

NORTH SHORE ROAD ESTIMATE - 15 MPH (PRIMITIVE PARK ROAD)

	Laurel Branch	Partial-Build Alternative to Bushnell ¹	Southern Option at Forney Creek Embayment ²	Northern Shore Corridor ³	Southern Option at Forney Creek Embayment ²	Southern Option at Hazel/Eagle Creek Embayments ⁴	Southern Option Crossing Fontana Dam ⁵
Total Cost⁶ (2004 Dollars)	N/A	\$86,949,000	\$7,129,000	\$325,129,000	\$7,160,000	\$34,843,000	-\$9,256,000
Total Cost (2006 Dollars)	N/A	\$92,244,000	\$7,563,000	\$344,929,000	\$7,596,000	\$36,965,000	-\$9,820,000

1. Includes Segments 8, 9, 11 (North at Forney Creek Embayment), and Lake View Road Rehabilitation
2. Reflects changes in cost for following Segment 10 (South at Forney Creek Embayment) rather than Segment 11
3. Includes Segments 1 (West to NC 28), 3, 5 (North at Hazel and Eagle Creeks), 7, 9, 11 (North at Forney Creek Embayment), and Lake View Road Rehabilitation
4. Reflects changes in cost for following Segments 4 and 6 (South at Hazel and Eagle Creek Embayments) rather than Segment 5
5. Reflects changes in cost for following Segment 2 (Southern Option Crossing Fontana Dam) rather than Segment 1
6. Includes seeding supplier costs of \$250,000 per year for each year of construction (5 or 15 years)

**NORTH SHORE ROAD ESTIMATE - 15 MPH (PRIMITIVE PARK ROAD)
(2004 DOLLARS)**

NORTH SHORE ROAD ESTIMATE - 15 MPH - SEGMENT 1

Desc.	Section	Item	Quantity	Unit	Unit Price	Total Cost
0001000000-E	200	CLEARING & GRUBBING	28	AC	\$10,000.00	\$278,528.12
0050000000-E	226	SUPPLEMENTARY CLEARING AND GRUBBING	3	AC	\$4,000.00	\$12,000.00
0022000000-E	225	UNCLASSIFIED EXCAVATION	100,689	CY	\$18.00	\$1,812,402.00
0106000000-E	230	BORROW EXCAVATION	0	CY	\$7.75	\$0.00
		MAJOR DRAINAGE STRUCTURES	1	LS	\$135,000.00	\$135,000.00
		MINOR DRAINAGE STRUCTURES	2.35	MILE	\$75,000.00	\$176,309.09
1489000000-E	610	ASPHALT CONCRETE BASE COURSE-TYPE B25.0B	0	TON	\$72.00	\$0.00
1525000000-E	610	ASPHALT CONCRETE SURFACE COURSE-TYPE SF9.5A	0	TON	\$68.00	\$0.00
1121000000-E	520	AGGREGATE BASE COURSE	15,590	TON	\$30.00	\$467,700.00
		AGGREGATE-TOPSOIL COURSE	9,700	SY	\$8.00	\$77,600.00
		GUARDRAIL - WOODEN	11,175	LF	\$92.30	\$1,031,452.50
		REVEGETATION	1	LS	\$237,347.73	\$237,347.73
		CRUSHED LIMESTONE	41,260	TON	\$26.50	\$1,093,390.00
		FILTER FABRIC	132,870	SY	\$5.50	\$730,785.00
		AG LIME	230	TON	\$100.00	\$23,000.00
2022000000-E	815	SUBDRAIN EXCAVATION	16,682	CY	\$10.26	\$171,156.74
2033000000-E	815	SUBDRAIN FINE AGGREGATE	12,511	CY	\$35.36	\$442,405.13
2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	74,473	LF	\$10.73	\$799,094.86
2055000000-E	815	6" SUBDRAIN PIPE WYES, TEES AND ELBOWS	2,234	EA	\$11.16	\$24,933.55
2066000000-N	815	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	149	EA	\$275.00	\$40,975.00
2077000000-E	815	6" OUTLET PIPE	894	LF	\$16.25	\$14,527.50
		EROSION CONTROL	2.35	MILE	\$125,000.00	\$293,848.48
		TUNNEL	0	LF	\$10,000.00	\$0.00
		VIADUCT	0	SF	\$300.00	\$0.00
		BRIDGE (MAJOR)	0	SF	\$500.00	\$0.00
		BRIDGE	0	SF	\$300.00	\$0.00
		RETAINING WALL	1,150	SF	\$80.00	\$92,000.00
		MISC. & MOB (35% RDY)	1	LS	\$2,751,859.49	\$2,751,859.49
		MISC. & MOB (35% STR & UTILITIES)	1	LS	\$32,200.00	\$32,200.00
		CONTRACT COST				\$10,738,515.19
		E. & C. (30%)				\$3,221,554.56
		CONSTRUCTION COST				\$13,960,069.75

