
Appendix Y
MII Documentation

ci13175_Chatfield_Reallocation_Study_Feasibility_Estimate
-REVISED to incorporate ATR comments 29 SEP 2010.
-REVISED to update mitigation costs, real estate costs, and labor, equipment, and materials pricing 13 JUL 2011.
-Sales tax applied = 3.9%

Estimated by CENWO-ED-C
Designed by EDAW
Prepared by Jeff Stanek

Preparation Date 7/13/2011
Effective Date of Pricing 7/13/2011
Estimated Construction Time Days

This report is not copyrighted, but the information contained herein is For Official Use Only.

Description	Page
SUMMARY	1
LANDS AND DAMAGES	1
FISH AND WILDLIFE FACILITIES	1
RECREATION FACILITIES	1
PLANNING, ENGINEERING, AND DESIGN	1
CONSTRUCTION MANAGEMENT	1
REAL ESTATE	2
LANDS AND DAMAGES	2
PROPERTY ACQUISITION	2
ENVIRONMENTAL MITIGATION	3
FISH AND WILDLIFE FACILITIES	3
ENVIRONMENTAL MITIGATION FACILITIES	3
RECREATIONAL MITIGATION	4
RECREATION FACILITIES	4
NORTH RAMP	4
Demolition	4
Clearing and Grubbing	4
Removals	4
Earthwork	5
Roads and Parking	6
Asphalt Pavement	6
Curb and Gutter	7
Pavement Markings	7
Boat Ramps	7
Concrete Boat Ramp	7
Riprap	8
Boat Docks	8
Trails	8
Concrete Trail	8
Architecture	9
Furnishings	9
Utilities	9
Water Distribution	9
Pipe and Fittings	9
Excavation and Backfill	9
Electrical and Telecommunications	10
Conduit and Wiring	10
Handholes	10
Area Lighting	10
Excavation and Backfill	11
Landscaping	11
Seeding	11
Plantings	11
Irrigation	11

Description	Page
Irrigation	12
MASSEY DRAW	12
Demolition	12
Clearing and Grubbing	12
Removals	12
Earthwork	13
Parking Area	13
Asphalt Pavement	13
Miscellaneous	14
Trails	14
Asphalt Trail	14
Architecture	14
Architecture	15
Furnishings	15
Recreational Facilities	15
Landscaping	15
Seeding	15
Plantings	15
Irrigation	15
EAGLE COVE	16
Demolition	16
Clearing and Grubbing	16
Removals	16
Earthwork	17
Roads and Parking	17
Gravel Surfacing	17
Miscellaneous	18
Trails	18
Asphalt Trail	18
Furnishings	18
Utilities	18
Sanitary Sewer System	18
Pipe and Fittings	18
Excavation and Backfill	19
Landscaping	19
Seeding	19
Plantings	20
Irrigation	20
DEER CREEK DAY USE AND BALLOON LAUNCH AREA	20
Demolition	20
Clearing and Grubbing	20
Removals	20
Earthwork	22
Roads and Parking	22

Description	Page
Asphalt Pavement	22
Pavement Markings	23
Miscellaneous	23
Trails	23
Trails	24
Concrete Trail	24
Architecture	24
Furnishings	24
Utilities	25
Water Distribution	25
Pipe and Fittings	25
Valves and Hydrants	25
Excavation and Backfill	25
Sanitary Sewer System	26
Pipe and Fittings	26
Manholes	26
Excavation and Backfill	26
Storm Water System	27
Pipe	27
Area Inlets	27
Excavation and Backfill	27
Electrical and Telecommunications	28
Conduit and Wiring	28
Handholes	28
Excavation and Backfill	28
Landscaping	29
Seeding	29
Plantings	29
Irrigation	29
SWIM BEACH	30
Demolition	30
Clearing and Grubbing	30
Removals	30
Earthwork	31
Roads and Parking	32
Asphalt Pavement	32
Pavement Markings	33
Miscellaneous	33
Trails	33
Concrete Trail	33
Architecture	33
Furnishings	34
Recreational Facilities	34
Utilities	34

Description	Page
Utilities	35
Water Distribution	35
Pipe and Fittings	35
Valves and Hydrants	35
Excavation and Backfill	35
Sanitary Sewer System	35
Pipe and Fittings	35
Manholes	36
Excavation and Backfill	36
Natural Gas Distribution	37
Pipe and Fittings	37
Valves and Hydrants	37
Excavation and Backfill	37
Storm Water System	38
Pipe	38
Area Inlets	38
Excavation and Backfill	38
Electrical and Telecommunications	39
Conduit and Wiring	39
Handholes	39
Transformers	39
Excavation and Backfill	39
Landscaping	40
Seeding	40
Plantings	40
Irrigation	40
JAMISON	41
Demolition	41
Clearing and Grubbing	41
Removals	41
Earthwork	42
Roads and Parking	43
Asphalt Pavement	43
Pavement Markings	44
Miscellaneous	44
Trails	44
Concrete Trail	44
Architecture	45
Furnishings	45
Utilities	45
Water Distribution	45
Pipe and Fittings	45
Excavation and Backfill	45
Sanitary Sewer System	46

Description	Page
Pipe and Fittings	46
Manholes	46
Excavation and Backfill	47
Natural Gas Distribution	47
Pipe and Fittings	47
Valves and Hydrants	47
Excavation and Backfill	47
Electrical and Telecommunications	48
Conduit and Wiring	48
Handholes	48
Excavation and Backfill	49
Landscaping	49
Seeding	49
Plantings	49
Irrigation	50
CATFISH FLATS - AREAS 1 AND 2	50
Demolition	50
Clearing and Grubbing	50
Removals	50
Earthwork	51
Roads and Parking	52
Asphalt Pavement	52
Pavement Markings	53
Miscellaneous	53
Trails	53
Concrete Trail	53
Architecture	54
Group Picnic Area 1	54
Group Picnic Area 2	54
Furnishings	54
Furnishings	55
Utilities	55
Water Distribution	55
Pipe and Fittings	55
Excavation and Backfill	55
Sanitary Sewer System	55
Pipe and Fittings	55
Excavation and Backfill	56
Natural Gas Distribution	56
Pipe and Fittings	56
Valves and Hydrants	56
Excavation and Backfill	57
Electrical and Telecommunications	57
Conduit and Wiring	57

Description	Page
Handholes	57
Transformers	58
Excavation and Backfill	58
Landscaping	58
Seeding	58
Plantings	59
Irrigation	59
FOX RUN	59
Demolition	59
Clearing and Grubbing	59
Removals	59
Earthwork	60
Trails	61
Concrete Trail	61
Architecture	61
Group Picnic Area 1	61
Furnishings	62
Recreational Facilities	62
Utilities	62
Natural Gas Distribution	62
Pipe and Fittings	62
Valves and Hydrants	62
Valves and Hydrants	63
Excavation and Backfill	63
Landscaping	63
Seeding	63
Plantings	64
Irrigation	64
KINGFISHER AREA	64
Demolition	64
Clearing and Grubbing	64
Removals	64
Earthwork	65
Roads and Parking	66
Gravel Surfacing	66
Miscellaneous	66
Furnishings	66
Landscaping	66
Seeding	66
Plantings	67
Irrigation	67
GRAVEL POND AREA	67
Demolition	67
Clearing and Grubbing	67

Description	Page
Removals	67
Earthwork	68
Roads and Parking	68
Gravel Surfacing	68
Miscellaneous	68
Trails	69
Concrete Trail	69
Furnishings	69
Utilities	69
Water Distribution	69
Pipe and Fittings	69
Excavation and Backfill	70
Landscaping	70
Seeding	70
PLATTE RIVER	70
PLATTE RIVER	71
Demolition	71
Clearing and Grubbing	71
Removals	71
Earthwork	72
Trails	72
Concrete Trail	72
Landscaping	73
Seeding	73
Plantings	73
Irrigation	73
MARINA POINT	74
Demolition	74
Clearing and Grubbing	74
Removals	74
Earthwork	75
Roads and Parking	76
Asphalt Pavement	76
Pavement Markings	77
Miscellaneous	77
Trails	77
Concrete Trail	77
Architecture	78
Group Picnic Area 1	78
Furnishings	78
Recreational Facilities	79
Utilities	79
Storm Water System	79
Pipe	79

Description	Page
Area Inlets	79
Excavation and Backfill	79
Electrical and Telecommunications	80
Conduit and Wiring	80
Electrical Devices	80
Area Lighting	80
Excavation and Backfill	80
Landscaping	81
Seeding	81
Plantings	81
Irrigation	81
SOUTH RAMP INCLUDING RIVERSIDE MARINA	82
Demolition	82
Clearing and Grubbing	82
Removals	82
Earthwork	83
Roads and Parking	84
Asphalt Pavement	84
Pavement Markings	85
Miscellaneous	85
Boat Ramps and Marina	85
Concrete Boat Ramp	85
Riprap	86
Miscellaneous	86
Trails	87
Concrete Trail	87
Architecture	87
Group Picnic Area 1	87
Furnishings	87
Recreational Facilities	88
Utilities	88
Water Distribution	88
Pipe and Fittings	88
Valves and Hydrants	88
Excavation and Backfill	88
Sanitary Sewer System	89
Pipe and Fittings	89
Manholes	89
Excavation and Backfill	90
Storm Water System	90
Pipe	90
Area Inlets	90
Area Inlets	91
Excavation and Backfill	91

Description	Page
Electrical and Telecommunications	91
Conduit and Wiring	91
Handholes	92
Transformers	92
Electrical Devices	92
Area Lighting	92
Excavation and Backfill	92
Landscaping	93
Seeding	93
Plantings	93
Irrigation	93
ROXBOROUGH COVE	94
Demolition	94
Clearing and Grubbing	94
Removals	94
Earthwork	94
Architecture	95
Furnishings	95
Recreational Facilities	95
Landscaping	95
Seeding	95
Plantings	96
Irrigation	96
PLUM COVE	96
Demolition	96
Clearing and Grubbing	96
Removals	96
Earthwork	97
Roads and Parking	98
Gravel Surfacing	98
Trails	98
Concrete Trail	98
Architecture	99
Furnishings	99
Utilities	99
Sanitary Sewer System	99
Pipe and Fittings	99
Manholes	99
Excavation and Backfill	100
Recreational Facilities	100
Landscaping	100
Seeding	100
Plantings	101
Irrigation	101

Description	Page
ROADS AND BRIDGES	101
Site Preparation	101
Clearing and Grubbing	101
Demolition	102
Drainage Pipe	102
Existing Roadway	102
Existing Structures	103
Deer Creek Box Culvert	103
Bridges	104
Earthwork	104
Erosion Control	105
Synthetic Erosion Control	105
Riprap	105
Mitigation	105
Site Improvements	105
Paving	105
Asphalt Pavement	105
Bridges	106
Traffic Control Features	106
Landscaping	107
Seeding	107
Gravel Pond Dike	107
Civil/Mechanical Utilities	107
Storm Drainage	107
Storm Drainage	108
Pipe	108
Box Culvert	108
Excavation and Backfill	109
MISCELLANEOUS TREE REMOVAL	109
ENGINEERING AND DESIGN	110
PLANNING, ENGINEERING, AND DESIGN	110
SUPERVISION AND ADMINISTRATION	111
CONSTRUCTION MANAGEMENT	111

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
SUMMARY			3,966,165.59	4,556,615.97	7,022,269.93	60,759,183.28	76,304,234.77	23,898,986.76	84,998,348.28	103,606,157.25
LANDS AND DAMAGES	EA	1.0000	0.00	0.00	0.00	12,576,800.00	12,576,800.00	0.00	12,576,800.00	15,092,160.00
FISH AND WILDLIFE FACILITIES	EA	1.0000	0.00	0.00	0.00	31,799,186.28	31,799,186.28	0.00	31,799,186.28	37,988,216.22
RECREATION FACILITIES	EA	1.0000	3,966,165.59	4,556,615.97	7,022,269.93	7,063,191.35	22,608,242.84	23,898,986.76	31,302,356.35	39,127,945.44
PLANNING, ENGINEERING, AND DESIGN	EA	1.0000	0.00	0.00	0.00	5,760,721.13	5,760,721.13	0.00	5,760,721.13	7,046,746.34
CONSTRUCTION MANAGEMENT	EA	1.0000	0.00	0.00	0.00	3,559,284.52	3,559,284.52	0.00	3,559,284.52	4,351,089.25

<u>Description</u>	<u>UOM</u>	<u>Quantity</u>	<u>DirectSubBid</u>	<u>DirectCost</u>	<u>CostToPrime</u>	<u>ContractCost</u>	<u>ProjectCost</u>
REAL ESTATE			12,576,800.00	12,576,800.00	0.00	12,576,800.00	15,092,160.00
LANDS AND DAMAGES	EA	1.0000	12,576,800.00	12,576,800.00	0.00	12,576,800.00	15,092,160.00
PROPERTY ACQUISITION	EA	1.0000	12,576,800.00	12,576,800.00	0.00	12,576,800.00	15,092,160.00
Property acquisition for off-site noncritical enhancement activities	LS	1.0000	12,576,800.00	12,576,800.00	0.00	12,576,800.00	15,092,160.00

(Note: Provided by Betty Peake (CENWO-PM-AE) on 13 July 2011. Contingency of 20% applied to get to Project Cost amount Refer to the Draft Compensatory Mitigation Plan, June 2011, by ERO and Tetra Tech for more information on the development of this cost.)

Description	UOM	Quantity	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
ENVIRONMENTAL MITIGATION			31,799,186.28	31,799,186.28	0.00	31,799,186.28	37,988,216.22
FISH AND WILDLIFE FACILITIES	EA	1.0000	31,799,186.28	31,799,186.28	0.00	31,799,186.28	37,988,216.22
ENVIRONMENTAL MITIGATION FACILITIES	EA	1.0000	31,799,186.28	31,799,186.28	0.00	31,799,186.28	37,988,216.22
Enhancement activities for on-site noncritical and critical habitat mitigation	LS	1.0000	16,504,394.37	16,504,394.37	0.00	16,504,394.37	19,805,273.24
(Note: Provided by Betty Peake (CENWO-PM-AE) on 13 July 2011. Includes 5% for mobilization costs (\$785,923.54). Contingency of 20% applied to get to Project Cost amount. Refer to the Draft Compensatory Mitigation Plan, June 2011, by ERO and Tetra Tech for more information on the development of this cost.)							
Enhancement activities for off-site noncritical habitat mitigation	LS	1.0000	12,320,695.65	12,320,695.65	0.00	12,320,695.65	14,784,834.78
(Note: Provided by Betty Peake (CENWO-PM-AE) on 13 July 2011. Contingency of 20% applied to get to Project Cost amount. Refer to the Draft Compensatory Mitigation Plan, June 2011, by ERO and Tetra Tech for more information on the development of this cost.)							
Mitigation activities for off-site critical habitat mitigation	LS	1.0000	2,326,540.13	2,326,540.13	0.00	2,326,540.13	2,675,521.15
(Note: Provided by Betty Peake (CENWO-PM-AE) on 13 July 2011. Contingency of 15% applied to get to Project Cost amount. Refer to the Draft Compensatory Mitigation Plan, June 2011, by ERO and Tetra Tech for more information on the development of this cost.)							
Mitigation activities for off-site critical habitat mitigation, other construction costs (mobilization, surveying, traffic, water & erosion control, signing & striping, materials testing)	LS	1.0000	500,206.13	500,206.13	0.00	500,206.13	575,237.05
(Note: Provided by Betty Peake (CENWO-PM-AE) on 13 July 2011 (Value is 21.5% of construction cost of off-site critical habitat mitigation). Contingency of 15% applied to get to Project Cost amount. Refer to the Draft Compensatory Mitigation Plan, June 2011, by ERO and Tetra Tech for more information on the development of this cost.)							
Mitigation activities for off-site critical habitat mitigation, road treatment costs	LS	1.0000	147,350.00	147,350.00	0.00	147,350.00	147,350.00
(Note: Provided by Betty Peake (CENWO-PM-AE) on 13 July 2011. No contingency, E&D, or S&A markups should be applied to this amount per Betty. Refer to the Draft Compensatory Mitigation Plan, June 2011, by ERO and Tetra Tech for more information on the development of this cost.)							

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
RECREATIONAL MITIGATION			3,966,165.59	4,556,615.97	7,022,269.93	7,063,191.35	22,608,242.84	23,898,986.76	31,302,356.35	39,127,945.44
RECREATION FACILITIES	EA	1.0000	3,966,165.59	4,556,615.97	7,022,269.93	7,063,191.35	22,608,242.84	23,898,986.76	31,302,356.35	39,127,945.44
(Note: The quantities used are based on Appendix 1 Cost Estimate Details provided by EDAW. It was considered appropriate to use the EDAW estimate as a basis since EDAW was under contract with Colorado State Parks, who will be constructing the recreation modifications associated with this project.)										
NORTH RAMP	LS	1.0000	93,719.01	67,295.06	278,020.60	79,007.75	518,042.42	614,699.35	763,966.25	954,957.81
Demolition	LS	1.0000	16,288.89	18,848.94	0.00	5,407.75	40,545.58	40,545.58	50,391.23	62,989.04
Clearing and Grubbing	ACR	3.0000	3,016.48	4,075.09	0.00	0.00	7,091.57	7,091.57	8,813.60	11,017.01
Selective clearing, dry clearing, heavy size brush, average grub and trees, excludes removal offsite	ACR	3.0000	2,354.07	3,818.11	0.00	0.00	6,172.18	6,172.18	7,670.96	9,588.71
Selective clearing, load spoils, chute load, includes 2 mile haul to dump	CY	36.0000	662.41	256.98	0.00	0.00	919.39	919.39	1,142.64	1,428.30
Removals	LS	1.0000	13,272.41	14,773.85	0.00	5,407.75	33,454.02	33,454.02	41,577.62	51,972.03
Demolish, remove pavement & curb, remove bituminous pavement, 3" thick, excludes hauling and disposal fees	SY	955.0000	1,808.12	1,121.31	0.00	0.00	2,929.43	2,929.43	3,640.78	4,550.97
(Note: Asphalt trail to picnic shelters.)										
Cold milling asphalt paving, 1" to 3" asphalt pavement, 5,000 to 10,000 S.Y., cold planing & cleaning	SY	13,410.0000	6,189.32	9,396.60	0.00	0.00	15,585.92	15,585.92	19,370.64	24,213.30
(Note: Assume 6" depth existing pavement. Milled material to be stockpiled and reused as base course for new roads/parking. No disposal costs.)										
Remove traffic posts to 12'-0" high	EA	40.0000	303.33	66.13	0.00	0.00	369.45	369.45	459.17	573.96
Selective demolition, utility poles & cross arms, utility poles, wood, 35'-45' high	EA	2.0000	411.27	52.94	0.00	0.00	464.21	464.21	576.93	721.16
Demo existing shade structure	EA	4.0000	2,185.77	1,096.49	0.00	4,460.00	7,742.25	7,742.25	9,622.30	12,027.87
(Note: Assume area of structure is 160 SF. Assume 12' height. Assume 12 CY of material to dispose of at landfill. Assume 1.5 TN/CY.)										
Remove information kiosk	EA	2.0000	567.38	100.00	0.00	0.00	667.38	667.38	829.43	1,036.79

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Borrow, clay, till, or blasted rock, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted (Note: Load demo material (80 CY asphalt trail + 5 CY utility poles).)	BCY	85.0000	44.06	24.60	0.00	0.00	68.66	68.66	85.33	106.67
Hauling, excavated or borrow material, loose cubic yards, 10 mile round trip, 0.6 load/hour, 16.5 C.Y. dump trailer, highway haulers, excludes loading (Note: Haul demo material, not including structures (80 CY asphalt trail + 5 CY utility poles).)	LCY	85.0000	222.20	391.07	0.00	0.00	613.28	613.28	762.20	952.75
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip @ 20 MPH (4.2 cycles/hour), 12 C.Y. truck, highway haulers, excludes loading (Note: Haul millings to stockpile area. Assuming crushed asphalt is 45 LB/CF and in place asphalt is 140 LB/CF, swell factor is about 211%.)	LCY	2,357.9250	1,540.98	2,524.71	0.00	0.00	4,065.69	4,065.69	5,052.95	6,316.19
Selective demoliton, dump charges, typical urban city, building construction materials, includes tipping fees only (Note: Rate for construction debris and concrete deposited at the Denver Arapahoe Landfill, 720.876.2620.)	CY	85.0000	0.00	0.00	0.00	947.75	947.75	947.75	1,177.89	1,472.36
Earthwork	LS	1.0000	15,288.15	30,918.77	0.00	0.00	46,206.92	57,821.33	71,862.03	89,827.54
Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul	CY	2,868.0000	1,417.78	2,992.83	0.00	0.00	4,410.61	5,519.24	6,859.47	8,574.34
Borrow, topsoil or loam, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	2,868.0000	1,264.31	706.09	0.00	0.00	1,970.40	2,465.67	3,064.41	3,830.51
Excavate and load, bank measure, medium material, 3-1/2 C.Y. bucket, hydraulic excavator	BCY	5,592.0000	2,745.41	5,406.52	0.00	0.00	8,151.93	10,200.98	12,678.07	15,847.59

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	5,592.0000	2,107.13	6,531.56	0.00	0.00	8,638.68	10,810.07	13,435.07	16,793.84
Fill, dumped material, spread, by dozer, excludes compaction	LCY	5,592.0000	2,391.18	5,047.61	0.00	0.00	7,438.79	9,308.58	11,568.97	14,461.22
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	1,617.0000	609.30	1,888.68	0.00	0.00	2,497.99	3,125.87	3,884.93	4,856.16
Fine grading, slopes, gentle, gentle, finish grading	SY	31,097.0000	1,880.96	1,242.73	0.00	0.00	3,123.69	3,908.85	4,858.03	6,072.54
Rock removal allowance	HR	36.0000	2,872.08	7,102.75	0.00	0.00	9,974.83	12,482.06	15,513.07	19,391.34
Roads and Parking	LS	1.0000	15,621.13	10,785.16	167,707.92	0.00	194,114.22	242,906.07	301,890.73	377,363.41
Asphalt Pavement	TON	2,250.0000	11,572.94	9,366.92	146,301.10	0.00	167,240.96	209,278.05	260,096.85	325,121.06
(Note: Assume 3" wearing course, 3" binder course, and 6" recycled base course. Assuming 140 LB/CF for density of asphalt equates to about .315 TN/SY @ 6" depth.)										
Compaction, 3 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	ECY	2,380.9524	578.50	848.33	0.00	0.00	1,426.83	1,785.47	2,219.04	2,773.80
(Note: Assume 12" compacted subgrade.)										
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	2,380.9524	652.60	669.39	2,844.88	0.00	4,166.86	5,214.23	6,480.40	8,100.50
Base course drainage layers, aggregate base course for roadways and large paved areas, CDOT class 6, compacted, 3/4", to 6" deep	SY	7,142.8571	1,957.33	3,392.08	0.00	0.00	5,349.42	6,694.03	8,319.53	10,399.41
(Note: No material cost since we are reusing milled material from existing pavement.)										
Asphalt surface treatment, tack coat, emulsion, 0.15 gallons per S.Y., 10,000 S.Y.	SY	7,142.8571	369.63	379.14	7,866.71	0.00	8,615.49	10,781.04	13,398.99	16,748.74
Plant-mix asphalt paving, for highways and large paved areas, binder course, alternate method for developing paving costs, 3" thick	TON	1,125.0000	3,787.81	1,925.84	67,210.31	0.00	72,923.96	91,253.86	113,412.96	141,766.19

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Plant-mix asphalt paving, for highways and large paved areas, wearing course, alternate method for developing paving costs, 3" thick	TON	1,125.0000	4,227.08	2,152.14	68,379.19	0.00	74,758.41	93,549.41	116,265.93	145,332.41
Curb and Gutter	LF	3,700.0000	3,152.65	1,049.67	19,640.53	0.00	23,842.85	29,835.91	37,080.93	46,351.17
Cast-in place concrete curbs & gutters, straight, machine formed, 6" high curb, 6" thick gutter, 24" wide	LF	3,700.0000	2,812.47	1,049.67	19,221.50	0.00	23,083.64	28,885.86	35,900.19	44,875.24
Concrete surface treatment, curing, sprayed membrane compound	CSF	74.0000	340.18	0.00	419.03	0.00	759.21	950.05	1,180.75	1,475.93
Pavement Markings	LS	1.0000	895.53	368.57	1,766.30	0.00	3,030.40	3,792.11	4,712.95	5,891.18
Pavement markings, layout of pavement marking	LF	10,000.0000	250.32	106.13	0.00	0.00	356.45	446.05	554.36	692.95
Painted pavement markings, acrylic waterborne, white or yellow, 4" wide	LF	10,000.0000	645.21	262.44	1,766.30	0.00	2,673.95	3,346.06	4,158.59	5,198.23
Boat Ramps	LS	1.0000	29,570.36	4,377.90	83,210.87	0.00	117,159.13	142,037.97	176,528.92	220,661.15
Concrete Boat Ramp	SF	16,000.0000	25,547.17	2,688.29	70,742.87	0.00	98,978.33	123,857.17	153,933.29	192,416.61
Base course drainage layers, aggregate base course for roadways and large paved areas, crushed stone base, compacted, crushed 1-1/2" stone base, to 6" deep	SY	1,777.7778	697.69	881.56	12,745.07	0.00	14,324.32	17,924.83	22,277.50	27,846.87
C.I.P. concrete forms, slab on grade, edge, wood, 7" to 12" high, 4 use, includes erecting, bracing, stripping and cleaning	SFC	885.3333	2,479.68	0.00	551.92	0.00	3,031.60	3,793.61	4,714.81	5,893.51
(Note: Quantity based on area of slab from previous estimate (ci12428).)										
Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	TON	7.5200	4,391.22	0.00	6,953.82	0.00	11,345.04	14,196.69	17,644.06	22,055.07
(Note: Quantity based on area of slab from previous estimate (ci12428). Assume #4 @ 18" each way in top of slab.)										

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Structural concrete, ready mix, normal weight, 4000 PSI, includes local aggregate, sand, portland cement and water, delivered, excludes all additives and treatments	CY	434.5679	0.00	0.00	45,151.60	0.00	45,151.60	56,500.75	70,220.78	87,775.97
(Note: Quantity based on area of slab from previous estimate (ci12428).)										
Structural concrete, placing, slab on grade, direct chute, over 6" thick, includes vibrating, excludes material	CY	434.5679	3,756.36	127.26	0.00	0.00	3,883.63	4,859.80	6,039.90	7,549.88
(Note: Quantity based on area of slab from previous estimate (ci12428).)										
Concrete finishing, floors, monolithic, screed finish	SF	16,000.0000	5,775.85	0.00	0.00	0.00	5,775.85	7,227.65	8,982.74	11,228.42
Curing, burlap, 12 oz., 4 uses assumed	CSF	160.0000	1,270.47	0.00	2,659.84	0.00	3,930.31	4,918.22	6,112.50	7,640.63
Control joint, concrete floor slab, sawcut in green concrete, 1-1/2" depth	LF	2,000.0000	721.98	139.78	187.02	0.00	1,048.78	1,312.40	1,631.09	2,038.86
(Note: Quantity based on area of slab from previous estimate (ci12428).)										
Sawcut and seal joint, 1/2" x 3/4"	LF	2,000.0000	3,465.51	381.44	2,493.60	0.00	6,340.56	7,934.30	9,860.97	12,326.22
(Note: Quantity based on area of slab from previous estimate (ci12428).)										
Dewatering allowance	LS	1.0000	2,988.41	1,158.23	0.00	0.00	4,146.64	5,188.92	6,448.95	8,061.18
Riprap	TON	400.0000	997.18	1,156.28	12,468.00	0.00	14,621.46	14,621.46	18,171.98	22,714.97
Place riprap	TON	400.0000	997.18	1,156.28	0.00	0.00	2,153.46	2,153.46	2,676.39	3,345.48
Ripap, material only	TON	400.0000	0.00	0.00	12,468.00	0.00	12,468.00	12,468.00	15,495.59	19,369.49
Boat Docks	LS	1.0000	3,026.00	533.33	0.00	0.00	3,559.34	3,559.34	4,423.65	5,529.56
Relocate existing dock	EA	4.0000	3,026.00	533.33	0.00	0.00	3,559.34	3,559.34	4,423.65	5,529.56
Trails	LS	1.0000	6,971.41	57.95	6,666.31	0.00	13,695.67	17,138.16	21,299.80	26,624.76
Concrete Trail	SF	4,500.0000	6,971.41	57.95	6,666.31	0.00	13,695.67	17,138.16	21,299.80	26,624.76
Compaction, 4 passes, 24" wide, 6" lifts, walk behind, vibrating roller	ECY	83.3333	167.28	34.52	0.00	0.00	201.80	252.53	313.85	392.31
(Note: Assume 6" compacted subgrade.)										

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	83.3333	22.84	23.43	99.57	0.00	145.84	182.50	226.81	283.52
Sidewalks, driveways, and patios, sidewalk, concrete, cast-in-place, broomed finish, 3000 psi, 4" thick, excludes base and welded wire mesh	SF	4,500.0000	6,574.42	0.00	6,311.93	0.00	12,886.34	16,125.40	20,041.12	25,051.40
Concrete surface treatment, curing, sprayed membrane compound	CSF	45.0000	206.87	0.00	254.81	0.00	461.68	577.73	718.02	897.53
Architecture	LS	1.0000	907.80	160.00	0.00	73,600.00	74,667.80	74,667.80	92,799.32	115,999.15
Relocate information kiosk	EA	2.0000	907.80	160.00	0.00	0.00	1,067.80	1,067.80	1,327.09	1,658.87
New shade structure	SF	640.0000	0.00	0.00	0.00	73,600.00	73,600.00	73,600.00	91,472.22	114,340.28
(Note: 4 shelters @ 160 SF each.)										
Furnishings	LS	1.0000	553.63	0.00	0.00	0.00	553.63	553.63	688.06	860.08
Signs, stock, reflectorized, UTMCD standard, guide & directional sign, 12" x 18", with posts	EA	40.0000	553.63	0.00	0.00	0.00	553.63	553.63	688.06	860.08
(Note: Relocation of existing signs. No material costs.)										
Utilities	LS	1.0000	1,416.30	441.41	624.25	0.00	2,481.96	3,150.83	3,915.95	4,894.94
Water Distribution	LS	1.0000	1,416.30	441.41	624.25	0.00	2,481.96	3,150.83	3,915.95	4,894.94
Pipe and Fittings	LF	400.0000	233.31	0.00	95.59	0.00	328.89	417.53	518.92	648.65
Public Water Utility Distribution Piping, polyvinyl chloride pressure pipe, 1", class 200, SDR 21, excludes excavation or backfill	LF	400.0000	233.31	0.00	95.59	0.00	328.89	417.53	518.92	648.65
(Note: Assume that fittings/couplings are included in the unit cost.)										
Excavation and Backfill	LS	1.0000	1,182.99	441.41	528.67	0.00	2,153.07	2,733.31	3,397.03	4,246.29
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	222.2222	592.22	227.96	0.00	0.00	820.18	1,041.21	1,294.05	1,617.56
(Note: Assume 3' x 5' trench.)										

