

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

ROADWAY VALUES (JUNE 1999 - JUNE 2000)

	Secondary				Primary			
	Rural			Urban	Rural		Urban	
	<i>Sur. Treat.</i>	<i>Paved</i>	<i>Aggre. Sur.</i>	<i>Paved</i>	<i>Asphalt</i>	<i>Concrete</i>	<i>Asphalt</i>	<i>Concrete</i>
Temporary Safety Items	6475.04	6475.04	6475.04	32699.47	37996.86	37996.86	23614.89	23614.89
Grading	65492.74	65492.74	65492.74	22052.77	46694.14	46694.14	19801.54	19801.54
Drainage	15849.63	15849.63	15849.63	77040.92	97142.97	97142.97	106828.85	106828.85
Pavement	85188.19	107951.05	58662.25	171983.06	410570.6	600606.82	322162.3	460854.6
Shoulders and Median	18671.83	18671.83	18671.83	61899.92	94589.93	66496.43	114494.8	114494.8
Roadside Development	35882.11	35882.11	35882.11	31471.23	32620.53	32620.53	45090.95	45090.95
Stormwater Management	0.00	0.00	0.00	0.00	2450	2450	4900	4900
Utilities	0.00	0.00	0.00	45731.62	94576.52	94576.52	81024.25	81024.25
Signals and Signs	3012.84	3012.84	3012.84	47791.80	9912.35	10064.51	117829.97	117829.97
Survey/Mobilization	26384.08	28335.99	24109.48	48687.52	77489.5	91389.13	78277.86	90170.72
Total Cost per Lane Mile:	\$ 256,956.46	\$ 281,671.23	\$ 228,155.92	\$ 539,358.31	\$ 904,043.40	\$ 1,080,037.91	\$ 914,025.41	\$ 1,064,610.57

	Interstate				
	Rural			Urban	
	<i>Asphalt</i>	<i>Concrete</i>		<i>Asphalt</i>	<i>Concrete</i>
Temporary Safety Items	29040.85	29040.85		10589.03	10589.03
Grading	319761.25	319761.25		319761.25	319761.25
Drainage	101629.61	101629.61		73073.85	73073.85
Pavement	899149.32	1034175.37		852234.52	965371.66
Shoulders and Median	43758.97	43758.97		207115.16	207115.16
Roadside Development	65790.56	65790.56		61251.2	61251.2
Stormwater Management	4900	4900		4900	4900
Utilities	27873.18	27873.18		28610.17	28610.17
Signals and Signs	61824.08	61824.08		378732.26	378732.26
Survey/Mobilization	382419.84	451958.25		579427.73	637693.37
Total Cost per Lane Mile:	\$ 1,936,147.66	\$ 2,140,712.12		\$ 2,515,695.17	\$ 2,687,097.95

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Secondary Rural - Aggre. Surface

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	1.35	\$13.50
Flagger Service	HR	\$10.78	503.04	\$5,422.77
Channelizing Devices	DAY	\$0.79	1314.9	\$1,038.77
Arrow Board, Message Board Composite	HR	\$6.23	0	\$0.00
Truck Mounted Attenuator	HR	\$15.94	0	\$0.00
Subtotal:				\$6,475.04

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	2.06	\$11,992.54
Regular Excavation	CY	\$11.40	4693	\$53,500.20
Subtotal:				\$65,492.74

Drainage Items				
Misc. Concrete	CY	\$923.71	2.48	\$2,290.80
15" Pipe	LF	\$22.02	134.16	\$2,954.20
18" Pipe	LF	\$51.44	88.59	\$4,557.07
36" Pipe	LF	\$89.64	25.7	\$2,303.75
48" Pipe	LF	\$106.67	5.64	\$601.62
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	0	\$0.00
Eros. Control Stone	TON	\$71.30	44.07	\$3,142.19
Paved Ditch	LF	\$35.05	0	\$0.00
Subtotal:				\$15,849.63

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Pavement Items				
Blotted Seal Coat Ty. D	SY	\$4.11	0	\$0.00
Cement Stabilized Aggre #21A	Ton	\$21.72	0	\$0.00
Aggr. No. 21B	Ton	\$22.11	2653.2	\$58,662.25
Asphalt Ty. SM-12.5	Ton	\$37.75	0	\$0.00
Asphalt Ty. IM-19.0	Ton	\$35.60	0	\$0.00
Asphalt Ty. BM-25.0	Ton	\$52.45	0	\$0.00
Concrete	SY		0	\$0.00
Underdrain UD-2, UD-4	LF	\$5.44	0	\$0.00
Pavement Markings (Composite)	LF	\$1.03	0	\$0.00
Raised Pavement Markers (Composite)	EA	\$40.68	0	\$0.00
Subtotal:				\$58,662.25

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	0	\$0.00
Concrete Curb and Gutter CG-6	LF	\$13.16	0	\$0.00
Concrete Curb	LF	\$11.67	0	\$0.00
Entrance Gutter	SY	\$48.41	0	\$0.00
Right Of Way Monuments	EA	\$84.75	2.63	\$222.89
Guardrail (Composite)	LF	\$13.70	468.15	\$6,413.66
Guardrail Terminals	EA	\$1,821.11	1.92	\$3,496.53
Median Barrier Walls	LF	\$60.28	0	\$0.00
Sound Barrier	SF	\$20.81	0	\$0.00
Fence (Composite)	LF	\$4.31	1567.74	\$6,756.96
Fence Line Braces	LF	\$282.17	3.42	\$965.02
Fence Corner Braces	LF	\$282.62	2.89	\$816.77
Subtotal:				\$18,671.83

Roadside Development				
Seeding (Composite)	LBS	\$13.23	387.9	\$5,131.92
Erosion Control Mulch	SY	\$0.61	0	\$0.00
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Planting (Composite)	EA	\$76.55	0	\$0.00
Watering	UNIT	\$71.80	0	\$0.00
Subtotal:				\$35,882.11

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Stormwater Management				
Stormwater Management Excavation	CY	\$4.90	0	\$0.00

Signals and Signs				
Sign Panels	SF	\$24.80	54.75	\$1,357.80
Sign Posts (Composite wood and steel)	LF	\$17.24	96	\$1,655.04
Intersection Signalization (Composite)	EA	\$0.00	0	\$0.00
Overhead Signing (Composite)	EA		0	\$0.00
Roadway Lighting (Composite)	EA		0	\$0.00
Traffic Management Systems	EA		0	\$0.00
Subtotal:				\$3,012.84

Utilities (Water and Sewer)				
Water Service Lines (Composite)	LF	\$20.61	0	\$0.00
Water Mains (Composite)	LF	\$37.47	0	\$0.00
Sewer Pipe (Composite)	LF	\$61.39	0	\$0.00
Subtotal:				\$0.00
Total:				\$204,046.44
add Surveying:				\$3,540.46
add Mobilization:				\$20,569.02

Estimated Cost per Lane Mile --

GRAND TOTAL: \$228,155.92

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Secondary Rural - Surface Treated

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	1.35	\$13.50
Flagger Service	HR	\$10.78	503.04	\$5,422.77
Channelizing Devices	DAY	\$0.79	1314.9	\$1,038.77
Arrow Board, Message Board Composite	HR	\$6.23	0	\$0.00
Truck Mounted Attenuator	HR	\$15.94	0	\$0.00
Subtotal:				\$6,475.04