NORTH SHORE ROAD ESTIMATE - 15 MPH - SEGMENT 2

Desc.	Section	Item	Quantity	Unit	Unit Price	Total Cost
0001000000-E	200	CLEARING & GRUBBING	9	AC	\$10,000.00	\$88,614.10
0050000000-E	226	SUPPLEMENTARY CLEARING AND GRUBBING	1	AC	\$4,000.00	\$4,000.00
0022000000-E	225	UNCLASSIFIED EXCAVATION	20,069	CY	\$18.00	\$361,242.00
0106000000-E	230	BORROW EXCAVATION	0	CY	\$7.75	\$0.00
		MAJOR DRAINAGE STRUCTURES	1.00	LS	\$0.00	\$0.00
		MINOR DRAINAGE STRUCTURES	0.76	MILE	\$75,000.00	\$56,665.63
1489000000-E	610	ASPHALT CONCRETE BASE COURSE-TYPE B25.0B	0	TON	\$72.00	\$0.00
1525000000-E	610	ASPHALT CONCRETE SURFACE COURSE-TYPE SF9.5A	0	TON	\$68.00	\$0.00
1121000000-E	520	AGGREGATE BASE COURSE	5,010	TON	\$30.00	\$150,300.00
		AGGREGATE-TOPSOIL COURSE	3,200	SY	\$8.00	\$25,600.00
		GUARDRAIL - WOODEN	3,600	LF	\$92.30	\$332,280.00
		REVEGETATION	1	LS	\$75,512.51	\$75,512.51
		CRUSHED LIMESTONE	6,930	TON	\$26.50	\$183,645.00
		FILTER FABRIC	22,310	SY	\$5.50	\$122,705.00
		AG LIME	20	TON	\$100.00	\$2,000.00
2022000000-E	815	SUBDRAIN EXCAVATION	5,362	CY	\$10.26	\$55,009.66
2033000000-E	815	SUBDRAIN FINE AGGREGATE	4,021	CY	\$35.36	\$142,188.72
2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	23,936	LF	\$10.73	\$256,828.56
2055000000-E	815	6" SUBDRAIN PIPE WYES, TEES AND ELBOWS	718	EA	\$11.16	\$8,013.63
2066000000-N	815	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	48	EA	\$275.00	\$13,200.00
2077000000-E	815	6" OUTLET PIPE	288	LF	\$16.25	\$4,680.00
		EROSION CONTROL	0.76	MILE	\$125,000.00	\$94,442.71
		TUNNEL	0	LF	\$10,000.00	\$0.00
		VIADUCT	0	SF	\$300.00	\$0.00
		BRIDGE (MAJOR)	0	SF	\$500.00	\$0.00
		BRIDGE	0	SF	\$300.00	\$0.00
		RETAINING WALL	8,795	SF	\$80.00	\$703,600.00
		MISC. & MOB (35% RDY)	1	LS	\$691,924.63	\$691,924.63
		MISC. & MOB (35% STR & UTILITIES)	1	LS	\$246,260.00	\$246,260.00
		CONTRACT COST				\$3,618,712.14
		E. & C. (30%)				\$1,085,613.64
		CONSTRUCTION COST				\$4,704,325.78