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	22.2222	24.76	17.74	504.15	0.00	546.64	693.96	862.47	1,078.08
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	200.0000	211.68	151.65	0.00	0.00	363.33	461.24	573.24	716.55
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	222.2222	348.07	44.07	0.00	0.00	392.14	497.81	618.70	773.37
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	4.0000	6.27	0.00	24.52	0.00	30.79	39.08	48.57	60.72
Electrical and Telecommunications	LS	1.0000	2,311.99	217.40	1,180.93	0.00	3,710.31	4,710.21	5,853.99	7,317.49
Conduit and Wiring	LF	200.0000	915.91	0.00	732.29	0.00	1,648.19	2,092.37	2,600.45	3,250.57
Electrical Underground Ducts and Manholes, PVC, with coupling, 1-1/2" diameter, schedule 40, installed by direct burial in slab or duct bank	LF	200.0000	387.27	0.00	365.73	0.00	753.00	955.93	1,188.06	1,485.07
Electrical Underground Ducts and Manholes, nylon polyethylene pull rope, 1/4"	LF	200.0000	81.33	0.00	37.40	0.00	118.73	150.73	187.33	234.16
Wire, copper, stranded, 600 volt, #8, type THWN-THHN, in raceway	CLF	8.8000	447.30	0.00	329.16	0.00	776.46	985.71	1,225.07	1,531.33
Handholes	EA	1.0000	416.97	55.15	436.38	0.00	908.50	1,153.33	1,433.40	1,791.74
Electrical Underground Ducts and Manholes, hand holes, precast concrete, with concrete cover, 2' x 2' x 3' deep, excludes excavation, backfill and cast in place concrete (Note: Quantity assumed.)	EA	1.0000	416.97	55.15	436.38	0.00	908.50	1,153.33	1,433.40	1,791.74
Area Lighting	LS	1.0000	833.95	110.29	0.00	0.00	944.24	1,198.70	1,489.78	1,862.23

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Electrical Utility Poles, poles, wood, preservative treatment, 35' high, excludes excavation, backfill and cast in place concrete, see also div. 16520	EA	2.0000	833.95	110.29	0.00	0.00	944.24	1,198.70	1,489.78	1,862.23
(Note: Relocate existing poles. No material costs.)										
Excavation and Backfill	LS	1.0000	145.16	51.96	12.26	0.00	209.38	265.81	330.36	412.95
Excavating, chain trencher, utility trench, common earth, 40 H.P., 12" wide, 36" deep, chain trencher, operator riding, includes backfill	LF	200.0000	84.71	30.71	0.00	0.00	115.42	146.52	182.10	227.63
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	22.2222	23.13	16.85	0.00	0.00	39.98	50.75	63.08	78.85
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	22.2222	34.24	4.41	0.00	0.00	38.64	49.06	60.97	76.22
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	2.0000	3.08	0.00	12.26	0.00	15.34	19.48	24.21	30.26
Landscaping	LS	1.0000	2,593.94	1,487.52	15,944.51	0.00	20,025.97	25,059.62	31,144.83	38,931.04
Seeding	SF	154,880.0000	1,156.58	746.05	10,707.95	0.00	12,610.57	15,780.32	19,612.24	24,515.30
Soil preparation, structural soil mixing, tilling topsoil, 6" deep, 20 HP tractor, disk harrow\	MSF	154.8800	180.94	94.83	0.00	0.00	275.76	345.08	428.87	536.09
Seeding, mechanical seeding, 215 lb/acre	ACR	3.5556	747.67	391.85	1,976.41	0.00	3,115.93	3,899.14	4,845.96	6,057.45
Soil preparation, mulching, hay, 1" deep, power mulcher, large	MSF	154.8800	121.05	158.32	8,367.86	0.00	8,647.23	10,820.77	13,448.37	16,810.46
Fertilizing, hydro spread, 1.5 lb./MSF	MSF	154.8800	106.93	101.04	363.68	0.00	571.64	715.33	889.03	1,111.29
Plantings	LS	1.0000	1,437.36	741.48	5,236.56	0.00	7,415.40	9,279.31	11,532.59	14,415.74
General planting, local varieties, trees, 5' - 6'	EA	19.0000	919.08	474.12	4,145.61	0.00	5,538.81	6,931.02	8,614.08	10,767.60
General planting, local varieties, shrubs, 2' - 3'	EA	30.0000	518.28	267.36	1,090.95	0.00	1,876.59	2,348.28	2,918.51	3,648.14

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Irrigation	LS	1.0000	2,195.41	0.00	2,685.82	0.00	4,881.22	6,108.15	7,591.39	9,489.23
Irrigation system point-of-connection	EA	1.0000	563.85	0.00	1,246.80	0.00	1,810.65	2,265.77	2,815.96	3,519.95
Underground sprinklers irrigation system, for lawns, residential system, custom, 1" supply (Note: Quantity assumed.)	SF	3,000.0000	1,186.41	0.00	903.93	0.00	2,090.34	2,615.77	3,250.95	4,063.69
Underground sprinklers irrigation system, for lawns, pop-up bubbler head w/risers, hi-pop head, 6", includes mechanical joints, excludes piping, excavation and backfill	EA	50.0000	445.14	0.00	535.09	0.00	980.23	1,226.62	1,524.47	1,905.59
MASSEY DRAW	LS	1.0000	70,325.43	40,326.75	169,616.43	31,250.00	311,518.61	373,969.59	464,780.29	580,975.36
Demolition	LS	1.0000	6,035.29	7,992.85	0.00	0.00	14,028.14	14,028.14	17,434.58	21,793.22
Clearing and Grubbing	ACR	2.0000	2,010.99	2,716.72	0.00	0.00	4,727.71	4,727.71	5,875.74	7,344.67
Selective clearing, dry clearing, heavy size brush, average grub and trees, excludes removal offsite	ACR	2.0000	1,569.38	2,545.41	0.00	0.00	4,114.79	4,114.79	5,113.98	6,392.47
Selective clearing, load spoils, chute load, includes 2 mile haul to dump	CY	24.0000	441.61	171.32	0.00	0.00	612.92	612.92	761.76	952.20
Removals	LS	1.0000	4,024.31	5,276.12	0.00	0.00	9,300.43	9,300.43	11,558.84	14,448.55
Cold milling asphalt paving, 1" to 3" asphalt pavement, 5,000 to 10,000 S.Y., cold planing & cleaning (Note: Assume 6" depth existing pavement. Milled material to be stockpiled and reused as base course for new roads/parking. No disposal costs.)	SY	5,800.0000	2,676.96	4,064.15	0.00	0.00	6,741.11	6,741.11	8,378.05	10,472.57
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip @ 20 MPH (4.2 cycles/hour), 12 C.Y. truck, highway haulers, excludes loading (Note: Haul millings to stockpile area. Assuming crushed asphalt is 45 LB/CF and in place asphalt is 140 LB/CF, swell factor is about 211%.)	LCY	1,019.8333	666.49	1,091.97	0.00	0.00	1,758.46	1,758.46	2,185.47	2,731.84
Remove horse shoe boards	EA	4.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Remove volleyball court posts	EA	2.0000	226.95	40.00	0.00	0.00	266.95	266.95	331.77	414.72
Earthwork	LS	1.0000	7,685.55	15,556.03	0.00	0.00	23,241.58	29,083.50	36,145.82	45,182.27
Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul	CY	2,269.0000	1,121.67	2,367.76	0.00	0.00	3,489.42	4,366.51	5,426.83	6,783.53
Borrow, topsoil or loam, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	2,269.0000	1,000.25	558.62	0.00	0.00	1,558.87	1,950.70	2,424.39	3,030.49
Excavate and load, bank measure, medium material, 3-1/2 C.Y. bucket, hydraulic excavator	BCY	2,230.0000	1,094.83	2,156.03	0.00	0.00	3,250.86	4,067.99	5,055.81	6,319.76
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	2,230.0000	840.29	2,604.68	0.00	0.00	3,444.97	4,310.88	5,357.69	6,697.12
Fill, dumped material, spread, by dozer, excludes compaction	LCY	2,230.0000	953.56	2,012.91	0.00	0.00	2,966.47	3,712.11	4,613.52	5,766.90
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	1,617.0000	609.30	1,888.68	0.00	0.00	2,497.99	3,125.87	3,884.93	4,856.16
Fine grading, slopes, gentle, gentle, finish grading	SY	10,409.0000	629.61	415.98	0.00	0.00	1,045.58	1,308.40	1,626.11	2,032.64
Rock removal allowance	HR	18.0000	1,436.04	3,551.37	0.00	0.00	4,987.41	6,241.03	7,756.54	9,695.67
Parking Area	LS	1.0000	5,331.42	4,059.00	66,134.91	0.00	75,525.33	93,741.40	116,504.54	145,630.67
Asphalt Pavement	TON	975.0000	5,014.94	4,059.00	63,397.14	0.00	72,471.08	90,687.15	112,708.63	140,885.79
(Note: Assume 3" wearing course, 3" binder course, and 6" recycled base course. Assuming 140 LB/CF for density of asphalt equates to about .315 TN/SY @ 6" depth.)										
Compaction, 3 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	ECY	1,031.7460	250.68	367.61	0.00	0.00	618.29	773.71	961.58	1,201.98
(Note: Assume 12" compacted subgrade.)										
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	1,031.7460	282.79	290.07	1,232.78	0.00	1,805.64	2,259.50	2,808.17	3,510.22

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Base course drainage layers, aggregate base course for roadways and large paved areas, CDOT class 6, compacted, 3/4", to 6" deep (Note: No material cost since we are reusing milled material from existing pavement.)	SY	3,095.2381	848.18	1,469.90	0.00	0.00	2,318.08	2,900.74	3,605.13	4,506.41
Asphalt surface treatment, tack coat, emulsion, 0.15 gallons per S.Y., 10,000 S.Y.	SY	3,095.2381	160.17	164.29	3,408.91	0.00	3,733.38	4,671.79	5,806.23	7,257.79
Plant-mix asphalt paving, for highways and large paved areas, binder course, alternate method for developing paving costs, 3" thick	TON	487.5000	1,641.38	834.53	29,124.47	0.00	31,600.38	39,543.34	49,145.61	61,432.02
Plant-mix asphalt paving, for highways and large paved areas, wearing course, alternate method for developing paving costs, 3" thick	TON	487.5000	1,831.73	932.59	29,630.98	0.00	32,395.31	40,538.08	50,381.90	62,977.38
Miscellaneous	LS	1.0000	316.48	0.00	2,737.77	0.00	3,054.24	3,054.24	3,795.90	4,744.88
Precast concrete parking bumpers, wheel stops, precast concrete, 8" x 13" x 6" - 0", 2 dowels per each	EA	34.0000	316.48	0.00	2,737.77	0.00	3,054.24	3,054.24	3,795.90	4,744.88
Trails	LS	1.0000	890.43	277.23	2,915.49	0.00	4,083.15	5,109.48	6,350.21	7,937.76
Asphalt Trail	SF	3,180.0000	890.43	277.23	2,915.49	0.00	4,083.15	5,109.48	6,350.21	7,937.76
(Note:)										
Compaction, 4 passes, 24" wide, 6" lifts, walk behind, vibrating roller (Note: Assume 6" compacted subgrade.)	ECY	58.8889	118.21	24.39	0.00	0.00	142.61	178.45	221.79	277.23
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	58.8889	16.14	16.56	70.36	0.00	103.06	128.97	160.28	200.35
Sidewalks, driveways, and patios, side walks, asphaltic concrete, 2-1/2" thick, excludes base	SY	353.3333	756.08	236.28	2,845.13	0.00	3,837.48	4,802.06	5,968.14	7,460.17

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Architecture	LS	1.0000	0.00	0.00	0.00	31,250.00	31,250.00	31,250.00	38,838.41	48,548.01
New restroom building (Note: Vault restroom.)	SF	250.0000	0.00	0.00	0.00	31,250.00	31,250.00	31,250.00	38,838.41	48,548.01
Furnishings	LS	1.0000	778.12	137.14	0.00	0.00	915.26	915.26	1,137.51	1,421.89
Relocate picnic tables	EA	8.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Relocate trash receptacles	EA	3.0000	97.26	17.14	0.00	0.00	114.41	114.41	142.19	177.74
Relocate benches	EA	2.0000	226.95	40.00	0.00	0.00	266.95	266.95	331.77	414.72
Recreational Facilities	LS	1.0000	11,347.52	2,000.00	467.55	0.00	13,815.07	13,815.07	17,169.77	21,462.21
Horseshoe pit, includes relocating horse shoe boards	EA	2.0000	3,782.51	666.67	0.00	0.00	4,449.17	4,449.17	5,529.56	6,911.95
Volleyball court, includes relocating court posts, includes sand	EA	1.0000	7,565.01	1,333.33	467.55	0.00	9,365.89	9,365.89	11,640.21	14,550.26
Landscaping	LS	1.0000	19,746.12	10,304.50	83,022.52	0.00	113,073.13	141,494.79	175,853.84	219,817.30
Seeding	SF	122,572.0000	915.32	590.42	8,474.27	0.00	9,980.00	12,488.54	15,521.12	19,401.40
Soil preparation, structural soil mixing, tilling topsoil, 6" deep, 20 HP tractor, disk harrow\	MSF	122.5720	143.19	75.05	0.00	0.00	218.24	273.10	339.41	424.26
Seeding, mechanical seeding, 215 lb/acre	ACR	2.8139	591.70	310.11	1,564.13	0.00	2,465.95	3,085.78	3,835.09	4,793.87
Soil preparation, mulching, hay, 1" deep, power mulcher, large	MSF	122.5720	95.80	125.30	6,622.32	0.00	6,843.42	8,563.55	10,643.03	13,303.79
Fertilizing, hydro spread, 1.5 lb./MSF	MSF	122.5720	84.62	79.96	287.82	0.00	452.40	566.11	703.58	879.48
Plantings	LS	1.0000	18,830.80	9,714.07	74,548.25	0.00	103,093.13	129,006.25	160,332.72	200,415.90
General planting, local varieties, trees, 5' - 6'	EA	300.0000	14,511.81	7,486.08	65,457.00	0.00	87,454.89	109,437.23	136,011.78	170,014.72
General planting, local varieties, shrubs, 2' - 3'	EA	250.0000	4,318.99	2,228.00	9,091.25	0.00	15,638.24	19,569.01	24,320.94	30,401.17
Irrigation	LS	1.0000	18,510.99	0.00	17,075.97	0.00	35,586.95	44,531.96	55,345.62	69,182.02
Irrigation system point-of- connection	EA	1.0000	563.85	0.00	1,246.80	0.00	1,810.65	2,265.77	2,815.96	3,519.95

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Underground sprinklers irrigation system, for lawns, residential system, custom, 1" supply (Note: Quantity assumed.)	SF	33,000.0000	13,050.56	0.00	9,943.23	0.00	22,993.79	28,773.42	35,760.44	44,700.55
Underground sprinklers irrigation system, for lawns, pop-up bubbler head w/risers, hi-pop head, 6", includes mechanical joints, excludes piping, excavation and backfill	EA	550.0000	4,896.58	0.00	5,885.94	0.00	10,782.52	13,492.78	16,769.21	20,961.52
EAGLE COVE	LS	1.0000	47,463.33	25,148.92	90,683.04	1,226.50	164,521.78	201,048.79	249,869.29	312,336.61
Demolition	LS	1.0000	7,085.08	7,551.52	0.00	1,226.50	15,863.10	15,863.10	19,715.13	24,643.91
Clearing and Grubbing	ACR	4.0000	4,021.97	5,433.45	0.00	0.00	9,455.42	9,455.42	11,751.47	14,689.34
Selective clearing, dry clearing, heavy size brush, average grub and trees, excludes removal offsite	ACR	4.0000	3,138.76	5,090.82	0.00	0.00	8,229.57	8,229.57	10,227.95	12,784.94
Selective clearing, load spoils, chute load, includes 2 mile haul to dump	CY	48.0000	883.21	342.63	0.00	0.00	1,225.85	1,225.85	1,523.52	1,904.40
Removals	LS	1.0000	3,063.11	2,118.07	0.00	1,226.50	6,407.68	6,407.68	7,963.65	9,954.57
Demolish, remove pavement & curb, remove bituminous pavement, 3" thick, excludes hauling and disposal fees	SY	1,310.0000	2,480.24	1,538.13	0.00	0.00	4,018.38	4,018.38	4,994.16	6,242.70
Remove post and cable fence	LF	84.0000	238.30	42.00	0.00	0.00	280.30	280.30	348.36	435.45
Borrow, clay, till, or blasted rock, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted (Note: Load demo material (110 CY asphalt trail).)	BCY	110.0000	57.01	31.84	0.00	0.00	88.86	88.86	110.43	138.04
Hauling, excavated or borrow material, loose cubic yards, 10 mile round trip, 0.6 load/hour, 16.5 C.Y. dump trailer, highway haulers, excludes loading	LCY	110.0000	287.55	506.10	0.00	0.00	793.65	793.65	986.37	1,232.96

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
(Note: Haul demo material (110 CY asphalt trail))										
Selective demoliton, dump charges, typical urban city, building construction materials, includes tipping fees only	CY	110.0000	0.00	0.00	0.00	1,226.50	1,226.50	1,226.50	1,524.33	1,905.41
(Note: Rate for construction debris and concrete deposited at the Denver Arapahoe Landfill, 720.876.2620.)										
Earthwork	LS	1.0000	3,853.74	7,684.40	0.00	0.00	11,538.14	14,438.32	17,944.37	22,430.46
Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul	CY	1,014.0000	501.26	1,058.13	0.00	0.00	1,559.40	1,951.36	2,425.21	3,031.51
Borrow, topsoil or loam, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	1,014.0000	447.00	249.64	0.00	0.00	696.65	871.75	1,083.44	1,354.30
Excavate and load, bank measure, medium material, 3-1/2 C.Y. bucket, hydraulic excavator	BCY	850.0000	417.31	821.81	0.00	0.00	1,239.12	1,550.58	1,927.10	2,408.88
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	850.0000	320.29	992.82	0.00	0.00	1,313.10	1,643.16	2,042.17	2,552.71
Fill, dumped material, spread, by dozer, excludes compaction	LCY	850.0000	363.47	767.25	0.00	0.00	1,130.72	1,414.93	1,758.52	2,198.15
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine grading, slopes, gentle, gentle, finish grading	SY	6,090.0000	368.36	243.38	0.00	0.00	611.74	765.50	951.39	1,189.24
Rock removal allowance	HR	18.0000	1,436.04	3,551.37	0.00	0.00	4,987.41	6,241.03	7,756.54	9,695.67
Roads and Parking	LS	1.0000	790.89	639.87	14,879.92	0.00	16,310.69	19,755.68	24,552.93	30,691.16
Gravel Surfacing	SF	21,100.0000	520.95	639.87	12,544.77	0.00	13,705.60	17,150.58	21,315.25	26,644.06

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Base course drainage layers, aggregate base course, bank run gravel, spread & compacted, 8" deep	SY	2,344.4444	520.95	639.87	12,544.77	0.00	13,705.60	17,150.58	21,315.25	26,644.06
Miscellaneous	LS	1.0000	269.94	0.00	2,335.15	0.00	2,605.09	2,605.09	3,237.68	4,047.10
Precast concrete parking bumpers, wheel stops, precast concrete, 8" x 13" x 6" - 0", 2 dowels per each	EA	29.0000	269.94	0.00	2,335.15	0.00	2,605.09	2,605.09	3,237.68	4,047.10
Trails	LS	1.0000	3,103.62	966.29	10,162.05	0.00	14,231.96	17,809.26	22,133.86	27,667.33
Asphalt Trail	SF	11,084.0000	3,103.62	966.29	10,162.05	0.00	14,231.96	17,809.26	22,133.86	27,667.33
(Note:)										
Compaction, 4 passes, 24" wide, 6" lifts, walk behind, vibrating roller	ECY	205.2593	412.04	85.03	0.00	0.00	497.06	622.00	773.04	966.30
(Note: Assume 6" compacted subgrade.)										
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	205.2593	56.26	57.71	245.25	0.00	359.22	449.51	558.67	698.33
Sidewalks, driveways, and patios, side walks, asphaltic concrete, 2-1/2" thick, excludes base	SY	1,231.5556	2,635.33	823.56	9,916.79	0.00	13,375.68	16,737.74	20,802.15	26,002.69
Furnishings	LS	1.0000	1,541.21	276.23	148.58	0.00	1,966.01	1,966.01	2,443.42	3,054.28
Relocate trash receptacles	EA	1.0000	32.42	5.71	0.00	0.00	38.14	38.14	47.40	59.25
Relocate portable restroom	EA	1.0000	378.25	66.67	0.00	0.00	444.92	444.92	552.96	691.20
Relocate dumpsters	EA	1.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Relocate post and cable fence	LF	84.0000	635.46	112.00	0.00	0.00	747.46	747.46	928.97	1,161.21
Signs, guide and directional signs, reflectorized, 12" x 18", excludes posts	EA	2.0000	27.45	7.90	75.85	0.00	111.20	111.20	138.20	172.75
Signs, 12'-0", excludes posts, add to above for steel posts, galvanized, upright, bolted	EA	2.0000	13.73	3.95	72.73	0.00	90.40	90.40	112.36	140.45
Utilities	LS	1.0000	9,081.78	1,986.36	6,007.19	0.00	17,075.33	21,676.99	26,940.80	33,676.00
Sanitary Sewer System	LS	1.0000	9,081.78	1,986.36	6,007.19	0.00	17,075.33	21,676.99	26,940.80	33,676.00
Pipe and Fittings	LF	1,800.0000	3,758.32	0.00	3,628.19	0.00	7,386.51	9,377.12	11,654.16	14,567.70

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Public Sanitary Utility Sewerage Piping, piping polyvinyl chloride pipe, B & S, 20' lengths, 4" diameter, SDR 35, excludes excavation or backfill	LF	1,800.0000	3,758.32	0.00	3,628.19	0.00	7,386.51	9,377.12	11,654.16	14,567.70
(Note: Assume that fittings/couplings are included in the unit cost.)										
Excavation and Backfill	LS	1.0000	5,323.46	1,986.36	2,379.00	0.00	9,688.82	12,299.87	15,286.64	19,108.30
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	1,000.0000	2,665.00	1,025.82	0.00	0.00	3,690.82	4,685.47	5,823.23	7,279.04
(Note: Assume 3' x 5' trench.)										
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	100.0000	111.41	79.81	2,268.66	0.00	2,459.88	3,122.80	3,881.11	4,851.38
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	900.0000	952.55	682.41	0.00	0.00	1,634.97	2,075.58	2,579.59	3,224.48
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	1,000.0000	1,566.31	198.31	0.00	0.00	1,764.61	2,240.16	2,784.14	3,480.18
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	18.0000	28.19	0.00	110.34	0.00	138.54	175.87	218.58	273.22
Landscaping	LS	1.0000	11,653.80	6,044.25	49,604.42	0.00	67,302.46	84,219.37	104,670.28	130,837.85
Seeding	SF	33,700.0000	251.66	162.33	2,329.92	0.00	2,743.91	3,433.60	4,267.38	5,334.23
Soil preparation, structural soil mixing, tilling topsoil, 6" deep, 20 HP tractor, disk harrow\	MSF	33.7000	39.37	20.63	0.00	0.00	60.00	75.09	93.32	116.65
Seeding, mechanical seeding, 215 lb/acre	ACR	0.7736	162.68	85.26	430.04	0.00	677.99	848.41	1,054.42	1,318.03
Soil preparation, mulching, hay, 1" deep, power mulcher, large	MSF	33.7000	26.34	34.45	1,820.74	0.00	1,881.53	2,354.47	2,926.20	3,657.75

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Fertilizing, hydro spread, 1.5 lb./MSF	MSF	33.7000	23.27	21.98	79.13	0.00	124.38	155.65	193.44	241.80
Plantings	LS	1.0000	11,402.14	5,881.92	47,274.50	0.00	64,558.56	80,785.76	100,402.90	125,503.62
General planting, local varieties, trees, 5' - 6'	EA	200.0000	9,674.54	4,990.72	43,638.00	0.00	58,303.26	72,958.16	90,674.52	113,343.15
General planting, local varieties, shrubs, 2' - 3'	EA	100.0000	1,727.60	891.20	3,636.50	0.00	6,255.30	7,827.60	9,728.38	12,160.47
Irrigation	LS	1.0000	10,353.20	0.00	9,880.89	0.00	20,234.09	25,320.06	31,468.50	39,335.63
Irrigation system point-of-connection	EA	1.0000	563.85	0.00	1,246.80	0.00	1,810.65	2,265.77	2,815.96	3,519.95
Underground sprinklers irrigation system, for lawns, residential system, custom, 1" supply (Note: Quantity assumed.)	SF	18,000.0000	7,118.48	0.00	5,423.58	0.00	12,542.06	15,694.59	19,505.70	24,382.12
Underground sprinklers irrigation system, for lawns, pop-up bubbler head w/risers, hi-pop head, 6", includes mechanical joints, excludes piping, excavation and backfill	EA	300.0000	2,670.86	0.00	3,210.51	0.00	5,881.37	7,359.70	9,146.84	11,433.55
DEER CREEK DAY USE AND BALLOON LAUNCH AREA	LS	1.0000	170,284.08	120,156.89	217,157.22	150,375.50	657,973.69	757,815.12	941,834.68	1,177,293.35
Demolition	LS	1.0000	49,732.99	42,754.86	0.00	4,125.50	96,613.35	96,613.35	120,073.88	150,092.35
Clearing and Grubbing	ACR	17.0000	17,093.38	23,092.16	0.00	0.00	40,185.54	40,185.54	49,943.76	62,429.70
Selective clearing, dry clearing, heavy size brush, average grub and trees, excludes removal offsite	ACR	17.0000	13,339.72	21,635.96	0.00	0.00	34,975.68	34,975.68	43,468.80	54,336.00
Selective clearing, load spoils, chute load, includes 2 mile haul to dump	CY	204.0000	3,753.66	1,456.20	0.00	0.00	5,209.86	5,209.86	6,474.96	8,093.70
Removals	LS	1.0000	32,639.61	19,662.70	0.00	4,125.50	56,427.81	56,427.81	70,130.12	87,662.65
Demolish, remove pavement & curb, remove concrete, mesh reinforced, to 6" thick, excludes hauling and disposal fees	SY	1,970.0000	10,092.49	6,258.90	0.00	0.00	16,351.39	16,351.39	20,321.98	25,402.47

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Cold milling asphalt paving, 1" to 3" asphalt pavement, 5,000 to 10,000 S.Y., cold planing & cleaning	SY	7,720.0000	3,563.13	5,409.53	0.00	0.00	8,972.66	8,972.66	11,151.48	13,939.35
(Note: Assume 6" depth existing pavement. Milled material to be stockpiled and reused as base course for new roads/parking. No disposal costs.)										
Remove gravel surfacing	SF	20,706.0000	1,199.92	1,873.30	0.00	0.00	3,073.21	3,073.21	3,819.48	4,774.35
(Note: Assume 6" gravel to remove and haul to state owned off-site storage area.)										
Remove and store Deer Creek footbridge	EA	1.0000	3,782.51	666.67	0.00	0.00	4,449.17	4,449.17	5,529.56	6,911.95
Remove traffic posts to 12'-0" high	EA	40.0000	303.33	66.13	0.00	0.00	369.45	369.45	459.17	573.96
Demo existing restroom	EA	1.0000	2,219.92	1,113.62	0.00	1,672.50	5,006.04	5,006.04	6,221.65	7,777.06
(Note: Assume area of structure is 650 SF. Assume 12' height. Assume 48 CY of material to dispose of at landfill. Assume 1.5 TN/CY.)										
Remove information kiosk	EA	1.0000	283.69	50.00	0.00	0.00	333.69	333.69	414.72	518.40
Remove ballon garden, sign, and retaining wall	LS	1.0000	9,456.26	1,666.67	0.00	0.00	11,122.93	11,122.93	13,823.90	17,279.88
Remove wind sock	EA	1.0000	162.11	28.57	0.00	0.00	190.68	190.68	236.98	296.23
Borrow, clay, till, or blasted rock, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	220.0000	114.03	63.68	0.00	0.00	177.71	177.71	220.87	276.08
(Note: Load demo material (220 CY concrete trail).)										
Hauling, excavated or borrow material, loose cubic yards, 10 mile round trip, 0.6 load/hour, 16.5 C.Y. dump trailer, highway haulers, excludes loading	LCY	220.0000	575.11	1,012.19	0.00	0.00	1,587.30	1,587.30	1,972.74	2,465.93
(Note: Haul demo material, not including structures (220 CY concrete trail).)										
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip @ 20 MPH (4.2 cycles/hour), 12 C.Y. truck, highway haulers, excludes loading	LCY	1,357.4333	887.13	1,453.45	0.00	0.00	2,340.57	2,340.57	2,908.93	3,636.17
(Note: Haul millings to stockpile area. Assuming crushed asphalt is 45 LB/CF and in place asphalt is 140 LB/CF, swell factor is about 211%.)										

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Selective demoliton, dump charges, typical urban city, building construction materials, includes tipping fees only	CY	220.0000	0.00	0.00	0.00	2,453.00	2,453.00	2,453.00	3,048.66	3,810.82
(Note: Rate for construction debris and concrete deposited at the Denver Arapahoe Landfill, 720.876.2620.)										
Earthwork	LS	1.0000	28,318.45	56,005.07	0.00	0.00	84,323.53	105,518.78	131,141.82	163,927.27
Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul	CY	6,988.0000	3,454.47	7,292.15	0.00	0.00	10,746.62	13,447.86	16,713.39	20,891.73
Borrow, topsoil or loam, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	6,988.0000	3,080.54	1,720.43	0.00	0.00	4,800.96	6,007.71	7,466.56	9,333.20
Excavate and load, bank measure, medium material, 3-1/2 C.Y. bucket, hydraulic excavator	BCY	13,750.0000	6,750.62	13,293.93	0.00	0.00	20,044.55	25,082.87	31,173.72	38,967.15
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	13,750.0000	5,181.16	16,060.24	0.00	0.00	21,241.40	26,580.56	33,035.10	41,293.87
Fill, dumped material, spread, by dozer, excludes compaction	LCY	13,750.0000	5,879.60	12,411.42	0.00	0.00	18,291.02	22,888.58	28,446.60	35,558.25
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine grading, slopes, gentle, gentle, finish grading	SY	41,927.0000	2,536.03	1,675.53	0.00	0.00	4,211.56	5,270.17	6,549.92	8,187.39
Rock removal allowance	HR	18.0000	1,436.04	3,551.37	0.00	0.00	4,987.41	6,241.03	7,756.54	9,695.67
Roads and Parking	LS	1.0000	6,979.65	5,069.41	78,380.51	0.00	90,429.56	113,001.69	140,441.78	175,552.23
Asphalt Pavement	TON	1,200.0000	6,172.24	4,995.69	78,027.25	0.00	89,195.18	111,614.96	138,718.32	173,397.90

(Note: Assume 3" wearing course, 3" binder course, and 6" recycled base course. Assuming 140 LB/CF for density of asphalt equates to about .315 TN/SY @ 6" depth.)

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Compaction, 3 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller (Note: Assume 12" compacted subgrade.)	ECY	1,269.8413	308.53	452.44	0.00	0.00	760.98	952.25	1,183.49	1,479.36
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	1,269.8413	348.05	357.01	1,517.27	0.00	2,222.33	2,780.92	3,456.21	4,320.27
Base course drainage layers, aggregate base course for roadways and large paved areas, CDOT class 6, compacted, 3/4", to 6" deep (Note: No material cost since we are reusing milled material from existing pavement.)	SY	3,809.5238	1,043.91	1,809.11	0.00	0.00	2,853.02	3,570.15	4,437.08	5,546.35
Asphalt surface treatment, tack coat, emulsion, 0.15 gallons per S.Y., 10,000 S.Y.	SY	3,809.5238	197.14	202.21	4,195.58	0.00	4,594.93	5,749.89	7,146.13	8,932.66
Plant-mix asphalt paving, for highways and large paved areas, binder course, alternate method for developing paving costs, 3" thick	TON	600.0000	2,020.16	1,027.11	35,845.50	0.00	38,892.78	48,668.73	60,486.91	75,608.64
Plant-mix asphalt paving, for highways and large paved areas, wearing course, alternate method for developing paving costs, 3" thick	TON	600.0000	2,254.44	1,147.81	36,468.90	0.00	39,871.15	49,893.02	62,008.50	77,510.62
Pavement Markings	LS	1.0000	179.11	73.71	353.26	0.00	606.08	758.42	942.59	1,178.24
Pavement markings, layout of pavement marking	LF	2,000.0000	50.06	21.23	0.00	0.00	71.29	89.21	110.87	138.59
Painted pavement markings, acrylic waterborne, white or yellow, 4" wide	LF	2,000.0000	129.04	52.49	353.26	0.00	534.79	669.21	831.72	1,039.65
Miscellaneous	LS	1.0000	628.30	0.00	0.00	0.00	628.30	628.30	780.88	976.09
Precast concrete parking bumpers, wheel stops, precast concrete, 8" x 13" x 6' - 0", 2 dowels per each (Note: No material cost as this is for relocating existing wheel stops. Decrease productivity by 20% to account for removal and storage.)	EA	54.0000	628.30	0.00	0.00	0.00	628.30	628.30	780.88	976.09

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Trails	LS	1.0000	24,861.59	206.66	23,773.54	0.00	48,841.79	61,118.49	75,959.84	94,949.79
Concrete Trail	SF	16,048.0000	24,861.59	206.66	23,773.54	0.00	48,841.79	61,118.49	75,959.84	94,949.79
Compaction, 4 passes, 24" wide, 6" lifts, walk behind, vibrating roller	ECY	297.1852	596.57	123.11	0.00	0.00	719.67	900.57	1,119.25	1,399.07
(Note: Assume 6" compacted subgrade.)										
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	297.1852	81.46	83.55	355.09	0.00	520.10	650.83	808.87	1,011.09
Sidewalks, driveways, and patios, sidewalk, concrete, cast-in-place, broomed finish, 3000 psi, 4" thick, excludes base and welded wire mesh	SF	16,048.0000	23,445.82	0.00	22,509.73	0.00	45,955.55	57,506.77	71,471.09	89,338.87
Concrete surface treatment, curing, sprayed membrane compound	CSF	160.4800	737.74	0.00	908.73	0.00	1,646.47	2,060.32	2,560.62	3,200.78
Architecture	LS	1.0000	453.90	80.00	0.00	146,250.00	146,783.90	146,783.90	182,427.30	228,034.13
New restroom building	SF	650.0000	0.00	0.00	0.00	146,250.00	146,250.00	146,250.00	181,763.76	227,204.70
(Note: Restroom with water/sewer. 4 fixtures total.)										
Relocate information kiosk	EA	1.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Furnishings	LS	1.0000	16,577.07	2,805.71	893.54	0.00	20,276.33	20,276.33	25,200.01	31,500.01
Relocate picnic tables	EA	8.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Relocate benches	EA	1.0000	113.48	20.00	0.00	0.00	133.48	133.48	165.89	207.36
Drinking fountain, wall mounted, non-recessed, cast iron, enameled, low back, single bubbler, for connection to cold water supply	EA	1.0000	104.50	0.00	893.54	0.00	998.04	998.04	1,240.39	1,550.49
Relocate dumpsters	EA	1.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Relocate trash receptacles	EA	1.0000	32.42	5.71	0.00	0.00	38.14	38.14	47.40	59.25
Relocate grills	EA	8.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Signs, stock, reflectorized, UTMCD standard, guide & directional sign, 12" x 18", with posts	EA	40.0000	553.63	0.00	0.00	0.00	553.63	553.63	688.06	860.08
(Note: Relocation of existing signs. No material costs.)										