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	2.06	\$11,992.54
Regular Excavation	CY	\$11.40	4693	\$53,500.20
Subtotal:				\$65,492.74

Drainage Items				
Misc. Concrete	CY	\$923.71	2.48	\$2,290.80
15" Pipe	LF	\$22.02	134.16	\$2,954.20
18" Pipe	LF	\$51.44	88.59	\$4,557.07
36" Pipe	LF	\$89.64	25.7	\$2,303.75
48" Pipe	LF	\$106.67	5.64	\$601.62
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	0	\$0.00
Eros. Control Stone	TON	\$71.30	44.07	\$3,142.19
Paved Ditch	LF	\$35.05	0	\$0.00
Subtotal:				\$15,849.63

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Secondary Rural - Surface Treated

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$4.11	6454	\$26,525.94
Cement Stabilized Aggre #21A	Ton	\$21.72	0	\$0.00
Aggr. No. 21B	Ton	\$22.11	2653.2	\$58,662.25
Asphalt Ty. SM-12.5	Ton	\$37.75	0	\$0.00
Asphalt Ty. IM-19.0	Ton	\$35.60	0	\$0.00
Asphalt Ty. BM-25.0	Ton	\$52.45	0	\$0.00
Concrete	SY		0	\$0.00
Underdrain UD-2, UD-4	LF	\$5.44	0	\$0.00
Pavement Markings (Composite)	LF	\$1.03	0	\$0.00
Raised Pavement Markers (Composite)	EA	\$40.68	0	\$0.00
Subtotal:				\$85,188.19

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	0	\$0.00
Concrete Curb and Gutter CG-6	LF	\$13.16	0	\$0.00
Concrete Curb	LF	\$11.67	0	\$0.00
Entrance Gutter	SY	\$48.41	0	\$0.00
Right Of Way Monuments	EA	\$84.75	2.63	\$222.89
Guardrail (Composite)	LF	\$13.70	468.15	\$6,413.66
Guardrail Terminals	EA	\$1,821.11	1.92	\$3,496.53
Median Barrier Walls	LF	\$60.28	0	\$0.00
Sound Barrier	SF	\$20.81	0	\$0.00
Fence (Composite)	LF	\$4.31	1567.74	\$6,756.96
Fence Line Braces	LF	\$282.17	3.42	\$965.02
Fence Corner Braces	LF	\$282.62	2.89	\$816.77
Subtotal:				\$18,671.83

Roadside Development				
Seeding (Composite)	LBS	\$13.23	387.9	\$5,131.92
Erosion Control Mulch	SY	\$0.61	0	\$0.00
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Planting (Composite)	EA	\$76.55	0	\$0.00
Watering	UNIT	\$71.80	0	\$0.00
Subtotal:				\$35,882.11

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Secondary Rural - Surface Treated

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Stormwater Management				
Stormwater Management Excavation	CY	\$4.90	0	\$0.00

Signals and Signs				
Sign Panels	SF	\$24.80	54.75	\$1,357.80
Sign Posts (Composite wood and steel)	LF	\$17.24	96	\$1,655.04
Intersection Signalization (Composite)	EA	\$0.00	0	\$0.00
Overhead Signing (Composite)	EA		0	\$0.00
Roadway Lighting (Composite)	EA		0	\$0.00
Traffic Management Systems	EA		0	\$0.00
Subtotal:				\$3,012.84

Utilities (Water and Sewer)				
Water Service Lines (Composite)	LF	\$20.61	0	\$0.00
Water Mains (Composite)	LF	\$37.47	0	\$0.00
Sewer Pipe (Composite)	LF	\$61.39	0	\$0.00
Subtotal:				\$0.00
Total:				\$230,572.38
add Surveying:				\$3,805.72
add Mobilization:				\$22,578.36

Estimated Cost per Lane Mile --

GRAND TOTAL: \$256,956.46

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Secondary Rural - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	1.35	\$13.50
Flagger Service	HR	\$10.78	503.04	\$5,422.77
Channelizing Devices	DAY	\$0.79	1314.9	\$1,038.77
Arrow Board, Message Board	HR	\$6.23	0	\$0.00
Truck Mounted Attenuator	HR	\$15.94	0	\$0.00
Subtotal:				\$6,475.04

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	2.06	\$11,992.54
Regular Excavation	CY	\$11.40	4693	\$53,500.20
Subtotal:				\$65,492.74

Drainage Items				
Misc. Concrete	CY	\$923.71	2.48	\$2,290.80
15" Pipe	LF	\$22.02	134.16	\$2,954.20
18" Pipe	LF	\$51.44	88.59	\$4,557.07
36" Pipe	LF	\$89.64	25.7	\$2,303.75
48" Pipe	LF	\$106.67	5.64	\$601.62
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	0	\$0.00
Eros. Control Stone	TON	\$71.30	44.07	\$3,142.19
Paved Ditch	LF	\$35.05	0	\$0.00
Subtotal:				\$15,849.63

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Secondary Rural - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	0	\$0.00
Cement Stabilized Aggre #21A	Ton	\$21.72	0	\$0.00
Aggr. No. 21B	Ton	\$22.11	2653.2	\$58,662.25
Asphalt Ty. SM-12.5	Ton	\$37.75	1161.6	\$43,850.40
Asphalt Ty. IM-19.0	Ton	\$35.60	0	\$0.00
Asphalt Ty. BM-25.0	Ton	\$52.45	0	\$0.00
Concrete	SY		0	\$0.00
Underdrain (Composite)	LF	\$5.44	0	\$0.00
Pavement Markings (Composite)	LF	\$1.03	5280	\$5,438.40
Raised Pavement Markers (Composite)	EA	\$40.68	0	\$0.00
Subtotal:				\$107,951.05

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$ 44.10	0	\$0.00
Concrete Curb and Gutter CG-6	LF	\$ 13.16	0	\$0.00
Concrete Curb	LF	\$ 11.67	0	\$0.00
Entrance Gutter	SY	\$ 48.41	0	\$0.00
Right Of Way Monuments	EA	\$ 84.75	2.63	\$222.89
Guardrail (Composite)	LF	\$ 13.70	468.15	\$6,413.66
Guardrail Terminals	EA	\$ 1,821.11	1.92	\$3,496.53
Median Barrier Walls	LF	\$ 60.28	0	\$0.00
Sound Barrier	SF	\$ 20.81	0	\$0.00
Fence (Composite)	LF	\$ 4.31	1567.74	\$6,756.96
Fence Line Braces	EA	\$ 282.17	3.42	\$965.02
Fence Corner Braces	EA	\$ 282.62	2.89	\$816.77
Subtotal:				\$18,671.83

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Secondary Rural - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Roadside Development				
Seeding (Composite)	LBS	\$13.23	387.9	\$5,131.92
Erosion Control Mulch	SY	\$0.61	0	\$0.00
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Planting (Composite)	EA	\$76.55	0	\$0.00
Watering	UNIT	\$71.80	0	\$0.00
Subtotal:				\$35,882.11

Stormwater Management				
Stormwater Management Excavation	CY		0	\$0.00

Signals and Signs				
Sign Panels	SF	\$24.80	54.75	\$1,357.80
Sign Posts (Composite wood and steel)	LF	\$17.24	96	\$1,655.04
Intersection Signalization (Composite)	EA		0	\$0.00
Overhead Signing (Composite)	EA		0	\$0.00
Roadway Lighting (Composite)	EA		0	\$0.00
Traffic Management Systems	EA		0	\$0.00
Subtotal:				\$3,012.84