NORTH SHORE ROAD ESTIMATE - 15 MPH - SEGMENT 3

Desc.	Section	Item	Quantity	Unit	Unit Price	Total Cost
0001000000-E	200	CLEARING & GRUBBING	17	AC	\$10,000.00	\$168,364.09
0050000000-E	226	SUPPLEMENTARY CLEARING AND GRUBBING	2	AC	\$4,000.00	\$8,000.00
0022000000-E	225	UNCLASSIFIED EXCAVATION	67,025	CY	\$18.00	\$1,206,450.00
0106000000-E	230	BORROW EXCAVATION	0	CY	\$7.75	\$0.00
		MAJOR DRAINAGE STRUCTURES	1.00	LS	\$39,000.00	\$39,000.00
		MINOR DRAINAGE STRUCTURES	1.15	MILE	\$75,000.00	\$86,074.01
1489000000-E	610	ASPHALT CONCRETE BASE COURSE-TYPE B25.0B	0	TON	\$72.00	\$0.00
1525000000-E	610	ASPHALT CONCRETE SURFACE COURSE-TYPE SF9.5A	0	TON	\$68.00	\$0.00
1121000000-E	520	AGGREGATE BASE COURSE	7,880	TON	\$30.00	\$236,400.00
		AGGREGATE-TOPSOIL COURSE	4,800	SY	\$8.00	\$38,400.00
		GUARDRAIL - WOODEN	5,463	LF	\$92.30	\$504,188.75
		REVEGETATION	1	LS	\$143,471.46	\$143,471.46
		CRUSHED LIMESTONE	21,480	TON	\$26.50	\$569,220.00
		FILTER FABRIC	69,160	SY	\$5.50	\$380,380.00
		AG LIME	80	TON	\$100.00	\$8,000.00
2022000000-E	815	SUBDRAIN EXCAVATION	8,144	CY	\$10.26	\$83,558.63
2033000000-E	815	SUBDRAIN FINE AGGREGATE	6,108	CY	\$35.36	\$215,981.95
2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	36,358	LF	\$10.73	\$390,117.69
2055000000-E	815	6" SUBDRAIN PIPE WYES, TEES AND ELBOWS	1,091	EA	\$11.16	\$12,172.54
2066000000-N	815	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	73	EA	\$275.00	\$20,075.00
2077000000-E	815	6" OUTLET PIPE	438	LF	\$16.25	\$7,117.50
		EROSION CONTROL	1.15	MILE	\$125,000.00	\$143,456.68
		TUNNEL	0	LF	\$10,000.00	\$0.00
		VIADUCT	0	SF	\$300.00	\$0.00
		BRIDGE (MAJOR)	0	SF	\$500.00	\$0.00
		BRIDGE	0	SF	\$300.00	\$0.00
		RETAINING WALL	5,575	SF	\$80.00	\$446,000.00
		ELECTRIC (FOR RESTROOMS)	2.50	MILE	\$20,000.00	\$50,015.76
		RESTROOM	1	LS	\$40,000.00	\$40,000.00
		MISC. & MOB (35% RDY)	1	LS	\$1,491,149.91	\$1,491,149.91
		MISC. & MOB (35% STR & UTILITIES)	1	LS	\$187,605.52	\$187,605.52
		CONTRACT COST				\$6,475,199.48
		E. & C. (30%)				\$1,942,559.85
		CONSTRUCTION COST				\$8,417,759.33