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Relocate wind sock	EA	1.0000	226.95	40.00	0.00	0.00	266.95	266.95	331.77	414.72
Relocate ballon garden, sign, and retaining wall	LS	1.0000	14,184.40	2,500.00	0.00	0.00	16,684.40	16,684.40	20,735.85	25,919.82
Utilities	LS	1.0000	17,169.13	5,135.81	20,281.37	0.00	42,586.30	54,062.97	67,191.03	83,988.79
Water Distribution	LS	1.0000	1,888.55	551.77	2,858.32	0.00	5,298.63	6,726.57	8,359.98	10,449.97
Pipe and Fittings	LF	500.0000	291.63	0.00	119.49	0.00	411.12	521.91	648.65	810.81
Public Water Utility Distribution Piping, polyvinyl chloride pressure pipe, 1", class 200, SDR 21, excludes excavation or backfill	LF	500.0000	291.63	0.00	119.49	0.00	411.12	521.91	648.65	810.81
(Note: Assume that fittings/couplings are included in the unit cost.)										
Valves and Hydrants	LS	1.0000	118.18	0.00	2,078.00	0.00	2,196.18	2,788.03	3,465.04	4,331.30
Hydrant, ground post type, all non-freeze, all bronze, aluminum casing guard, exposed head, 3/4" I.P.S. connection, 5 feet depth of bury	EA	2.0000	118.18	0.00	2,078.00	0.00	2,196.18	2,788.03	3,465.04	4,331.30
Excavation and Backfill	LS	1.0000	1,478.74	551.77	660.83	0.00	2,691.34	3,416.63	4,246.29	5,307.86
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	277.7778	740.28	284.95	0.00	0.00	1,025.23	1,301.52	1,617.56	2,021.96
(Note: Assume 3' x 5' trench.)										
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	27.7778	30.95	22.17	630.18	0.00	683.30	867.44	1,078.08	1,347.61
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	250.0000	264.60	189.56	0.00	0.00	454.16	576.55	716.55	895.69
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	277.7778	435.08	55.09	0.00	0.00	490.17	622.27	773.37	966.72

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	5.0000	7.83	0.00	30.65	0.00	38.48	48.85	60.72	75.89
Sanitary Sewer System	LS	1.0000	4,218.82	875.12	5,722.84	0.00	10,816.78	13,731.82	17,066.30	21,332.87
Pipe and Fittings	LF	500.0000	1,043.98	0.00	1,007.83	0.00	2,051.81	2,604.76	3,237.27	4,046.58
Public Sanitary Utility Sewerage Piping, piping polyvinyl chloride pipe, B & S, 20' lengths, 4" diameter, SDR 35, excludes excavation or backfill	LF	500.0000	1,043.98	0.00	1,007.83	0.00	2,051.81	2,604.76	3,237.27	4,046.58
(Note: Assume that fittings/couplings are included in the unit cost.)										
Manholes	EA	2.0000	1,696.10	323.35	4,054.18	0.00	6,073.63	7,710.43	9,582.74	11,978.43
Storm Drainage Manholes, Frames, and Covers, concrete, precast, 4' I.D., 8' deep, excludes base, excavation, backfill, frame and cover	EA	2.0000	1,023.74	198.52	2,181.90	0.00	3,404.17	4,321.56	5,370.97	6,713.71
Storm Drainage Manholes, Frames, and Covers, precast concrete, 4' diameter manhole, 8" thick top	EA	2.0000	187.71	41.33	509.11	0.00	738.15	937.07	1,164.62	1,455.78
Storm Drainage Manholes, Frames, and Covers, standard sizes, aluminum	EA	14.0000	105.40	0.00	334.56	0.00	439.95	558.52	694.14	867.68
Manhole frame and cover, cast iron, city type, 24" diameter x 375 lb.	EA	2.0000	191.54	42.17	519.50	0.00	753.21	956.20	1,188.39	1,485.49
Storm Drainage Manholes, Frames, and Covers, precast concrete, 4' diameter manhole, 8" thick top	EA	2.0000	187.71	41.33	509.11	0.00	738.15	937.07	1,164.62	1,455.78
(Note: Manhole base.)										
Excavation and Backfill	LS	1.0000	1,478.74	551.77	660.83	0.00	2,691.34	3,416.63	4,246.29	5,307.86

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering (Note: Assume 3' x 5' trench.)	BCY	277.7778	740.28	284.95	0.00	0.00	1,025.23	1,301.52	1,617.56	2,021.96
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	27.7778	30.95	22.17	630.18	0.00	683.30	867.44	1,078.08	1,347.61
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	250.0000	264.60	189.56	0.00	0.00	454.16	576.55	716.55	895.69
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	277.7778	435.08	55.09	0.00	0.00	490.17	622.27	773.37	966.72
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	5.0000	7.83	0.00	30.65	0.00	38.48	48.85	60.72	75.89
Storm Water System	LS	1.0000	11,061.76	3,708.92	11,700.21	0.00	26,470.89	33,604.59	41,764.76	52,205.95
Pipe	LF	500.0000	4,727.63	551.05	6,259.98	0.00	11,538.65	14,648.23	18,205.25	22,756.56
Public Storm Utility Drainage Piping, reinforced concrete pipe (RCP), 12" diameter, 6' lengths, class 3, excludes excavation or backfill, gaskets	LF	500.0000	4,727.63	551.05	6,259.98	0.00	11,538.65	14,648.23	18,205.25	22,756.56
Area Inlets	LS	1.0000	4,855.39	2,606.11	4,779.40	0.00	12,240.90	15,539.72	19,313.22	24,141.53
Storm Water Inlet	EA	2.0000	1,965.28	1,054.85	1,662.40	0.00	4,682.53	5,944.44	7,387.92	9,234.90
Storm Water Oil Separator Inlet	EA	1.0000	2,890.11	1,551.26	3,117.00	0.00	7,558.37	9,595.29	11,925.30	14,906.63
Excavation and Backfill	LS	1.0000	1,478.74	551.77	660.83	0.00	2,691.34	3,416.63	4,246.29	5,307.86
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering (Note: Assume 3' x 5' trench.)	BCY	277.7778	740.28	284.95	0.00	0.00	1,025.23	1,301.52	1,617.56	2,021.96

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	27.7778	30.95	22.17	630.18	0.00	683.30	867.44	1,078.08	1,347.61
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	250.0000	264.60	189.56	0.00	0.00	454.16	576.55	716.55	895.69
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	277.7778	435.08	55.09	0.00	0.00	490.17	622.27	773.37	966.72
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	5.0000	7.83	0.00	30.65	0.00	38.48	48.85	60.72	75.89
Electrical and Telecommunications	LS	1.0000	3,486.61	240.20	2,734.13	0.00	6,460.94	8,202.11	10,193.82	12,742.28
Conduit and Wiring	LF	500.0000	2,289.76	0.00	1,830.72	0.00	4,120.48	5,230.92	6,501.14	8,126.42
Electrical Underground Ducts and Manholes, PVC, with coupling, 1-1/2" diameter, schedule 40, installed by direct burial in slab or duct bank	LF	500.0000	968.19	0.00	914.32	0.00	1,882.51	2,389.83	2,970.15	3,712.68
Electrical Underground Ducts and Manholes, nylon polyethylene pull rope, 1/4"	LF	500.0000	203.32	0.00	93.51	0.00	296.83	376.82	468.33	585.41
Wire, copper, stranded, 600 volt, #8, type THWN-THHN, in raceway	CLF	22.0000	1,118.26	0.00	822.89	0.00	1,941.14	2,464.27	3,062.66	3,828.33
Handholes	EA	2.0000	833.95	110.29	872.76	0.00	1,817.00	2,306.67	2,866.79	3,583.49
Electrical Underground Ducts and Manholes, hand holes, precast concrete, with concrete cover, 2' x 2' x 3' deep, excludes excavation, backfill and cast in place concrete (Note: Quantity assumed.)	EA	2.0000	833.95	110.29	872.76	0.00	1,817.00	2,306.67	2,866.79	3,583.49
Excavation and Backfill	LS	1.0000	362.90	129.91	30.65	0.00	523.46	664.53	825.89	1,032.37

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Excavating, chain trencher, utility trench, common earth, 40 H.P., 12" wide, 36" deep, chain trencher, operator riding, includes backfill	LF	500.0000	211.78	76.77	0.00	0.00	288.54	366.31	455.25	569.07
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	55.5556	57.82	42.12	0.00	0.00	99.95	126.88	157.69	197.12
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	55.5556	85.59	11.02	0.00	0.00	96.61	122.65	152.43	190.54
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	5.0000	7.70	0.00	30.65	0.00	38.35	48.69	60.51	75.64
Landscaping	LS	1.0000	13,983.05	7,859.17	82,652.25	0.00	104,494.47	130,759.83	162,512.12	203,140.15
Seeding	SF	669,500.0000	4,999.55	3,224.93	46,287.25	0.00	54,511.73	68,213.60	84,777.85	105,972.32
Soil preparation, structural soil mixing, tilling topsoil, 6" deep, 20 HP tractor, disk harrow\	MSF	669.5000	782.13	409.92	0.00	0.00	1,192.05	1,491.67	1,853.90	2,317.37
Seeding, mechanical seeding, 215 lb/acre	ACR	15.3696	3,231.94	1,693.87	8,543.43	0.00	13,469.24	16,854.82	20,947.65	26,184.57
Soil preparation, mulching, hay, 1" deep, power mulcher, large	MSF	669.5000	523.26	684.39	36,171.75	0.00	37,379.40	46,774.95	58,133.27	72,666.59
Fertilizing, hydro spread, 1.5 lb./MSF	MSF	669.5000	462.21	436.76	1,572.08	0.00	2,471.05	3,092.17	3,843.03	4,803.79
Plantings	LS	1.0000	8,983.50	4,634.24	36,365.00	0.00	49,982.74	62,546.22	77,734.27	97,167.83
General planting, local varieties, trees, 5' - 6'	EA	150.0000	7,255.91	3,743.04	32,728.50	0.00	43,727.44	54,718.62	68,005.89	85,007.36
General planting, local varieties, shrubs, 2' - 3'	EA	100.0000	1,727.60	891.20	3,636.50	0.00	6,255.30	7,827.60	9,728.38	12,160.47
Irrigation	LS	1.0000	8,721.64	0.00	8,441.88	0.00	17,163.52	21,477.67	26,693.08	33,366.35
Irrigation system point-of-connection	EA	1.0000	563.85	0.00	1,246.80	0.00	1,810.65	2,265.77	2,815.96	3,519.95
Underground sprinklers irrigation system, for lawns, residential system, custom, 1" supply	SF	15,000.0000	5,932.07	0.00	4,519.65	0.00	10,451.72	13,078.83	16,254.75	20,318.43

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
(Note: Quantity assumed.)										
Underground sprinklers irrigation system, for lawns, pop-up bubbler head w/risers, hi-pop head, 6", includes mechanical joints, excludes piping, excavation and backfill	EA	250.0000	2,225.72	0.00	2,675.43	0.00	4,901.15	6,133.08	7,622.37	9,527.96
SWIM BEACH	LS	1.0000	924,369.40	1,538,658.32	1,055,486.53	699,589.00	4,218,103.25	4,977,433.23	6,186,098.90	7,732,623.62
Demolition	LS	1.0000	82,509.61	95,872.32	0.00	9,589.00	187,970.93	187,970.93	233,615.74	292,019.68
Clearing and Grubbing	ACR	25.0000	25,137.33	33,959.06	0.00	0.00	59,096.38	59,096.38	73,446.71	91,808.38
Selective clearing, dry clearing, heavy size brush, average grub and trees, excludes removal offsite	ACR	25.0000	19,617.23	31,817.60	0.00	0.00	51,434.83	51,434.83	63,924.70	79,905.88
Selective clearing, load spoils, chute load, includes 2 mile haul to dump	CY	300.0000	5,520.09	2,141.46	0.00	0.00	7,661.55	7,661.55	9,522.00	11,902.50
Removals	LS	1.0000	57,372.28	61,913.26	0.00	9,589.00	128,874.55	128,874.55	160,169.04	200,211.30
Demolish, remove pavement & curb, remove concrete, mesh reinforced, to 6" thick, excludes hauling and disposal fees	SY	2,344.0000	12,008.52	7,447.14	0.00	0.00	19,455.66	19,455.66	24,180.06	30,225.08
Cold milling asphalt paving, 1" to 3" asphalt pavement, 5,000 to 10,000 S.Y., cold planing & cleaning	SY	49,254.0000	22,732.94	34,513.07	0.00	0.00	57,246.01	57,246.01	71,147.01	88,933.76
(Note: Assume 6" depth existing pavement. Milled material to be stockpiled and reused as base course for new roads/parking. No disposal costs.)										
Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 500' haul	SY	5,555.0000	1,792.72	3,784.31	0.00	0.00	5,577.04	5,577.04	6,931.30	8,664.13
Remove traffic posts to 12'-0" high	EA	80.0000	606.66	132.25	0.00	0.00	738.91	738.91	918.34	1,147.92
Remove information kiosk	EA	2.0000	567.38	100.00	0.00	0.00	667.38	667.38	829.43	1,036.79
Demo existing swim beach buildings	EA	3.0000	9,426.12	4,728.60	0.00	6,690.00	20,844.72	20,844.72	25,906.42	32,383.03
Remove chain link fence	LF	929.0000	3,513.95	619.33	0.00	0.00	4,133.28	4,133.28	5,136.96	6,421.20

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Remove post and rail fence	LF	44.0000	249.65	44.00	0.00	0.00	293.65	293.65	364.95	456.19
Borrow, clay, till, or blasted rock, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	260.0000	134.76	75.26	0.00	0.00	210.02	210.02	261.02	326.28
(Note: Load demo material (260 CY concrete trail).)										
Hauling, excavated or borrow material, loose cubic yards, 10 mile round trip, 0.6 load/hour, 16.5 C.Y. dump trailer, highway haulers, excludes loading	LCY	260.0000	679.67	1,196.23	0.00	0.00	1,875.90	1,875.90	2,331.42	2,914.28
(Note: Haul demo material, not including structures (260 CY concrete trail).)										
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip @ 20 MPH (4.2 cycles/hour), 12 C.Y. truck, highway haulers, excludes loading	LCY	8,660.4950	5,659.91	9,273.07	0.00	0.00	14,932.98	14,932.98	18,559.15	23,198.93
(Note: Haul millings to stockpile area. Assuming crushed asphalt is 45 LB/CF and in place asphalt is 140 LB/CF, swell factor is about 211%.)										
Selective demoliton, dump charges, typical urban city, building construction materials, includes tipping fees only	CY	260.0000	0.00	0.00	0.00	2,899.00	2,899.00	2,899.00	3,602.96	4,503.70
(Note: Rate for construction debris and concrete deposited at the Denver Arapahoe Landfill, 720.876.2620.)										
Earthwork	LS	1.0000	559,078.29	1,369,957.06	0.00	0.00	1,929,035.35	2,413,910.73	3,000,078.51	3,750,098.14
Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul	CY	13,243.0000	6,546.59	13,819.40	0.00	0.00	20,365.99	25,485.11	31,673.64	39,592.05
Borrow, topsoil or loam, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	13,243.0000	5,837.94	3,260.39	0.00	0.00	9,098.33	11,385.25	14,149.93	17,687.41
Excavate and load, bank measure, medium material, 3-1/2 C.Y. bucket, hydraulic excavator	BCY	331,830.0000	162,913.25	320,823.59	0.00	0.00	483,736.84	605,327.19	752,318.25	940,397.81

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	331,830.0000	125,037.35	387,583.32	0.00	0.00	512,620.66	641,471.15	797,239.02	996,548.77
Fill, dumped material, spread, by dozer, excludes compaction	LCY	331,830.0000	141,892.91	299,525.93	0.00	0.00	441,418.84	552,372.29	686,504.36	858,130.45
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	285,658.0000	107,639.21	333,653.60	0.00	0.00	441,292.81	552,214.58	686,308.36	857,885.45
Fine grading, slopes, gentle, gentle, finish grading	SY	104,799.0000	6,338.96	4,188.09	0.00	0.00	10,527.05	13,173.09	16,371.90	20,464.87
Rock removal allowance	HR	36.0000	2,872.08	7,102.75	0.00	0.00	9,974.83	12,482.06	15,513.07	19,391.34
Roads and Parking	LS	1.0000	36,259.19	25,715.59	393,668.85	0.00	455,643.63	569,265.95	707,500.29	884,375.36
Asphalt Pavement	TON	6,000.0000	30,861.18	24,978.46	390,136.25	0.00	445,975.90	558,074.79	693,591.60	866,989.49
(Note: Assume 3" wearing course, 3" binder course, and 6" recycled base course. Assuming 140 LB/CF for density of asphalt equates to about .315 TN/SY @ 6" depth.)										
Compaction, 3 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	ECY	6,349.2063	1,542.66	2,262.22	0.00	0.00	3,804.88	4,761.27	5,917.44	7,396.80
(Note: Assume 12" compacted subgrade.)										
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	6,349.2063	1,740.26	1,785.03	7,586.35	0.00	11,111.64	13,904.62	17,281.06	21,601.33
Base course drainage layers, aggregate base course for roadways and large paved areas, CDOT class 6, compacted, 3/4", to 6" deep	SY	19,047.6190	5,219.55	9,045.56	0.00	0.00	14,265.11	17,850.74	22,185.42	27,731.77
(Note: No material cost since we are reusing milled material from existing pavement.)										
Asphalt surface treatment, tack coat, emulsion, 0.15 gallons per S.Y., 10,000 S.Y.	SY	19,047.6190	985.68	1,011.04	20,977.90	0.00	22,974.63	28,749.45	35,730.65	44,663.31
Plant-mix asphalt paving, for highways and large paved areas, binder course, alternate method for developing paving costs, 3" thick	TON	3,000.0000	10,100.82	5,135.57	179,227.50	0.00	194,463.89	243,343.63	302,434.55	378,043.19

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Plant-mix asphalt paving, for highways and large paved areas, wearing course, alternate method for developing paving costs, 3" thick	TON	3,000.0000	11,272.21	5,739.04	182,344.50	0.00	199,355.75	249,465.09	310,042.48	387,553.10
Pavement Markings	LS	1.0000	1,791.07	737.13	3,532.60	0.00	6,060.80	7,584.22	9,425.90	11,782.37
Pavement markings, layout of pavement marking	LF	20,000.0000	500.64	212.26	0.00	0.00	712.90	892.10	1,108.72	1,385.90
Painted pavement markings, acrylic waterborne, white or yellow, 4" wide	LF	20,000.0000	1,290.43	524.87	3,532.60	0.00	5,347.90	6,692.13	8,317.17	10,396.46
Miscellaneous	LS	1.0000	3,606.93	0.00	0.00	0.00	3,606.93	3,606.93	4,482.80	5,603.50
Precast concrete parking bumpers, wheel stops, precast concrete, 8" x 13" x 6" - 0", 2 dowels per each	EA	310.0000	3,606.93	0.00	0.00	0.00	3,606.93	3,606.93	4,482.80	5,603.50
(Note: No material cost as this is for relocating existing wheel stops. Decrease productivity by 20% to account for removal and storage.)										
Trails	LS	1.0000	33,710.63	280.21	32,235.32	0.00	66,226.16	82,872.53	102,996.39	128,745.48
Concrete Trail	SF	21,760.0000	33,710.63	280.21	32,235.32	0.00	66,226.16	82,872.53	102,996.39	128,745.48
Compaction, 4 passes, 24" wide, 6" lifts, walk behind, vibrating roller	ECY	402.9630	808.90	166.92	0.00	0.00	975.83	1,221.11	1,517.63	1,897.04
(Note: Assume 6" compacted subgrade.)										
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	402.9630	110.45	113.29	481.48	0.00	705.22	882.48	1,096.77	1,370.96
Sidewalks, driveways, and patios, sidewalk, concrete, cast-in-place, broomed finish, 3000 psi, 4" thick, excludes base and welded wire mesh	SF	21,760.0000	31,790.95	0.00	30,521.66	0.00	62,312.61	77,975.29	96,909.96	121,137.45
Concrete surface treatment, curing, sprayed membrane compound	CSF	217.6000	1,000.33	0.00	1,232.17	0.00	2,232.50	2,793.65	3,472.03	4,340.04
Architecture	LS	1.0000	28,134.19	278.06	28,434.83	690,000.00	746,847.08	760,867.56	945,628.35	1,182,035.43
New shower/restroom building	SF	1,600.0000	0.00	0.00	0.00	400,000.00	400,000.00	400,000.00	497,131.64	621,414.55
(Note: Restroom with water/sewer and shower facilities.)										
New concession building	SF	650.0000	0.00	0.00	0.00	162,500.00	162,500.00	162,500.00	201,959.73	252,449.66

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
New first aid station	SF	510.0000	0.00	0.00	0.00	127,500.00	127,500.00	127,500.00	158,460.71	198,075.89
Relocate information kiosk	EA	2.0000	907.80	160.00	0.00	0.00	1,067.80	1,067.80	1,327.09	1,658.87
Concrete plaza	SF	15,000.0000	27,226.39	118.06	28,434.83	0.00	55,779.28	69,799.76	86,749.17	108,436.46
Furnishings	LS	1.0000	8,286.16	1,976.56	6,406.47	0.00	16,669.19	16,669.19	20,716.95	25,896.19
Relocate picnic tables	EA	12.0000	680.85	120.00	0.00	0.00	800.85	800.85	995.32	1,244.15
Relocate benches	EA	7.0000	794.33	140.00	0.00	0.00	934.33	934.33	1,161.21	1,451.51
Relocate dumpsters	EA	4.0000	1,815.60	320.00	0.00	0.00	2,135.60	2,135.60	2,654.19	3,317.74
Relocate trash receptacles	EA	10.0000	324.21	57.14	0.00	0.00	381.36	381.36	473.96	592.45
Metal parking bumpers, pipe bollards, conc filled/painted, 8' L x 4' D hole, 6" diam.	EA	6.0000	227.50	49.59	3,584.55	0.00	3,861.64	3,861.64	4,799.36	5,999.20
Relocate grills	EA	8.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Signs, stock, reflectorized, UTMCD standard, guide & directional sign, 12" x 18", with posts	EA	80.0000	1,107.25	0.00	0.00	0.00	1,107.25	1,107.25	1,376.13	1,720.16
(Note: Relocation of existing signs. No material costs.)										
Signs, guide and directional signs, reflectorized, 12" x 18", excludes posts	EA	12.0000	164.71	47.38	455.08	0.00	667.17	667.17	829.18	1,036.48
Signs, 12'-0", excludes posts, add to above for steel posts, galvanized, upright, bolted	EA	12.0000	82.36	23.69	436.38	0.00	542.43	542.43	674.14	842.68
Wood fences & gates, fence, open rail fence, split rails, No. 1 cedar, 2 rail, 3' high, includes post and post hole	LF	44.0000	174.81	75.54	0.00	0.00	250.35	250.35	311.14	388.93
(Note: Relocate existing fencing. No material cost.)										
Fence, chain link industrial, galvanized steel, 6 ga. wire, 2" posts @ 10' OC,, 6' high, includes excavation, & concrete	LF	929.0000	2,460.62	1,063.22	1,930.46	0.00	5,454.31	5,454.31	6,778.77	8,473.46
(Note: Relocate existing fencing. Only include material costs for concrete.)										
Recreational Facilities	LS	1.0000	3,427.98	11,114.81	295,857.33	0.00	310,400.12	310,400.12	385,774.31	482,217.88
Import beach sand and spread	CY	19,240.0000	3,427.98	11,114.81	295,857.33	0.00	310,400.12	310,400.12	385,774.31	482,217.88

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Utilities	LS	1.0000	56,148.77	14,248.89	71,592.70	0.00	141,990.36	180,255.63	224,026.94	280,033.68
Water Distribution	LS	1.0000	7,199.66	2,207.06	5,199.27	0.00	14,606.00	18,542.20	23,044.78	28,805.98
Pipe and Fittings	LF	2,000.0000	1,166.53	0.00	477.94	0.00	1,644.47	2,087.64	2,594.59	3,243.23
Public Water Utility Distribution Piping, polyvinyl chloride pressure pipe, 1", class 200, SDR 21, excludes excavation or backfill	LF	2,000.0000	1,166.53	0.00	477.94	0.00	1,644.47	2,087.64	2,594.59	3,243.23
(Note: Assume that fittings/couplings are included in the unit cost.)										
Valves and Hydrants	LS	1.0000	118.18	0.00	2,078.00	0.00	2,196.18	2,788.03	3,465.04	4,331.30
Hydrant, ground post type, all non-freeze, all bronze, aluminum casing guard, exposed head, 3/4" I.P.S. connection, 5 feet depth of bury	EA	2.0000	118.18	0.00	2,078.00	0.00	2,196.18	2,788.03	3,465.04	4,331.30
Excavation and Backfill	LS	1.0000	5,914.95	2,207.06	2,643.33	0.00	10,765.35	13,666.53	16,985.16	21,231.45
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	1,111.1111	2,961.11	1,139.80	0.00	0.00	4,100.91	5,206.07	6,470.26	8,087.82
(Note: Assume 3' x 5' trench.)										
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	111.1111	123.79	88.68	2,520.73	0.00	2,733.20	3,469.78	4,312.34	5,390.42
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	1,000.0000	1,058.39	758.23	0.00	0.00	1,816.63	2,306.20	2,866.21	3,582.76
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	1,111.1111	1,740.34	220.34	0.00	0.00	1,960.68	2,489.07	3,093.49	3,866.86
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	20.0000	31.33	0.00	122.60	0.00	153.93	195.41	242.86	303.58
Sanitary Sewer System	LS	1.0000	13,483.07	2,853.77	14,783.01	0.00	31,119.85	39,506.40	49,099.71	61,374.64
Pipe and Fittings	LF	2,000.0000	4,175.92	0.00	4,031.32	0.00	8,207.24	10,419.02	12,949.06	16,186.33

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Public Sanitary Utility Sewerage Piping, piping polyvinyl chloride pipe, B & S, 20' lengths, 4' diameter, SDR 35, excludes excavation or backfill	LF	2,000.0000	4,175.92	0.00	4,031.32	0.00	8,207.24	10,419.02	12,949.06	16,186.33
(Note: Assume that fittings/couplings are included in the unit cost.)										
Manholes	EA	4.0000	3,392.20	646.71	8,108.36	0.00	12,147.27	15,420.86	19,165.49	23,956.86
Storm Drainage Manholes, Frames, and Covers, concrete, precast, 4' I.D., 8' deep, excludes base, excavation, backfill, frame and cover	EA	4.0000	2,047.49	397.05	4,363.80	0.00	6,808.34	8,643.13	10,741.93	13,427.42
Storm Drainage Manholes, Frames, and Covers, precast concrete, 4' diameter manhole, 8" thick top	EA	4.0000	375.42	82.66	1,018.22	0.00	1,476.30	1,874.15	2,329.25	2,911.56
Storm Drainage Manholes, Frames, and Covers, standard sizes, aluminum	EA	28.0000	210.79	0.00	669.12	0.00	879.91	1,117.04	1,388.28	1,735.36
Manhole frame and cover, cast iron, city type, 24" diameter x 375 lb.	EA	4.0000	383.08	84.34	1,039.00	0.00	1,506.43	1,912.40	2,376.78	2,970.98
Storm Drainage Manholes, Frames, and Covers, precast concrete, 4' diameter manhole, 8" thick top	EA	4.0000	375.42	82.66	1,018.22	0.00	1,476.30	1,874.15	2,329.25	2,911.56
(Note: Manhole base.)										
Excavation and Backfill	LS	1.0000	5,914.95	2,207.06	2,643.33	0.00	10,765.35	13,666.53	16,985.16	21,231.45
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	1,111.1111	2,961.11	1,139.80	0.00	0.00	4,100.91	5,206.07	6,470.26	8,087.82
(Note: Assume 3' x 5' trench.)										
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	111.1111	123.79	88.68	2,520.73	0.00	2,733.20	3,469.78	4,312.34	5,390.42

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	1,000.0000	1,058.39	758.23	0.00	0.00	1,816.63	2,306.20	2,866.21	3,582.76
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	1,111.1111	1,740.34	220.34	0.00	0.00	1,960.68	2,489.07	3,093.49	3,866.86
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	20.0000	31.33	0.00	122.60	0.00	153.93	195.41	242.86	303.58
Natural Gas Distribution	LS	1.0000	14,325.15	2,297.64	29,041.20	0.00	45,663.99	57,970.07	72,046.89	90,058.62
Pipe and Fittings	LF	2,000.0000	8,179.88	90.58	25,351.60	0.00	33,622.06	42,682.94	53,047.60	66,309.50
Natural Gas Piping, steel pipe, tar coated and wrapped, plain end natural gas distribution, 2" diameter, schedule 40, excludes excavation or backfill	LF	2,000.0000	8,179.88	90.58	25,351.60	0.00	33,622.06	42,682.94	53,047.60	66,309.50
Valves and Hydrants	LS	1.0000	230.31	0.00	1,046.27	0.00	1,276.58	1,620.61	2,014.14	2,517.68
Natural Gas Metering, pressure regulator valves, iron and bronze, 2" diameter	EA	2.0000	75.20	0.00	519.50	0.00	594.70	754.97	938.30	1,172.87
Natural Gas Metering, lubricated semi-steel plug valve, 2" diameter	EA	3.0000	155.11	0.00	526.77	0.00	681.88	865.64	1,075.84	1,344.80
Excavation and Backfill	LS	1.0000	5,914.95	2,207.06	2,643.33	0.00	10,765.35	13,666.53	16,985.16	21,231.45
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	1,111.1111	2,961.11	1,139.80	0.00	0.00	4,100.91	5,206.07	6,470.26	8,087.82
(Note: Assume 3' x 5' trench.)										
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	111.1111	123.79	88.68	2,520.73	0.00	2,733.20	3,469.78	4,312.34	5,390.42
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	1,000.0000	1,058.39	758.23	0.00	0.00	1,816.63	2,306.20	2,866.21	3,582.76

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	1,111.1111	1,740.34	220.34	0.00	0.00	1,960.68	2,489.07	3,093.49	3,866.86
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	20.0000	31.33	0.00	122.60	0.00	153.93	195.41	242.86	303.58
Storm Water System	LS	1.0000	21,140.89	6,890.42	22,569.22	0.00	50,600.52	64,236.95	79,835.55	99,794.44
Pipe	LF	1,000.0000	9,455.27	1,102.09	12,519.95	0.00	23,077.31	29,296.46	36,410.49	45,513.12
Public Storm Utility Drainage Piping, reinforced concrete pipe (RCP), 12" diameter, 6' lengths, class 3, excludes excavation or backfill, gaskets	LF	1,000.0000	9,455.27	1,102.09	12,519.95	0.00	23,077.31	29,296.46	36,410.49	45,513.12
Area Inlets	LS	1.0000	8,728.14	4,684.79	8,727.60	0.00	22,140.53	28,107.23	34,932.48	43,665.60
Storm Water Inlet	EA	3.0000	2,947.91	1,582.28	2,493.60	0.00	7,023.80	8,916.65	11,081.88	13,852.34
Storm Water Oil Separator Inlet	EA	2.0000	5,780.23	3,102.51	6,234.00	0.00	15,116.74	19,190.58	23,850.61	29,813.26
Excavation and Backfill	LS	1.0000	2,957.48	1,103.53	1,321.67	0.00	5,382.68	6,833.26	8,492.58	10,615.72
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	555.5556	1,480.55	569.90	0.00	0.00	2,050.46	2,603.04	3,235.13	4,043.91
(Note: Assume 3' x 5' trench.)										
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	55.5556	61.89	44.34	1,260.36	0.00	1,366.60	1,734.89	2,156.17	2,695.21
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	500.0000	529.20	379.12	0.00	0.00	908.31	1,153.10	1,433.10	1,791.38
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	555.5556	870.17	110.17	0.00	0.00	980.34	1,244.54	1,546.74	1,933.43

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	10.0000	15.66	0.00	61.30	0.00	76.96	97.71	121.43	151.79
Electrical and Telecommunications	LS	1.0000	15,597.89	740.22	15,491.91	0.00	31,830.01	40,407.95	50,220.17	62,775.22
Conduit and Wiring	LF	2,000.0000	11,227.20	0.00	8,013.18	0.00	19,240.38	24,425.51	30,356.74	37,945.92
Electrical Underground Ducts and Manholes, PVC, with coupling, 1-1/2" diameter, schedule 40, installed by direct burial in slab or duct bank	LF	2,000.0000	3,872.75	0.00	3,657.28	0.00	7,530.03	9,559.31	11,880.59	14,850.74
Electrical Underground Ducts and Manholes, nylon polyethylene pull rope, 1/4"	LF	2,000.0000	813.28	0.00	374.04	0.00	1,187.32	1,507.29	1,873.30	2,341.63
Wire, copper, stranded, 600 volt, #8, type THWN-THHN, in raceway	CLF	88.0000	4,473.03	0.00	3,291.55	0.00	7,764.58	9,857.07	12,250.65	15,313.32
Telephone cable, #24 AWG, 25 pair, in conduit	MLF	1.1000	2,068.15	0.00	690.31	0.00	2,758.46	3,501.84	4,352.19	5,440.24
Handholes	EA	4.0000	1,667.89	220.58	1,745.52	0.00	3,634.00	4,613.33	5,733.58	7,166.98
Electrical Underground Ducts and Manholes, hand holes, precast concrete, with concrete cover, 2' x 2' x 3' deep, excludes excavation, backfill and cast in place concrete	EA	4.0000	1,667.89	220.58	1,745.52	0.00	3,634.00	4,613.33	5,733.58	7,166.98
(Note: Quantity assumed.)										
Transformers	LS	1.0000	1,251.20	0.00	5,610.60	0.00	6,861.80	8,711.00	10,826.28	13,532.85
Transformer, dry-type, single phase 240/480 V primary 120/240 V secondary, 75 kVA	EA	1.0000	1,251.20	0.00	5,610.60	0.00	6,861.80	8,711.00	10,826.28	13,532.85
Excavation and Backfill	LS	1.0000	1,451.60	519.64	122.60	0.00	2,093.84	2,658.11	3,303.57	4,129.47