Utilities (Water and Sewer)				
Water Service Lines (Composite)	LF	\$20.61	0	\$0.00
Water Mains (Composite)	LF	\$37.47	0	\$0.00
Sewer Pipe (Composite)	LF	\$61.39	0	\$0.00
Subtotal:				\$0.00
Total:				\$253,335.24
add Surveying:				\$4,033.35
add Mobilization:				\$24,302.64

Estimated Cost per Lane Mile --

GRAND TOTAL: \$281,671.24

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Secondary Urban - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	383.73	\$3,837.30
Flagger Service	HR	\$10.78	1324.72	\$14,280.48
Channelizing Devices	DAY	\$0.79	13348.44	\$10,545.27
Arrow Board, Message Board	HR	\$6.23	647.9	\$4,036.42
Truck Mounted Attenuator	HR	\$15.94	0	\$0.00
Subtotal:				\$32,699.47

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	1.636	\$9,524.17
Regular Excavation	CY	\$11.40	1099	\$12,528.60
Subtotal:				\$22,052.77

Drainage Items				
Misc. Concrete	CY	\$923.71	8.48	\$7,833.06
15" Pipe	LF	\$22.02	589.57	\$12,982.33
18" Pipe	LF	\$51.44	265.23	\$13,643.43
36" Pipe	LF	\$89.64	141.25	\$12,661.65
48" Pipe	LF	\$106.67	100.27	\$10,695.80
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	7.42	\$15,856.99
Eros. Control Stone	TON	\$71.30	41.52	\$2,960.38
Paved Ditch	LF	\$35.05	11.62	\$407.28
Subtotal:				\$77,040.92

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Secondary Urban - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	0	\$0.00
Cement Stabilized Aggre #21A	Ton	\$21.72	0	\$0.00
Aggr. No. 21B	Ton	\$22.11	5306.4	\$117,324.50
Asphalt Ty. SM-12.5	Ton	\$37.75	1161.6	\$43,850.40
Asphalt Ty. IM-19.0	Ton	\$35.60	0	\$0.00
Asphalt Ty. BM-25.0	Ton	\$52.45	0	\$0.00
Concrete	SY		0	\$0.00
Underdrain (Composite)	LF	\$5.44	0	\$0.00
Pavement Markings (Composite)	LF	\$1.03	5280	\$5,438.40
Raised Pavement Markers (Composite)	EA	\$40.68	132	\$5,369.76

Subtotal: \$171,983.06

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	60	\$2,646.00
Concrete Curb and Gutter CG-6	LF	\$13.16	4128	\$54,324.48
Concrete Curb	LF	\$11.67	0	\$0.00
Entrance Gutter	SY	\$48.41	0	\$0.00
Right Of Way Monuments	EA	\$84.75	15.81	\$1,339.90
Guardrail (Composite)	LF	\$13.70	134.4	\$1,841.28
Guardrail Terminals	EA	\$1,821.11	0.96	\$1,748.27
Median Barrier Walls	LF	\$60.28	0	\$0.00
Sound Barrier	SF	\$20.81	0	\$0.00
Fence (Composite)	LF	\$4.31	0	\$0.00
Fence Line Braces	EA	\$282.17	0	\$0.00
Fence Corner Braces	EA	\$282.62	0	\$0.00

Subtotal: \$61,899.92

Roadside Development				
Seeding (Composite)	LBS	\$13.23	54.5	\$721.04
Erosion Control Mulch	SY	\$0.61	0	\$0.00
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Planting (Composite)	EA	\$76.55	0	\$0.00
Watering	UNIT	\$71.80	0	\$0.00

Subtotal: \$31,471.23

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Secondary Urban - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Stormwater Management				
Stormwater Management Excavation	CY	\$4.90		\$0.00

Signals and Signs				
Sign Panels	SF	\$24.80	411	\$10,192.80
Sign Posts (Composite wood and steel)	LF	\$17.24	324	\$5,585.76
Intersection Signalization (Composite)	EA	\$17,925.45	0.125	\$2,240.68
Overhead Signing (Composite)	EA		0	\$0.00
Roadway Lighting (Composite)	EA	\$7,443.14	4	\$29,772.56
Traffic Management Systems	EA		0	\$0.00
Subtotal:				\$47,791.80

Utilities (Water and Sewer)				
Water Service Lines (Composite)	LF	\$20.61	95.55	\$1,969.29
Water Mains (Composite)	LF	\$37.47	601.33	\$22,531.84
Sewer Pipe (Composite)	LF	\$61.39	345.83	\$21,230.50
Subtotal:				\$45,731.62
Total:				\$490,670.79
add Surveying:				\$6,406.71
add Mobilization:				\$42,280.81

Estimated Cost per Lane Mile --

GRAND TOTAL: \$539,358.31

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Rural - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	1498.79	\$14,987.90
Flagger Service	HR	\$10.78	582.12	\$6,275.25
Channelizing Devices	DAY	\$0.79	12304.38	\$9,720.46
Arrow Board, Message Board	HR	\$6.23	1120.63	\$6,981.52
Truck Mounted Attenuator	HR	\$15.94	1.99	\$31.72
Subtotal:				\$37,996.86

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	2.06	\$11,992.54
Regular Excavation	CY	\$11.40	3044	\$34,701.60
Subtotal:				\$46,694.14

Drainage Items				
Misc. Concrete	CY	\$923.71	21.34	\$19,711.97
15" Pipe	LF	\$22.02	539.21	\$11,873.40
18" Pipe	LF	\$51.44	561.48	\$28,882.53
36" Pipe	LF	\$89.64	14.95	\$1,340.12
48" Pipe	LF	\$106.67	150.96	\$16,102.90
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	12.62	\$26,969.70
Eros. Control Stone	TON	\$71.30	128.38	\$9,153.49
Paved Ditch	LF	\$35.05	80.48	\$2,820.82
Subtotal:				\$97,142.97

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Rural - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	5866.7	\$75,445.76
Cement Stabilized Aggre #21A	Ton	\$21.72	2574	\$55,907.28
Aggr. No. 21B	Ton	\$22.11	4752	\$105,066.72
Asphalt Ty. SM-12.5	Ton	\$37.75	1226.1	\$46,285.28
Asphalt Ty. IM-19.0	Ton	\$35.60	774.4	\$27,568.64
Asphalt Ty. BM-25.0	Ton	\$52.45	1548.8	\$81,234.56
Concrete	SY		0	\$0.00
Underdrain (Composite)	LF	\$5.44	2640	\$14,361.60
Pavement Markings (Composite)	LF	\$1.03	3300	\$3,399.00
Raised Pavement Markers (Composite)	EA	\$40.68	32	\$1,301.76
			Subtotal:	\$410,570.60