NORTH SHORE ROAD ESTIMATE - 15 MPH - SEGMENT 4

Desc.	Section	Item	Quantity	Unit	Unit Price	Total Cost
0001000000-E	200	CLEARING & GRUBBING	80	AC	\$10,000.00	\$796,339.60
0050000000-E	226	SUPPLEMENTARY CLEARING AND GRUBBING	4	AC	\$4,000.00	\$16,000.00
0022000000-E	225	UNCLASSIFIED EXCAVATION	380,985	CY	\$18.00	\$6,857,721.67
0106000000-E	230	BORROW EXCAVATION	0	CY	\$7.75	\$0.00
		MAJOR DRAINAGE STRUCTURES	1.00	LS	\$14,000.00	\$14,000.00
		MINOR DRAINAGE STRUCTURES	5.77	MILE	\$75,000.00	\$432,779.83
1489000000-E	610	ASPHALT CONCRETE BASE COURSE-TYPE B25.0B	0	TON	\$72.00	\$0.00
1525000000-E	610	ASPHALT CONCRETE SURFACE COURSE-TYPE SF9.5A	0	TON	\$68.00	\$0.00
1121000000-E	520	AGGREGATE BASE COURSE	33,880	TON	\$30.00	\$1,016,400.00
		AGGREGATE-TOPSOIL COURSE	20,800	SY	\$8.00	\$166,400.00
		GUARDRAIL - WOODEN	24,075	LF	\$92.30	\$2,222,122.50
		REVEGETATION	1	LS	\$678,600.79	\$678,600.79
		CRUSHED LIMESTONE	113,880	TON	\$26.50	\$3,017,820.00
		FILTER FABRIC	366,740	SY	\$5.50	\$2,017,070.00
		AG LIME	420	TON	\$100.00	\$42,000.00
2022000000-E	815	SUBDRAIN EXCAVATION	40,949	CY	\$10.26	\$420,132.52
2033000000-E	815	SUBDRAIN FINE AGGREGATE	30,711	CY	\$35.36	\$1,085,956.57
2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	182,806	LF	\$10.73	\$1,961,510.53
2055000000-E	815	6" SUBDRAIN PIPE WYES, TEES AND ELBOWS	5,484	EA	\$11.16	\$61,203.52
2066000000-N	815	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	366	EA	\$275.00	\$100,650.00
2077000000-E	815	6" OUTLET PIPE	2,196	LF	\$16.25	\$35,685.00
		EROSION CONTROL	5.77	MILE	\$125,000.00	\$721,299.72
		TUNNEL	0	LF	\$10,000.00	\$0.00
		VIADUCT	0	SF	\$300.00	\$0.00
		BRIDGE (MAJOR)	111,780.00	SF	\$500.00	\$55,890,000.00
		BRIDGE	0	SF	\$300.00	\$0.00
		RETAINING WALL	131,808	SF	\$80.00	\$10,544,640.00
		MISC. & MOB (35% RDY)	1	LS	\$7,582,292.28	\$7,582,292.28
		MISC. & MOB (35% STR & UTILITIES)	1	LS	\$23,252,124.00	\$23,252,124.00
		CONTRACT COST				\$118,932,748.52
		E. & C. (30%)				\$35,679,824.56
		CONSTRUCTION COST				\$154,612,573.07

NORTH SHORE ROAD ESTIMATE - 15 MPH - SEGMENT 6

Desc.	Section	Item	Quantity	Unit	Unit Price	Total Cost
0001000000-E	200	CLEARING & GRUBBING	46	AC	\$10,000.00	\$458,214.15
0050000000-E	226	SUPPLEMENTARY CLEARING AND GRUBBING	3	AC	\$4,000.00	\$12,000.00
0022000000-E	225	UNCLASSIFIED EXCAVATION	191,899	CY	\$18.00	\$3,454,182.00
0106000000-E	230	BORROW EXCAVATION	0	CY	\$7.75	\$0.00
		MAJOR DRAINAGE STRUCTURES	1.00	LS	\$0.00	\$0.00
		MINOR DRAINAGE STRUCTURES	3.10	MILE	\$75,000.00	\$232,270.45
1489000000-E	610	ASPHALT CONCRETE BASE COURSE-TYPE B25.0B	0	TON	\$72.00	\$0.00
1525000000-E	610	ASPHALT CONCRETE SURFACE COURSE-TYPE SF9.5A	0	TON	\$68.00	\$0.00
1121000000-E	520	AGGREGATE BASE COURSE	20,820	TON	\$30.00	\$624,600.00
		AGGREGATE-TOPSOIL COURSE	12,800	SY	\$8.00	\$102,400.00
		GUARDRAIL - WOODEN	14,725	LF	\$92.30	\$1,359,117.50
		REVEGETATION	1	LS	\$390,467.19	\$390,467.19
		CRUSHED LIMESTONE	59,580	TON	\$26.50	\$1,578,870.00
		FILTER FABRIC	191,860	SY	\$5.50	\$1,055,230.00
		AG LIME	220	TON	\$100.00	\$22,000.00
2022000000-E	815	SUBDRAIN EXCAVATION	21,977	CY	\$10.26	\$225,482.72
2033000000-E	815	SUBDRAIN FINE AGGREGATE	16,483	CY	\$35.36	\$582,826.67
2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	98,111	LF	\$10.73	\$1,052,731.46
2055000000-E	815	6" SUBDRAIN PIPE WYES, TEES AND ELBOWS	2,943	EA	\$11.16	\$32,847.58
2066000000-N	815	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	197	EA	\$275.00	\$54,175.00
2077000000-E	815	6" OUTLET PIPE	1,182	LF	\$16.25	\$19,207.50
		EROSION CONTROL	3.10	MILE	\$125,000.00	\$387,117.42
		TUNNEL	0	LF	\$10,000.00	\$0.00
		VIADUCT	0	SF	\$300.00	\$0.00
		BRIDGE (MAJOR)	0	SF	\$500.00	\$0.00
		BRIDGE	0	SF	\$300.00	\$0.00
		RETAINING WALL	38,203	SF	\$80.00	\$3,056,224.00
		MISC. & MOB (35% RDY)	1	LS	\$4,075,308.87	\$4,075,308.87
		MISC. & MOB (35% STR & UTILITIES)	1	LS	\$1,069,678.40	\$1,069,678.40
		CONTRACT COST				\$19,844,950.91
		E. & C. (30%)				\$5,953,485.27
		CONSTRUCTION COST				\$25,798,436.19