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Excavating, chain trencher, utility trench, common earth, 40 H.P., 12" wide, 36" deep, chain trencher, operator riding, includes backfill	LF	2,000.0000	847.11	307.07	0.00	0.00	1,154.18	1,465.22	1,821.02	2,276.27
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	222.2222	231.30	168.50	0.00	0.00	399.79	507.53	630.78	788.47
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	222.2222	342.38	44.07	0.00	0.00	386.45	490.59	609.72	762.15
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	20.0000	30.81	0.00	122.60	0.00	153.42	194.76	242.05	302.57
Landscaping	LS	1.0000	34,357.79	18,474.59	159,506.25	0.00	212,338.64	265,711.31	330,233.76	412,792.19
Seeding	SF	773,127.0000	6,370.73	4,037.16	54,047.75	0.00	64,455.64	80,656.98	100,242.84	125,303.55
Soil preparation, structural soil mixing, tilling topsoil, 6" deep, 20 HP tractor, disk harrow\	MSF	773.1270	903.19	473.36	0.00	0.00	1,376.55	1,722.56	2,140.85	2,676.06
Seeding, mechanical seeding, 215 lb/acre (Note: Dryland grasses)	ACR	16.2560	3,418.33	1,791.56	9,036.14	0.00	14,246.03	17,826.86	22,155.75	27,694.68
Seeding, mechanical seeding, 44 lb/M.S.Y. (Note: Irrigated grasses.)	SY	7,222.0000	911.19	477.56	1,425.70	0.00	2,814.44	3,521.87	4,377.09	5,471.36
Soil preparation, mulching, hay, 1" deep, power mulcher, large	MSF	773.1270	604.25	790.32	41,770.51	0.00	43,165.08	54,014.90	67,131.29	83,914.11
Fertilizing, hydro spread, 1.5 lb./MSF	MSF	773.1270	533.76	504.36	1,815.41	0.00	2,853.53	3,570.78	4,437.87	5,547.33
Plantings	LS	1.0000	27,987.07	14,437.43	105,458.50	0.00	147,883.00	185,054.34	229,990.92	287,488.65
General planting, local varieties, trees, 5' - 6'	EA	400.0000	19,349.08	9,981.43	87,276.00	0.00	116,606.52	145,916.31	181,349.04	226,686.30
General planting, local varieties, shrubs, 2' - 3'	EA	500.0000	8,637.98	4,456.00	18,182.50	0.00	31,276.48	39,138.02	48,641.88	60,802.35
Irrigation	LS	1.0000	66,858.91	0.00	52,292.87	0.00	119,151.78	149,101.34	185,307.49	231,634.36

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Irrigation system point-of-connection	EA	1.0000	563.85	0.00	1,246.80	0.00	1,810.65	2,265.77	2,815.96	3,519.95
Underground sprinklers irrigation system, for lawns, residential system, custom, 1" supply (Note: Quantity assumed.)	SF	120,000.0000	47,456.56	0.00	36,157.20	0.00	83,613.76	104,630.62	130,037.98	162,547.47
Underground sprinklers irrigation system, for lawns, impact rotor pop-up full/part commercial circle sprinklers, spaced 48' - 76' @ 45-85 Psl, excludes piping, excavation and backfill	EA	400.0000	10,825.90	0.00	5,257.34	0.00	16,083.24	20,125.87	25,013.02	31,266.27
Underground sprinklers irrigation system, for lawns, pop-up bubbler head w/risers, hi-pop head, 6", includes mechanical joints, excludes piping, excavation and backfill	EA	900.0000	8,012.59	0.00	9,631.53	0.00	17,644.12	22,079.09	27,440.53	34,300.66
JAMISON	LS	1.0000	164,764.06	88,873.62	347,128.54	278,958.25	879,724.47	1,012,377.93	1,258,212.76	1,572,765.95
Demolition	LS	1.0000	34,253.99	38,348.79	0.00	3,958.25	76,561.03	76,561.03	95,152.28	118,940.35
Clearing and Grubbing	ACR	16.0000	16,087.89	21,733.80	0.00	0.00	37,821.69	37,821.69	47,005.89	58,757.37
Selective clearing, dry clearing, heavy size brush, average grub and trees, excludes removal offsite	ACR	16.0000	12,555.03	20,363.26	0.00	0.00	32,918.29	32,918.29	40,911.81	51,139.76
Selective clearing, load spoils, chute load, includes 2 mile haul to dump	CY	192.0000	3,532.86	1,370.54	0.00	0.00	4,903.39	4,903.39	6,094.08	7,617.60
Removals	LS	1.0000	18,166.10	16,614.99	0.00	3,958.25	38,739.34	38,739.34	48,146.38	60,182.98
Demolish, remove pavement & curb, remove concrete, mesh reinforced, to 6" thick, excludes hauling and disposal fees	SY	1,842.0000	9,436.73	5,852.23	0.00	0.00	15,288.96	15,288.96	19,001.57	23,751.96
Cold milling asphalt paving, 1" to 3" asphalt pavement, 5,000 to 10,000 S.Y., cold planing & cleaning	SY	9,652.0000	4,454.83	6,763.31	0.00	0.00	11,218.15	11,218.15	13,942.24	17,427.80

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
(Note: Assume 6" depth existing pavement. Milled material to be stockpiled and reused as base course for new roads/parking. No disposal costs.)										
Remove traffic posts to 12'-0" high	EA	40.0000	303.33	66.13	0.00	0.00	369.45	369.45	459.17	573.96
Demo existing restroom	EA	1.0000	2,219.92	1,113.62	0.00	1,672.50	5,006.04	5,006.04	6,221.65	7,777.06
Borrow, clay, till, or blasted rock, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	205.0000	106.25	59.34	0.00	0.00	165.59	165.59	205.81	257.26
(Note: Load demo material (205 CY concrete trail).)										
Hauling, excavated or borrow material, loose cubic yards, 10 mile round trip, 0.6 load/hour, 16.5 C.Y. dump trailer, highway haulers, excludes loading	LCY	205.0000	535.90	943.18	0.00	0.00	1,479.08	1,479.08	1,838.24	2,297.80
(Note: Haul demo material, not including structures (205 CY concrete trail).)										
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip @ 20 MPH (4.2 cycles/hour), 12 C.Y. truck, highway haulers, excludes loading	LCY	1,697.1433	1,109.14	1,817.19	0.00	0.00	2,926.32	2,926.32	3,636.92	4,546.15
(Note: Haul millings to stockpile area. Assuming crushed asphalt is 45 LB/CF and in place asphalt is 140 LB/CF, swell factor is about 211%.)										
Selective demoliton, dump charges, typical urban city, building construction materials, includes tipping fees only	CY	205.0000	0.00	0.00	0.00	2,285.75	2,285.75	2,285.75	2,840.80	3,551.00
(Note: Rate for construction debris and concrete deposited at the Denver Arapahoe Landfill, 720.876.2620.)										
Earthwork	LS	1.0000	13,761.62	20,034.55	0.00	0.00	33,796.16	42,291.04	52,560.54	65,700.67
Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul	CY	7,962.0000	3,935.96	8,308.54	0.00	0.00	12,244.51	15,322.24	19,042.93	23,803.66
Borrow, topsoil or loam, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	7,962.0000	3,509.91	1,960.22	0.00	0.00	5,470.13	6,845.08	8,507.27	10,634.08

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Excavate and load, bank measure, medium material, 3-1/2 C.Y. bucket, hydraulic excavator	BCY	1,000.0000	490.95	966.83	0.00	0.00	1,457.79	1,824.21	2,267.18	2,833.97
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	1,000.0000	376.81	1,168.02	0.00	0.00	1,544.83	1,933.13	2,402.55	3,003.19
Fill, dumped material, spread, by dozer, excludes compaction	LCY	1,000.0000	427.61	902.65	0.00	0.00	1,330.26	1,664.62	2,068.84	2,586.05
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	880.0000	331.59	1,027.86	0.00	0.00	1,359.45	1,701.16	2,114.25	2,642.81
Fine grading, slopes, gentle, gentle, finish grading	SY	53,776.0000	3,252.74	2,149.05	0.00	0.00	5,401.79	6,759.57	8,400.99	10,501.24
Rock removal allowance	HR	18.0000	1,436.04	3,551.37	0.00	0.00	4,987.41	6,241.03	7,756.54	9,695.67
Roads and Parking	LS	1.0000	7,966.36	5,802.11	89,824.51	0.00	103,592.97	129,453.33	160,888.36	201,110.45
Asphalt Pavement	TON	1,376.0000	7,077.50	5,728.39	89,471.25	0.00	102,277.14	127,985.15	159,063.67	198,829.59
(Note: Assume 3" wearing course, 3" binder course, and 6" recycled base course. Assuming 140 LB/CF for density of asphalt equates to about .315 TN/SY @ 6" depth.)										
Compaction, 3 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	ECY	1,456.0847	353.78	518.80	0.00	0.00	872.59	1,091.92	1,357.07	1,696.33
(Note: Assume 12" compacted subgrade.)										
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	1,456.0847	399.10	409.37	1,739.80	0.00	2,548.27	3,188.79	3,963.12	4,953.90
Base course drainage layers, aggregate base course for roadways and large paved areas, CDOT class 6, compacted, 3/4", to 6" deep	SY	4,368.2540	1,197.02	2,074.45	0.00	0.00	3,271.47	4,093.77	5,087.86	6,359.82
(Note: No material cost since we are reusing milled material from existing pavement.)										
Asphalt surface treatment, tack coat, emulsion, 0.15 gallons per S.Y., 10,000 S.Y.	SY	4,368.2540	226.05	231.87	4,810.93	0.00	5,268.85	6,593.21	8,194.23	10,242.79

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Plant-mix asphalt paving, for highways and large paved areas, binder course, alternate method for developing paving costs, 3" thick	TON	688.0000	2,316.45	1,177.76	41,102.84	0.00	44,597.05	55,806.81	69,358.32	86,697.90
Plant-mix asphalt paving, for highways and large paved areas, wearing course, alternate method for developing paving costs, 3" thick	TON	688.0000	2,585.09	1,316.15	41,817.67	0.00	45,718.92	57,210.66	71,103.07	88,878.84
Pavement Markings	LS	1.0000	179.11	73.71	353.26	0.00	606.08	758.42	942.59	1,178.24
Pavement markings, layout of pavement marking	LF	2,000.0000	50.06	21.23	0.00	0.00	71.29	89.21	110.87	138.59
Painted pavement markings, acrylic waterborne, white or yellow, 4" wide	LF	2,000.0000	129.04	52.49	353.26	0.00	534.79	669.21	831.72	1,039.65
Miscellaneous	LS	1.0000	709.75	0.00	0.00	0.00	709.75	709.75	882.10	1,102.62
Precast concrete parking bumpers, wheel stops, precast concrete, 8" x 13" x 6" - 0", 2 dowels per each	EA	61.0000	709.75	0.00	0.00	0.00	709.75	709.75	882.10	1,102.62
(Note: No material cost as this is for relocating existing wheel stops. Decrease productivity by 20% to account for removal and storage.)										
Trails	LS	1.0000	19,408.40	161.33	18,559.01	0.00	38,128.74	47,712.64	59,298.66	74,123.32
Concrete Trail	SF	12,528.0000	19,408.40	161.33	18,559.01	0.00	38,128.74	47,712.64	59,298.66	74,123.32
Compaction, 4 passes, 24" wide, 6" lifts, walk behind, vibrating roller	ECY	232.0000	465.71	96.10	0.00	0.00	561.82	703.04	873.75	1,092.19
(Note: Assume 6" compacted subgrade.)										
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	232.0000	63.59	65.22	277.21	0.00	406.02	508.07	631.45	789.31
Sidewalks, driveways, and patios, sidewalk, concrete, cast-in-place, broomed finish, 3000 psi, 4" thick, excludes base and welded wire mesh	SF	12,528.0000	18,303.17	0.00	17,572.40	0.00	35,875.57	44,893.12	55,794.48	69,743.10

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Concrete surface treatment, curing, sprayed membrane compound	CSF	125.2800	575.92	0.00	709.40	0.00	1,285.33	1,608.40	1,998.97	2,498.71
Architecture	LS	1.0000	0.00	0.00	0.00	275,000.00	275,000.00	275,000.00	341,778.00	427,222.51
New restroom building	SF	1,100.0000	0.00	0.00	0.00	275,000.00	275,000.00	275,000.00	341,778.00	427,222.51
(Note: Restroom with water/sewer. 4 fixtures total.)										
Furnishings	LS	1.0000	1,607.33	185.71	0.00	0.00	1,793.04	1,793.04	2,228.44	2,785.55
Relocate picnic tables	EA	4.0000	226.95	40.00	0.00	0.00	266.95	266.95	331.77	414.72
Relocate benches	EA	1.0000	113.48	20.00	0.00	0.00	133.48	133.48	165.89	207.36
Relocate dumpsters	EA	1.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Relocate trash receptacles	EA	1.0000	32.42	5.71	0.00	0.00	38.14	38.14	47.40	59.25
Relocate grills	EA	4.0000	226.95	40.00	0.00	0.00	266.95	266.95	331.77	414.72
Signs, stock, reflectorized, UTMCD standard, guide & directional sign, 12" x 18", with posts	EA	40.0000	553.63	0.00	0.00	0.00	553.63	553.63	688.06	860.08
(Note: Relocation of existing signs. No material costs.)										
Utilities	LS	1.0000	8,754.15	1,839.62	11,910.14	0.00	22,503.92	28,568.54	35,505.81	44,382.27
Water Distribution	LS	1.0000	1,770.37	551.77	780.32	0.00	3,102.46	3,938.54	4,894.94	6,118.67
Pipe and Fittings	LF	500.0000	291.63	0.00	119.49	0.00	411.12	521.91	648.65	810.81
Public Water Utility Distribution Piping, polyvinyl chloride pressure pipe, 1", class 200, SDR 21, excludes excavation or backfill	LF	500.0000	291.63	0.00	119.49	0.00	411.12	521.91	648.65	810.81
(Note: Assume that fittings/couplings are included in the unit cost.)										
Excavation and Backfill	LS	1.0000	1,478.74	551.77	660.83	0.00	2,691.34	3,416.63	4,246.29	5,307.86
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	277.7778	740.28	284.95	0.00	0.00	1,025.23	1,301.52	1,617.56	2,021.96
(Note: Assume 3' x 5' trench.)										
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	27.7778	30.95	22.17	630.18	0.00	683.30	867.44	1,078.08	1,347.61

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	250.0000	264.60	189.56	0.00	0.00	454.16	576.55	716.55	895.69
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	277.7778	435.08	55.09	0.00	0.00	490.17	622.27	773.37	966.72
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	5.0000	7.83	0.00	30.65	0.00	38.48	48.85	60.72	75.89
Sanitary Sewer System	LS	1.0000	3,370.77	713.44	3,695.75	0.00	7,779.96	9,876.60	12,274.93	15,343.66
Pipe and Fittings	LF	500.0000	1,043.98	0.00	1,007.83	0.00	2,051.81	2,604.76	3,237.27	4,046.58
Public Sanitary Utility Sewerage Piping, piping polyvinyl chloride pipe, B & S, 20' lengths, 4" diameter, SDR 35, excludes excavation or backfill	LF	500.0000	1,043.98	0.00	1,007.83	0.00	2,051.81	2,604.76	3,237.27	4,046.58
(Note: Assume that fittings/couplings are included in the unit cost.)										
Manholes	EA	1.0000	848.05	161.68	2,027.09	0.00	3,036.82	3,855.21	4,791.37	5,989.22
Storm Drainage Manholes, Frames, and Covers, concrete, precast, 4' I.D., 8' deep, excludes base, excavation, backfill, frame and cover	EA	1.0000	511.87	99.26	1,090.95	0.00	1,702.08	2,160.78	2,685.48	3,356.85
Storm Drainage Manholes, Frames, and Covers, precast concrete, 4' diameter manhole, 8" thick top	EA	1.0000	93.86	20.66	254.56	0.00	369.07	468.54	582.31	727.89
Storm Drainage Manholes, Frames, and Covers, standard sizes, aluminum	EA	7.0000	52.70	0.00	167.28	0.00	219.98	279.26	347.07	433.84
Manhole frame and cover, cast iron, city type, 24" diameter x 375 lb.	EA	1.0000	95.77	21.09	259.75	0.00	376.61	478.10	594.20	742.74
Storm Drainage Manholes, Frames, and Covers, precast concrete, 4' diameter manhole, 8" thick top	EA	1.0000	93.86	20.66	254.56	0.00	369.07	468.54	582.31	727.89

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
(Note: Manhole base.)										
Excavation and Backfill	LS	1.0000	1,478.74	551.77	660.83	0.00	2,691.34	3,416.63	4,246.29	5,307.86
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	277.7778	740.28	284.95	0.00	0.00	1,025.23	1,301.52	1,617.56	2,021.96
(Note: Assume 3' x 5' trench.)										
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	27.7778	30.95	22.17	630.18	0.00	683.30	867.44	1,078.08	1,347.61
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	250.0000	264.60	189.56	0.00	0.00	454.16	576.55	716.55	895.69
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	277.7778	435.08	55.09	0.00	0.00	490.17	622.27	773.37	966.72
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	5.0000	7.83	0.00	30.65	0.00	38.48	48.85	60.72	75.89
Natural Gas Distribution	LS	1.0000	3,613.01	574.41	7,434.07	0.00	11,621.50	14,753.40	18,335.95	22,919.94
Pipe and Fittings	LF	500.0000	2,044.97	22.64	6,337.90	0.00	8,405.52	10,670.73	13,261.90	16,577.37
Natural Gas Piping, steel pipe, tar coated and wrapped, plain end natural gas distribution, 2" diameter, schedule 40, excludes excavation or backfill	LF	500.0000	2,044.97	22.64	6,337.90	0.00	8,405.52	10,670.73	13,261.90	16,577.37
Valves and Hydrants	LS	1.0000	89.30	0.00	435.34	0.00	524.64	666.03	827.76	1,034.70
Natural Gas Metering, pressure regulator valves, iron and bronze, 2" diameter	EA	1.0000	37.60	0.00	259.75	0.00	297.35	377.49	469.15	586.44
Natural Gas Metering, lubricated semi-steel plug valve, 2" diameter	EA	1.0000	51.70	0.00	175.59	0.00	227.29	288.55	358.61	448.27
Excavation and Backfill	LS	1.0000	1,478.74	551.77	660.83	0.00	2,691.34	3,416.63	4,246.29	5,307.86

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering (Note: Assume 3' x 5' trench.)	BCY	277.7778	740.28	284.95	0.00	0.00	1,025.23	1,301.52	1,617.56	2,021.96
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	27.7778	30.95	22.17	630.18	0.00	683.30	867.44	1,078.08	1,347.61
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	250.0000	264.60	189.56	0.00	0.00	454.16	576.55	716.55	895.69
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	277.7778	435.08	55.09	0.00	0.00	490.17	622.27	773.37	966.72
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	5.0000	7.83	0.00	30.65	0.00	38.48	48.85	60.72	75.89
Electrical and Telecommunications	LS	1.0000	3,486.61	240.20	2,734.13	0.00	6,460.94	8,202.11	10,193.82	12,742.28
Conduit and Wiring	LF	500.0000	2,289.76	0.00	1,830.72	0.00	4,120.48	5,230.92	6,501.14	8,126.42
Electrical Underground Ducts and Manholes, PVC, with coupling, 1-1/2" diameter, schedule 40, installed by direct burial in slab or duct bank	LF	500.0000	968.19	0.00	914.32	0.00	1,882.51	2,389.83	2,970.15	3,712.68
Electrical Underground Ducts and Manholes, nylon polyethylene pull rope, 1/4"	LF	500.0000	203.32	0.00	93.51	0.00	296.83	376.82	468.33	585.41
Wire, copper, stranded, 600 volt, #8, type THWN-THHN, in raceway	CLF	22.0000	1,118.26	0.00	822.89	0.00	1,941.14	2,464.27	3,062.66	3,828.33
Handholes	EA	2.0000	833.95	110.29	872.76	0.00	1,817.00	2,306.67	2,866.79	3,583.49

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Electrical Underground Ducts and Manholes, hand holes, precast concrete, with concrete cover, 2' x 2' x 3' deep, excludes excavation, backfill and cast in place concrete	EA	2.0000	833.95	110.29	872.76	0.00	1,817.00	2,306.67	2,866.79	3,583.49
(Note: Quantity assumed.)										
Excavation and Backfill	LS	1.0000	362.90	129.91	30.65	0.00	523.46	664.53	825.89	1,032.37
Excavating, chain trencher, utility trench, common earth, 40 H.P., 12" wide, 36" deep, chain trencher, operator riding, includes backfill	LF	500.0000	211.78	76.77	0.00	0.00	288.54	366.31	455.25	569.07
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	55.5556	57.82	42.12	0.00	0.00	99.95	126.88	157.69	197.12
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	55.5556	85.59	11.02	0.00	0.00	96.61	122.65	152.43	190.54
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	5.0000	7.70	0.00	30.65	0.00	38.35	48.69	60.51	75.64
Landscaping	LS	1.0000	42,330.59	22,261.31	194,073.65	0.00	258,665.56	323,682.81	402,282.41	502,853.02
Seeding	SF	440,157.0000	3,286.91	2,120.20	30,431.15	0.00	35,838.27	44,846.45	55,736.47	69,670.59
Soil preparation, structural soil mixing, tilling topsoil, 6" deep, 20 HP tractor, disk harrow\	MSF	440.1570	514.20	269.50	0.00	0.00	783.70	980.69	1,218.83	1,523.54
Seeding, mechanical seeding, 215 lb/acre	ACR	10.1046	2,124.81	1,113.62	5,616.80	0.00	8,855.23	11,081.05	13,771.85	17,214.82
Soil preparation, mulching, hay, 1" deep, power mulcher, large	MSF	440.1570	344.01	449.95	23,780.80	0.00	24,574.76	30,751.79	38,219.22	47,774.02
Fertilizing, hydro spread, 1.5 lb./MSF	MSF	440.1570	303.88	287.14	1,033.55	0.00	1,624.57	2,032.92	2,526.57	3,158.21
Plantings	LS	1.0000	39,043.69	20,141.11	163,642.50	0.00	222,827.29	278,836.36	346,545.95	433,182.43
General planting, local varieties, trees, 5' - 6'	EA	700.0000	33,860.90	17,467.51	152,733.00	0.00	204,061.41	255,353.55	317,360.82	396,701.02

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
General planting, local varieties, shrubs, 2' - 3'	EA	300.0000	5,182.79	2,673.60	10,909.50	0.00	18,765.89	23,482.81	29,185.13	36,481.41
Irrigation	LS	1.0000	33,195.01	0.00	30,027.10	0.00	63,222.11	79,113.40	98,324.43	122,905.54
Irrigation system point-of-connection	EA	1.0000	563.85	0.00	1,246.80	0.00	1,810.65	2,265.77	2,815.96	3,519.95
Underground sprinklers irrigation system, for lawns, residential system, custom, 1" supply (Note: Quantity assumed.)	SF	60,000.0000	23,728.28	0.00	18,078.60	0.00	41,806.88	52,315.31	65,018.99	81,273.74
Underground sprinklers irrigation system, for lawns, pop-up bubbler head w/risers, hi-pop head, 6", includes mechanical joints, excludes piping, excavation and backfill	EA	1,000.0000	8,902.88	0.00	10,701.70	0.00	19,604.58	24,532.32	30,489.48	38,111.85
CATFISH FLATS - AREAS 1 AND 2	LS	1.0000	184,785.55	131,228.52	247,698.17	280,987.55	844,699.78	947,005.07	1,176,965.47	1,471,206.84
Demolition	LS	1.0000	61,270.22	70,441.19	0.00	5,987.55	137,698.96	137,698.96	171,136.27	213,920.34
Clearing and Grubbing	ACR	35.0000	35,192.26	47,542.68	0.00	0.00	82,734.94	82,734.94	102,825.39	128,531.74
Selective clearing, dry clearing, heavy size brush, average grub and trees, excludes removal offsite	ACR	35.0000	27,464.13	44,544.63	0.00	0.00	72,008.76	72,008.76	89,494.59	111,868.23
Selective clearing, load spoils, chute load, includes 2 mile haul to dump	CY	420.0000	7,728.13	2,998.05	0.00	0.00	10,726.18	10,726.18	13,330.80	16,663.51
Removals	LS	1.0000	26,077.96	22,898.51	0.00	5,987.55	54,964.02	54,964.02	68,310.88	85,388.60
Demolish, remove pavement & curb, remove concrete, mesh reinforced, to 6" thick, excludes hauling and disposal fees	SY	1,675.0000	8,581.18	5,321.65	0.00	0.00	13,902.83	13,902.83	17,278.84	21,598.55
Cold milling asphalt paving, 1" to 3" asphalt pavement, 5,000 to 10,000 S.Y., cold planing & cleaning (Note: Assume 6" depth existing pavement. Milled material to be stockpiled and reused as base course for new roads/parking. No disposal costs.)	SY	13,636.0000	6,293.63	9,554.96	0.00	0.00	15,848.59	15,848.59	19,697.09	24,621.37
Demo existing restroom	EA	1.0000	2,219.92	1,113.62	0.00	1,672.50	5,006.04	5,006.04	6,221.65	7,777.06

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Demo existing shelter structure	EA	2.0000	6,830.52	3,426.52	0.00	2,230.00	12,487.04	12,487.04	15,519.26	19,399.07
Borrow, clay, till, or blasted rock, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	187.0000	96.92	54.13	0.00	0.00	151.05	151.05	187.74	234.67
(Note: Load demo material (187 CY concrete trail).)										
Hauling, excavated or borrow material, loose cubic yards, 10 mile round trip, 0.6 load/hour, 16.5 C.Y. dump trailer, highway haulers, excludes loading	LCY	187.0000	488.84	860.36	0.00	0.00	1,349.21	1,349.21	1,676.83	2,096.04
(Note: Haul demo material, not including structures (187 CY concrete trail).)										
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip @ 20 MPH (4.2 cycles/hour), 12 C.Y. truck, highway haulers, excludes loading	LCY	2,397.6633	1,566.95	2,567.26	0.00	0.00	4,134.21	4,134.21	5,138.11	6,422.64
(Note: Haul millings to stockpile area. Assuming crushed asphalt is 45 LB/CF and in place asphalt is 140 LB/CF, swell factor is about 211%.)										
Selective demoliton, dump charges, typical urban city, building construction materials, includes tipping fees only	CY	187.0000	0.00	0.00	0.00	2,085.05	2,085.05	2,085.05	2,591.36	3,239.20
(Note: Rate for construction debris and concrete deposited at the Denver Arapahoe Landfill, 720.876.2620.)										
Earthwork	LS	1.0000	21,800.20	41,269.19	0.00	0.00	63,069.40	78,922.29	98,086.92	122,608.66
Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul	CY	6,476.0000	3,201.37	6,757.86	0.00	0.00	9,959.23	12,462.55	15,488.82	19,361.03
Borrow, topsoil or loam, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	6,476.0000	2,854.83	1,594.37	0.00	0.00	4,449.20	5,567.54	6,919.50	8,649.37

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Excavate and load, bank measure, medium material, 3-1/2 C.Y. bucket, hydraulic excavator	BCY	7,513.0000	3,688.54	7,263.80	0.00	0.00	10,952.34	13,705.28	17,033.32	21,291.65
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	7,513.0000	2,830.98	8,775.32	0.00	0.00	11,606.30	14,523.62	18,050.38	22,562.97
Fill, dumped material, spread, by dozer, excludes compaction	LCY	7,513.0000	3,212.61	6,781.60	0.00	0.00	9,994.21	12,506.32	15,543.22	19,429.03
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	1,000.0000	376.81	1,168.02	0.00	0.00	1,544.83	1,933.13	2,402.55	3,003.19
Fine grading, slopes, gentle, gentle, finish grading	SY	45,679.0000	2,762.98	1,825.47	0.00	0.00	4,588.45	5,741.79	7,136.06	8,920.07
Rock removal allowance	HR	36.0000	2,872.08	7,102.75	0.00	0.00	9,974.83	12,482.06	15,513.07	19,391.34
Roads and Parking	LS	1.0000	11,549.95	8,533.08	132,479.40	0.00	152,562.44	190,678.94	236,981.33	296,226.67
Asphalt Pavement	TON	2,032.0000	10,451.65	8,459.37	132,126.14	0.00	151,037.17	189,001.33	234,896.35	293,620.44
(Note: Assume 3" wearing course, 3" binder course, and 6" recycled base course. Assuming 140 LB/CF for density of asphalt equates to about .315 TN/SY @ 6" depth.)										
Compaction, 3 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	ECY	2,150.2646	522.45	766.14	0.00	0.00	1,288.59	1,612.48	2,004.04	2,505.05
(Note: Assume 12" compacted subgrade.)										
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	2,150.2646	589.37	604.53	2,569.24	0.00	3,763.14	4,709.03	5,852.52	7,315.65
Base course drainage layers, aggregate base course for roadways and large paved areas, CDOT class 6, compacted, 3/4", to 6" deep	SY	6,450.7937	1,767.69	3,063.43	0.00	0.00	4,831.12	6,045.45	7,513.46	9,391.83
(Note: No material cost since we are reusing milled material from existing pavement.)										
Asphalt surface treatment, tack coat, emulsion, 0.15 gallons per S.Y., 10,000 S.Y.	SY	6,450.7937	333.82	342.41	7,104.52	0.00	7,780.74	9,736.48	12,100.78	15,125.98

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Plant-mix asphalt paving, for highways and large paved areas, binder course, alternate method for developing paving costs, 3" thick	TON	1,016.0000	3,420.81	1,739.25	60,698.38	0.00	65,858.44	82,412.38	102,424.50	128,030.63
Plant-mix asphalt paving, for highways and large paved areas, wearing course, alternate method for developing paving costs, 3" thick	TON	1,016.0000	3,817.52	1,943.62	61,754.00	0.00	67,515.15	84,485.51	105,001.05	131,251.32
Pavement Markings	LS	1.0000	179.11	73.71	353.26	0.00	606.08	758.42	942.59	1,178.24
Pavement markings, layout of pavement marking	LF	2,000.0000	50.06	21.23	0.00	0.00	71.29	89.21	110.87	138.59
Painted pavement markings, acrylic waterborne, white or yellow, 4" wide	LF	2,000.0000	129.04	52.49	353.26	0.00	534.79	669.21	831.72	1,039.65
Miscellaneous	LS	1.0000	919.19	0.00	0.00	0.00	919.19	919.19	1,142.39	1,427.99
Precast concrete parking bumpers, wheel stops, precast concrete, 8" x 13" x 6" - 0", 2 dowels per each	EA	79.0000	919.19	0.00	0.00	0.00	919.19	919.19	1,142.39	1,427.99
(Note: No material cost as this is for relocating existing wheel stops. Decrease productivity by 20% to account for removal and storage.)										
Trails	LS	1.0000	32,942.22	273.83	31,500.54	0.00	64,716.59	80,983.52	100,648.68	125,810.84
Concrete Trail	SF	21,264.0000	32,942.22	273.83	31,500.54	0.00	64,716.59	80,983.52	100,648.68	125,810.84
Compaction, 4 passes, 24" wide, 6" lifts, walk behind, vibrating roller	ECY	393.7778	790.47	163.12	0.00	0.00	953.59	1,193.28	1,483.04	1,853.80
(Note: Assume 6" compacted subgrade.)										
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	393.7778	107.93	110.71	470.51	0.00	689.14	862.36	1,071.77	1,339.71
Sidewalks, driveways, and patios, sidewalk, concrete, cast-in-place, broomed finish, 3000 psi, 4" thick, excludes base and welded wire mesh	SF	21,264.0000	31,066.30	0.00	29,825.95	0.00	60,892.25	76,197.91	94,700.98	118,376.22

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Concrete surface treatment, curing, sprayed membrane compound	CSF	212.6400	977.52	0.00	1,204.08	0.00	2,181.61	2,729.97	3,392.89	4,241.11
Architecture	LS	1.0000	16,872.56	2,415.96	8,489.36	275,000.00	302,777.88	302,777.88	376,301.17	470,376.46
Group Picnic Area 1	LS	1.0000	8,441.92	1,214.81	4,378.45	275,000.00	289,035.17	289,035.17	359,221.32	449,026.65
Concrete block, foundation wall, trowel cut joints, normal weight, solid, 2000 psi, 8" x 8" x 16", includes mortar and horizontal joint reinforcing every other course, excludes scaffolding, grout and vertical reinforcing	SF	630.0000	2,057.49	0.00	2,323.72	0.00	4,381.21	4,381.21	5,445.10	6,806.37
New restroom building (Note: Restroom with water/sewer. 4 fixtures total.)	SF	1,100.0000	0.00	0.00	0.00	275,000.00	275,000.00	275,000.00	341,778.00	427,222.51
Relocate day use shelter	EA	1.0000	5,673.76	1,000.00	0.00	0.00	6,673.76	6,673.76	8,294.34	10,367.93
Base course drainage layers, aggregate base course, bank run gravel, spread & compacted, 8" deep	SY	384.0000	86.55	104.81	2,054.73	0.00	2,246.09	2,246.09	2,791.50	3,489.38
Relocate picnic tables	EA	10.0000	567.38	100.00	0.00	0.00	667.38	667.38	829.43	1,036.79
Relocate grills	EA	1.0000	56.74	10.00	0.00	0.00	66.74	66.74	82.94	103.68
Group Picnic Area 2	LS	1.0000	8,430.65	1,201.16	4,110.91	0.00	13,742.71	13,742.71	17,079.84	21,349.80
Concrete block, foundation wall, trowel cut joints, normal weight, solid, 2000 psi, 8" x 8" x 16", includes mortar and horizontal joint reinforcing every other course, excludes scaffolding, grout and vertical reinforcing	SF	630.0000	2,057.49	0.00	2,323.72	0.00	4,381.21	4,381.21	5,445.10	6,806.37
Relocate day use shelter	EA	1.0000	5,673.76	1,000.00	0.00	0.00	6,673.76	6,673.76	8,294.34	10,367.93
Base course drainage layers, aggregate base course, bank run gravel, spread & compacted, 8" deep	SY	334.0000	75.28	91.16	1,787.18	0.00	1,953.63	1,953.63	2,428.03	3,035.03
Relocate picnic tables	EA	10.0000	567.38	100.00	0.00	0.00	667.38	667.38	829.43	1,036.79
Relocate grills	EA	1.0000	56.74	10.00	0.00	0.00	66.74	66.74	82.94	103.68