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	64	\$2,822.40
Concrete Curb and Gutter CG-6	LF	\$13.16	0	\$0.00
Concrete Curb	LF	\$11.67	0	\$0.00
Entrance Gutter	SY	\$48.41	11	\$532.51
Right Of Way Monuments	EA	\$84.75	5.72	\$484.77
Guardrail (Composite)	LF	\$13.70	1628.37	\$22,308.67
Guardrail Terminals	EA	\$1,821.11	19.2	\$34,965.31
Median Barrier Walls	LF	\$60.28	0	\$0.00
Sound Barrier	SF	\$20.81	1350	\$28,093.50
Fence (Composite)	LF	\$4.31	860.95	\$3,710.69
Fence Line Braces	EA	\$282.17	2.3	\$648.99
Fence Corner Braces	EA	\$282.62	3.62	\$1,023.08
			Subtotal:	\$94,589.93

Roadside Development				
Seeding (Composite)	LBS	\$13.23	67	\$886.41
Erosion Control Mulch	SY	\$0.61	1613	\$983.93
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Planting (Composite)	EA	\$76.55	0	\$0.00
Watering	UNIT	\$71.80	0	\$0.00
			Subtotal:	\$32,620.53

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Rural - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
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Stormwater Management

Stormwater Management Excavation	CY	\$4.90	500	\$2,450.00
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Signals and Signs

Sign Panels	SF	\$24.80	154.75	\$3,837.80
Sign Posts (Composite wood and steel)	LF	\$17.24	240	\$4,137.60
Intersection Signalization (Composite)	EA	\$38,738.90	0.05	\$1,936.95
Overhead Signing (Composite)	EA		0	\$0.00
Roadway Lighting (Composite)	EA		0	\$0.00
Traffic Management System	EA	\$0.00	0	\$0.00

Subtotal: \$9,912.35

Utilities (Water and Sewer)

Water Service Lines (Composite)	LF	\$22.10	290	\$6,409.00
Water Mains (Composite)	LF	\$49.87	1237	\$61,689.19
Sewer Pipe (Composite)	LF	\$46.21	573	\$26,478.33

Subtotal: \$94,576.52

Total: \$826,553.89

add Surveying: \$9,765.54

add Mobilization: \$67,723.96

Estimated Cost per Lane Mile --

GRAND TOTAL: \$904,043.39

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Rural - Concrete Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	1498.79	\$14,987.90
Flagger Service	HR	\$10.78	582.12	\$6,275.25
Channelizing Devices	DAY	\$0.79	12304.38	\$9,720.46
Arrow Board, Message Board	HR	\$6.23	1120.63	\$6,981.52
Truck Mounted Attenuator	HR	\$15.94	1.99	\$31.72
Subtotal:				\$37,996.86

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	2.06	\$11,992.54
Regular Excavation	CY	\$11.40	3044	\$34,701.60
Subtotal:				\$46,694.14

Drainage Items				
Misc. Concrete	CY	\$923.71	21.34	\$19,711.97
15" Pipe	LF	\$22.02	539.21	\$11,873.40
18" Pipe	LF	\$51.44	561.48	\$28,882.53
36" Pipe	LF	\$89.64	14.95	\$1,340.12
48" Pipe	LF	\$106.67	150.96	\$16,102.90
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	12.62	\$26,969.70
Eros. Control Stone	TON	\$71.30	128.38	\$9,153.49
Paved Ditch	LF	\$35.05	80.48	\$2,820.82
Subtotal:				\$97,142.97

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Rural - Concrete Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	5866.7	\$75,445.76
Cement Stabilized Aggre #21A	Ton	\$21.72	3432	\$74,543.04
Aggr. No. 21B	Ton	\$22.11	2178	\$48,155.58
Asphalt Ty. SM-12.5	Ton	\$37.75	645.3	\$24,360.08
Asphalt Ty. IM-19.0	Ton	\$35.60	0	\$0.00
Asphalt Ty. BM-25.0	Ton	\$52.45	0	\$0.00
Concrete	SY	\$51.00	7040	\$359,040.00
Underdrain (Composite)	LF	\$5.44	2640	\$14,361.60
Pavement Markings (Composite)	LF	\$1.03	3300	\$3,399.00
Raised Pavement Markers (Composite)	EA	\$40.68	32	\$1,301.76
Subtotal:				\$600,606.82

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	64	\$2,822.40
Concrete Curb and Gutter CG-6	LF	\$13.16	0	\$0.00
Concrete Curb	LF	\$11.67	0	\$0.00
Entrance Gutter	SY	\$48.41	11	\$532.51
Right Of Way Monuments	EA	\$84.75	5.72	\$484.77
Guardrail (Composite)	LF	\$13.70	1628.37	\$22,308.67
Guardrail Terminals	EA	\$1,821.11	19.2	\$34,965.31
Median Barrier Walls	LF	\$60.28	0	\$0.00
Sound Barrier	SF	\$20.81	0	\$0.00
Fence (Composite)	LF	\$4.31	860.95	\$3,710.69
Fence Line Braces	EA	\$282.17	2.3	\$648.99
Fence Corner Braces	EA	\$282.62	3.62	\$1,023.08
Subtotal:				\$66,496.43

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Rural - Concrete Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
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Roadside Development				
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Seeding (Composite)	LBS	\$13.23	67	\$886.41
Erosion Control Mulch	SY	\$0.61	1613	\$983.93
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Planting (Composite)	EA	\$76.55	0	\$0.00
Watering	UNIT	\$71.80	0	\$0.00

Subtotal: \$32,620.53

Stormwater Management				
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Stormwater Management Excavation	CY	\$4.90	500	\$2,450.00
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Signals and Signs				
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Sign Panels	SF	\$24.80	154.75	\$3,837.80
Sign Posts (Composite wood and steel)	LF	\$7.25	240	\$1,740.00
Intersection Signalization (Composite)	EA	\$89,734.26	0.05	\$4,486.71
Overhead Signing (Composite)	EA		0	\$0.00
Roadway Lighting (Composite)	EA		0	\$0.00
Traffic Management System	EA		0	\$0.00

Subtotal: \$10,064.51

Utilities (Water and Sewer)				
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Water Service Lines (Composite)	LF	\$22.10	290	\$6,409.00
Water Mains (Composite)	LF	\$49.87	1237	\$61,689.19
Sewer Pipe (Composite)	LF	\$46.21	573	\$26,478.33

Subtotal: \$94,576.52

Total: \$988,648.78

add Surveying: \$11,386.49

add Mobilization: \$80,002.65

Estimated Cost per Lane Mile --

GRAND TOTAL: \$1,080,037.91

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Urban - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	287.73	\$2,877.30
Flagger Service	HR	\$10.78	593.44	\$6,397.28
Channelizing Devices	DAY	\$0.79	14663.62	\$11,584.26
Arrow Board, Message Board	HR	\$6.23	436.6	\$2,720.02
Truck Mounted Attenuator	HR	\$15.94	2.26	\$36.02
Subtotal:				\$23,614.89

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	2.06	\$11,992.54
Regular Excavation	CY	\$11.40	685	\$7,809.00
Subtotal:				\$19,801.54

Drainage Items				
Misc. Concrete	CY	\$923.71	19.63	\$18,132.43
15" Pipe	LF	\$22.02	746.00	\$16,426.92
18" Pipe	LF	\$51.44	314.25	\$16,165.02
36" Pipe	LF	\$89.64	12.73	\$1,141.12
48" Pipe	LF	\$106.67	122.96	\$13,116.14
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	16.80	\$35,902.61
Eros. Control Stone	TON	\$71.30	67.00	\$4,777.10
Paved Ditch	LF	\$35.05	33.31	\$1,167.52
Subtotal:				\$106,828.85