NORTH SHORE ROAD ESTIMATE - 15 MPH - SEGMENT 7

Desc.	Section	Item	Quantity	Unit	Unit Price	Total Cost
0001000000-E	200	CLEARING & GRUBBING	164	AC	\$10,000.00	\$1,642,693.86
0050000000-E	226	SUPPLEMENTARY CLEARING AND GRUBBING	5	AC	\$4,000.00	\$20,000.00
0022000000-E	225	UNCLASSIFIED EXCAVATION	609,068	CY	\$18.00	\$10,963,224.00
0106000000-E	230	BORROW EXCAVATION	0	CY	\$7.75	\$0.00
		MAJOR DRAINAGE STRUCTURES	1.00	LS	\$283,000.00	\$283,000.00
		MINOR DRAINAGE STRUCTURES	11.86	MILE	\$75,000.00	\$889,535.23
1489000000-E	610	ASPHALT CONCRETE BASE COURSE-TYPE B25.0B	0	TON	\$72.00	\$0.00
1525000000-E	610	ASPHALT CONCRETE SURFACE COURSE-TYPE SF9.5A	0	TON	\$68.00	\$0.00
1121000000-E	520	AGGREGATE BASE COURSE	83,170	TON	\$30.00	\$2,495,100.00
		AGGREGATE-TOPSOIL COURSE	51,400	SY	\$8.00	\$411,200.00
		GUARDRAIL - WOODEN	59,400	LF	\$92.30	\$5,482,620.00
		REVEGETATION	1	LS	\$1,399,821.58	\$1,399,821.58
		CRUSHED LIMESTONE	208,100	TON	\$26.50	\$5,514,650.00
		FILTER FABRIC	670,200	SY	\$5.50	\$3,686,100.00
		AG LIME	760	TON	\$100.00	\$76,000.00
2022000000-E	815	SUBDRAIN EXCAVATION	84,166	CY	\$10.26	\$863,539.96
2033000000-E	815	SUBDRAIN FINE AGGREGATE	63,124	CY	\$35.36	\$2,232,074.05
2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	375,740	LF	\$10.73	\$4,031,686.77
2055000000-E	815	6" SUBDRAIN PIPE WYES, TEES AND ELBOWS	11,272	EA	\$11.16	\$125,797.64
2066000000-N	815	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	752	EA	\$275.00	\$206,800.00
2077000000-E	815	6" OUTLET PIPE	4,512	LF	\$16.25	\$73,320.00
		EROSION CONTROL	11.86	MILE	\$125,000.00	\$1,482,558.71
		TUNNEL	0	LF	\$10,000.00	\$0.00
		VIADUCT	0	SF	\$300.00	\$0.00
		BRIDGE (MAJOR)	0	SF	\$500.00	\$0.00
		BRIDGE	0	SF	\$300.00	\$0.00
		RETAINING WALL	56,531	SF	\$80.00	\$4,522,480.00
		RESTROOM (AT BEGINNING OF PROJECT)	1	LS	\$40,000.00	\$40,000.00
		MISC. & MOB (35% RDY)	1	LS	\$14,657,902.63	\$14,657,902.63
		MISC. & MOB (35% STR & UTILITIES)	1	LS	\$1,596,868.00	\$1,596,868.00
		CONTRACT COST				\$62,696,972.44
		E. & C. (30%)				\$18,809,091.73
		CONSTRUCTION COST				\$81,506,064.17

