**
	Sub total	**$ 461**
6	**Handover**	**$ 5**
	TOTAL	**$ 503**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

COMMUNITY SUGGESTION 25

OPTION LENGTH =	**6.402**	Km
BRIDGE LENGTH =	**0.722**	Km
VIADUCT LENGTH =	**2.089**	Km
ROAD LENGTH =	**3.591**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 9**
2	**Investigation and Design**	**$ 16**
3	**Property Acquisition**	**$ 4**
4	**Public Utility Adjustments**	**$ 4**
5	**Construction**	
5.1	Roadworks	**$ 96**
5.2	Bridge over Clarence River	**$ 92**
5.3	Floodplain Viaduct	**$ 199**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 15**
	Sub total	**$ 403**
6	**Handover**	**$ 4**
	TOTAL	**$ 439**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

COMMUNITY SUGGESTION 26

OPTION LENGTH =	**6.842**	Km
BRIDGE LENGTH =	**0.591**	Km
VIADUCT LENGTH =	**2.186**	Km
ROAD LENGTH =	**4.065**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 9**
2	**Investigation and Design**	**$ 16**
3	**Property Acquisition**	**$ 4**
4	**Public Utility Adjustments**	**$ 4**
5	**Construction**	
5.1	Roadworks	**$ 105**
5.2	Bridge over Clarence River	**$ 75**
5.3	Floodplain Viaduct	**$ 208**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 15**
	Sub total	**$ 403**
6	**Handover**	**$ 4**
	TOTAL	**$ 440**

Note:
Incrementally launched superstructure on refined alignment assumed for bridge over Clarence River

COMMUNITY SUGGESTION 27

OPTION LENGTH =	**6.788**	Km
BRIDGE LENGTH =	**0.821**	Km
VIADUCT LENGTH =	**1.917**	Km
ROAD LENGTH =	**4.05**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 9**
2	**Investigation and Design**	**$ 16**
3	**Property Acquisition**	**$ 2**
4	**Public Utility Adjustments**	**$ 4**
5	**Construction**	
5.1	Roadworks	**$ 104**
5.2	Bridge over Clarence River	**$ 104**
5.3	Floodplain Viaduct	**$ 182**
5.4	Rail Overpass	**$ -**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 15**
	Sub total	**$ 407**
6	**Handover**	**$ 4**
	TOTAL	**$ 442**

Note:
Incrementally launched superstructure assumed for bridge over Clarence River

COMMUNITY SUGGESTION 28

OPTION LENGTH =	**1.68**	Km
BRIDGE LENGTH =	**0.676**	Km
VIADUCT LENGTH =	**0**	Km
ROAD LENGTH =	**0.974**	Km
FLYOVER LENGTH =	**0**	Km
RAIL OVERPASS LENGTH =	**0.03**	Km

No.	Section	Estimate (including contingency) ($Millions) ($2011)
1	**Project Development**	**$ 4**
2	**Investigation and Design**	**$ 7**
3	**Property Acquisition**	**$ 5**
4	**Public Utility Adjustments**	**$ 2**
5	**Construction**	
5.1	Roadworks	**$ 26**
5.2	Bridge over Clarence River	**$ 129**
5.3	Floodplain Viaduct	**$ -**
5.4	Rail Overpass	**$ 4**
5.5	Flood Mitigation	**$ 1**
5.6	Project Management and Insurance	**$ 6**
	Sub total	**$ 166**
6	**Handover**	**$ 2**
	TOTAL	**$ 184**

Note:
Bridge alignment not suitable for incrementally launched superstructure