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Urban - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	0	\$0.00
Cement Stabilized Aggre #21A	Ton	\$21.72	2772	\$60,207.84
Aggr. No. 21B	Ton	\$22.11	4950	\$109,444.50
Asphalt Ty. SM-12.5	Ton	\$37.75	580.8	\$21,925.20
Asphalt Ty. IM-19.0	Ton	\$35.60	774.4	\$27,568.64
Asphalt Ty. BM-25.0	Ton	\$52.45	1548.8	\$81,234.56
Concrete	SY	\$51.00	0	\$0.00
Underdrain (Composite)	LF	\$5.44	2640	\$14,361.60
Pavement Markings (Composite)	LF	\$1.03	5940	\$6,118.20
Raised Pavement Markers (Composite)	EA	\$40.68	32	\$1,301.76
Subtotal:				\$322,162.30

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	528	\$23,284.80
Concrete Curb and Gutter CG-6	LF	\$13.16	2640	\$34,742.40
Concrete Curb	LF	\$11.67	2640	\$30,808.80
Entrance Gutter	SY	\$48.41	88	\$4,260.08
Right Of Way Monuments	EA	\$84.75	15.9	\$1,347.53
Guardrail (Composite)	LF	\$13.70	745.82	\$10,217.73
Guardrail Terminals	EA	\$1,821.11	1.45	\$2,640.61
Median Barrier Walls	LF	\$60.28	0	\$0.00
Sound Barrier	SF	\$20.81	0	\$0.00
Fence (Composite)	LF	\$4.31	1375.32	\$5,927.63
Fence Line Braces	EA	\$282.17	2.03	\$572.81
Fence Corner Braces	EA	\$282.62	2.45	\$692.42
Subtotal:				\$114,494.80

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Urban - Asphalt Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Roadside Development				
Seeding (Composite)	LBS	13.23	290.9	\$3,848.61
Erosion Control Mulch	SY	\$0.61	7040	\$4,294.40
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Planting (Composite)	LS	\$23,570.40	0.25	\$5,892.60
Watering	UNIT	\$71.80	4.25	\$305.15
Subtotal:				\$45,090.95

Stormwater Management				
Stormwater Management Excavation	CY	\$4.90	1000	\$4,900.00

Signals and Signs				
Sign Panels	SF	\$24.80	539.75	\$13,385.80
Sign Posts (Composite wood and steel)	LF	\$17.24	960	\$16,550.40
Intersection Signalization (Composite)	EA	\$89,734.26	0.165	\$14,806.15
Overhead Signing (Composite)	EA	\$7,443.14	8	\$59,545.12
Roadway Lighting (Composite)	EA	\$54,170.00	0.25	\$13,542.50
Traffic Management System	EA			\$0.00
Subtotal:				\$117,829.97

Utilities (Water and Sewer)				
Water Service Lines (Composite)	LF	\$22.10	290	\$6,409.00
Water Mains (Composite)	LF	\$49.87	880	\$43,885.60
Sewer Pipe (Composite)	LF	\$46.21	665	\$30,729.65
Subtotal:				\$81,024.25
Total:				\$835,747.55
add Surveying:				\$9,857.48
add Mobilization:				\$68,420.38

Estimated Cost per Lane Mile --

GRAND TOTAL: \$914,025.40

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Urban - Concrete Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	287.73	\$2,877.30
Flagger Service	HR	\$10.78	593.44	\$6,397.28
Channelizing Devices	DAY	\$0.79	14663.62	\$11,584.26
Arrow Board, Message Board	HR	\$6.23	436.6	\$2,720.02
Truck Mounted Attenuator	HR	\$15.94	2.26	\$36.02
Subtotal:				\$23,614.89

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	2.06	\$11,992.54
Regular Excavation	CY	\$11.40	685	\$7,809.00
Subtotal:				\$19,801.54

Drainage Items				
Misc. Concrete	CY	\$923.71	19.63	\$18,132.43
15" Pipe	LF	\$22.02	746.00	\$16,426.92
18" Pipe	LF	\$51.44	314.25	\$16,165.02
36" Pipe	LF	\$89.64	12.73	\$1,141.12
48" Pipe	LF	\$106.67	122.96	\$13,116.14
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	16.80	\$35,902.61
Eros. Control Stone	TON	\$71.30	67.00	\$4,777.10
Paved Ditch	LF	\$35.05	33.31	\$1,167.52
Subtotal:				\$106,828.85

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Urban - Concrete Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	0	\$0.00
Cement Stabilized Aggre #21A	Ton	\$21.72	3696	\$80,277.12
Aggr. No. 21B	Ton	\$22.11	0	\$0.00
Asphalt Ty. SM-12.5	Ton	\$37.75	0	\$0.00
Asphalt Ty. IM-19.0	Ton	\$35.60	0	\$0.00
Asphalt Ty. BM-25.0	Ton	\$52.45	0	\$0.00
Concrete	SY	\$51.00	7040	\$359,040.00
Underdrain (Composite)	LF	\$5.44	2640	\$14,361.60
Pavement Markings (Composite)	LF	\$1.03	5940	\$6,118.20
Raised Pavement Markers (Composite)	EA	\$40.68	26	\$1,057.68
Subtotal:				\$460,854.60

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	528	\$23,284.80
Concrete Curb and Gutter CG-6	LF	\$13.16	2640	\$34,742.40
Concrete Curb	LF	\$11.67	2640	\$30,808.80
Entrance Gutter	SY	\$48.41	88	\$4,260.08
Right Of Way Monuments	EA	\$84.75	15.9	\$1,347.53
Guardrail (Composite)	LF	\$13.70	745.82	\$10,217.73
Guardrail Terminals	EA	\$1,821.11	1.45	\$2,640.61
Median Barrier Walls	LF	\$60.28	0	\$0.00
Sound Barrier	SF	\$20.81	0	\$0.00
Fence (Composite)	LF	\$4.31	1375.32	\$5,927.63
Fence Line Braces	EA	\$282.17	2.03	\$572.81
Fence Corner Braces	EA	\$282.62	2.45	\$692.42
Subtotal:				\$114,494.80

Roadside Development				
Seeding (Composite)	LBS	13.23	290.9	\$3,848.61
Erosion Control Mulch	SY	\$0.61	7040	\$4,294.40
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Planting (Composite)	LS	\$23,570.40	0.25	\$5,892.60
Watering	UNIT	\$71.80	4.25	\$305.15
Subtotal:				\$45,090.95

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Primary Urban - Concrete Paved

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
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Stormwater Management				
Stormwater Management Excavation	CY	\$4.90	1000	\$4,900.00

Signals and Signs				
Sign Panels	SF	\$24.80	539.75	\$13,385.80
Sign Posts (Composite wood and steel)	LF	\$17.24	960	\$16,550.40
Intersection Signalization (Composite)	EA	\$89,734.26	0.165	\$14,806.15
Overhead Signing (Composite)	EA	\$7,443.14	8	\$59,545.12
Roadway Lighting (Composite)	EA	\$54,170.00	0.25	\$13,542.50
Traffic Management System	EA			\$0.00
Subtotal:				\$117,829.97