NORTH SHORE ROAD ESTIMATE - 15 MPH - SEGMENT 8

Desc.	Section	Item	Quantity	Unit	Unit Price	Total Cost
0001000000-E	200	CLEARING & GRUBBING	9	AC	\$10,000.00	\$87,003.74
0050000000-E	226	SUPPLEMENTARY CLEARING AND GRUBBING	1	AC	\$4,000.00	\$4,000.00
0022000000-E	225	UNCLASSIFIED EXCAVATION	226,460	CY	\$18.00	\$4,076,280.00
0106000000-E	230	BORROW EXCAVATION	0	CY	\$7.75	\$0.00
		MAJOR DRAINAGE STRUCTURES	1.00	LS	\$0.00	\$0.00
		MINOR DRAINAGE STRUCTURES	0.29	MILE	\$75,000.00	\$21,948.58
1489000000-E	610	ASPHALT CONCRETE BASE COURSE-TYPE B25.0B	0	TON	\$72.00	\$0.00
1525000000-E	610	ASPHALT CONCRETE SURFACE COURSE-TYPE SF9.5A	0	TON	\$68.00	\$0.00
1121000000-E	520	AGGREGATE BASE COURSE	1,950	TON	\$30.00	\$58,500.00
		AGGREGATE-TOPSOIL COURSE	1,300	SY	\$8.00	\$10,400.00
		GUARDRAIL - WOODEN	1,400	LF	\$92.30	\$129,220.00
		REVEGETATION	1	LS	\$74,140.24	\$74,140.24
		CRUSHED LIMESTONE	2,160	TON	\$26.50	\$57,240.00
		FILTER FABRIC	6,950	SY	\$5.50	\$38,225.00
		AG LIME	40	TON	\$100.00	\$4,000.00
2022000000-E	815	SUBDRAIN EXCAVATION	2,077	CY	\$10.26	\$21,307.17
2033000000-E	815	SUBDRAIN FINE AGGREGATE	1,558	CY	\$35.36	\$55,074.67
2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	9,271	LF	\$10.73	\$99,478.69
2055000000-E	815	6" SUBDRAIN PIPE WYES, TEES AND ELBOWS	278	EA	\$11.16	\$3,103.96
2066000000-N	815	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	19	EA	\$275.00	\$5,225.00
2077000000-E	815	6" OUTLET PIPE	114	LF	\$16.25	\$1,852.50
		EROSION CONTROL	0.29	MILE	\$125,000.00	\$36,580.97
		TUNNEL	0	LF	\$10,000.00	\$0.00
		VIADUCT	0	SF	\$300.00	\$0.00
		BRIDGE (MAJOR)	0	SF	\$500.00	\$0.00
		BRIDGE	0	SF	\$300.00	\$0.00
		RETAINING WALL	0	SF	\$80.00	\$0.00
		BUSHNELL RECREATION AREA	1	LS	\$2,959,525.00	\$2,959,525.00
		PHONE	8.03	MILE	\$1,000.00	\$8,025.06
		ELECTRIC	8.03	MILE	\$20,000.00	\$160,501.25
		MISC. & MOB (35% RDY)	1	LS	\$1,674,253.18	\$1,674,253.18
		MISC. & MOB (35% STR & UTILITIES)	1	LS	\$1,094,817.96	\$1,094,817.96
		CONTRACT COST				\$10,593,699.21
		E. & C. (30%)				\$3,178,109.76
		CONSTRUCTION COST				\$13,771,808.98