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Furnishings	LS	1.0000	883.49	155.71	0.00	0.00	1,039.20	1,039.20	1,291.55	1,614.43
Relocate picnic tables	EA	5.0000	283.69	50.00	0.00	0.00	333.69	333.69	414.72	518.40
Relocate benches	EA	1.0000	113.48	20.00	0.00	0.00	133.48	133.48	165.89	207.36
Relocate dumpsters	EA	1.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Relocate trash receptacles	EA	1.0000	32.42	5.71	0.00	0.00	38.14	38.14	47.40	59.25
Utilities	LS	1.0000	18,849.62	4,027.06	23,109.85	0.00	45,986.54	58,379.54	72,555.79	90,694.74
Water Distribution	LS	1.0000	4,248.89	1,324.24	1,872.76	0.00	7,445.89	9,452.50	11,747.85	14,684.81
Pipe and Fittings	LF	1,200.0000	699.92	0.00	286.76	0.00	986.68	1,252.59	1,556.75	1,945.94
Public Water Utility Distribution Piping, polyvinyl chloride pressure pipe, 1", class 200, SDR 21, excludes excavation or backfill	LF	1,200.0000	699.92	0.00	286.76	0.00	986.68	1,252.59	1,556.75	1,945.94
(Note: Assume that fittings/couplings are included in the unit cost.)										
Excavation and Backfill	LS	1.0000	3,548.97	1,324.24	1,586.00	0.00	6,459.21	8,199.92	10,191.09	12,738.87
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	666.6667	1,776.66	683.88	0.00	0.00	2,460.55	3,123.64	3,882.16	4,852.69
(Note: Assume 3' x 5' trench.)										
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	66.6667	74.27	53.21	1,512.44	0.00	1,639.92	2,081.87	2,587.40	3,234.25
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	600.0000	635.04	454.94	0.00	0.00	1,089.98	1,383.72	1,719.72	2,149.66
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	666.6667	1,044.20	132.21	0.00	0.00	1,176.41	1,493.44	1,856.09	2,320.12
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	12.0000	18.80	0.00	73.56	0.00	92.36	117.25	145.72	182.15
Sanitary Sewer System	LS	1.0000	6,054.52	1,324.24	4,004.79	0.00	11,383.55	14,451.33	17,960.53	22,450.66
Pipe and Fittings	LF	1,200.0000	2,505.55	0.00	2,418.79	0.00	4,924.34	6,251.41	7,769.44	9,711.80

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Public Sanitary Utility Sewerage Piping, piping polyvinyl chloride pipe, B & S, 20' lengths, 4" diameter, SDR 35, excludes excavation or backfill	LF	1,200.0000	2,505.55	0.00	2,418.79	0.00	4,924.34	6,251.41	7,769.44	9,711.80
(Note: Assume that fittings/couplings are included in the unit cost.)										
Excavation and Backfill	LS	1.0000	3,548.97	1,324.24	1,586.00	0.00	6,459.21	8,199.92	10,191.09	12,738.87
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	666.6667	1,776.66	683.88	0.00	0.00	2,460.55	3,123.64	3,882.16	4,852.69
(Note: Assume 3' x 5' trench.)										
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	66.6667	74.27	53.21	1,512.44	0.00	1,639.92	2,081.87	2,587.40	3,234.25
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	600.0000	635.04	454.94	0.00	0.00	1,089.98	1,383.72	1,719.72	2,149.66
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	666.6667	1,044.20	132.21	0.00	0.00	1,176.41	1,493.44	1,856.09	2,320.12
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	12.0000	18.80	0.00	73.56	0.00	92.36	117.25	145.72	182.15
Natural Gas Distribution	LS	1.0000	8,546.21	1,378.58	17,232.30	0.00	27,157.09	34,475.71	42,847.42	53,559.27
Pipe and Fittings	LF	1,200.0000	4,907.93	54.35	15,210.96	0.00	20,173.24	25,609.76	31,828.56	39,785.70
Natural Gas Piping, steel pipe, tar coated and wrapped, plain end natural gas distribution, 2" diameter, schedule 40, excludes excavation or backfill	LF	1,200.0000	4,907.93	54.35	15,210.96	0.00	20,173.24	25,609.76	31,828.56	39,785.70
Valves and Hydrants	LS	1.0000	89.30	0.00	435.34	0.00	524.64	666.03	827.76	1,034.70
Natural Gas Metering, pressure regulator valves, iron and bronze, 2" diameter	EA	1.0000	37.60	0.00	259.75	0.00	297.35	377.49	469.15	586.44

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Natural Gas Metering, lubricated semi-steel plug valve, 2" diameter	EA	1.0000	51.70	0.00	175.59	0.00	227.29	288.55	358.61	448.27
Excavation and Backfill	LS	1.0000	3,548.97	1,324.24	1,586.00	0.00	6,459.21	8,199.92	10,191.09	12,738.87
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	666.6667	1,776.66	683.88	0.00	0.00	2,460.55	3,123.64	3,882.16	4,852.69
(Note: Assume 3' x 5' trench.)										
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	66.6667	74.27	53.21	1,512.44	0.00	1,639.92	2,081.87	2,587.40	3,234.25
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	600.0000	635.04	454.94	0.00	0.00	1,089.98	1,383.72	1,719.72	2,149.66
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	666.6667	1,044.20	132.21	0.00	0.00	1,176.41	1,493.44	1,856.09	2,320.12
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	12.0000	18.80	0.00	73.56	0.00	92.36	117.25	145.72	182.15
Electrical and Telecommunications	LS	1.0000	8,451.53	422.07	10,950.64	0.00	19,824.25	25,166.73	31,277.94	39,097.43
Conduit and Wiring	LF	1,200.0000	5,495.43	0.00	4,393.72	0.00	9,889.15	12,554.20	15,602.73	19,503.41
Electrical Underground Ducts and Manholes, PVC, with coupling, 1-1/2" diameter, schedule 40, installed by direct burial in slab or duct bank	LF	1,200.0000	2,323.65	0.00	2,194.37	0.00	4,518.02	5,735.59	7,128.35	8,910.44
Electrical Underground Ducts and Manholes, nylon polyethylene pull rope, 1/4"	LF	1,200.0000	487.97	0.00	224.42	0.00	712.39	904.37	1,123.98	1,404.98
Wire, copper, stranded, 600 volt, #8, type THWN-THHN, in raceway	CLF	52.8000	2,683.82	0.00	1,974.93	0.00	4,658.75	5,914.24	7,350.39	9,187.99
Handholes	EA	2.0000	833.95	110.29	872.76	0.00	1,817.00	2,306.67	2,866.79	3,583.49

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Electrical Underground Ducts and Manholes, hand holes, precast concrete, with concrete cover, 2' x 2' x 3' deep, excludes excavation, backfill and cast in place concrete (Note: Quantity assumed.)	EA	2.0000	833.95	110.29	872.76	0.00	1,817.00	2,306.67	2,866.79	3,583.49
Transformers	LS	1.0000	1,251.20	0.00	5,610.60	0.00	6,861.80	8,711.00	10,826.28	13,532.85
Transformer, dry-type, single phase 240/480 V primary 120/240 V secondary, 75 kVA	EA	1.0000	1,251.20	0.00	5,610.60	0.00	6,861.80	8,711.00	10,826.28	13,532.85
Excavation and Backfill	LS	1.0000	870.96	311.78	73.56	0.00	1,256.30	1,594.87	1,982.14	2,477.68
Excavating, chain trencher, utility trench, common earth, 40 H.P., 12" wide, 36" deep, chain trencher, operator riding, includes backfill	LF	1,200.0000	508.26	184.24	0.00	0.00	692.51	879.13	1,092.61	1,365.76
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	133.3333	138.78	101.10	0.00	0.00	239.88	304.52	378.47	473.08
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	133.3333	205.43	26.44	0.00	0.00	231.87	294.36	365.83	457.29
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	12.0000	18.49	0.00	73.56	0.00	92.05	116.86	145.23	181.54
Landscaping	LS	1.0000	6,707.23	3,690.41	35,604.52	0.00	46,002.16	57,565.10	71,543.58	89,429.48
Seeding	SF	238,843.0000	1,783.58	1,150.49	16,512.90	0.00	19,446.97	24,335.09	30,244.36	37,805.45
Soil preparation, structural soil mixing, tilling topsoil, 6" deep, 20 HP tractor, disk harrow\	MSF	238.8430	279.02	146.24	0.00	0.00	425.26	532.15	661.37	826.72
Seeding, mechanical seeding, 215 lb/acre	ACR	5.4831	1,152.99	604.28	3,047.85	0.00	4,805.13	6,012.93	7,473.04	9,341.30
Soil preparation, mulching, hay, 1" deep, power mulcher, large	MSF	238.8430	186.67	244.16	12,904.21	0.00	13,335.04	16,686.88	20,738.95	25,923.68

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Fertilizing, hydro spread, 1.5 lb./MSF	MSF	238.8430	164.89	155.81	560.84	0.00	881.54	1,103.12	1,371.00	1,713.74
Plantings	LS	1.0000	4,923.65	2,539.92	19,091.63	0.00	26,555.19	33,230.01	41,299.23	51,624.03
General planting, local varieties, trees, 5' - 6'	EA	75.0000	3,627.95	1,871.52	16,364.25	0.00	21,863.72	27,359.31	34,002.94	42,503.68
General planting, local varieties, shrubs, 2' - 3'	EA	75.0000	1,295.70	668.40	2,727.38	0.00	4,691.47	5,870.70	7,296.28	9,120.35
Irrigation	LS	1.0000	5,458.52	0.00	5,563.85	0.00	11,022.37	13,792.91	17,142.23	21,427.79
Irrigation system point-of-connection	EA	1.0000	563.85	0.00	1,246.80	0.00	1,810.65	2,265.77	2,815.96	3,519.95
Underground sprinklers irrigation system, for lawns, residential system, custom, 1" supply (Note: Quantity assumed.)	SF	9,000.0000	3,559.24	0.00	2,711.79	0.00	6,271.03	7,847.30	9,752.85	12,191.06
Underground sprinklers irrigation system, for lawns, pop-up bubbler head w/risers, hi-pop head, 6", includes mechanical joints, excludes piping, excavation and backfill	EA	150.0000	1,335.43	0.00	1,605.26	0.00	2,940.69	3,679.85	4,573.42	5,716.78
FOX RUN	LS	1.0000	58,951.98	23,056.28	47,708.37	1,482.95	131,199.57	150,298.07	186,794.82	233,493.52
Demolition	LS	1.0000	13,451.66	10,204.21	0.00	1,482.95	25,138.82	25,138.82	31,243.25	39,054.07
Clearing and Grubbing	ACR	5.0000	5,027.47	6,791.81	0.00	0.00	11,819.28	11,819.28	14,689.34	18,361.68
Selective clearing, dry clearing, heavy size brush, average grub and trees, excludes removal offsite	ACR	5.0000	3,923.45	6,363.52	0.00	0.00	10,286.97	10,286.97	12,784.94	15,981.18
Selective clearing, load spoils, chute load, includes 2 mile haul to dump	CY	60.0000	1,104.02	428.29	0.00	0.00	1,532.31	1,532.31	1,904.40	2,380.50
Removals	LS	1.0000	8,424.19	3,412.40	0.00	1,482.95	13,319.54	13,319.54	16,553.91	20,692.39
Demolish, remove pavement & curb, remove concrete, mesh reinforced, to 6" thick, excludes hauling and disposal fees	SY	296.0000	1,516.43	940.42	0.00	0.00	2,456.86	2,456.86	3,053.45	3,816.82

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Demo existing shelter structure	EA	1.0000	3,415.26	1,713.26	0.00	1,115.00	6,243.52	6,243.52	7,759.63	9,699.54
Remove horse shoe boards	EA	4.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Remove volleyball court posts	EA	2.0000	226.95	40.00	0.00	0.00	266.95	266.95	331.77	414.72
Remove chain link fence	LF	716.0000	2,708.27	477.33	0.00	0.00	3,185.61	3,185.61	3,959.17	4,948.96
Borrow, clay, till, or blasted rock, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	33.0000	17.10	9.55	0.00	0.00	26.66	26.66	33.13	41.41
(Note: Load demo material (33 CY concrete trail).)										
Hauling, excavated or borrow material, loose cubic yards, 10 mile round trip, 0.6 load/hour, 16.5 C.Y. dump trailer, highway haulers, excludes loading	LCY	33.0000	86.27	151.83	0.00	0.00	238.10	238.10	295.91	369.89
(Note: Haul demo material, not including structures (33 CY concrete trail).)										
Selective demoliton, dump charges, typical urban city, building construction materials, includes tipping fees only	CY	33.0000	0.00	0.00	0.00	367.95	367.95	367.95	457.30	571.62
(Note: Rate for construction debris and concrete deposited at the Denver Arapahoe Landfill, 720.876.2620.)										
Earthwork	LS	1.0000	2,306.09	5,351.40	0.00	0.00	7,657.49	9,582.25	11,909.10	14,886.37
Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul	CY	200.0000	98.87	208.70	0.00	0.00	307.57	384.88	478.35	597.93
Borrow, topsoil or loam, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	200.0000	88.17	49.24	0.00	0.00	137.41	171.94	213.70	267.12
Excavate and load, bank measure, medium material, 3-1/2 C.Y. bucket, hydraulic excavator	BCY	500.0000	245.48	483.42	0.00	0.00	728.89	912.10	1,133.59	1,416.99

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	500.0000	188.41	584.01	0.00	0.00	772.41	966.57	1,201.28	1,501.60
Fill, dumped material, spread, by dozer, excludes compaction	LCY	500.0000	213.80	451.32	0.00	0.00	665.13	832.31	1,034.42	1,293.03
Fine grading, slopes, gentle, gentle, finish grading	SY	584.0000	35.32	23.34	0.00	0.00	58.66	73.41	91.23	114.04
Rock removal allowance	HR	18.0000	1,436.04	3,551.37	0.00	0.00	4,987.41	6,241.03	7,756.54	9,695.67
Trails	LS	1.0000	1,859.04	15.45	1,777.68	0.00	3,652.18	4,570.18	5,679.95	7,099.93
Concrete Trail	SF	1,200.0000	1,859.04	15.45	1,777.68	0.00	3,652.18	4,570.18	5,679.95	7,099.93
Compaction, 4 passes, 24" wide, 6" lifts, walk behind, vibrating roller	ECY	22.2222	44.61	9.21	0.00	0.00	53.81	67.34	83.69	104.62
(Note: Assume 6" compacted subgrade.)										
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	22.2222	6.09	6.25	26.55	0.00	38.89	48.67	60.48	75.60
Sidewalks, driveways, and patios, sidewalk, concrete, cast-in-place, broomed finish, 3000 psi, 4" thick, excludes base and welded wire mesh	SF	1,200.0000	1,753.18	0.00	1,683.18	0.00	3,436.36	4,300.11	5,344.30	6,680.37
Concrete surface treatment, curing, sprayed membrane compound	CSF	12.0000	55.17	0.00	67.95	0.00	123.12	154.06	191.47	239.34
Architecture	LS	1.0000	8,706.69	1,261.47	4,378.45	0.00	14,346.61	14,346.61	17,830.39	22,287.99
Group Picnic Area 1	LS	1.0000	8,706.69	1,261.47	4,378.45	0.00	14,346.61	14,346.61	17,830.39	22,287.99
Concrete block, foundation wall, trowel cut joints, normal weight, solid, 2000 psi, 8" x 8" x 16", includes mortar and horizontal joint reinforcing every other course, excludes scaffolding, grout and vertical reinforcing	SF	630.0000	2,057.49	0.00	2,323.72	0.00	4,381.21	4,381.21	5,445.10	6,806.37
Relocate day use shelter	EA	1.0000	5,673.76	1,000.00	0.00	0.00	6,673.76	6,673.76	8,294.34	10,367.93

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Base course drainage layers, aggregate base course, bank run gravel, spread & compacted, 8" deep	SY	384.0000	86.55	104.81	2,054.73	0.00	2,246.09	2,246.09	2,791.50	3,489.38
Relocate picnic tables	EA	8.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Relocate grills	EA	1.0000	56.74	10.00	0.00	0.00	66.74	66.74	82.94	103.68
Relocate portable restroom	EA	1.0000	378.25	66.67	0.00	0.00	444.92	444.92	552.96	691.20
Furnishings	LS	1.0000	2,518.15	940.49	1,859.29	0.00	5,317.92	5,317.92	6,609.27	8,261.59
Relocate dumpsters	EA	1.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Relocate trash receptacles	EA	2.0000	64.84	11.43	0.00	0.00	76.27	76.27	94.79	118.49
Signs, guide and directional signs, reflectorized, 12" x 18", excludes posts	EA	5.0000	68.63	19.74	189.62	0.00	277.99	277.99	345.49	431.87
Signs, 12'-0", excludes posts, add to above for steel posts, galvanized, upright, bolted	EA	5.0000	34.32	9.87	181.83	0.00	226.01	226.01	280.89	351.12
Fence, chain link industrial, galvanized steel, 6 ga. wire, 2" posts @ 10' OC., 6' high, includes excavation, & concrete	LF	716.0000	1,896.45	819.45	1,487.85	0.00	4,203.75	4,203.75	5,224.54	6,530.68
(Note: Relocate existing fencing. Only include material costs for concrete.)										
Recreational Facilities	LS	1.0000	11,347.52	2,000.00	467.55	0.00	13,815.07	13,815.07	17,169.77	21,462.21
Volleyball court, includes relocating court posts, includes sand	EA	1.0000	7,565.01	1,333.33	467.55	0.00	9,365.89	9,365.89	11,640.21	14,550.26
Horseshoe pit, includes relocating horse shoe boards	EA	2.0000	3,782.51	666.67	0.00	0.00	4,449.17	4,449.17	5,529.56	6,911.95
Utilities	LS	1.0000	14,888.88	2,412.52	29,830.02	0.00	47,131.43	59,832.97	74,362.15	92,952.69
Natural Gas Distribution	LS	1.0000	14,888.88	2,412.52	29,830.02	0.00	47,131.43	59,832.97	74,362.15	92,952.69
Pipe and Fittings	LF	2,100.0000	8,588.88	95.11	26,619.18	0.00	35,303.16	44,817.08	55,699.98	69,624.97
Natural Gas Piping, steel pipe, tar coated and wrapped, plain end natural gas distribution, 2" diameter, schedule 40, excludes excavation or backfill	LF	2,100.0000	8,588.88	95.11	26,619.18	0.00	35,303.16	44,817.08	55,699.98	69,624.97

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Valves and Hydrants	LS	1.0000	89.30	0.00	435.34	0.00	524.64	666.03	827.76	1,034.70
Natural Gas Metering, pressure regulator valves, iron and bronze, 2" diameter	EA	1.0000	37.60	0.00	259.75	0.00	297.35	377.49	469.15	586.44
Natural Gas Metering, lubricated semi-steel plug valve, 2" diameter	EA	1.0000	51.70	0.00	175.59	0.00	227.29	288.55	358.61	448.27
Excavation and Backfill	LS	1.0000	6,210.70	2,317.42	2,775.50	0.00	11,303.62	14,349.85	17,834.41	22,293.02
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	1,166.6667	3,109.16	1,196.80	0.00	0.00	4,305.96	5,466.38	6,793.77	8,492.22
(Note: Assume 3' x 5' trench.)										
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	116.6667	129.98	93.12	2,646.77	0.00	2,869.86	3,643.27	4,527.96	5,659.94
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	1,050.0000	1,111.31	796.15	0.00	0.00	1,907.46	2,421.51	3,009.52	3,761.90
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	1,166.6667	1,827.36	231.36	0.00	0.00	2,058.72	2,613.52	3,248.16	4,060.20
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	21.0000	32.89	0.00	128.73	0.00	161.62	205.18	255.00	318.76
Landscaping	LS	1.0000	1,678.55	870.72	6,709.56	0.00	9,258.84	11,586.11	14,399.55	17,999.44
Seeding	SF	5,000.0000	37.34	24.08	345.69	0.00	407.11	509.44	633.14	791.43
Soil preparation, structural soil mixing, tilling topsoil, 6" deep, 20 HP tractor, disk harrow\	MSF	5.0000	5.84	3.06	0.00	0.00	8.90	11.14	13.85	17.31
Seeding, mechanical seeding, 215 lb/acre	ACR	0.1148	24.14	12.65	63.80	0.00	100.59	125.88	156.44	195.55
Soil preparation, mulching, hay, 1" deep, power mulcher, large	MSF	5.0000	3.91	5.11	270.14	0.00	279.16	349.33	434.15	542.69

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Fertilizing, hydro spread, 1.5 lb./MSF	MSF	5.0000	3.45	3.26	11.74	0.00	18.45	23.09	28.70	35.88
Plantings	LS	1.0000	1,641.22	846.64	6,363.88	0.00	8,851.73	11,076.67	13,766.41	17,208.01
General planting, local varieties, trees, 5' - 6'	EA	25.0000	1,209.32	623.84	5,454.75	0.00	7,287.91	9,119.77	11,334.31	14,167.89
General planting, local varieties, shrubs, 2' - 3'	EA	25.0000	431.90	222.80	909.13	0.00	1,563.82	1,956.90	2,432.09	3,040.12
Irrigation	LS	1.0000	2,195.41	0.00	2,685.82	0.00	4,881.22	6,108.15	7,591.39	9,489.23
Irrigation system point-of-connection	EA	1.0000	563.85	0.00	1,246.80	0.00	1,810.65	2,265.77	2,815.96	3,519.95
Underground sprinklers irrigation system, for lawns, residential system, custom, 1" supply (Note: Quantity assumed.)	SF	3,000.0000	1,186.41	0.00	903.93	0.00	2,090.34	2,615.77	3,250.95	4,063.69
Underground sprinklers irrigation system, for lawns, pop-up bubbler head w/risers, hi-pop head, 6", includes mechanical joints, excludes piping, excavation and backfill	EA	50.0000	445.14	0.00	535.09	0.00	980.23	1,226.62	1,524.47	1,905.59
KINGFISHER AREA	LS	1.0000	31,746.15	32,141.56	54,341.69	3,311.55	121,540.95	143,733.34	178,635.98	223,294.98
Demolition	LS	1.0000	16,814.60	11,504.70	0.00	3,311.55	31,630.85	31,630.85	39,311.74	49,139.68
Clearing and Grubbing	ACR	1.0000	1,005.49	1,358.36	0.00	0.00	2,363.86	2,363.86	2,937.87	3,672.34
Selective clearing, dry clearing, heavy size brush, average grub and trees, excludes removal offsite	ACR	1.0000	784.69	1,272.70	0.00	0.00	2,057.39	2,057.39	2,556.99	3,196.24
Selective clearing, load spoils, chute load, includes 2 mile haul to dump	CY	12.0000	220.80	85.66	0.00	0.00	306.46	306.46	380.88	476.10
Removals	LS	1.0000	15,809.11	10,146.34	0.00	3,311.55	29,267.00	29,267.00	36,373.88	45,467.34
Demolish, remove pavement & curb, remove concrete, mesh reinforced, to 6" thick, excludes hauling and disposal fees	SY	2,667.0000	13,663.28	8,473.34	0.00	0.00	22,136.62	22,136.62	27,512.04	34,390.05

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Remove traffic posts to 12'-0" high	EA	20.0000	151.66	33.06	0.00	0.00	184.73	184.73	229.58	286.98
Remove post and cable fence	LF	375.0000	1,063.83	187.50	0.00	0.00	1,251.33	1,251.33	1,555.19	1,943.99
Borrow, clay, till, or blasted rock, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	297.0000	153.94	85.97	0.00	0.00	239.91	239.91	298.17	372.71
(Note: Load demo material (297 CY concrete trail).)										
Hauling, excavated or borrow material, loose cubic yards, 10 mile round trip, 0.6 load/hour, 16.5 C.Y. dump trailer, highway haulers, excludes loading	LCY	297.0000	776.40	1,366.46	0.00	0.00	2,142.86	2,142.86	2,663.20	3,329.00
(Note: Haul demo material, not including structures (297 CY concrete trail).)										
Selective demoliton, dump charges, typical urban city, building construction materials, includes tipping fees only	CY	297.0000	0.00	0.00	0.00	3,311.55	3,311.55	3,311.55	4,115.69	5,144.61
(Note: Rate for construction debris and concrete deposited at the Denver Arapahoe Landfill, 720.876.2620.)										
Earthwork	LS	1.0000	7,378.98	17,186.81	0.00	0.00	24,565.79	30,740.56	38,205.26	47,756.57
Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul	CY	1,100.0000	543.78	1,147.88	0.00	0.00	1,691.65	2,116.86	2,630.90	3,288.62
Borrow, topsoil or loam, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	1,100.0000	484.92	270.82	0.00	0.00	755.73	945.69	1,175.33	1,469.16
Excavate and load, bank measure, medium material, 3-1/2 C.Y. bucket, hydraulic excavator	BCY	2,590.0000	1,271.57	2,504.09	0.00	0.00	3,775.66	4,724.70	5,872.00	7,339.99
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	2,590.0000	975.94	3,025.17	0.00	0.00	4,001.11	5,006.81	6,222.61	7,778.26

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Fill, dumped material, spread, by dozer, excludes compaction	LCY	2,590.0000	1,107.50	2,337.86	0.00	0.00	3,445.36	4,311.38	5,358.30	6,697.88
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	5,185.0000	1,953.77	6,056.17	0.00	0.00	8,009.94	10,023.29	12,457.24	15,571.54
Fine grading, slopes, gentle, gentle, finish grading	SY	6,667.0000	403.27	266.43	0.00	0.00	669.70	838.03	1,041.53	1,301.91
Rock removal allowance	HR	8.0000	638.24	1,578.39	0.00	0.00	2,216.63	2,773.79	3,447.35	4,309.19
Roads and Parking	LS	1.0000	1,807.17	1,819.54	35,672.33	0.00	39,299.04	49,095.22	61,016.97	76,271.21
Gravel Surfacing	SF	60,000.0000	1,481.38	1,819.54	35,672.33	0.00	38,973.26	48,769.43	60,612.07	75,765.09
Base course drainage layers, aggregate base course, bank run gravel, spread & compacted, 8" deep	SY	6,666.6667	1,481.38	1,819.54	35,672.33	0.00	38,973.26	48,769.43	60,612.07	75,765.09
Miscellaneous	LS	1.0000	325.79	0.00	0.00	0.00	325.79	325.79	404.90	506.12
Precast concrete parking bumpers, wheel stops, precast concrete, 8" x 13" x 6" - 0", 2 dowels per each	EA	28.0000	325.79	0.00	0.00	0.00	325.79	325.79	404.90	506.12
(Note: No material cost as this is for relocating existing wheel stops. Decrease productivity by 20% to account for removal and storage.)										
Furnishings	LS	1.0000	1,141.39	152.38	0.00	0.00	1,293.77	1,293.77	1,607.93	2,009.91
Relocate portable restroom	EA	1.0000	378.25	66.67	0.00	0.00	444.92	444.92	552.96	691.20
Relocate dumpsters	EA	1.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Relocate trash receptacles	EA	1.0000	32.42	5.71	0.00	0.00	38.14	38.14	47.40	59.25
Signs, stock, reflectorized, UTMCD standard, guide & directional sign, 12" x 18", with posts	EA	20.0000	276.81	0.00	0.00	0.00	276.81	276.81	344.03	430.04
(Note: Relocation of existing signs. No material costs.)										
Landscaping	LS	1.0000	2,571.76	1,478.13	16,127.44	0.00	20,177.33	25,249.04	31,380.24	39,225.30
Seeding	SF	157,000.0000	1,172.41	756.26	10,854.52	0.00	12,783.18	15,996.32	19,880.69	24,850.86
Soil preparation, structural soil mixing, tilling topsoil, 6" deep, 20 HP tractor, disk harrow\	MSF	157.0000	183.41	96.13	0.00	0.00	279.54	349.80	434.75	543.43

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Seeding, mechanical seeding, 215 lb/acre	ACR	3.6042	757.90	397.22	2,003.46	0.00	3,158.58	3,952.51	4,912.30	6,140.37
Soil preparation, mulching, hay, 1" deep, power mulcher, large	MSF	157.0000	122.71	160.49	8,482.40	0.00	8,765.59	10,968.88	13,632.45	17,040.56
Fertilizing, hydro spread, 1.5 lb./MSF	MSF	157.0000	108.39	102.42	368.66	0.00	579.47	725.12	901.20	1,126.51
Plantings	LS	1.0000	1,399.35	721.87	5,272.93	0.00	7,394.15	9,252.72	11,499.55	14,374.43
General planting, local varieties, trees, 5' - 6'	EA	20.0000	967.45	499.07	4,363.80	0.00	5,830.33	7,295.82	9,067.45	11,334.31
General planting, local varieties, shrubs, 2' - 3'	EA	25.0000	431.90	222.80	909.13	0.00	1,563.82	1,956.90	2,432.09	3,040.12
Irrigation	LS	1.0000	2,032.25	0.00	2,541.91	0.00	4,574.17	5,723.91	7,113.84	8,892.30
Irrigation system point-of-connection	EA	1.0000	563.85	0.00	1,246.80	0.00	1,810.65	2,265.77	2,815.96	3,519.95
Underground sprinklers irrigation system, for lawns, residential system, custom, 1" supply (Note: Quantity assumed.)	SF	2,700.0000	1,067.77	0.00	813.54	0.00	1,881.31	2,354.19	2,925.85	3,657.32
Underground sprinklers irrigation system, for lawns, pop-up bubbler head w/risers, hi-pop head, 6", includes mechanical joints, excludes piping, excavation and backfill	EA	45.0000	400.63	0.00	481.58	0.00	882.21	1,103.95	1,372.03	1,715.03
GRAVEL POND AREA	LS	1.0000	47,436.39	17,801.92	52,668.56	0.00	117,906.87	142,202.81	176,733.79	220,917.24
Demolition	LS	1.0000	9,810.56	11,181.43	0.00	0.00	20,991.99	20,991.99	26,089.45	32,611.82
Clearing and Grubbing	ACR	8.0000	8,043.94	10,866.90	0.00	0.00	18,910.84	18,910.84	23,502.95	29,378.68
Selective clearing, dry clearing, heavy size brush, average grub and trees, excludes removal offsite	ACR	8.0000	6,277.52	10,181.63	0.00	0.00	16,459.15	16,459.15	20,455.91	25,569.88
Selective clearing, load spoils, chute load, includes 2 mile haul to dump	CY	96.0000	1,766.43	685.27	0.00	0.00	2,451.70	2,451.70	3,047.04	3,808.80
Removals	LS	1.0000	1,766.61	314.53	0.00	0.00	2,081.14	2,081.14	2,586.51	3,233.13

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Remove traffic posts to 12'-0" high	EA	10.0000	75.83	16.53	0.00	0.00	92.36	92.36	114.79	143.49
Remove post and cable fence	LF	596.0000	1,690.78	298.00	0.00	0.00	1,988.78	1,988.78	2,471.71	3,089.64
Earthwork	LS	1.0000	1,249.31	2,133.56	0.00	0.00	3,382.86	4,233.17	5,261.11	6,576.38
Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul	CY	300.0000	148.30	313.06	0.00	0.00	461.36	577.33	717.52	896.90
Borrow, topsoil or loam, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	300.0000	132.25	73.86	0.00	0.00	206.11	257.92	320.55	400.68
Excavate and load, bank measure, medium material, 3-1/2 C.Y. bucket, hydraulic excavator	BCY	200.0000	98.19	193.37	0.00	0.00	291.56	364.84	453.44	566.79
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	200.0000	75.36	233.60	0.00	0.00	308.97	386.63	480.51	600.64
Fill, dumped material, spread, by dozer, excludes compaction	LCY	200.0000	85.52	180.53	0.00	0.00	266.05	332.92	413.77	517.21
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	100.0000	37.68	116.80	0.00	0.00	154.48	193.31	240.26	300.32
Fine grading, slopes, gentle, gentle, finish grading	SY	5,834.0000	352.88	233.14	0.00	0.00	586.02	733.33	911.40	1,139.25
Rock removal allowance	HR	4.0000	319.12	789.19	0.00	0.00	1,108.31	1,386.90	1,723.67	2,154.59
Roads and Parking	LS	1.0000	1,442.07	1,228.19	24,078.83	0.00	26,749.09	33,361.51	41,462.65	51,828.32
Gravel Surfacing	SF	40,500.0000	999.93	1,228.19	24,078.83	0.00	26,306.95	32,919.37	40,913.15	51,141.44
Base course drainage layers, aggregate base course, bank run gravel, spread & compacted, 8" deep	SY	4,500.0000	999.93	1,228.19	24,078.83	0.00	26,306.95	32,919.37	40,913.15	51,141.44
Miscellaneous	LS	1.0000	442.14	0.00	0.00	0.00	442.14	442.14	549.50	686.88