Utilities (Water and Sewer)				
Water Service Lines (Composite)	LF	\$22.10	290	\$6,409.00
Water Mains (Composite)	LF	\$49.87	880	\$43,885.60
Sewer Pipe (Composite)	LF	\$46.21	665	\$30,729.65
Subtotal:				\$81,024.25
Total:				\$974,439.85
add Surveying:				\$11,244.40
add Mobilization:				\$78,926.32

Estimated Cost per Lane Mile --

GRAND TOTAL: \$1,064,610.56

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Rural - Asphalt Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	996.99	\$9,969.90
Flagger Service	HR	\$10.78	619.51	\$6,678.32
Channelizing Devices	DAY	\$0.79	5455.17	\$4,309.58
Arrow Board, Message Board	HR	\$6.23	1290.66	\$8,040.81
Truck Mounted Attenuator	HR	\$15.94	2.65	\$42.24
Subtotal:				\$29,040.85

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	5.24	\$30,505.29
Regular Excavation	CY	\$11.40	25373.33	\$289,255.96
Subtotal:				\$319,761.25

Drainage Items				
Misc. Concrete	CY	\$923.71	32.18	\$29,724.99
15" Pipe	LF	\$22.02	289.92	\$6,384.04
18" Pipe	LF	\$51.44	246.52	\$12,680.99
36" Pipe	LF	\$89.64	3.35	\$300.29
48" Pipe	LF	\$106.67	53.05	\$5,658.84
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	10.11	\$21,605.68
Eros. Control Stone	TON	\$71.30	308.34	\$21,984.64
Paved Ditch	LF	\$35.05	93.87	\$3,290.14
Subtotal:				\$101,629.61

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Rural - Asphalt Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	0	\$0.00
Cement Stabilized Aggre #21A	Ton	\$21.72	2574	\$55,907.28
Aggr. No. 21B	Ton	\$22.11	2788.5	\$61,653.74
Asphalt Ty. SM-12.5	Ton	\$37.75	1355.2	\$51,158.80
Asphalt Ty. IM-19.0	Ton	\$35.60	774.4	\$27,568.64
Asphalt Ty. BM-25.0	Ton	\$52.45	4646.4	\$243,703.68
Concrete	SY	\$51.00	0	\$0.00
Underdrain (Composite)	LF	\$5.44	2640	\$14,361.60
Pavement Markings (Composite)	LF	\$1.03	5940	\$6,118.20
Raised Pavement Markers (Composite)	EA	\$40.68	32	\$1,301.76
Stab. Open Graded	Ton	\$32.00	13121.7	\$419,894.40
Manipulation	SY	\$0.75	7626.7	\$5,720.03
Cement (6% vol.)	Ton	\$121.50	96.8	\$11,761.20
Subtotal:				\$899,149.32

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	0	\$0.00
Concrete Curb and Gutter CG-6	LF	\$13.16	0	\$0.00
Concrete Curb	LF	\$11.67	0	\$0.00
Entrance Gutter	SY	\$48.41	0	\$0.00
Right Of Way Monuments	EA	\$84.75	11.06	\$937.34
Guardrail (Composite)	LF	\$13.70	1588.41	\$21,761.22
Guardrail Terminals	EA	\$1,821.11	2.54	\$4,625.62
Median Barrier Walls	LF	\$60.28	0	\$0.00
Sound Barrier	SF	\$20.81	0	\$0.00
Fence (Composite)	LF	\$4.31	2863.19	\$12,340.35
Fence Line Braces	EA	\$282.17	7.87	\$2,220.68
Fence Corner Braces	EA	\$282.62	6.63	\$1,873.77
Subtotal:				\$43,758.97

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Rural - Asphalt Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Roadside Development				
Seeding (Composite)	LBS	\$13.23	618.2	\$8,178.79
Erosion Control Mulch	SY	\$0.61	2933	\$1,789.13
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Planting (Composite)	LS	\$23,570.40	1	\$23,570.40
Watering	UNIT	\$71.80	20.92	\$1,502.06
Subtotal:				\$65,790.56

Stormwater Management				
Stormwater Management Excavation	CY	\$4.90	1000	\$4,900.00

Signals and Signs				
Sign Panels	SF	\$24.80	670	\$16,616.00
Sign Posts (Composite wood and steel)	LF	\$17.24	901	\$15,533.24
Intersection Signalization (Composite)	EA	\$117,775.08	0.05	\$5,888.75
Overhead Signing (Composite)	EA	\$65,371.78	0.25	\$16,342.95
Roadway Lighting (Composite)	EA	\$7,443.14	1	\$7,443.14
Traffic Management Systems	EA		0	\$0.00
Subtotal:				\$61,824.08

Utilities (Water and Sewer)				
Water Service Lines (Composite)	LF	\$20.61	49.48	\$1,019.78
Water Mains (Composite)	LF	\$37.47	556.66	\$20,858.05
Sewer Pipe (Composite)	LF	\$61.39	97.66	\$5,995.35
Subtotal:				\$27,873.18
Total:				\$1,553,727.83
add Surveying:				\$17,037.28
add Mobilization:				\$365,382.56

Estimated Cost per Lane Mile --

GRAND TOTAL: \$1,936,147.67

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Rural - Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	996.99	\$9,969.90
Flagger Service	HR	\$10.78	619.51	\$6,678.32
Channelizing Devices	DAY	\$0.79	5455.17	\$4,309.58
Arrow Board, Message Board	HR	\$6.23	1290.66	\$8,040.81
Truck Mounted Attenuator	HR	\$15.94	2.65	\$42.24
Subtotal:				\$29,040.85

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	5.24	\$30,505.29
Regular Excavation	CY	\$11.40	25373.33	\$289,255.96
Subtotal:				\$319,761.25

Drainage Items				
Misc. Concrete	CY	\$923.71	32.18	\$29,724.99
15" Pipe	LF	\$22.02	289.92	\$6,384.04
18" Pipe	LF	\$51.44	246.52	\$12,680.99
36" Pipe	LF	\$89.64	3.35	\$300.29
48" Pipe	LF	\$106.67	53.05	\$5,658.84
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	10.11	\$21,605.68
Eros. Control Stone	TON	\$71.30	308.34	\$21,984.64
Paved Ditch	LF	\$35.05	93.87	\$3,290.14
Subtotal:				\$101,629.61

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Rural - Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	0	\$0.00
Cement Stabilized Aggre #21A	Ton	\$21.72	2574	\$55,907.28
Aggr. No. 21B	Ton	\$22.11	2574	\$56,911.14
Asphalt Ty. SM-12.5	Ton	\$37.75	580.8	\$21,925.20
Asphalt Ty. IM-19.0	Ton	\$35.60	0	\$0.00
Asphalt Ty. BM-25.0	Ton	\$52.45	1548.8	\$81,234.56
Concrete	SY	\$51.00	7040	\$359,040.00
Underdrain (Composite)	LF	\$5.44	2640	\$14,361.60
Pavement Markings (Composite)	LF	\$1.03	5940	\$6,118.20
Raised Pavement Markers (Composite)	EA	\$40.68	32	\$1,301.76
Stab. Open Graded	Ton	\$32.00	13121.7	\$419,894.40
Manipulation	SY	\$0.75	7626.7	\$5,720.03
Cement (6% vol.)	Ton	\$121.50	96.8	\$11,761.20
Subtotal:				\$1,034,175.37