NORTH SHORE ROAD ESTIMATE - 15 MPH - SEGMENT 9

Desc.	Section	Item	Quantity	Unit	Unit Price	Total Cost
0001000000-E	200	CLEARING & GRUBBING	32	AC	\$10,000.00	\$324,814.60
0050000000-E	226	SUPPLEMENTARY CLEARING AND GRUBBING	3	AC	\$4,000.00	\$12,000.00
0022000000-E	225	UNCLASSIFIED EXCAVATION	148,599	CY	\$18.00	\$2,674,782.00
0106000000-E	230	BORROW EXCAVATION	0	CY	\$7.75	\$0.00
		MAJOR DRAINAGE STRUCTURES	1.00	LS	\$38,000.00	\$38,000.00
		MINOR DRAINAGE STRUCTURES	2.94	MILE	\$75,000.00	\$220,557.81
1489000000-E	610	ASPHALT CONCRETE BASE COURSE-TYPE B25.0B	0	TON	\$72.00	\$0.00
1525000000-E	610	ASPHALT CONCRETE SURFACE COURSE-TYPE SF9.5A	0	TON	\$68.00	\$0.00
1121000000-E	520	AGGREGATE BASE COURSE	15,550	TON	\$30.00	\$466,500.00
		AGGREGATE-TOPSOIL COURSE	9,500	SY	\$8.00	\$76,000.00
		GUARDRAIL - WOODEN	10,950	LF	\$92.30	\$1,010,685.00
		REVEGETATION	1	LS	\$276,790.76	\$276,790.76
		CRUSHED LIMESTONE	47,340	TON	\$26.50	\$1,254,510.00
		FILTER FABRIC	152,460	SY	\$5.50	\$838,530.00
		AG LIME	260	TON	\$100.00	\$26,000.00
2022000000-E	815	SUBDRAIN EXCAVATION	20,869	CY	\$10.26	\$214,112.36
2033000000-E	815	SUBDRAIN FINE AGGREGATE	15,651	CY	\$35.36	\$553,436.62
2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	93,164	LF	\$10.73	\$999,645.64
2055000000-E	815	6" SUBDRAIN PIPE WYES, TEES AND ELBOWS	2,795	EA	\$11.16	\$31,191.18
2066000000-N	815	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	187	EA	\$275.00	\$51,425.00
2077000000-E	815	6" OUTLET PIPE	1,122	LF	\$16.25	\$18,232.50
		EROSION CONTROL	2.94	MILE	\$125,000.00	\$367,596.35
		TUNNEL	0	LF	\$10,000.00	\$0.00
		VIADUCT	0	SF	\$300.00	\$0.00
		BRIDGE (MAJOR)	0	SF	\$500.00	\$0.00
		BRIDGE	0	SF	\$300.00	\$0.00
		RETAINING WALL	7,279	SF	\$80.00	\$582,320.00
		MISC. & MOB (35% RDY)	1	LS	\$3,309,183.44	\$3,309,183.44
		MISC. & MOB (35% STR & UTILITIES)	1	LS	\$203,812.00	\$203,812.00
		CONTRACT COST				\$13,550,125.26
		E. & C. (30%)				\$4,065,037.58
		CONSTRUCTION COST				\$17,615,162.84

NORTH SHORE ROAD ESTIMATE - 15 MPH - SEGMENT 10

Desc.	Section	Item	Quantity	Unit	Unit Price	Total Cost
0001000000-E	200	CLEARING & GRUBBING	42	AC	\$10,000.00	\$415,241.20
0050000000-E	226	SUPPLEMENTARY CLEARING AND GRUBBING	3	AC	\$4,000.00	\$12,000.00
0022000000-E	225	UNCLASSIFIED EXCAVATION	220,833	CY	\$18.00	\$3,974,995.33
0106000000-E	230	BORROW EXCAVATION	0	CY	\$7.75	\$0.00
		MAJOR DRAINAGE STRUCTURES	1.00	LS	\$25,000.00	\$25,000.00
		MINOR DRAINAGE STRUCTURES	3.30	MILE	\$75,000.00	\$247,578.55
1489000000-E	610	ASPHALT CONCRETE BASE COURSE-TYPE B25.0B	0	TON	\$72.00	\$0.00
1525000000-E	610	ASPHALT CONCRETE SURFACE COURSE-TYPE SF9.5A	0	TON	\$68.00	\$0.00
1121000000-E	520	AGGREGATE BASE COURSE	20,330	TON	\$30.00	\$609,900.00
		AGGREGATE-TOPSOIL COURSE	12,600	SY	\$8.00	\$100,800.00
		GUARDRAIL - WOODEN	14,575	LF	\$92.30	\$1,345,272.50
		REVEGETATION	1	LS	\$353,847.79	\$353,847.79
		CRUSHED LIMESTONE	44,890	TON	\$26.50	\$1,189,585.00
		FILTER FABRIC	144,580	SY	\$5.50	\$795,190.00
		AG LIME	250	TON	\$100.00	\$25,000.00
2022000000-E	815	SUBDRAIN EXCAVATION	23,425	CY	\$10.26	\$240,343.46
2033000000-E	815	SUBDRAIN FINE AGGREGATE	17,569	CY	\$35.36	\$621,238.65
2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	104,577	LF	\$10.73	\$1,122,113.14
2055000000-E	815	6" SUBDRAIN PIPE WYES, TEES AND ELBOWS	3,137	EA	\$11.16	\$35,012.44
2066000000-N	815	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	210	EA	\$275.00	\$57,750.00
2077000000-E	815	6" OUTLET PIPE	1,260	LF	\$16.25	\$20,475.00
		EROSION CONTROL	3.30	MILE	\$125,000.00	\$412,630.92
		TUNNEL	0	LF	\$10,000.00	\$0.00
		VIADUCT	0	SF	\$300.00	\$0.00
		BRIDGE (MAJOR)	37,200.00	SF	\$500.00	\$18,600,000.00
		BRIDGE	0	SF	\$300.00	\$0.00
		RETAINING WALL	7,903	SF	\$80.00	\$632,240.00
		MISC. & MOB (35% RDY)	1	LS	\$4,061,390.89	\$4,061,390.89
		MISC. & MOB (35% STR & UTILITIES)	1	LS	\$6,731,284.00	\$6,731,284.00
		CONTRACT COST				\$41,628,888.87
		E. & C. (30%)				\$12,488,666.66
		CONSTRUCTION COST				\$54,117,555.53