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Precast concrete parking bumpers, wheel stops, precast concrete, 8" x 13" x 6" - 0", 2 dowels per each	EA	38.0000	442.14	0.00	0.00	0.00	442.14	442.14	549.50	686.88
(Note: No material cost as this is for relocating existing wheel stops. Decrease productivity by 20% to account for removal and storage.)										
Trails	LS	1.0000	24,787.23	206.04	23,702.44	0.00	48,695.70	60,935.68	75,732.64	94,665.80
Concrete Trail	SF	16,000.0000	24,787.23	206.04	23,702.44	0.00	48,695.70	60,935.68	75,732.64	94,665.80
Compaction, 4 passes, 24" wide, 6" lifts, walk behind, vibrating roller	ECY	296.2963	594.78	122.74	0.00	0.00	717.52	897.87	1,115.90	1,394.88
(Note: Assume 6" compacted subgrade.)										
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	296.2963	81.21	83.30	354.03	0.00	518.54	648.88	806.45	1,008.06
Sidewalks, driveways, and patios, sidewalk, concrete, cast-in-place, broomed finish, 3000 psi, 4" thick, excludes base and welded wire mesh	SF	16,000.0000	23,375.70	0.00	22,442.40	0.00	45,818.10	57,334.77	71,257.32	89,071.65
Concrete surface treatment, curing, sprayed membrane compound	CSF	160.0000	735.53	0.00	906.01	0.00	1,641.54	2,054.15	2,552.96	3,191.20
Furnishings	LS	1.0000	851.68	125.71	0.00	0.00	977.39	977.39	1,214.73	1,518.42
Relocate picnic tables	EA	4.0000	226.95	40.00	0.00	0.00	266.95	266.95	331.77	414.72
Relocate dumpsters	EA	1.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Relocate trash receptacles	EA	1.0000	32.42	5.71	0.00	0.00	38.14	38.14	47.40	59.25
Signs, stock, reflectorized, UTMCD standard, guide & directional sign, 12" x 18", with posts	EA	10.0000	138.41	0.00	0.00	0.00	138.41	138.41	172.02	215.02
(Note: Relocation of existing signs. No material costs.)										
Utilities	LS	1.0000	9,205.93	2,869.18	4,057.65	0.00	16,132.77	20,480.42	25,453.66	31,817.08
Water Distribution	LS	1.0000	9,205.93	2,869.18	4,057.65	0.00	16,132.77	20,480.42	25,453.66	31,817.08
Pipe and Fittings	LF	2,600.0000	1,516.49	0.00	621.32	0.00	2,137.81	2,713.94	3,372.96	4,216.20

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Public Water Utility Distribution Piping, polyvinyl chloride pressure pipe, 1", class 200, SDR 21, excludes excavation or backfill	LF	2,600.0000	1,516.49	0.00	621.32	0.00	2,137.81	2,713.94	3,372.96	4,216.20
(Note: Assume that fittings/couplings are included in the unit cost.)										
Excavation and Backfill	LS	1.0000	7,689.44	2,869.18	3,436.33	0.00	13,994.96	17,766.48	22,080.70	27,600.88
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	1,444.4444	3,849.44	1,481.75	0.00	0.00	5,331.18	6,767.90	8,411.34	10,514.17
(Note: Assume 3' x 5' trench.)										
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	144.4444	160.93	115.29	3,276.95	0.00	3,553.16	4,510.71	5,606.04	7,007.55
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	1,300.0000	1,375.91	985.70	0.00	0.00	2,361.62	2,998.05	3,726.07	4,657.59
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	1,444.4444	2,262.44	286.45	0.00	0.00	2,548.89	3,235.79	4,021.54	5,026.92
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	26.0000	40.72	0.00	159.38	0.00	200.11	254.03	315.72	394.65
Landscaping	LS	1.0000	89.61	57.80	829.64	0.00	977.06	1,222.65	1,519.54	1,899.43
Seeding	SF	12,000.0000	89.61	57.80	829.64	0.00	977.06	1,222.65	1,519.54	1,899.43
Soil preparation, structural soil mixing, tilling topsoil, 6" deep, 20 HP tractor, disk harrow\	MSF	12.0000	14.02	7.35	0.00	0.00	21.37	26.74	33.23	41.54
Seeding, mechanical seeding, 215 lb/acre	ACR	0.2755	57.93	30.36	153.13	0.00	241.42	302.10	375.46	469.33
Soil preparation, mulching, hay, 1" deep, power mulcher, large	MSF	12.0000	9.38	12.27	648.34	0.00	669.98	838.39	1,041.97	1,302.46
Fertilizing, hydro spread, 1.5 lb./MSF	MSF	12.0000	8.28	7.83	28.18	0.00	44.29	55.42	68.88	86.10

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
PLATTE RIVER	LS	1.0000	15,250.76	9,993.28	16,127.10	301.05	41,672.19	49,405.14	61,402.15	76,752.69
Demolition	LS	1.0000	4,685.65	5,920.60	0.00	301.05	10,907.31	10,907.31	13,555.92	16,944.90
Clearing and Grubbing	ACR	1.0000	1,005.49	1,358.36	0.00	0.00	2,363.86	2,363.86	2,937.87	3,672.34
Selective clearing, dry clearing, heavy size brush, average grub and trees, excludes removal offsite	ACR	1.0000	784.69	1,272.70	0.00	0.00	2,057.39	2,057.39	2,556.99	3,196.24
Selective clearing, load spoils, chute load, includes 2 mile haul to dump	CY	12.0000	220.80	85.66	0.00	0.00	306.46	306.46	380.88	476.10
Removals	LS	1.0000	3,680.16	4,562.24	0.00	301.05	8,543.45	8,543.45	10,618.05	13,272.56
Demolish, remove pavement & curb, remove concrete, mesh reinforced, to 6" thick, excludes hauling and disposal fees	SY	236.0000	1,209.05	749.80	0.00	0.00	1,958.85	1,958.85	2,434.51	3,043.14
Cold milling asphalt paving, 1" to 3" asphalt pavement, 5,000 to 10,000 S.Y., cold planing & cleaning	SY	4,140.0000	1,910.80	2,900.96	0.00	0.00	4,811.76	4,811.76	5,980.20	7,475.25
(Note: Assume 6" depth existing pavement. Milled material to be stockpiled and reused as base course for new roads/parking. No disposal costs.)										
Borrow, clay, till, or blasted rock, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	27.0000	13.99	7.82	0.00	0.00	21.81	21.81	27.11	33.88
(Note: Load demo material (220 CY concrete trail).)										
Hauling, excavated or borrow material, loose cubic yards, 10 mile round trip, 0.6 load/hour, 16.5 C.Y. dump trailer, highway haulers, excludes loading	LCY	27.0000	70.58	124.22	0.00	0.00	194.81	194.81	242.11	302.64
(Note: Haul demo material, not including structures (220 CY concrete trail).)										
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip @ 20 MPH (4.2 cycles/hour), 12 C.Y. truck, highway haulers, excludes loading	LCY	727.9500	475.74	779.44	0.00	0.00	1,255.18	1,255.18	1,559.97	1,949.97

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
(Note: Haul millings to stockpile area. Assuming crushed asphalt is 45 LB/CF and in place asphalt is 140 LB/CF, swell factor is about 211%.)										
Selective demoliton, dump charges, typical urban city, building construction materials, includes tipping fees only	CY	27.0000	0.00	0.00	0.00	301.05	301.05	301.05	374.15	467.69
(Note: Rate for construction debris and concrete deposited at the Denver Arapahoe Landfill, 720.876.2620.)										
Earthwork	LS	1.0000	1,675.55	2,776.39	0.00	0.00	4,451.93	5,570.95	6,923.74	8,654.68
Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul	CY	1,000.0000	494.34	1,043.52	0.00	0.00	1,537.87	1,924.42	2,391.73	2,989.66
Borrow, topsoil or loam, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	1,000.0000	440.83	246.20	0.00	0.00	687.03	859.72	1,068.48	1,335.60
Excavate and load, bank measure, medium material, 3-1/2 C.Y. bucket, hydraulic excavator	BCY	150.0000	73.64	145.02	0.00	0.00	218.67	273.63	340.08	425.10
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	150.0000	56.52	175.20	0.00	0.00	231.72	289.97	360.38	450.48
Fill, dumped material, spread, by dozer, excludes compaction	LCY	150.0000	64.14	135.40	0.00	0.00	199.54	249.69	310.33	387.91
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	100.0000	37.68	116.80	0.00	0.00	154.48	193.31	240.26	300.32
Fine grading, slopes, gentle, gentle, finish grading	SY	3,129.0000	189.26	125.04	0.00	0.00	314.31	393.31	488.82	611.02
Rock removal allowance	HR	4.0000	319.12	789.19	0.00	0.00	1,108.31	1,386.90	1,723.67	2,154.59
Trails	LS	1.0000	3,284.31	27.30	3,140.57	0.00	6,452.18	8,073.98	10,034.57	12,543.22
Concrete Trail	SF	2,120.0000	3,284.31	27.30	3,140.57	0.00	6,452.18	8,073.98	10,034.57	12,543.22

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Compaction, 4 passes, 24" wide, 6" lifts, walk behind, vibrating roller (Note: Assume 6" compacted subgrade.)	ECY	39.2593	78.81	16.26	0.00	0.00	95.07	118.97	147.86	184.82
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	39.2593	10.76	11.04	46.91	0.00	68.71	85.98	106.85	133.57
Sidewalks, driveways, and patios, sidewalk, concrete, cast-in-place, broomed finish, 3000 psi, 4" thick, excludes base and welded wire mesh	SF	2,120.0000	3,097.28	0.00	2,973.62	0.00	6,070.90	7,596.86	9,441.60	11,801.99
Concrete surface treatment, curing, sprayed membrane compound	CSF	21.2000	97.46	0.00	120.05	0.00	217.50	272.18	338.27	422.83
Landscaping	LS	1.0000	2,430.91	1,268.99	9,437.30	0.00	13,137.21	16,439.33	20,431.27	25,539.09
Seeding	SF	15,525.0000	115.93	74.78	1,073.35	0.00	1,264.07	1,581.80	1,965.91	2,457.39
Soil preparation, structural soil mixing, tilling topsoil, 6" deep, 20 HP tractor, disk harrow\	MSF	15.5250	18.14	9.51	0.00	0.00	27.64	34.59	42.99	53.74
Seeding, mechanical seeding, 215 lb/acre	ACR	0.3564	74.95	39.28	198.11	0.00	312.34	390.85	485.75	607.19
Soil preparation, mulching, hay, 1" deep, power mulcher, large	MSF	15.5250	12.13	15.87	838.78	0.00	866.79	1,084.66	1,348.05	1,685.06
Fertilizing, hydro spread, 1.5 lb./MSF	MSF	15.5250	10.72	10.13	36.45	0.00	57.30	71.70	89.12	111.39
Plantings	LS	1.0000	2,314.98	1,194.21	8,363.95	0.00	11,873.14	14,857.53	18,465.37	23,081.71
General planting, local varieties, trees, 5' - 6'	EA	30.0000	1,451.18	748.61	6,545.70	0.00	8,745.49	10,943.72	13,601.18	17,001.47
General planting, local varieties, shrubs, 2' - 3'	EA	50.0000	863.80	445.60	1,818.25	0.00	3,127.65	3,913.80	4,864.19	6,080.23
Irrigation	LS	1.0000	3,174.34	0.00	3,549.22	0.00	6,723.57	8,413.58	10,456.64	13,070.80
Irrigation system point-of-connection	EA	1.0000	563.85	0.00	1,246.80	0.00	1,810.65	2,265.77	2,815.96	3,519.95
Underground sprinklers irrigation system, for lawns, residential system, custom, 1" supply	SF	4,800.0000	1,898.26	0.00	1,446.29	0.00	3,344.55	4,185.22	5,201.52	6,501.90

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
(Note: Quantity assumed.)										
Underground sprinklers irrigation system, for lawns, pop-up bubbler head w/risers, hi-pop head, 6", includes mechanical joints, excludes piping, excavation and backfill	EA	80.0000	712.23	0.00	856.14	0.00	1,568.37	1,962.59	2,439.16	3,048.95
MARINA POINT	LS	1.0000	249,364.15	111,868.21	504,319.31	281,768.05	1,147,319.72	1,311,433.54	1,629,887.78	2,037,359.73
Demolition	LS	1.0000	55,859.95	52,071.55	0.00	6,768.05	114,699.55	114,699.55	142,551.93	178,189.92
Clearing and Grubbing	ACR	3.0000	3,016.48	4,075.09	0.00	0.00	7,091.57	7,091.57	8,813.60	11,017.01
Selective clearing, dry clearing, heavy size brush, average grub and trees, excludes removal offsite	ACR	3.0000	2,354.07	3,818.11	0.00	0.00	6,172.18	6,172.18	7,670.96	9,588.71
Selective clearing, load spoils, chute load, includes 2 mile haul to dump	CY	36.0000	662.41	256.98	0.00	0.00	919.39	919.39	1,142.64	1,428.30
Removals	LS	1.0000	52,843.47	47,996.46	0.00	6,768.05	107,607.98	107,607.98	133,738.33	167,172.91
Demolish, remove pavement & curb, remove concrete, mesh reinforced, to 6" thick, excludes hauling and disposal fees	SY	566.0000	2,899.67	1,798.24	0.00	0.00	4,697.91	4,697.91	5,838.70	7,298.38
Demolish, remove pavement & curb, remove concrete, mesh reinforced, to 6" thick, excludes hauling and disposal fees	SY	3,541.0000	18,140.86	11,250.13	0.00	0.00	29,391.00	29,391.00	36,527.98	45,659.98
Cold milling asphalt paving, 1" to 3" asphalt pavement, 5,000 to 10,000 S.Y., cold planing & cleaning	SY	33,864.0000	15,629.76	23,729.05	0.00	0.00	39,358.81	39,358.81	48,916.28	61,145.35
(Note: Assume 6" depth existing pavement. Milled material to be stockpiled and reused as base course for new roads/parking. No disposal costs.)										
Remove day use shelter	EA	6.0000	5,446.81	960.00	0.00	0.00	6,406.81	6,406.81	7,962.57	9,953.21
Remove ADA fishing pier	EA	1.0000	1,418.44	250.00	0.00	0.00	1,668.44	1,668.44	2,073.59	2,591.98
Remove traffic posts to 12'-0" high	EA	10.0000	75.83	16.53	0.00	0.00	92.36	92.36	114.79	143.49
Remove timber fence	LF	138.0000	391.49	69.00	0.00	0.00	460.49	460.49	572.31	715.39

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Demo existing restroom	EA	1.0000	2,219.92	1,113.62	0.00	1,672.50	5,006.04	5,006.04	6,221.65	7,777.06
Selective demolition, utility poles & cross arms, utility poles, wood, 35'-45' high	EA	3.0000	616.90	79.41	0.00	0.00	696.31	696.31	865.40	1,081.75
Remove horse shoe boards	EA	4.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Remove volleyball court posts	EA	2.0000	226.95	40.00	0.00	0.00	266.95	266.95	331.77	414.72
Borrow, clay, till, or blasted rock, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	457.0000	236.87	132.29	0.00	0.00	369.16	369.16	458.80	573.50
(Note: Load demo material (457 CY concrete trails/patio).)										
Hauling, excavated or borrow material, loose cubic yards, 10 mile round trip, 0.6 load/hour, 16.5 C.Y. dump trailer, highway haulers, excludes loading	LCY	457.0000	1,194.66	2,102.60	0.00	0.00	3,297.26	3,297.26	4,097.93	5,122.41
(Note: Haul demo material, not including structures (457 CY concrete trails/patio).)										
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip @ 20 MPH (4.2 cycles/hour), 12 C.Y. truck, highway haulers, excludes loading	LCY	5,954.4200	3,891.41	6,375.59	0.00	0.00	10,267.00	10,267.00	12,760.12	15,950.15
(Note: Haul millings to stockpile area. Assuming crushed asphalt is 45 LB/CF and in place asphalt is 140 LB/CF, swell factor is about 211%.)										
Selective demoliton, dump charges, typical urban city, building construction materials, includes tipping fees only	CY	457.0000	0.00	0.00	0.00	5,095.55	5,095.55	5,095.55	6,332.90	7,916.12
(Note: Rate for construction debris and concrete deposited at the Denver Arapahoe Landfill, 720.876.2620.)										
Earthwork	LS	1.0000	12,549.55	17,431.32	0.00	0.00	29,980.88	37,516.76	46,626.92	58,283.65
Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul	CY	8,128.0000	4,018.03	8,481.77	0.00	0.00	12,499.79	15,641.70	19,439.95	24,299.94

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Borrow, topsoil or loam, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	8,128.0000	3,583.08	2,001.09	0.00	0.00	5,584.18	6,987.79	8,684.63	10,855.79
Excavate and load, bank measure, medium material, 3-1/2 C.Y. bucket, hydraulic excavator	BCY	1,000.0000	490.95	966.83	0.00	0.00	1,457.79	1,824.21	2,267.18	2,833.97
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	1,000.0000	376.81	1,168.02	0.00	0.00	1,544.83	1,933.13	2,402.55	3,003.19
Fill, dumped material, spread, by dozer, excludes compaction	LCY	1,000.0000	427.61	902.65	0.00	0.00	1,330.26	1,664.62	2,068.84	2,586.05
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	1,000.0000	376.81	1,168.02	0.00	0.00	1,544.83	1,933.13	2,402.55	3,003.19
Fine grading, slopes, gentle, gentle, finish grading	SY	48,889.0000	2,957.14	1,953.75	0.00	0.00	4,910.89	6,145.28	7,637.53	9,546.91
Rock removal allowance	HR	4.0000	319.12	789.19	0.00	0.00	1,108.31	1,386.90	1,723.67	2,154.59
Roads and Parking	LS	1.0000	31,203.68	22,837.80	350,716.01	0.00	404,757.48	505,910.95	628,760.85	785,951.07
Asphalt Pavement	TON	5,353.0000	27,533.32	22,284.95	348,066.56	0.00	397,884.83	497,895.73	618,799.30	773,499.13
(Note: Assume 3" wearing course, 3" binder course, and 6" recycled base course. Assuming 140 LB/CF for density of asphalt equates to about .315 TN/SY @ 6" depth.)										
Compaction, 3 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	ECY	5,664.5503	1,376.31	2,018.28	0.00	0.00	3,394.59	4,247.84	5,279.34	6,599.18
(Note: Assume 12" compacted subgrade.)										
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	5,664.5503	1,552.60	1,592.54	6,768.29	0.00	9,913.43	12,405.24	15,417.59	19,271.99
Base course drainage layers, aggregate base course for roadways and large paved areas, CDOT class 6, compacted, 3/4", to 6" deep	SY	16,993.6508	4,656.71	8,070.15	0.00	0.00	12,726.86	15,925.83	19,793.09	24,741.36
(Note: No material cost since we are reusing milled material from existing pavement.)										

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Asphalt surface treatment, tack coat, emulsion, 0.15 gallons per S.Y., 10,000 S.Y.	SY	16,993.6508	879.39	902.02	18,715.79	0.00	20,497.20	25,649.30	31,877.69	39,847.12
Plant-mix asphalt paving, for highways and large paved areas, binder course, alternate method for developing paving costs, 3" thick	TON	2,676.5000	9,011.61	4,581.78	159,900.80	0.00	173,494.20	217,103.08	269,822.02	337,277.53
Plant-mix asphalt paving, for highways and large paved areas, wearing course, alternate method for developing paving costs, 3" thick	TON	2,676.5000	10,056.69	5,120.18	162,681.68	0.00	177,858.55	222,564.44	276,609.56	345,761.95
Pavement Markings	LS	1.0000	1,343.30	552.85	2,649.45	0.00	4,545.60	5,688.17	7,069.42	8,836.78
Pavement markings, layout of pavement marking	LF	15,000.0000	375.48	159.20	0.00	0.00	534.68	669.07	831.54	1,039.43
Painted pavement markings, acrylic waterborne, white or yellow, 4" wide	LF	15,000.0000	967.82	393.65	2,649.45	0.00	4,010.92	5,019.10	6,237.88	7,797.35
Miscellaneous	LS	1.0000	2,327.05	0.00	0.00	0.00	2,327.05	2,327.05	2,892.13	3,615.16
Precast concrete parking bumpers, wheel stops, precast concrete, 8" x 13" x 6" - 0", 2 dowels per each	EA	200.0000	2,327.05	0.00	0.00	0.00	2,327.05	2,327.05	2,892.13	3,615.16
(Note: No material cost as this is for relocating existing wheel stops. Decrease productivity by 20% to account for removal and storage.)										
Trails	LS	1.0000	43,873.39	364.69	41,953.31	0.00	86,191.40	107,856.16	134,046.77	167,558.46
Concrete Trail	SF	28,320.0000	43,873.39	364.69	41,953.31	0.00	86,191.40	107,856.16	134,046.77	167,558.46
Compaction, 4 passes, 24" wide, 6" lifts, walk behind, vibrating roller	ECY	524.4444	1,052.77	217.25	0.00	0.00	1,270.01	1,589.24	1,975.15	2,468.94
(Note: Assume 6" compacted subgrade.)										
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	524.4444	143.75	147.44	626.63	0.00	917.82	1,148.52	1,427.42	1,784.27

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Sidewalks, driveways, and patios, sidewalk, concrete, cast-in-place, broomed finish, 3000 psi, 4" thick, excludes base and welded wire mesh	SF	28,320.0000	41,374.99	0.00	39,723.05	0.00	81,098.03	101,482.54	126,125.46	157,656.82
Concrete surface treatment, curing, sprayed membrane compound	CSF	283.2000	1,301.89	0.00	1,603.63	0.00	2,905.53	3,635.85	4,518.74	5,648.43
Architecture	LS	1.0000	58,536.07	6,624.58	22,904.29	275,000.00	363,064.95	363,064.95	451,227.68	564,034.60
Relocate ADA fishing pier	EA	1.0000	2,269.50	400.00	0.00	0.00	2,669.50	2,669.50	3,317.74	4,147.17
Relocate portable restroom	EA	1.0000	378.25	66.67	0.00	0.00	444.92	444.92	552.96	691.20
New restroom building	SF	1,100.0000	0.00	0.00	0.00	275,000.00	275,000.00	275,000.00	341,778.00	427,222.51
(Note: 4 fixtures total.)										
Group Picnic Area 1	LS	1.0000	55,888.32	6,157.92	22,904.29	0.00	84,950.53	84,950.53	105,578.99	131,973.73
Concrete block, foundation wall, trowel cut joints, normal weight, solid, 2000 psi, 8" x 8" x 16", includes mortar and horizontal joint reinforcing every other course, excludes scaffolding, grout and vertical reinforcing	SF	2,940.0000	9,601.61	0.00	10,844.04	0.00	20,445.66	20,445.66	25,410.46	31,763.07
Relocate day use shelter	EA	6.0000	34,042.55	6,000.00	0.00	0.00	40,042.55	40,042.55	49,766.05	62,207.56
Concrete plaza	SF	6,088.0000	11,186.07	47.92	11,540.75	0.00	22,774.74	22,774.74	28,305.11	35,381.38
Relocate picnic tables	EA	10.0000	567.38	100.00	0.00	0.00	667.38	667.38	829.43	1,036.79
Miscellaneous electrical labor and materials	LS	1.0000	433.97	0.00	519.50	0.00	953.47	953.47	1,185.00	1,481.24
Relocate grills	EA	1.0000	56.74	10.00	0.00	0.00	66.74	66.74	82.94	103.68
Furnishings	LS	1.0000	2,236.08	369.71	0.00	0.00	2,605.79	2,605.79	3,238.55	4,048.19
Relocate benches	EA	1.0000	113.48	20.00	0.00	0.00	133.48	133.48	165.89	207.36
Relocate dumpsters	EA	2.0000	907.80	160.00	0.00	0.00	1,067.80	1,067.80	1,327.09	1,658.87
Relocate trash receptacles	EA	1.0000	32.42	5.71	0.00	0.00	38.14	38.14	47.40	59.25
Signs, stock, reflectorized, UTMCD standard, guide & directional sign, 12" x 18", with posts	EA	10.0000	138.41	0.00	0.00	0.00	138.41	138.41	172.02	215.02

(Note: Relocation of existing signs. No material costs.)

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Relocate timber fence	LF	138.0000	1,043.97	184.00	0.00	0.00	1,227.97	1,227.97	1,526.16	1,907.70
Recreational Facilities	LS	1.0000	11,347.52	2,000.00	467.55	0.00	13,815.07	13,815.07	17,169.77	21,462.21
Volleyball court, includes relocating court posts, includes sand	EA	1.0000	7,565.01	1,333.33	467.55	0.00	9,365.89	9,365.89	11,640.21	14,550.26
Horseshoe pit, includes relocating horse shoe boards	EA	2.0000	3,782.51	666.67	0.00	0.00	4,449.17	4,449.17	5,529.56	6,911.95
Utilities	LS	1.0000	10,079.12	3,181.49	10,869.01	0.00	24,129.63	30,632.37	38,070.80	47,588.50
Storm Water System	LS	1.0000	10,079.12	3,181.49	10,869.01	0.00	24,129.63	30,632.37	38,070.80	47,588.50
Pipe	LF	500.0000	4,727.63	551.05	6,259.98	0.00	11,538.65	14,648.23	18,205.25	22,756.56
Public Storm Utility Drainage Piping, reinforced concrete pipe (RCP), 12" diameter, 6' lengths, class 3, excludes excavation or backfill, gaskets	LF	500.0000	4,727.63	551.05	6,259.98	0.00	11,538.65	14,648.23	18,205.25	22,756.56
Area Inlets	LS	1.0000	3,872.75	2,078.68	3,948.20	0.00	9,899.63	12,567.51	15,619.26	19,524.08
Storm Water Inlet	EA	1.0000	982.64	527.43	831.20	0.00	2,341.27	2,972.22	3,693.96	4,617.45
Storm Water Oil Separator Inlet	EA	1.0000	2,890.11	1,551.26	3,117.00	0.00	7,558.37	9,595.29	11,925.30	14,906.63
Excavation and Backfill	LS	1.0000	1,478.74	551.77	660.83	0.00	2,691.34	3,416.63	4,246.29	5,307.86
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering (Note: Assume 3' x 5' trench.)	BCY	277.7778	740.28	284.95	0.00	0.00	1,025.23	1,301.52	1,617.56	2,021.96
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	27.7778	30.95	22.17	630.18	0.00	683.30	867.44	1,078.08	1,347.61
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	250.0000	264.60	189.56	0.00	0.00	454.16	576.55	716.55	895.69
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	277.7778	435.08	55.09	0.00	0.00	490.17	622.27	773.37	966.72

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	5.0000	7.83	0.00	30.65	0.00	38.48	48.85	60.72	75.89
Electrical and Telecommunications	LS	1.0000	2,683.28	230.39	2,139.09	0.00	5,052.77	6,414.45	7,972.06	9,965.08
Conduit and Wiring	LF	250.0000	844.27	0.00	590.20	0.00	1,434.48	1,821.06	2,263.26	2,829.08
Electrical Underground Ducts and Manholes, PVC, with coupling, 1-1/2" diameter, schedule 40, installed by direct burial in slab or duct bank	LF	250.0000	484.09	0.00	457.16	0.00	941.25	1,194.91	1,485.07	1,856.34
Electrical Underground Ducts and Manholes, nylon polyethylene pull rope, 1/4"	LF	250.0000	101.66	0.00	46.76	0.00	148.41	188.41	234.16	292.70
Telephone cable, #24 AWG, 25 pair, in conduit	MLF	0.1375	258.52	0.00	86.29	0.00	344.81	437.73	544.02	680.03
Electrical Devices	LS	1.0000	406.64	0.00	1,533.56	0.00	1,940.20	2,463.07	3,061.18	3,826.47
Cabinets & enclosures, enclosures fiberglass, small, screw cover with window, 6"H x 4"W x 5"D, NEMA 4X	EA	12.0000	406.64	0.00	1,533.56	0.00	1,940.20	2,463.07	3,061.18	3,826.47
(Note: Assume 2 enclosures per canopy.)										
Area Lighting	LS	1.0000	1,250.92	165.44	0.00	0.00	1,416.36	1,798.06	2,234.68	2,793.34
Electrical Utility Poles, poles, wood, preservative treatment, 35' high, excludes excavation, backfill and cast in place concrete, see also div. 16520	EA	3.0000	1,250.92	165.44	0.00	0.00	1,416.36	1,798.06	2,234.68	2,793.34
(Note: Relocate existing poles. No material costs.)										
Excavation and Backfill	LS	1.0000	181.45	64.95	15.33	0.00	261.73	332.26	412.95	516.18
Excavating, chain trencher, utility trench, common earth, 40 H.P., 12" wide, 36" deep, chain trencher, operator riding, includes backfill	LF	250.0000	105.89	38.38	0.00	0.00	144.27	183.15	227.63	284.53

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	27.7778	28.91	21.06	0.00	0.00	49.97	63.44	78.85	98.56
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	27.7778	42.80	5.51	0.00	0.00	48.31	61.32	76.22	95.27
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	2.5000	3.85	0.00	15.33	0.00	19.18	24.35	30.26	37.82
Landscaping	LS	1.0000	12,273.87	6,756.67	66,828.16	0.00	85,858.71	107,439.84	133,529.36	166,911.70
Seeding	SF	440,620.0000	3,290.37	2,122.43	30,463.16	0.00	35,875.97	44,893.62	55,795.10	69,743.87
Soil preparation, structural soil mixing, tilling topsoil, 6" deep, 20 HP tractor, disk harrow\	MSF	440.6200	514.75	269.78	0.00	0.00	784.52	981.72	1,220.11	1,525.14
Seeding, mechanical seeding, 215 lb/acre	ACR	10.1152	2,127.05	1,114.79	5,622.71	0.00	8,864.55	11,092.71	13,786.34	17,232.93
Soil preparation, mulching, hay, 1" deep, power mulcher, large	MSF	440.6200	344.38	450.42	23,805.82	0.00	24,600.61	30,784.13	38,259.42	47,824.27
Fertilizing, hydro spread, 1.5 lb./MSF	MSF	440.6200	304.20	287.44	1,034.64	0.00	1,626.28	2,035.06	2,529.23	3,161.53
Plantings	LS	1.0000	8,983.50	4,634.24	36,365.00	0.00	49,982.74	62,546.22	77,734.27	97,167.83
General planting, local varieties, trees, 5' - 6'	EA	150.0000	7,255.91	3,743.04	32,728.50	0.00	43,727.44	54,718.62	68,005.89	85,007.36
General planting, local varieties, shrubs, 2' - 3'	EA	100.0000	1,727.60	891.20	3,636.50	0.00	6,255.30	7,827.60	9,728.38	12,160.47
Irrigation	LS	1.0000	8,721.64	0.00	8,441.88	0.00	17,163.52	21,477.67	26,693.08	33,366.35
Irrigation system point-of-connection	EA	1.0000	563.85	0.00	1,246.80	0.00	1,810.65	2,265.77	2,815.96	3,519.95
Underground sprinklers irrigation system, for lawns, residential system, custom, 1" supply	SF	15,000.0000	5,932.07	0.00	4,519.65	0.00	10,451.72	13,078.83	16,254.75	20,318.43

(Note: Quantity assumed.)