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	0	\$0.00
Concrete Curb and Gutter CG-6	LF	\$13.16	0	\$0.00
Concrete Curb	LF	\$11.67	0	\$0.00
Entrance Gutter	SY	\$48.41	0	\$0.00
Right Of Way Monuments	EA	\$84.75	11.06	\$937.34
Guardrail (Composite)	LF	\$13.70	1588.41	\$21,761.22
Guardrail Terminals	EA	\$1,821.11	2.54	\$4,625.62
Median Barrier Walls	LF	\$60.28	0	\$0.00
Sound Barrier	SF	\$20.81	0	\$0.00
Fence (Composite)	LF	\$4.31	2863.19	\$12,340.35
Fence Line Braces	EA	\$282.17	7.87	\$2,220.68
Fence Corner Braces	EA	\$282.62	6.63	\$1,873.77
Subtotal:				\$43,758.97

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Rural - Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Roadside Development				
Seeding (Composite)	LBS	\$13.23	618.2	\$8,178.79
Erosion Control Mulch	SY	\$0.61	2933	\$1,789.13
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Planting (Composite)	LS	\$23,570.40	1	\$23,570.40
Watering	UNIT	\$71.80	20.92	\$1,502.06
Subtotal:				\$65,790.56
Stormwater Management				
Stormwater Management Excavation	CY	\$4.90	1000	\$4,900.00
Signals and Signs				
Sign Panels	SF	\$24.80	670	\$16,616.00
Sign Posts (Composite wood and steel)	LF	\$17.24	901	\$15,533.24
Intersection Signalization (Composite)	EA	\$117,775.08	0.05	\$5,888.75
Overhead Signing (Composite)	EA	\$65,371.78	0.25	\$16,342.95
Roadway Lighting (Composite)	EA	\$7,443.14	1	\$7,443.14
Traffic Management Systems	EA		0	\$0.00
Subtotal:				\$61,824.08
Utilities (Water and Sewer)				
Water Service Lines (Composite)	LF	\$20.61	49.48	\$1,019.78
Water Mains (Composite)	LF	\$37.47	556.66	\$20,858.05
Sewer Pipe (Composite)	LF	\$61.39	97.66	\$5,995.35
Subtotal:				\$27,873.18
Total:				\$1,688,753.88
add Surveying:				\$18,387.54
add Mobilization:				\$433,570.71

Estimated Cost per Lane Mile --

GRAND TOTAL: \$2,140,712.12

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Urban - Asphalt Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	113.79	\$1,137.90
Flagger Service	HR	\$10.78	461.99	\$4,980.25
Channelizing Devices	DAY	\$0.79	4627.33	\$3,655.59
Arrow Board, Message Board	HR	\$6.23	129.15	\$804.60
Truck Mounted Attenuator	HR	\$15.94	0.67	\$10.68
Subtotal:				\$10,589.03

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	5.24	\$30,505.29
Regular Excavation	CY	\$11.40	25373.33	\$289,255.96
Subtotal:				\$319,761.25

Drainage Items				
Misc. Concrete	CY	923.71	8.76	\$8,091.70
15" Pipe	LF	\$22.02	335.8	\$7,394.32
18" Pipe	LF	\$51.44	75.9	\$3,904.30
36" Pipe	LF	\$89.64	2.17	\$194.52
48" Pipe	LF	\$106.67	170.12	\$18,146.70
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	8.02	\$17,139.22
Eros. Control Stone	TON	\$71.30	180.99	\$12,904.59
Paved Ditch	LF	\$35.05	151.17	\$5,298.51
Subtotal:				\$73,073.85

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Urban - Asphalt Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	0	\$0.00
Cement Stabilized Aggre #21A	Ton	\$21.72	2508.7	\$54,488.96
Aggr. No. 21B	Ton	\$22.11	2788.5	\$61,653.74
Asphalt Ty. SM-12.5	Ton	\$37.75	1161.6	\$43,850.40
Asphalt Ty. IM-19.0	Ton	\$35.60	774.4	\$27,568.64
Asphalt Ty. BM-25.0	Ton	\$52.45	4130.1	\$216,623.75
Concrete	SY	\$51.00	0	\$0.00
Underdrain (Composite)	LF	\$5.44	2640	\$14,361.60
Pavement Markings (Composite)	LF	\$1.03	5940	\$6,118.20
Raised Pavement Markers (Composite)	EA	\$40.68	32	\$1,301.76
Stab. Open Graded	Ton	\$32.00	12788.6	\$409,235.20
Manipulation	SY	\$0.75	7433.1	\$5,574.83
Cement (6% vol.)	Ton	\$121.50	94.3	\$11,457.45
Subtotal:				\$852,234.52

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	0	\$0.00
Concrete Curb and Gutter CG-6	LF	\$13.16	0	\$0.00
Concrete Curb	LF	\$11.67	0	\$0.00
Entrance Gutter	SY	\$48.41	0	\$0.00
Right Of Way Monuments	EA	\$84.75	8.31	\$704.27
Guardrail (Composite)	LF	\$13.70	790.06	\$10,823.82
Guardrail Terminals	EA	\$1,821.11	11.95	\$21,762.26
Median Barrier Walls	LF	\$60.28	2640	\$159,139.20
Sound Barrier	SF	\$20.81	660	\$13,734.60
Fence (Composite)	LF	\$4.31	61.22	\$263.86
Fence Line Braces	EA	\$262.17	2.05	\$537.45
Fence Corner Braces	EA	\$262.62	0.57	\$149.69
Subtotal:				\$207,115.16

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Urban - Asphalt Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Roadside Development				
Seeding (Composite)	LBS	\$13.23	193.94	\$2,565.83
Erosion Control Mulch	SY	\$0.61	4693	\$2,862.73
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Landscaping	LS	\$23,570.40	1	\$23,570.40
Watering	UNIT	\$71.80	20.92	\$1,502.06
Subtotal:				\$61,251.20

Stormwater Management				
Stormwater Management Excavation	CY	\$4.90	1000	\$4,900.00

Signals and Signs				
Sign Panels	SF	\$24.80	1229	\$30,479.20
Sign Posts (Composite wood and steel)	LF	\$17.24	1968	\$33,928.32
Intersection Signalization (Composite)	EA	\$117,775.08	0.1	\$11,777.51
Overhead Signing (Composite)	EA	\$102,919.86	0.5	\$51,459.93
Roadway Lighting (Composite)	EA	\$7,443.14	12	\$89,317.68
Traffic Management Systems	EA	\$161,769.62	1	\$161,769.62
Subtotal:				\$378,732.26

Utilities (Water and Sewer)				
Water Service Lines (Composite)	LF	\$20.61	0	\$0.00
Water Mains (Composite)	LF	\$37.47	564.06	\$21,135.33
Sewer Pipe (Composite)	LF	\$61.39	121.76	\$7,474.85
Subtotal:				\$28,610.17
Total:				\$1,936,267.44
add Surveying:				\$20,862.67
add Mobilization:				\$558,565.06

Estimated Cost per Lane Mile --

GRAND TOTAL: \$2,515,695.17

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Urban - Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	113.79	\$1,137.90
Flagger Service	HR	\$10.78	461.99	\$4,980.25
Channelizing Devices	DAY	\$0.79	4627.33	\$3,655.59
Arrow Board, Message Board	HR	\$6.23	129.15	\$804.60
Truck Mounted Attenuator	HR	\$15.94	0.67	\$10.68
Subtotal:				\$10,589.03