NORTH SHORE ROAD ESTIMATE - 15 MPH - REHAB. EAST ENTRANCE RD

Desc.	Section	Item	Quantity	Unit	Unit Price	Total Cost
0001000000-E	200	CLEARING & GRUBBING	0	AC	\$10,000.00	\$0.00
0050000000-E	226	SUPPLEMENTARY CLEARING AND GRUBBING	0	AC	\$4,000.00	\$0.00
0022000000-E	225	UNCLASSIFIED EXCAVATION (5% RECONSTRUCTION)	861	CY	\$20.00	\$17,217.49
0106000000-E	230	BORROW EXCAVATION	0	CY	\$7.75	\$0.00
		MAJOR DRAINAGE STRUCTURES	0.00	LS	\$80,000.00	\$0.00
		MINOR DRAINAGE STRUCTURES	0.00	MILE	\$75,000.00	\$0.00
1489000000-E	610	ASPHALT CONCRETE BASE COURSE-TYPE B25.0B	838	TON	\$72.00	\$60,342.80
1525000000-E	610	ASPHALT CONCRETE SURFACE COURSE-TYPE SF9.5A	10,067	TON	\$68.00	\$684,569.60
1121000000-E	520	AGGREGATE BASE COURSE	1,627	TON	\$30.00	\$48,811.59
		ASPHALT PAVEMENT MILLING, 2" DEPTH	77,440	SY	\$5.00	\$387,200.00
		GUARDRAIL - WOODEN	22,176	LF	\$100.00	\$2,217,600.00
		REVEGETATION	1	LS	\$24,251	\$24,250.91
		CRUSHED LIMESTONE	0	TON	\$26.50	\$0.00
		FILTER FABRIC	0	SY	\$5.50	\$0.00
		AG LIME	0	TON	\$100.00	\$0.00
2022000000-E	815	SUBDRAIN EXCAVATION	0	CY	\$10.26	\$0.00
2033000000-E	815	SUBDRAIN FINE AGGREGATE	0	CY	\$35.36	\$0.00
2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	0	LF	\$10.73	\$0.00
2055000000-E	815	6" SUBDRAIN PIPE WYES, TEES AND ELBOWS	0	EA	\$11.16	\$0.00
2066000000-N	815	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	0	EA	\$275.00	\$0.00
2077000000-E	815	6" OUTLET PIPE	0	LF	\$16.25	\$0.00
		EROSION CONTROL	0.00	MILE	\$125,000.00	\$0.00
		TUNNEL REHABILITATION	1	LS	\$750,000.00	\$750,000.00
		VIADUCT	0	SF	\$300.00	\$0.00
		BRIDGE (MAJOR)	0	SF	\$500.00	\$0.00
		BRIDGE	0	SF	\$300.00	\$0.00
		RETAINING WALL	0	SF	\$0.00	\$0.00
		MISC. & MOB (35% RDY)	1	LS	\$1,203,997.34	\$1,203,997.34
		MISC. & MOB (35% STR & UTILITIES)	1	LS	\$262,500.00	\$262,500.00
		CONTRACT COST				\$5,656,489.73
		E. & C. (30%)				\$1,696,946.92
		CONSTRUCTION COST				\$7,353,436.65