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Underground sprinklers irrigation system, for lawns, pop-up bubbler head w/risers, hi-pop head, 6", includes mechanical joints, excludes piping, excavation and backfill	EA	250.0000	2,225.72	0.00	2,675.43	0.00	4,901.15	6,133.08	7,622.37	9,527.96
SOUTH RAMP INCLUDING RIVERSIDE MARINA	LS	1.0000	949,184.56	1,577,555.59	1,015,925.95	717,860.75	4,260,526.85	4,985,512.83	6,196,140.45	7,745,175.56
Demolition	LS	1.0000	46,094.84	57,947.57	0.00	7,860.75	111,903.16	111,903.16	139,076.51	173,845.63
Clearing and Grubbing	ACR	15.0000	15,082.40	20,375.44	0.00	0.00	35,457.83	35,457.83	44,068.02	55,085.03
Selective clearing, dry clearing, heavy size brush, average grub and trees, excludes removal offsite	ACR	15.0000	11,770.34	19,090.56	0.00	0.00	30,860.90	30,860.90	38,354.82	47,943.53
Selective clearing, load spoils, chute load, includes 2 mile haul to dump	CY	180.0000	3,312.05	1,284.88	0.00	0.00	4,596.93	4,596.93	5,713.20	7,141.50
Removals	LS	1.0000	31,012.44	37,572.14	0.00	7,860.75	76,445.33	76,445.33	95,008.48	118,760.60
Cold milling asphalt paving, 1" to 3" asphalt pavement, 5,000 to 10,000 S.Y., cold planing & cleaning	SY	37,470.0000	17,294.09	26,255.83	0.00	0.00	43,549.93	43,549.93	54,125.12	67,656.40
(Note: Assume 6" depth existing pavement. Milled material to be stockpiled and reused as base course for new roads/parking. No disposal costs.)										
Remove traffic posts to 12'-0" high	EA	40.0000	303.33	66.13	0.00	0.00	369.45	369.45	459.17	573.96
Demo existing buildings	EA	2.0000	6,284.08	3,152.40	0.00	4,460.00	13,896.48	13,896.48	17,270.95	21,588.68
Demo existing shade structure	EA	3.0000	1,639.32	822.37	0.00	3,345.00	5,806.69	5,806.69	7,216.72	9,020.90
(Note: Assume area of structure is 160 SF. Assume 12' height. Assume 12 CY of material to dispose of at landfill. Assume 1.5 TN/CY.)										
Remove information kiosk	EA	1.0000	283.69	50.00	0.00	0.00	333.69	333.69	414.72	518.40
Selective demolition, utility poles & cross arms, utility poles, wood, 35'-45' high	EA	1.0000	205.63	26.47	0.00	0.00	232.10	232.10	288.47	360.58
Remove horse shoe boards	EA	4.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Remove volleyball court posts	EA	2.0000	226.95	40.00	0.00	0.00	266.95	266.95	331.77	414.72

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Borrow, clay, till, or blasted rock, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted (Note: Load demo material (5 CY utility poles).)	BCY	5.0000	2.59	1.45	0.00	0.00	4.04	4.04	5.02	6.27
Hauling, excavated or borrow material, loose cubic yards, 10 mile round trip, 0.6 load/hour, 16.5 C.Y. dump trailer, highway haulers, excludes loading (Note: Haul demo material, not including structures (5 CY utility poles).)	LCY	5.0000	13.07	23.00	0.00	0.00	36.08	36.08	44.84	56.04
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip @ 20 MPH (4.2 cycles/hour), 12 C.Y. truck, highway haulers, excludes loading (Note: Haul millings to stockpile area. Assuming crushed asphalt is 45 LB/CF and in place asphalt is 140 LB/CF, swell factor is about 211%.)	LCY	6,588.4750	4,305.78	7,054.49	0.00	0.00	11,360.27	11,360.27	14,118.88	17,648.60
Selective demoliton, dump charges, typical urban city, building construction materials, includes tipping fees only (Note: Rate for construction debris and concrete deposited at the Denver Arapahoe Landfill, 720.876.2620.)	CY	5.0000	0.00	0.00	0.00	55.75	55.75	55.75	69.29	86.61
Earthwork	LS	1.0000	651,040.45	1,426,992.82	0.00	0.00	2,078,033.28	2,600,360.24	3,231,803.39	4,039,754.24
Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul	CY	8,128.0000	4,018.03	8,481.77	0.00	0.00	12,499.79	15,641.70	19,439.95	24,299.94
Borrow, topsoil or loam, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	8,128.0000	3,583.08	2,001.09	0.00	0.00	5,584.18	6,987.79	8,684.63	10,855.79
Excavate and load, bank measure, medium material, 3-1/2 C.Y. bucket, hydraulic excavator	BCY	287,636.0000	141,216.03	278,095.45	0.00	0.00	419,311.48	524,708.11	652,122.51	815,153.13

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	287,636.0000	108,384.54	335,963.94	0.00	0.00	444,348.48	556,038.32	691,060.61	863,825.76
Fill, dumped material, spread, by dozer, excludes compaction	LCY	287,636.0000	122,995.24	259,634.27	0.00	0.00	382,629.51	478,805.88	595,073.89	743,842.36
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	224,372.0000	84,545.94	262,070.47	0.00	0.00	346,616.41	433,740.66	539,065.52	673,831.90
Fine grading, slopes, gentle, gentle, finish grading	SY	55,556.0000	3,360.41	2,220.19	0.00	0.00	5,580.59	6,983.31	8,679.06	10,848.83
Rock removal allowance	HR	80.0000	6,382.40	15,783.88	0.00	0.00	22,166.28	27,737.92	34,473.49	43,091.87
Marina excavation allowance	LS	1.0000	176,554.79	262,741.76	0.00	0.00	439,296.55	549,716.55	683,203.73	854,004.66
(Note: Cost is based on information provided in the Appendix 1 Cost Estimate Details provided by EDAAW.)										
Roads and Parking	LS	1.0000	36,537.92	27,870.96	429,328.47	0.00	493,737.35	617,478.74	767,420.55	959,275.69
Asphalt Pavement	TON	6,562.0000	33,751.85	27,318.11	426,679.02	0.00	487,748.97	610,347.80	758,558.01	948,197.51
(Note: Assume 3" wearing course, 3" binder course, and 6" recycled base course. Assuming 140 LB/CF for density of asphalt equates to about .315 TN/SY @ 6" depth.)										
Compaction, 3 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	ECY	6,943.9153	1,687.16	2,474.11	0.00	0.00	4,161.27	5,207.24	6,471.71	8,089.63
(Note: Assume 12" compacted subgrade.)										
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	6,943.9153	1,903.26	1,952.23	8,296.94	0.00	12,152.43	15,207.02	18,899.72	23,624.65
Base course drainage layers, aggregate base course for roadways and large paved areas, CDOT class 6, compacted, 3/4", to 6" deep	SY	20,831.7460	5,708.45	9,892.83	0.00	0.00	15,601.28	19,522.76	24,263.45	30,329.31
(Note: No material cost since we are reusing milled material from existing pavement.)										
Asphalt surface treatment, tack coat, emulsion, 0.15 gallons per S.Y., 10,000 S.Y.	SY	20,831.7460	1,078.01	1,105.74	22,942.84	0.00	25,126.58	31,442.31	39,077.42	48,846.78

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Plant-mix asphalt paving, for highways and large paved areas, binder course, alternate method for developing paving costs, 3" thick	TON	3,281.0000	11,046.93	5,616.60	196,015.14	0.00	212,678.67	266,136.82	330,762.58	413,453.23
Plant-mix asphalt paving, for highways and large paved areas, wearing course, alternate method for developing paving costs, 3" thick	TON	3,281.0000	12,328.04	6,276.59	199,424.10	0.00	218,028.74	272,831.66	339,083.12	423,853.90
Pavement Markings	LS	1.0000	1,343.30	552.85	2,649.45	0.00	4,545.60	5,688.17	7,069.42	8,836.78
Pavement markings, layout of pavement marking	LF	15,000.0000	375.48	159.20	0.00	0.00	534.68	669.07	831.54	1,039.43
Painted pavement markings, acrylic waterborne, white or yellow, 4" wide	LF	15,000.0000	967.82	393.65	2,649.45	0.00	4,010.92	5,019.10	6,237.88	7,797.35
Miscellaneous	LS	1.0000	1,442.77	0.00	0.00	0.00	1,442.77	1,442.77	1,793.12	2,241.40
Precast concrete parking bumpers, wheel stops, precast concrete, 8" x 13" x 6" - 0", 2 dowels per each	EA	124.0000	1,442.77	0.00	0.00	0.00	1,442.77	1,442.77	1,793.12	2,241.40
(Note: No material cost as this is for relocating existing wheel stops. Decrease productivity by 20% to account for removal and storage.)										
Boat Ramps and Marina	LS	1.0000	41,199.99	37,770.10	411,732.15	310,000.00	800,702.24	809,193.45	1,005,689.17	1,257,111.46
Concrete Boat Ramp	SF	5,000.0000	10,038.02	1,636.38	22,107.15	0.00	33,781.54	42,272.75	52,537.80	65,672.25
Base course drainage layers, aggregate base course for roadways and large paved areas, crushed stone base, compacted, crushed 1-1/2" stone base, to 6" deep	SY	555.5556	218.03	275.49	3,982.83	0.00	4,476.35	5,601.51	6,961.72	8,702.15
C.I.P. concrete forms, slab on grade, edge, wood, 7" to 12" high, 4 use, includes erecting, bracing, stripping and cleaning	SFC	276.6667	774.90	0.00	172.47	0.00	947.37	1,185.50	1,473.38	1,841.72
(Note: Quantity based on area of slab from previous estimate (ci12428).)										

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	TON	2.3500	1,372.26	0.00	2,173.07	0.00	3,545.32	4,436.46	5,513.77	6,892.21
(Note: Quantity based on area of slab from previous estimate (ci12428). Assume #4 @ 18" each way in top of slab.)										
Structural concrete, ready mix, normal weight, 4000 PSI, includes local aggregate, sand, portland cement and water, delivered, excludes all additives and treatments	CY	135.8025	0.00	0.00	14,109.88	0.00	14,109.88	17,656.48	21,943.99	27,429.99
(Note: Quantity based on area of slab from previous estimate (ci12428).)										
Structural concrete, placing, slab on grade, direct chute, over 6" thick, includes vibrating, excludes material	CY	135.8025	1,173.86	39.77	0.00	0.00	1,213.63	1,518.69	1,887.47	2,359.34
(Note: Quantity based on area of slab from previous estimate (ci12428).)										
Concrete finishing, floors, monolithic, screed finish	SF	5,000.0000	1,804.95	0.00	0.00	0.00	1,804.95	2,258.64	2,807.10	3,508.88
Curing, burlap, 12 oz., 4 uses assumed	CSF	50.0000	397.02	0.00	831.20	0.00	1,228.22	1,536.94	1,910.16	2,387.70
Control joint, concrete floor slab, sawcut in green concrete, 1-1/2" depth	LF	625.0000	225.62	43.68	58.44	0.00	327.74	410.13	509.72	637.15
(Note: Quantity based on area of slab from previous estimate (ci12428).)										
Sawcut and seal joint, 1/2" x 3/4"	LF	625.0000	1,082.97	119.20	779.25	0.00	1,981.42	2,479.47	3,081.55	3,851.94
(Note: Quantity based on area of slab from previous estimate (ci12428).)										
Dewatering allowance	LS	1.0000	2,988.41	1,158.23	0.00	0.00	4,146.64	5,188.92	6,448.95	8,061.18
Riprap	SY	10,000.0000	31,161.97	36,133.73	389,625.00	0.00	456,920.70	456,920.70	567,874.34	709,842.93
(Note: Assume 30" thick layer @ 1.5 TN/CY.)										
Place riprap	TON	12,500.0000	31,161.97	36,133.73	0.00	0.00	67,295.70	67,295.70	83,637.05	104,546.32
Riprap, material only	TON	12,500.0000	0.00	0.00	389,625.00	0.00	389,625.00	389,625.00	484,237.29	605,296.61
Miscellaneous	LS	1.0000	0.00	0.00	0.00	310,000.00	310,000.00	310,000.00	385,277.02	481,596.28
Upgrade marina cables and winches	LS	1.0000	0.00	0.00	0.00	310,000.00	310,000.00	310,000.00	385,277.02	481,596.28

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
(Note: Pricing provided by Aramark in EDAW estimate (\$278,000 for anchoring and \$32,000 for breakwater winches).)										
Trails	LS	1.0000	24,787.23	206.04	23,702.44	0.00	48,695.70	60,935.68	75,732.64	94,665.80
Concrete Trail	SF	16,000.0000	24,787.23	206.04	23,702.44	0.00	48,695.70	60,935.68	75,732.64	94,665.80
Compaction, 4 passes, 24" wide, 6" lifts, walk behind, vibrating roller	ECY	296.2963	594.78	122.74	0.00	0.00	717.52	897.87	1,115.90	1,394.88
(Note: Assume 6" compacted subgrade.)										
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	296.2963	81.21	83.30	354.03	0.00	518.54	648.88	806.45	1,008.06
Sidewalks, driveways, and patios, sidewalk, concrete, cast-in-place, broomed finish, 3000 psi, 4" thick, excludes base and welded wire mesh	SF	16,000.0000	23,375.70	0.00	22,442.40	0.00	45,818.10	57,334.77	71,257.32	89,071.65
Concrete surface treatment, curing, sprayed membrane compound	CSF	160.0000	735.53	0.00	906.01	0.00	1,641.54	2,054.15	2,552.96	3,191.20
Architecture	LS	1.0000	56,342.22	6,237.92	22,904.29	400,000.00	485,484.43	485,484.43	603,374.18	754,217.72
New shower/restroom building	SF	1,600.0000	0.00	0.00	0.00	400,000.00	400,000.00	400,000.00	497,131.64	621,414.55
Relocate information kiosk	EA	1.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Group Picnic Area 1	LS	1.0000	55,888.32	6,157.92	22,904.29	0.00	84,950.53	84,950.53	105,578.99	131,973.73
Concrete block, foundation wall, trowel cut joints, normal weight, solid, 2000 psi, 8" x 8" x 16", includes mortar and horizontal joint reinforcing every other course, excludes scaffolding, grout and vertical reinforcing	SF	2,940.0000	9,601.61	0.00	10,844.04	0.00	20,445.66	20,445.66	25,410.46	31,763.07
Relocate day use shelter	EA	6.0000	34,042.55	6,000.00	0.00	0.00	40,042.55	40,042.55	49,766.05	62,207.56
Concrete plaza	SF	6,088.0000	11,186.07	47.92	11,540.75	0.00	22,774.74	22,774.74	28,305.11	35,381.38
Relocate picnic tables	EA	10.0000	567.38	100.00	0.00	0.00	667.38	667.38	829.43	1,036.79
Miscellaneous electrical labor and materials	LS	1.0000	433.97	0.00	519.50	0.00	953.47	953.47	1,185.00	1,481.24
Relocate grills	EA	1.0000	56.74	10.00	0.00	0.00	66.74	66.74	82.94	103.68
Furnishings	LS	1.0000	3,444.91	515.92	2,389.70	0.00	6,350.53	6,350.53	7,892.62	9,865.77
Relocate picnic tables	EA	3.0000	170.21	30.00	0.00	0.00	200.21	200.21	248.83	311.04

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Relocate benches	EA	4.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Relocate dumpsters	EA	4.0000	1,815.60	320.00	0.00	0.00	2,135.60	2,135.60	2,654.19	3,317.74
Relocate trash receptacles	EA	4.0000	129.69	22.86	0.00	0.00	152.54	152.54	189.58	236.98
Signs, stock, reflectorized, UTMCD standard, guide & directional sign, 12" x 18", with posts	EA	40.0000	553.63	0.00	0.00	0.00	553.63	553.63	688.06	860.08
(Note: Relocation of existing signs. No material costs.)										
Metal parking bumpers, pipe bollards, conc filled/painted, 8' L x 4' D hole, 6" diam.	EA	4.0000	151.66	33.06	2,389.70	0.00	2,574.43	2,574.43	3,199.57	3,999.47
Relocate grills	EA	3.0000	170.21	30.00	0.00	0.00	200.21	200.21	248.83	311.04
Recreational Facilities	LS	1.0000	11,347.52	2,000.00	467.55	0.00	13,815.07	13,815.07	17,169.77	21,462.21
Volleyball court, includes relocating court posts, includes sand	EA	1.0000	7,565.01	1,333.33	467.55	0.00	9,365.89	9,365.89	11,640.21	14,550.26
Horseshoe pit, includes relocating horse shoe boards	EA	2.0000	3,782.51	666.67	0.00	0.00	4,449.17	4,449.17	5,529.56	6,911.95
Utilities	LS	1.0000	43,918.40	11,754.88	45,537.18	0.00	101,210.46	128,485.87	159,685.98	199,607.48
Water Distribution	LS	1.0000	3,718.01	1,103.53	4,677.64	0.00	9,499.18	12,059.13	14,987.43	18,734.29
Pipe and Fittings	LF	1,000.0000	583.27	0.00	238.97	0.00	822.24	1,043.82	1,297.29	1,621.62
Public Water Utility Distribution Piping, polyvinyl chloride pressure pipe, 1", class 200, SDR 21, excludes excavation or backfill	LF	1,000.0000	583.27	0.00	238.97	0.00	822.24	1,043.82	1,297.29	1,621.62
(Note: Assume that fittings/couplings are included in the unit cost.)										
Valves and Hydrants	LS	1.0000	177.26	0.00	3,117.00	0.00	3,294.26	4,182.04	5,197.56	6,496.95
Hydrant, ground post type, all non-freeze, all bronze, aluminum casing guard, exposed head, 3/4" I.P.S. connection, 5 feet depth of bury	EA	3.0000	177.26	0.00	3,117.00	0.00	3,294.26	4,182.04	5,197.56	6,496.95
Excavation and Backfill	LS	1.0000	2,957.48	1,103.53	1,321.67	0.00	5,382.68	6,833.26	8,492.58	10,615.72

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering (Note: Assume 3' x 5' trench.)	BCY	555.5556	1,480.55	569.90	0.00	0.00	2,050.46	2,603.04	3,235.13	4,043.91
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	55.5556	61.89	44.34	1,260.36	0.00	1,366.60	1,734.89	2,156.17	2,695.21
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	500.0000	529.20	379.12	0.00	0.00	908.31	1,153.10	1,433.10	1,791.38
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	555.5556	870.17	110.17	0.00	0.00	980.34	1,244.54	1,546.74	1,933.43
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	10.0000	15.66	0.00	61.30	0.00	76.96	97.71	121.43	151.79
Sanitary Sewer System	LS	1.0000	20,042.14	4,288.36	19,121.53	0.00	43,452.03	55,162.01	68,556.95	85,696.19
Pipe and Fittings	LF	3,300.0000	6,890.26	0.00	6,651.68	0.00	13,541.94	17,191.38	21,365.95	26,707.44
Public Sanitary Utility Sewerage Piping, piping polyvinyl chloride pipe, B & S, 20' lengths, 4" diameter, SDR 35, excludes excavation or backfill (Note: Assume that fittings/couplings are included in the unit cost.)	LF	3,300.0000	6,890.26	0.00	6,651.68	0.00	13,541.94	17,191.38	21,365.95	26,707.44
Manholes	EA	4.0000	3,392.20	646.71	8,108.36	0.00	12,147.27	15,420.86	19,165.49	23,956.86
Storm Drainage Manholes, Frames, and Covers, concrete, precast, 4' I.D., 8' deep, excludes base, excavation, backfill, frame and cover	EA	4.0000	2,047.49	397.05	4,363.80	0.00	6,808.34	8,643.13	10,741.93	13,427.42
Storm Drainage Manholes, Frames, and Covers, precast concrete, 4' diameter manhole, 8" thick top	EA	4.0000	375.42	82.66	1,018.22	0.00	1,476.30	1,874.15	2,329.25	2,911.56

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Storm Drainage Manholes, Frames, and Covers, standard sizes, aluminum	EA	28.0000	210.79	0.00	669.12	0.00	879.91	1,117.04	1,388.28	1,735.36
Manhole frame and cover, cast iron, city type, 24" diameter x 375 lb.	EA	4.0000	383.08	84.34	1,039.00	0.00	1,506.43	1,912.40	2,376.78	2,970.98
Storm Drainage Manholes, Frames, and Covers, precast concrete, 4' diameter manhole, 8" thick top	EA	4.0000	375.42	82.66	1,018.22	0.00	1,476.30	1,874.15	2,329.25	2,911.56
(Note: Manhole base.)										
Excavation and Backfill	LS	1.0000	9,759.68	3,641.66	4,361.50	0.00	17,762.83	22,549.77	28,025.51	35,031.89
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	1,833.3333	4,885.82	1,880.68	0.00	0.00	6,766.50	8,590.02	10,675.93	13,344.91
(Note: Assume 3' x 5' trench.)										
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	183.3333	204.25	146.33	4,159.20	0.00	4,509.78	5,725.13	7,115.36	8,894.20
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	1,650.0000	1,746.35	1,251.09	0.00	0.00	2,997.44	3,805.22	4,729.24	5,911.55
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	1,833.3333	2,871.56	363.57	0.00	0.00	3,235.13	4,106.97	5,104.26	6,380.32
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	33.0000	51.69	0.00	202.29	0.00	253.98	322.43	400.72	500.90
Storm Water System	LS	1.0000	20,158.25	6,362.99	21,738.02	0.00	48,259.25	61,264.73	76,141.60	95,176.99
Pipe	LF	1,000.0000	9,455.27	1,102.09	12,519.95	0.00	23,077.31	29,296.46	36,410.49	45,513.12
Public Storm Utility Drainage Piping, reinforced concrete pipe (RCP), 12" diameter, 6' lengths, class 3, excludes excavation or backfill, gaskets	LF	1,000.0000	9,455.27	1,102.09	12,519.95	0.00	23,077.31	29,296.46	36,410.49	45,513.12

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Area Inlets	LS	1.0000	7,745.50	4,157.37	7,896.40	0.00	19,799.27	25,135.01	31,238.52	39,048.16
Storm Water Inlet	EA	2.0000	1,965.28	1,054.85	1,662.40	0.00	4,682.53	5,944.44	7,387.92	9,234.90
Storm Water Oil Separator Inlet	EA	2.0000	5,780.23	3,102.51	6,234.00	0.00	15,116.74	19,190.58	23,850.61	29,813.26
Excavation and Backfill	LS	1.0000	2,957.48	1,103.53	1,321.67	0.00	5,382.68	6,833.26	8,492.58	10,615.72
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	555.5556	1,480.55	569.90	0.00	0.00	2,050.46	2,603.04	3,235.13	4,043.91
(Note: Assume 3' x 5' trench.)										
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	55.5556	61.89	44.34	1,260.36	0.00	1,366.60	1,734.89	2,156.17	2,695.21
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	500.0000	529.20	379.12	0.00	0.00	908.31	1,153.10	1,433.10	1,791.38
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	555.5556	870.17	110.17	0.00	0.00	980.34	1,244.54	1,546.74	1,933.43
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	10.0000	15.66	0.00	61.30	0.00	76.96	97.71	121.43	151.79
Electrical and Telecommunications	LS	1.0000	15,570.59	798.55	16,648.27	0.00	33,017.41	41,915.34	52,093.61	65,117.01
Conduit and Wiring	LF	1,800.0000	10,104.48	0.00	7,211.87	0.00	17,316.35	21,982.96	27,321.06	34,151.33
Electrical Underground Ducts and Manholes, PVC, with coupling, 1-1/2" diameter, schedule 40, installed by direct burial in slab or duct bank	LF	1,800.0000	3,485.47	0.00	3,291.55	0.00	6,777.03	8,603.38	10,692.53	13,365.67
Electrical Underground Ducts and Manholes, nylon polyethylene pull rope, 1/4"	LF	1,800.0000	731.95	0.00	336.64	0.00	1,068.59	1,356.56	1,685.97	2,107.47

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Wire, copper, stranded, 600 volt, #8, type THWN-THHN, in raceway	CLF	79.2000	4,025.72	0.00	2,962.40	0.00	6,988.12	8,871.36	11,025.59	13,781.98
Telephone cable, #24 AWG, 25 pair, in conduit	MLF	0.9900	1,861.33	0.00	621.28	0.00	2,482.61	3,151.66	3,916.97	4,896.21
Handholes	EA	5.0000	2,084.87	275.73	2,181.90	0.00	4,542.50	5,766.66	7,166.98	8,958.72
Electrical Underground Ducts and Manholes, hand holes, precast concrete, with concrete cover, 2' x 2' x 3' deep, excludes excavation, backfill and cast in place concrete (Note: Quantity assumed.)	EA	5.0000	2,084.87	275.73	2,181.90	0.00	4,542.50	5,766.66	7,166.98	8,958.72
Transformers	LS	1.0000	1,251.20	0.00	5,610.60	0.00	6,861.80	8,711.00	10,826.28	13,532.85
Transformer, dry-type, single phase 240/480 V primary 120/240 V secondary, 75 kVA	EA	1.0000	1,251.20	0.00	5,610.60	0.00	6,861.80	8,711.00	10,826.28	13,532.85
Electrical Devices	LS	1.0000	406.64	0.00	1,533.56	0.00	1,940.20	2,463.07	3,061.18	3,826.47
Cabinets & enclosures, enclosures fiberglass, small, screw cover with window, 6"H x 4"W x 5"D, NEMA 4X (Note: Assume 2 enclosures per canopy.)	EA	12.0000	406.64	0.00	1,533.56	0.00	1,940.20	2,463.07	3,061.18	3,826.47
Area Lighting	LS	1.0000	416.97	55.15	0.00	0.00	472.12	599.35	744.89	931.11
Electrical Utility Poles, poles, wood, preservative treatment, 35' high, excludes excavation, backfill and cast in place concrete, see also div. 16520 (Note: Relocate existing poles. No material costs.)	EA	1.0000	416.97	55.15	0.00	0.00	472.12	599.35	744.89	931.11
Excavation and Backfill	LS	1.0000	1,306.44	467.67	110.34	0.00	1,884.45	2,392.30	2,973.22	3,716.52
Excavating, chain trencher, utility trench, common earth, 40 H.P., 12" wide, 36" deep, chain trencher, operator riding, includes backfill	LF	1,800.0000	762.40	276.36	0.00	0.00	1,038.76	1,318.70	1,638.92	2,048.65

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	200.0000	208.17	151.65	0.00	0.00	359.81	456.78	567.70	709.63
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	200.0000	308.14	39.66	0.00	0.00	347.80	441.53	548.75	685.94
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	18.0000	27.73	0.00	110.34	0.00	138.07	175.28	217.85	272.31
Landscaping	LS	1.0000	9,780.56	5,460.82	55,227.29	0.00	70,468.68	88,181.43	109,594.45	136,993.06
Seeding	SF	430,620.0000	3,215.69	2,074.27	29,771.79	0.00	35,061.75	43,874.75	54,528.81	68,161.01
Soil preparation, structural soil mixing, tilling topsoil, 6" deep, 20 HP tractor, disk harrow\	MSF	430.6200	503.06	263.66	0.00	0.00	766.72	959.44	1,192.42	1,490.52
Seeding, mechanical seeding, 215 lb/acre	ACR	9.8857	2,078.77	1,089.49	5,495.10	0.00	8,663.36	10,840.96	13,473.46	16,841.82
Soil preparation, mulching, hay, 1" deep, power mulcher, large	MSF	430.6200	336.56	440.20	23,265.54	0.00	24,042.30	30,085.48	37,391.11	46,738.89
Fertilizing, hydro spread, 1.5 lb./MSF	MSF	430.6200	297.29	280.92	1,011.16	0.00	1,589.37	1,988.87	2,471.82	3,089.78
Plantings	LS	1.0000	6,564.87	3,386.56	25,455.50	0.00	35,406.93	44,306.68	55,065.64	68,832.04
General planting, local varieties, trees, 5' - 6'	EA	100.0000	4,837.27	2,495.36	21,819.00	0.00	29,151.63	36,479.08	45,337.26	56,671.57
General planting, local varieties, shrubs, 2' - 3'	EA	100.0000	1,727.60	891.20	3,636.50	0.00	6,255.30	7,827.60	9,728.38	12,160.47
Irrigation	LS	1.0000	9,119.94	0.00	7,988.61	0.00	17,108.55	21,408.89	26,607.60	33,259.50
Irrigation system point-of-connection	EA	1.0000	563.85	0.00	1,246.80	0.00	1,810.65	2,265.77	2,815.96	3,519.95
Underground sprinklers irrigation system, for lawns, residential system, custom, 1" supply	SF	12,000.0000	4,745.66	0.00	3,615.72	0.00	8,361.38	10,463.06	13,003.80	16,254.75

(Note: Quantity assumed.)

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Underground sprinklers irrigation system, for lawns, impact rotor pop-up full/part commercial circle sprinklers, spaced 48' - 76' @ 45-85 Psl, excludes piping, excavation and backfill	EA	75.0000	2,029.86	0.00	985.75	0.00	3,015.61	3,773.60	4,689.94	5,862.43
Underground sprinklers irrigation system, for lawns, pop-up bubbler head w/risers, hi-pop head, 6", includes mechanical joints, excludes piping, excavation and backfill	EA	200.0000	1,780.58	0.00	2,140.34	0.00	3,920.92	4,906.46	6,097.90	7,622.37
ROXBOROUGH COVE	LS	1.0000	19,939.19	19,518.64	136,064.36	32,922.50	208,444.70	218,169.48	271,147.38	338,934.23
Demolition	LS	1.0000	8,328.71	9,280.33	0.00	1,672.50	19,281.53	19,281.53	23,963.65	29,954.57
Clearing and Grubbing	ACR	6.0000	6,032.96	8,150.17	0.00	0.00	14,183.13	14,183.13	17,627.21	22,034.01
Selective clearing, dry clearing, heavy size brush, average grub and trees, excludes removal offsite	ACR	6.0000	4,708.14	7,636.22	0.00	0.00	12,344.36	12,344.36	15,341.93	19,177.41
Selective clearing, load spoils, chute load, includes 2 mile haul to dump	CY	72.0000	1,324.82	513.95	0.00	0.00	1,838.77	1,838.77	2,285.28	2,856.60
Removals	LS	1.0000	2,295.75	1,130.15	0.00	1,672.50	5,098.40	5,098.40	6,336.44	7,920.55
Demo existing restroom	EA	1.0000	2,219.92	1,113.62	0.00	1,672.50	5,006.04	5,006.04	6,221.65	7,777.06
Remove traffic posts to 12'-0" high	EA	10.0000	75.83	16.53	0.00	0.00	92.36	92.36	114.79	143.49
Earthwork	LS	1.0000	2,238.05	3,819.70	0.00	0.00	6,057.75	7,580.40	9,421.14	11,776.43
Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul	CY	1,000.0000	494.34	1,043.52	0.00	0.00	1,537.87	1,924.42	2,391.73	2,989.66
Borrow, topsoil or loam, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	1,000.0000	440.83	246.20	0.00	0.00	687.03	859.72	1,068.48	1,335.60

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Excavate and load, bank measure, medium material, 3-1/2 C.Y. bucket, hydraulic excavator	BCY	500.0000	245.48	483.42	0.00	0.00	728.89	912.10	1,133.59	1,416.99
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	500.0000	188.41	584.01	0.00	0.00	772.41	966.57	1,201.28	1,501.60
Fill, dumped material, spread, by dozer, excludes compaction	LCY	500.0000	213.80	451.32	0.00	0.00	665.13	832.31	1,034.42	1,293.03
Fine grading, slopes, gentle, gentle, finish grading	SY	5,556.0000	336.06	222.03	0.00	0.00	558.10	698.38	867.97	1,084.96
Rock removal allowance	HR	4.0000	319.12	789.19	0.00	0.00	1,108.31	1,386.90	1,723.67	2,154.59
Architecture	LS	1.0000	0.00	0.00	0.00	31,250.00	31,250.00	31,250.00	38,838.41	48,548.01
New restroom building (Note: Vault restroom.)	SF	250.0000	0.00	0.00	0.00	31,250.00	31,250.00	31,250.00	38,838.41	48,548.01
Furnishings	LS	1.0000	803.05	117.14	0.00	0.00	920.19	920.19	1,143.64	1,429.55
Relocate picnic tables	EA	5.0000	283.69	50.00	0.00	0.00	333.69	333.69	414.72	518.40
Relocate trash receptacles	EA	3.0000	97.26	17.14	0.00	0.00	114.41	114.41	142.19	177.74
Relocate grills	EA	5.0000	283.69	50.00	0.00	0.00	333.69	333.69	414.72	518.40
Signs, stock, reflectorized, UTMCD standard, guide & directional sign, 12" x 18", with posts (Note: Relocation of existing signs. No material costs.)	EA	10.0000	138.41	0.00	0.00	0.00	138.41	138.41	172.02	215.02
Recreational Facilities	LS	1.0000	1,306.52	4,236.22	112,761.01	0.00	118,303.75	118,303.75	147,031.34	183,789.18
Import beach sand and spread	CY	7,333.0000	1,306.52	4,236.22	112,761.01	0.00	118,303.75	118,303.75	147,031.34	183,789.18
Landscaping	LS	1.0000	3,762.22	2,065.25	19,466.33	0.00	25,293.80	31,651.56	39,337.47	49,171.84
Seeding	SF	129,026.0000	963.51	621.51	8,920.48	0.00	10,505.50	13,146.12	16,338.38	20,422.98
Soil preparation, structural soil mixing, tilling topsoil, 6" deep, 20 HP tractor, disk harrow\	MSF	129.0260	150.73	79.00	0.00	0.00	229.73	287.48	357.28	446.60
Seeding, mechanical seeding, 215 lb/acre	ACR	2.9620	622.86	326.44	1,646.49	0.00	2,595.79	3,248.26	4,037.03	5,046.29

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Soil preparation, mulching, hay, 1" deep, power mulcher, large	MSF	129.0260	100.84	131.90	6,971.02	0.00	7,203.76	9,014.47	11,203.44	14,004.30
Fertilizing, hydro spread, 1.5 lb./MSF	MSF	129.0260	89.08	84.17	302.97	0.00	476.22	595.92	740.63	925.79
Plantings	LS	1.0000	2,798.71	1,443.74	10,545.85	0.00	14,788.30	18,505.43	22,999.09	28,748.86
General planting, local varieties, trees, 5' - 6'	EA	40.0000	1,934.91	998.14	8,727.60	0.00	11,660.65	14,591.63	18,134.90	22,668.63
General planting, local varieties, shrubs, 2' - 3'	EA	50.0000	863.80	445.60	1,818.25	0.00	3,127.65	3,913.80	4,864.19	6,080.23
Irrigation	LS	1.0000	3,500.65	0.00	3,837.03	0.00	7,337.68	9,182.05	11,411.72	14,264.65
Irrigation system point-of-connection	EA	1.0000	563.85	0.00	1,246.80	0.00	1,810.65	2,265.77	2,815.96	3,519.95
Underground sprinklers irrigation system, for lawns, residential system, custom, 1" supply (Note: Quantity assumed.)	SF	5,400.0000	2,135.55	0.00	1,627.07	0.00	3,762.62	4,708.38	5,851.71	7,314.64
Underground sprinklers irrigation system, for lawns, pop-up bubbler head w/risers, hi-pop head, 6", includes mechanical joints, excludes piping, excavation and backfill	EA	90.0000	801.26	0.00	963.15	0.00	1,764.41	2,207.91	2,744.05	3,430.07
PLUM COVE	LS	1.0000	105,201.16	43,814.04	95,833.16	64,783.95	309,632.32	354,612.21	440,722.38	550,902.97
Demolition	LS	1.0000	30,312.59	29,426.73	0.00	4,158.95	63,898.27	63,898.27	79,414.62	99,268.28
Clearing and Grubbing	ACR	13.0000	13,071.41	17,658.71	0.00	0.00	30,730.12	30,730.12	38,192.29	47,740.36
Selective clearing, dry clearing, heavy size brush, average grub and trees, excludes removal offsite	ACR	13.0000	10,200.96	16,545.15	0.00	0.00	26,746.11	26,746.11	33,240.85	41,551.06
Selective clearing, load spoils, chute load, includes 2 mile haul to dump	CY	156.0000	2,870.45	1,113.56	0.00	0.00	3,984.01	3,984.01	4,951.44	6,189.30
Removals	LS	1.0000	17,241.18	11,768.02	0.00	4,158.95	33,168.15	33,168.15	41,222.34	51,527.92
Remove gravel surfacing (Note: Assume 6" gravel to remove and haul to state owned off-site storage area.)	SF	31,000.0000	1,796.46	2,804.61	0.00	0.00	4,601.06	4,601.06	5,718.34	7,147.92