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	5.24	\$30,505.29
Regular Excavation	CY	\$11.40	25373.33	\$289,255.96
Subtotal:				\$319,761.25

Drainage Items				
Misc. Concrete	CY	923.71	8.76	\$8,091.70
15" Pipe	LF	\$22.02	335.8	\$7,394.32
18" Pipe	LF	\$51.44	75.9	\$3,904.30
36" Pipe	LF	\$89.64	2.17	\$194.52
48" Pipe	LF	\$106.67	170.12	\$18,146.70
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	8.02	\$17,139.22
Eros. Control Stone	TON	\$71.30	180.99	\$12,904.59
Paved Ditch	LF	\$35.05	151.17	\$5,298.51
Subtotal:				\$73,073.85

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Urban - Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	0	\$0.00
Cement Stabilized Aggre #21A	Ton	\$21.72	2508.7	\$54,488.96
Aggr. No. 21B	Ton	\$22.11	1584	\$35,022.24
Asphalt Ty. SM-12.5	Ton	\$37.75	387.2	\$14,616.80
Asphalt Ty. IM-19.0	Ton	\$35.60	0	\$0.00
Asphalt Ty. BM-25.0	Ton	\$52.45	1032.5	\$54,154.63
Concrete	SY	\$51.00	7040	\$359,040.00
Underdrain (Composite)	LF	\$5.44	2640	\$14,361.60
Pavement Markings (Composite)	LF	\$1.03	5940	\$6,118.20
Raised Pavement Markers (Composite)	EA	\$40.68	32	\$1,301.76
Stab. Open Graded	Ton	\$32.00	12788.6	\$409,235.20
Manipulation	SY	\$0.75	7433.1	\$5,574.83
Cement (6% vol.)	Ton	\$121.50	94.3	\$11,457.45
Subtotal:				\$965,371.66

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	0	\$0.00
Concrete Curb and Gutter CG-6	LF	\$13.16	0	\$0.00
Concrete Curb	LF	\$11.67	0	\$0.00
Entrance Gutter	SY	\$48.41	0	\$0.00
Right Of Way Monuments	EA	\$84.75	8.31	\$704.27
Guardrail (Composite)	LF	\$13.70	790.06	\$10,823.82
Guardrail Terminals	EA	\$1,821.11	11.95	\$21,762.26
Median Barrier Walls	LF	\$60.28	2640	\$159,139.20
Sound Barrier	SF	\$20.81	660	\$13,734.60
Fence (Composite)	LF	\$4.31	61.22	\$263.86
Fence Line Braces	EA	\$262.17	2.05	\$537.45
Fence Corner Braces	EA	\$262.62	0.57	\$149.69
Subtotal:				\$207,115.16

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Urban - Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Roadside Development				
Seeding (Composite)	LBS	\$13.23	193.94	\$2,565.83
Erosion Control Mulch	SY	\$0.61	4693	\$2,862.73
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Landscaping	LS	\$23,570.40	1	\$23,570.40
Watering	UNIT	\$71.80	20.92	\$1,502.06
Subtotal:				\$61,251.20
Stormwater Management				
Stormwater Management Excavation	CY	\$4.90	1000	\$4,900.00
Signals and Signs				
Sign Panels	SF	\$24.80	1229	\$30,479.20
Sign Posts (Composite wood and steel)	LF	\$17.24	1968	\$33,928.32
Intersection Signalization (Composite)	EA	\$117,775.08	0.1	\$11,777.51
Overhead Signing (Composite)	EA	\$102,919.86	0.5	\$51,459.93
Roadway Lighting (Composite)	EA	\$7,443.14	12	\$89,317.68
Traffic Management Systems	EA	\$161,769.62	1	\$161,769.62
Subtotal:				\$378,732.26
Utilities (Water and Sewer)				
Water Service Lines (Composite)	LF	\$20.61	0	\$0.00
Water Mains (Composite)	LF	\$37.47	564.06	\$21,135.33
Sewer Pipe (Composite)	LF	\$61.39	121.76	\$7,474.85
Subtotal:				\$28,610.17
Total:				\$2,049,404.59
add Surveying:				\$21,994.05
add Mobilization:				\$615,699.32
Estimated Cost per Lane Mile --	GRAND TOTAL:			<u>\$2,687,097.95</u>

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Preliminary				
Mobilization (Spec 513)	LS		0.5	\$0.00
Cnstrctn Srvys (Stakeout Trns*Port Equtn.)	LS		0.5	\$0.00

Temporary Safety Items				
Traffic Barrier service Concrete	LF			\$0.00
Flagger Service	HR			\$0.00
Channelizing Devices	DAY			\$0.00
Arrow Board, Message Board	HR			\$0.00
Truck Mounted Attenuator	HR			\$0.00

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE			\$0.00
Regular Excavation	CY			\$0.00
LS Grading (composite)	LS			\$0.00
Borrow	CY			\$0.00

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
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Drainage Items				
15" Pipe for Entrances	LF			\$0.00
18" Pipe for Road X-ings	LF			\$0.00
36" Pipe for Run-off & Road Xings	LF			\$0.00
48" Pipe - Composit	LF			\$0.00
Box Culvert (Composit)	LF			\$0.00
Drop Inlets (DI-1, DI-3B DI-7)	EA			\$0.00
Eros. Control Stone	TON			\$0.00
Paved Ditch	LF			\$0.00

Pavement Items				
Blotted Seal Coat Ty. D	SY			\$0.00
Cement Stabilized Aggre #21A	Ton			\$0.00
Aggr. No. 21B	Ton			\$0.00
Asphalt Ty. SM-12.5	Ton			\$0.00
Asphalt Ty. IM-19.0	Ton			\$0.00
Asphalt Ty. BM-25.0	Ton			\$0.00
Concrete	SY			\$0.00
Underdrain (Composite)	LF		2640	\$0.00
Pavement Markings (Composite)	LF			\$0.00
Raised Pavement Markers (Composite)	EA		26	\$0.00

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY			\$0.00
Concrete Curb and Gutter CG-6	LF			\$0.00
Concrete Curb	LF			\$0.00
Entrance Gutter	SY			\$0.00
Right Of Way Monuments	EA	\$75.00	12	\$900.00
Guardrail (Composite)	LF			\$0.00
Guardrail Terminals	EA		2	\$0.00
Median Barrier Walls	LF			\$0.00
Sound Barrier	SF		1350	\$0.00
Fence (Composite)	LF		2200	\$0.00

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
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Roadside Development				
Seeding (Composite)	LBS			\$0.00
Erosion Control Mulch	SY			\$0.00
Temp. Erosion Control (Composite)	LF			\$0.00
Planting (Composite)	EA			\$0.00
Watering	UNIT			\$0.00

Stormwater Management				
Stormwater Management Excavation	CY			\$0.00

Signals and Signs				
Sign Panels	SF			\$0.00
Sign Posts (Composite wood and steel)	LF			\$0.00
Intersection Signalization (Composite)	EA			\$0.00
Overhead Signing (Composite)	EA			\$0.00
Roadway Lighting (Composite)	EA			\$0.00
Traffic Management Systems	EA			\$0.00

Utilities (Water and Sewer)				
Water Service Lines (Composite)	LF			\$0.00
Water Mains (Composite)	LF			\$0.00
Sewer Pipe (Composite)	LF			\$0.00