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Demolish, remove pavement & curb, remove concrete, mesh reinforced, to 6" thick, excludes hauling and disposal fees	SY	2,000.0000	10,246.18	6,354.21	0.00	0.00	16,600.39	16,600.39	20,631.45	25,789.31
Demo existing restroom	EA	1.0000	2,219.92	1,113.62	0.00	1,672.50	5,006.04	5,006.04	6,221.65	7,777.06
Remove traffic posts to 12'-0" high	EA	10.0000	75.83	16.53	0.00	0.00	92.36	92.36	114.79	143.49
Remove post and cable fence	LF	697.0000	1,977.30	348.50	0.00	0.00	2,325.80	2,325.80	2,890.58	3,613.22
Remove volleyball court posts	EA	2.0000	226.95	40.00	0.00	0.00	266.95	266.95	331.77	414.72
Borrow, clay, till, or blasted rock, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	223.0000	115.58	64.55	0.00	0.00	180.13	180.13	223.88	279.85
(Note: Load demo material (260 CY concrete trail).)										
Hauling, excavated or borrow material, loose cubic yards, 10 mile round trip, 0.6 load/hour, 16.5 C.Y. dump trailer, highway haulers, excludes loading	LCY	223.0000	582.95	1,025.99	0.00	0.00	1,608.95	1,608.95	1,999.64	2,499.55
(Note: Haul demo material, not including structures (223 CY concrete trail).)										
Selective demoliton, dump charges, typical urban city, building construction materials, includes tipping fees only	CY	223.0000	0.00	0.00	0.00	2,486.45	2,486.45	2,486.45	3,090.23	3,862.79
(Note: Rate for construction debris and concrete deposited at the Denver Arapahoe Landfill, 720.876.2620.)										
Earthwork	LS	1.0000	1,244.76	2,707.78	0.00	0.00	3,952.54	4,946.03	6,147.08	7,683.84
Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul	CY	185.0000	91.45	193.05	0.00	0.00	284.51	356.02	442.47	553.09
Borrow, topsoil or loam, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	185.0000	81.55	45.55	0.00	0.00	127.10	159.05	197.67	247.09

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Excavate and load, bank measure, medium material, 3-1/2 C.Y. bucket, hydraulic excavator	BCY	500.0000	245.48	483.42	0.00	0.00	728.89	912.10	1,133.59	1,416.99
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	500.0000	188.41	584.01	0.00	0.00	772.41	966.57	1,201.28	1,501.60
Fill, dumped material, spread, by dozer, excludes compaction	LCY	500.0000	213.80	451.32	0.00	0.00	665.13	832.31	1,034.42	1,293.03
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	100.0000	37.68	116.80	0.00	0.00	154.48	193.31	240.26	300.32
Fine grading, slopes, gentle, gentle, finish grading	SY	1,112.0000	67.26	44.44	0.00	0.00	111.70	139.78	173.72	217.15
Rock removal allowance	HR	4.0000	319.12	789.19	0.00	0.00	1,108.31	1,386.90	1,723.67	2,154.59
Roads and Parking	LS	1.0000	1,120.91	1,376.79	26,992.07	0.00	29,489.76	36,902.21	45,863.13	57,328.92
Gravel Surfacing	SF	45,400.0000	1,120.91	1,376.79	26,992.07	0.00	29,489.76	36,902.21	45,863.13	57,328.92
Base course drainage layers, aggregate base course, bank run gravel, spread & compacted, 8" deep	SY	5,044.4444	1,120.91	1,376.79	26,992.07	0.00	29,489.76	36,902.21	45,863.13	57,328.92
Trails	LS	1.0000	24,167.55	200.89	23,109.88	0.00	47,478.31	59,412.29	73,839.32	92,299.15
Concrete Trail	SF	15,600.0000	24,167.55	200.89	23,109.88	0.00	47,478.31	59,412.29	73,839.32	92,299.15
Compaction, 4 passes, 24" wide, 6" lifts, walk behind, vibrating roller (Note: Assume 6" compacted subgrade.)	ECY	288.8889	579.91	119.67	0.00	0.00	699.58	875.43	1,088.01	1,360.01
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	288.8889	79.18	81.22	345.18	0.00	505.58	632.66	786.29	982.86
Sidewalks, driveways, and patios, sidewalk, concrete, cast-in-place, broomed finish, 3000 psi, 4" thick, excludes base and welded wire mesh	SF	15,600.0000	22,791.31	0.00	21,881.34	0.00	44,672.65	55,901.40	69,475.89	86,844.86

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Concrete surface treatment, curing, sprayed membrane compound	CSF	156.0000	717.15	0.00	883.36	0.00	1,600.50	2,002.80	2,489.14	3,111.42
Architecture	LS	1.0000	0.00	0.00	0.00	60,625.00	60,625.00	60,625.00	75,346.51	94,183.14
New restroom building (Note: Vault restroom.)	SF	485.0000	0.00	0.00	0.00	60,625.00	60,625.00	60,625.00	75,346.51	94,183.14
Furnishings	LS	1.0000	1,613.58	260.00	0.00	0.00	1,873.58	1,873.58	2,328.54	2,910.68
Relocate picnic tables	EA	11.0000	624.11	110.00	0.00	0.00	734.11	734.11	912.38	1,140.47
Relocate benches	EA	1.0000	113.48	20.00	0.00	0.00	133.48	133.48	165.89	207.36
Relocate dumpsters	EA	1.0000	453.90	80.00	0.00	0.00	533.90	533.90	663.55	829.43
Relocate grills	EA	5.0000	283.69	50.00	0.00	0.00	333.69	333.69	414.72	518.40
Signs, stock, reflectorized, UTMCD standard, guide & directional sign, 12" x 18", with posts (Note: Relocation of existing signs. No material costs.)	EA	10.0000	138.41	0.00	0.00	0.00	138.41	138.41	172.02	215.02
Utilities	LS	1.0000	32,838.20	7,039.49	30,517.83	0.00	70,395.51	89,366.54	111,067.34	138,834.17
Sanitary Sewer System	LS	1.0000	32,838.20	7,039.49	30,517.83	0.00	70,395.51	89,366.54	111,067.34	138,834.17
Pipe and Fittings	LF	5,500.0000	11,483.77	0.00	11,086.13	0.00	22,569.90	28,652.31	35,609.92	44,512.40
Public Sanitary Utility Sewerage Piping, piping polyvinyl chloride pipe, B & S, 20' lengths, 4" diameter, SDR 35, excludes excavation or backfill (Note: Assume that fittings/couplings are included in the unit cost.)	LF	5,500.0000	11,483.77	0.00	11,086.13	0.00	22,569.90	28,652.31	35,609.92	44,512.40
Manholes	EA	6.0000	5,088.31	970.06	12,162.53	0.00	18,220.90	23,131.29	28,748.23	35,935.29
Storm Drainage Manholes, Frames, and Covers, concrete, precast, 4' I.D., 8' deep, excludes base, excavation, backfill, frame and cover	EA	6.0000	3,071.23	595.57	6,545.70	0.00	10,212.51	12,964.69	16,112.90	20,141.12
Storm Drainage Manholes, Frames, and Covers, precast concrete, 4' diameter manhole, 8" thick top	EA	6.0000	563.13	123.99	1,527.33	0.00	2,214.45	2,811.22	3,493.87	4,367.34

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Storm Drainage Manholes, Frames, and Covers, standard sizes, aluminum	EA	42.0000	316.19	0.00	1,003.67	0.00	1,319.86	1,675.55	2,082.43	2,603.03
Manhole frame and cover, cast iron, city type, 24" diameter x 375 lb.	EA	6.0000	574.62	126.52	1,558.50	0.00	2,259.64	2,868.59	3,565.17	4,456.47
Storm Drainage Manholes, Frames, and Covers, precast concrete, 4' diameter manhole, 8" thick top	EA	6.0000	563.13	123.99	1,527.33	0.00	2,214.45	2,811.22	3,493.87	4,367.34
(Note: Manhole base.)										
Excavation and Backfill	LS	1.0000	16,266.13	6,069.43	7,269.16	0.00	29,604.71	37,582.95	46,709.18	58,386.48
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	3,055.5556	8,143.04	3,134.46	0.00	0.00	11,277.50	14,316.70	17,793.21	22,241.52
(Note: Assume 3' x 5' trench.)										
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	305.5556	340.42	243.88	6,932.01	0.00	7,516.30	9,541.88	11,858.93	14,823.67
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	2,750.0000	2,910.58	2,085.14	0.00	0.00	4,995.73	6,342.04	7,882.07	9,852.59
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	3,055.5556	4,785.93	605.94	0.00	0.00	5,391.88	6,844.94	8,507.09	10,633.87
Utility Line Signs, Markers, and Flags, vinyl, aluminum foil core, detectable, 6", excludes excavation and backfill	CLF	55.0000	86.15	0.00	337.16	0.00	423.30	537.38	667.87	834.84
Recreational Facilities	LS	1.0000	7,565.01	1,333.33	467.55	0.00	9,365.89	9,365.89	11,640.21	14,550.26
Volleyball court, includes relocating court posts, includes sand	EA	1.0000	7,565.01	1,333.33	467.55	0.00	9,365.89	9,365.89	11,640.21	14,550.26
Landscaping	LS	1.0000	2,837.91	1,469.03	10,908.82	0.00	15,215.76	19,040.34	23,663.89	29,579.86
Seeding	SF	5,250.0000	39.20	25.29	362.97	0.00	427.46	534.91	664.80	831.00

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Soil preparation, structural soil mixing, tilling topsoil, 6" deep, 20 HP tractor, disk harrow\	MSF	5.2500	6.13	3.21	0.00	0.00	9.35	11.70	14.54	18.17
Seeding, mechanical seeding, 215 lb/acre	ACR	0.1205	25.34	13.28	66.99	0.00	105.62	132.17	164.26	205.33
Soil preparation, mulching, hay, 1" deep, power mulcher, large	MSF	5.2500	4.10	5.37	283.65	0.00	293.12	366.79	455.86	569.83
Fertilizing, hydro spread, 1.5 lb./MSF	MSF	5.2500	3.62	3.42	12.33	0.00	19.38	24.25	30.14	37.67
Plantings	LS	1.0000	2,798.71	1,443.74	10,545.85	0.00	14,788.30	18,505.43	22,999.09	28,748.86
General planting, local varieties, trees, 5' - 6'	EA	40.0000	1,934.91	998.14	8,727.60	0.00	11,660.65	14,591.63	18,134.90	22,668.63
General planting, local varieties, shrubs, 2' - 3'	EA	50.0000	863.80	445.60	1,818.25	0.00	3,127.65	3,913.80	4,864.19	6,080.23
Irrigation	LS	1.0000	3,500.65	0.00	3,837.03	0.00	7,337.68	9,182.05	11,411.72	14,264.65
Irrigation system point-of-connection	EA	1.0000	563.85	0.00	1,246.80	0.00	1,810.65	2,265.77	2,815.96	3,519.95
Underground sprinklers irrigation system, for lawns, residential system, custom, 1" supply (Note: Quantity assumed.)	SF	5,400.0000	2,135.55	0.00	1,627.07	0.00	3,762.62	4,708.38	5,851.71	7,314.64
Underground sprinklers irrigation system, for lawns, pop-up bubbler head w/risers, hi-pop head, 6", includes mechanical joints, excludes piping, excavation and backfill	EA	90.0000	801.26	0.00	963.15	0.00	1,764.41	2,207.91	2,744.05	3,430.07
ROADS AND BRIDGES	LS	1.0000	833,380.39	709,178.40	2,693,490.89	2,839,366.00	7,075,415.68	7,659,270.24	9,519,163.99	11,898,954.99
Site Preparation	LS	1.0000	364,517.85	576,296.23	466,991.02	39,366.00	1,447,171.10	1,656,647.27	2,058,929.44	2,573,661.80
Clearing and Grubbing	ACR	12.0000	12,065.92	16,300.35	0.00	0.00	28,366.26	28,366.26	35,254.42	44,068.02
(Note: Assume this is equal to seeding area minus the area for the old road (25*43560 - 11500*50 = +/- 12 AC).)										
Selective clearing, dry clearing, heavy size brush, average grub and trees, excludes removal offsite	ACR	12.0000	9,416.27	15,272.45	0.00	0.00	24,688.72	24,688.72	30,683.86	38,354.82

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Selective clearing, load spoils, chute load, includes 2 mile haul to dump	CY	144.0000	2,649.64	1,027.90	0.00	0.00	3,677.55	3,677.55	4,570.56	5,713.20
Demolition	EA	1.0000	198,040.41	285,214.92	0.00	9,366.00	492,621.33	492,621.33	612,244.13	765,305.16
Drainage Pipe	LF	500.0000	5,075.82	1,895.05	0.00	557.50	7,528.37	7,528.37	9,356.48	11,695.59
(Note: Assume 5 pipes at 100' each.)										
Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	740.7407	1,993.82	759.87	0.00	0.00	2,753.69	2,753.69	3,422.37	4,277.96
(Note: Assume 5' x 8' trench.)										
Selective demolition, metal drainage piping, CMP, steel, 24", diameter, excludes excavation	LF	500.0000	2,925.38	890.66	0.00	0.00	3,816.04	3,816.04	4,742.68	5,928.35
Borrow, clay, till, or blasted rock, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	50.0000	25.92	14.47	0.00	0.00	40.39	40.39	50.20	62.75
(Note: Load demo material (50 CY pipe).)										
Hauling, excavated or borrow material, loose cubic yards, 10 mile round trip, 0.6 load/hour, 16.5 C.Y. dump trailer, highway haulers, excludes loading	LCY	50.0000	130.71	230.04	0.00	0.00	360.75	360.75	448.35	560.44
(Note: Haul demo material, not including structures (50 CY pipe).)										
Selective demoliton, dump charges, typical urban city, building construction materials, includes tipping fees only	CY	50.0000	0.00	0.00	0.00	557.50	557.50	557.50	692.88	866.10
(Note: Rate for construction debris and concrete deposited at the Denver Arapahoe Landfill, 720.876.2620.)										
Existing Roadway	LS	1.0000	166,007.40	261,308.61	0.00	0.00	427,316.01	427,316.01	531,080.78	663,850.97

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Cold milling asphalt paving, 1" to 3" asphalt pavement, 5,000 to 10,000 S.Y., cold planing & cleaning (Note: Assume 2 passes with milling machine to remove 6" asphalt .)	SY	96,600.0000	44,585.26	67,689.17	0.00	0.00	112,274.43	112,274.43	139,537.93	174,422.41
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers (Note: Haul millings to new road site.)	LCY	8,050.0000	3,033.33	9,402.54	0.00	0.00	12,435.87	12,435.87	15,455.67	19,319.58
Obliterate existing roadway (Note: Assume 24" depth over 14000' x 36' to remove. Load and haul to state owned disposal site.)	CY	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Obliterate existing roadway (Note: Assume 24" depth over 14000' x 36' to remove. Assume no disposal costs.)	CY	37,600.0000	118,388.81	184,216.90	0.00	0.00	302,605.71	302,605.71	376,087.18	470,108.98
Existing Structures	LS	1.0000	26,957.18	22,011.27	0.00	8,808.50	57,776.95	57,776.95	71,806.88	89,758.59
Deer Creek Box Culvert	LS	1.0000	11,619.43	10,690.47	0.00	8,808.50	31,118.41	31,118.41	38,674.86	48,343.58
(Note: Base quantities off those calculated in ci12428.)										
Excavate and load, bank measure, medium material, 1-1/2 C.Y. bucket, hydraulic excavator	BCY	1,850.0000	1,475.93	1,166.71	0.00	0.00	2,642.64	2,642.64	3,284.35	4,105.44
Selective demolition, box culvert, precast, 8' x 10' x 3' to 8' x 12' x 8', excludes excavation	LF	1,000.0000	7,668.88	5,660.40	0.00	0.00	13,329.27	13,329.27	16,566.01	20,707.51
Borrow, clay, till, or blasted rock, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted (Note: Load demo material (50 CY pipe).)	BCY	790.0000	409.47	228.68	0.00	0.00	638.15	638.15	793.11	991.38
Hauling, excavated or borrow material, loose cubic yards, 10 mile round trip, 0.6 load/hour, 16.5 C.Y. dump trailer, highway haulers, excludes loading	LCY	790.0000	2,065.16	3,634.69	0.00	0.00	5,699.85	5,699.85	7,083.94	8,854.93

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
(Note: Haul demo material, not including structures (50 CY pipe).)										
Selective demoliton, dump charges, typical urban city, building construction materials, includes tipping fees only	CY	790.0000	0.00	0.00	0.00	8,808.50	8,808.50	8,808.50	10,947.46	13,684.33
(Note: Rate for construction debris and concrete deposited at the Denver Arapahoe Landfill, 720.876.2620.)										
Bridges	EA	2.0000	15,337.75	11,320.79	0.00	0.00	26,658.54	26,658.54	33,132.01	41,415.02
Demo existing bridge, includes load and haul to disposal area	EA	2.0000	15,337.75	11,320.79	0.00	0.00	26,658.54	26,658.54	33,132.01	41,415.02
Earthwork	LS	1.0000	131,224.17	273,571.40	428,587.50	0.00	833,383.07	1,042,859.24	1,296,095.82	1,620,119.78
Topsoil stripping and stockpiling, loam or topsoil, remove and stockpile on site, 200 HP dozer, 6" deep, 200' haul	CY	12,341.0000	6,100.69	12,878.14	0.00	0.00	18,978.83	23,749.28	29,516.30	36,895.37
Borrow, topsoil or loam, 1-1/2 C.Y. bucket, loading and/or spreading, front end loader, wheel mounted	BCY	12,341.0000	5,440.31	3,038.32	0.00	0.00	8,478.63	10,609.79	13,186.15	16,482.69
Excavate and load, bank measure, medium material, 3-1/2 C.Y. bucket, hydraulic excavator	BCY	72,000.0000	35,348.68	69,611.84	0.00	0.00	104,960.53	131,343.03	163,236.94	204,046.17
(Note: Assume 20% swell (60000*1.2 = 72000 CY).)										
Hauling, excavated or borrow material, loose cubic yards, 1 mile round trip, 3.9 loads/hour, 22 C.Y. rear/bottom dump, off highway haulers	LCY	72,000.0000	27,130.43	84,097.27	0.00	0.00	111,227.70	139,185.49	172,983.78	216,229.73
(Note: Assume 20% swell (60000*1.2 = 72000 CY).)										
Fill, dumped material, spread, by dozer, excludes compaction	LCY	72,000.0000	30,787.72	64,990.71	0.00	0.00	95,778.43	119,852.95	148,956.74	186,195.92
(Note: Assume 20% swell (60000*1.2 = 72000 CY).)										
Fine grading, slopes, gentle, gentle, finish grading	SY	50,127.0000	3,032.02	2,003.23	0.00	0.00	5,035.25	6,300.89	7,830.93	9,788.67

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
(Note: Assume area same as needed for aggregate base course (16709*36/12 = 50127 SY).)										
Rock removal allowance	HR	80.0000	6,382.40	15,783.88	0.00	0.00	22,166.28	27,737.92	34,473.49	43,091.87
Base course drainage layers, aggregate base course for roadways and large paved areas, alternate method to figure base course, crushed stone, compacted, 1-1/2", 12" deep	ECY	10,000.0000	17,001.91	21,168.01	428,587.50	0.00	466,757.42	584,079.89	725,911.48	907,389.35
Erosion Control	LS	1.0000	23,187.35	1,209.55	38,403.52	0.00	62,800.43	62,800.43	78,050.20	97,562.75
Synthetic Erosion Control	LS	1.0000	22,327.28	212.26	27,649.87	0.00	50,189.41	50,189.41	62,376.87	77,971.08
Synthetic erosion control, silt fence, polypropylene, adverse conditions, 3' high	LF	46,800.0000	21,818.74	0.00	16,532.57	0.00	38,351.30	38,351.30	47,664.12	59,580.15
(Note: Assume placed on both sides of road (22000*2 = 44000') plus 100' ea around 28 structures (2800').)										
Synthetic erosion control, hay bales, staked	LF	2,000.0000	508.55	212.26	11,117.30	0.00	11,838.11	11,838.11	14,712.75	18,390.93
(Note: Quantity assumed.)										
Riprap	TON	345.0000	860.07	997.29	10,753.65	0.00	12,611.01	12,611.01	15,673.33	19,591.66
(Note: Assume 1.5TN/CY.)										
Place riprap	TON	345.0000	860.07	997.29	0.00	0.00	1,857.36	1,857.36	2,308.38	2,885.48
Riprap, material only	TON	345.0000	0.00	0.00	10,753.65	0.00	10,753.65	10,753.65	13,364.95	16,706.19
Mitigation	LS	1.0000	0.00	0.00	0.00	30,000.00	30,000.00	30,000.00	37,284.87	46,606.09
Mitigation allowance	LS	1.0000	0.00	0.00	0.00	30,000.00	30,000.00	30,000.00	37,284.87	46,606.09
Site Improvements	LS	1.0000	408,537.96	108,564.59	1,700,799.23	2,800,000.00	5,017,901.78	5,392,280.17	6,701,682.75	8,377,103.43
Paving	LS	1.0000	96,834.08	75,955.24	1,272,102.49	0.00	1,444,891.81	1,808,074.61	2,247,127.76	2,808,909.69
Asphalt Pavement	TON	16,930.0000	96,834.08	75,955.24	1,272,102.49	0.00	1,444,891.81	1,808,074.61	2,247,127.76	2,808,909.69
(Note: Assume 3" wearing course, 3" binder course, and 12" recycled base course. Assuming 140 LB/CF for density of asphalt equates to about .315 TN/SY @ 6" depth.)										
Compaction, 3 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	ECY	16,709.0000	4,059.78	5,953.41	0.00	0.00	10,013.19	12,530.07	15,572.73	19,465.92
(Note: Assume 12" compacted subgrade (Quantity will be the same for the 12" base course = 16709 CY).)										
Compaction, water for, 3000 gallon truck, 3 mile haul	ECY	16,709.0000	4,579.78	4,697.60	19,964.75	0.00	29,242.13	36,592.33	45,478.01	56,847.52

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Base course drainage layers, aggregate base course for roadways and large paved areas, alternate method to figure base course, CDOT class 6, compacted, 3/4", 12" deep (Note: No material cost since we are reusing milled material from existing roadway.)	ECY	8,050.0000	12,185.55	15,397.08	0.00	0.00	27,582.63	34,515.71	42,897.12	53,621.40
Base course drainage layers, aggregate base course for roadways and large paved areas, alternate method to figure base course, CDOT class 6, compacted, 3/4", 12" deep (Note: The remaining base material needs to be imported (16709 - 8050 = 8659CY). Price is \$4.10/TN for delivery (10 mile haul, round trip from Littleton, CO plant) and \$7.45/TN for material (pricing from Sue, Recycled Materials Company, Arvada, CO, 303.423.2736) for a total of \$11.55/TN delivered. Assume 1.7TN/CY compacted density of base course to get price of \$19.64/CY.)	ECY	8,659.0000	13,107.42	16,561.90	176,695.21	0.00	206,364.53	258,235.57	320,942.69	401,178.36
Asphalt surface treatment, tack coat, emulsion, 0.15 gallons per S.Y., 10,000 S.Y.	SY	50,127.0000	2,593.99	2,660.72	55,206.87	0.00	60,461.58	75,658.99	94,031.19	117,538.99
Plant-mix asphalt paving, for highways and large paved areas, binder course, alternate method for developing paving costs, 3" thick	TON	8,465.0000	28,501.14	14,490.87	505,720.26	0.00	548,712.27	686,634.62	853,369.49	1,066,711.86
Plant-mix asphalt paving, for highways and large paved areas, wearing course, alternate method for developing paving costs, 3" thick	TON	8,465.0000	31,806.42	16,193.65	514,515.40	0.00	562,515.47	703,907.34	874,836.52	1,093,545.66
Bridges	EA	1.0000	296,900.07	24,658.34	374,040.00	0.00	695,598.41	695,598.41	864,509.95	1,080,637.44
Deer Creek Crossing bridge, 42' x 72.5' (Note: The cost for this item is based on Appendix 1 Cost Estimate Details provided by EDAW. No description of the bridge is provided outside of its dimensions.)	LS	1.0000	79,173.35	6,575.56	93,510.00	0.00	179,258.91	179,258.91	222,788.19	278,485.24
Platte River Crossing bridge, 42' x 200' (Note: The cost for this item is based on Appendix 1 Cost Estimate Details provided by EDAW. No description of the bridge is provided outside of its dimensions.)	LS	1.0000	217,726.72	18,082.78	280,530.00	0.00	516,339.50	516,339.50	641,721.76	802,152.20
Traffic Control Features	LS	1.0000	6,671.61	2,705.38	23,493.87	0.00	32,870.85	32,870.85	40,852.85	51,066.07

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Painted pavement markings, acrylic waterborne, white or yellow, 4" wide	LF	66,000.0000	4,322.23	1,732.07	11,657.58	0.00	17,711.88	17,711.88	22,012.84	27,516.05
Fixed vehicle delineators, traffic channelizing pavement markers, plowable, asphalt pavement, 9-1/4" x 5-7/8" x 1/4" high	EA	100.0000	908.12	558.76	1,934.62	0.00	3,401.50	3,401.50	4,227.48	5,284.35
Signs, guide and directional signs, reflectorized, 12" x 18", excludes posts	EA	20.0000	274.52	78.96	758.47	0.00	1,111.96	1,111.96	1,381.97	1,727.46
Signs, stock, aluminum, reflectorized, .080 aluminum, 24" x 24", excludes posts	EA	25.0000	343.16	98.70	2,155.93	0.00	2,597.78	2,597.78	3,228.60	4,035.75
Signs, stock, aluminum, reflectorized, .080" aluminum, 30" x 30", excludes posts	EA	25.0000	343.16	98.70	4,441.73	0.00	4,883.58	4,883.58	6,069.46	7,586.82
Signs, 12'-0", excludes posts, add to above for steel posts, galvanized, upright, bolted	EA	70.0000	480.42	138.18	2,545.55	0.00	3,164.15	3,164.15	3,932.50	4,915.62
Landscaping	LS	1.0000	8,132.20	5,245.63	31,162.87	0.00	44,540.71	55,736.30	69,270.69	86,588.37
Seeding	ACR	25.0000	8,132.20	5,245.63	31,162.87	0.00	44,540.71	55,736.30	69,270.69	86,588.37
Soil preparation, structural soil mixing, tilling topsoil, 6" deep, 20 HP tractor, disk harrow\	MSF	1,089.0000	1,272.20	666.76	0.00	0.00	1,938.97	2,426.34	3,015.52	3,769.41
Seeding, mechanical seeding, 215 lb/acre	ACR	25.0000	5,257.03	2,755.23	13,896.63	0.00	21,908.88	27,415.82	34,073.18	42,591.48
Soil preparation, mulching, hay, 1/4" deep, power mulcher, large	MSF	1,089.0000	851.13	1,113.22	14,709.12	0.00	16,673.48	20,864.46	25,930.96	32,413.70
Fertilizing, hydro spread, 1.5 lb./MSF	MSF	1,089.0000	751.83	710.42	2,557.12	0.00	4,019.38	5,029.68	6,251.03	7,813.78
Gravel Pond Dike	LS	1.0000	0.00	0.00	0.00	2,800,000.00	2,800,000.00	2,800,000.00	3,479,921.50	4,349,901.87
Dike separating Gravel Pond from overall reservoir	LS	1.0000	0.00	0.00	0.00	2,800,000.00	2,800,000.00	2,800,000.00	3,479,921.50	4,349,901.87
(Note: This cost was provided in Appendix 1 of the Chatfield Reservoir Recreation Facilities Modification Plan, prepared by EDWA/AECOM (Appendix M to the FR/EIS). A technical memorandum describing different dike alternatives and costs prepared by Boyle/AECOM is included in Appendix 3 of the report.)										
Civil/Mechanical Utilities	LS	1.0000	60,324.58	24,317.57	525,700.65	0.00	610,342.80	610,342.80	758,551.80	948,189.75

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Storm Drainage	LS	1.0000	60,324.58	24,317.57	525,700.65	0.00	610,342.80	610,342.80	758,551.80	948,189.75
Pipe	LS	1.0000	15,478.90	3,635.47	44,065.03	0.00	63,179.40	63,179.40	78,521.20	98,151.50
Public Storm Utility Drainage Piping, reinforced concrete pipe (RCP), 24" diameter, 8' lengths, class 3, excludes excavation or backfill, gaskets	LF	595.0000	8,522.83	983.62	17,927.95	0.00	27,434.39	27,434.39	34,096.25	42,620.32
Public Storm Utility Drainage Piping, reinforced concrete pipe (RCP), 36" diameter, 8' lengths, class 3, excludes excavation or backfill, gaskets	LF	70.0000	1,706.47	519.55	4,436.53	0.00	6,662.55	6,662.55	8,280.41	10,350.51
Public Storm Utility Drainage Piping, reinforced concrete pipe (RCP), 48" diameter, 8' lengths, class 3, excludes excavation or backfill, gaskets	LF	85.0000	2,331.16	1,188.64	8,831.50	0.00	12,351.30	12,351.30	15,350.56	19,188.20
Public Storm Utility Drainage Piping, reinforced concrete pipe (RCP) flared ends, 6'-2" long, 24" diameter, class 3, excludes excavation or backfill (Note: 17 FES's.)	LF	102.0000	1,104.71	153.41	6,093.74	0.00	7,351.85	7,351.85	9,137.09	11,421.36
Public Storm Utility Drainage Piping, reinforced concrete pipe (RCP) flared ends, 6'-2" long, 36" diameter, class 3, excludes excavation or backfill (Note: 2 FES's.)	LF	12.0000	351.05	106.88	1,658.24	0.00	2,116.17	2,116.17	2,630.04	3,287.54
Reinforced concrete pipe (RCP), precast flared end, round, 48", excludes excavation or backfill	EA	5.0000	1,462.69	683.38	5,117.08	0.00	7,263.14	7,263.14	9,026.84	11,283.55
Box Culvert	EA	5.0000	27,266.96	8,542.97	478,459.50	0.00	514,269.43	514,269.43	639,149.02	798,936.28

Description	UOM	Quantity	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
Public Storm Utility Drainage Piping, concrete, box culvert, precast, base price, 8' long, 10' x 6', excludes excavation or backfill	LF	700.0000	11,301.50	8,341.64	465,472.00	0.00	485,115.14	485,115.14	602,915.21	753,644.02
(Note: Assume 5 EA double sections @ 70' long (5*2*70 = 700').)										
Box culvert headwall, apron, and wingwalls	EA	5.0000	15,965.46	201.33	12,987.50	0.00	29,154.30	29,154.30	36,233.81	45,292.26
Excavation and Backfill	LS	1.0000	17,578.72	12,139.13	3,176.12	0.00	32,893.97	32,893.97	40,881.58	51,101.98
(Note: Use excavation figures from ci12428.)										
Excavating, trench or continuous footing, common earth, 1 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	BCY	6,000.0000	8,185.93	6,449.81	0.00	0.00	14,635.74	14,635.74	18,189.73	22,737.16
Backfill, 1-1/2 C.Y., sand bedding trenches, front-end loader	LCY	140.0000	157.54	111.74	3,176.12	0.00	3,445.40	3,445.40	4,282.04	5,352.55
Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	3,000.0000	3,207.05	2,274.70	0.00	0.00	5,481.76	5,481.76	6,812.89	8,516.11
Compaction, around structures and trenches, walk behind, vibrating plate	ECY	3,000.0000	4,745.38	594.93	0.00	0.00	5,340.30	5,340.30	6,637.08	8,296.35
Fill, dumped material, spread, by dozer, excludes compaction	LCY	3,000.0000	1,282.82	2,707.95	0.00	0.00	3,990.77	3,990.77	4,959.84	6,199.80
MISCELLANEOUS TREE REMOVAL	LS	1.0000	0.00	0.00	0.00	1,600,000.00	1,600,000.00	0.00	1,600,000.00	2,000,000.00
Miscellaneous tree removal around reservoir	LS	1.0000	0.00	0.00	0.00	1,600,000.00	1,600,000.00	0.00	1,600,000.00	2,000,000.00

(Note: Tree removal cost was determined by Tetra Tech EC, POC Gary Dendrel, for use in this estimate.)

Description	UOM	Quantity	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
ENGINEERING AND DESIGN			5,760,721.13	5,760,721.13	0.00	5,760,721.13	7,046,746.34
PLANNING, ENGINEERING, AND DESIGN	EA	1.0000	5,760,721.13	5,760,721.13	0.00	5,760,721.13	7,046,746.34
Planning, engineering, and design for recreational mitigation	LS	1.0000	2,817,212.07	2,817,212.07	0.00	2,817,212.07	3,521,515.09
(Note: Assume 9% of construction cost based on past civil works projects. A contingency of 25% was applied, also based on past civil works projects.)							
Planning, engineering, and design for enhancement activities for on-site noncritical and critical habitat mitigation	LS	1.0000	1,571,847.08	1,571,847.08	0.00	1,571,847.08	1,886,216.50
(Note: Provided by Betty Peake (CENWO-PM-AE) on 13 July 2011 (Value is 10% of construction cost). Contingency of 20% applied to get to Project Cost amount. Refer to the Draft Compensatory Mitigation Plan, June 2011, by ERO and Tetra Tech for more information on the development of this cost.)							
Planning, engineering, and design for enhancement activities for off-site noncritical habitat mitigation	LS	1.0000	1,232,069.57	1,232,069.57	0.00	1,232,069.57	1,478,483.48
(Note: Provided by Betty Peake (CENWO-PM-AE) on 13 July 2011 (Value is 10% of construction cost). Contingency of 20% applied to get to Project Cost amount. Refer to the Draft Compensatory Mitigation Plan, June 2011, by ERO and Tetra Tech for more information on the development of this cost.)							
Planning, engineering, and design for mitigation activities for off-site noncritical habitat mitigation	LS	1.0000	139,592.41	139,592.41	0.00	139,592.41	160,531.27
(Note: Provided by Betty Peake (CENWO-PM-AE) on 13 July 2011 (Value is 6% of construction cost). Contingency of 15% applied to get to Project Cost amount. Refer to the Draft Compensatory Mitigation Plan, June 2011, by ERO and Tetra Tech for more information on the development of this cost.)							

Description	UOM	Quantity	DirectSubBid	DirectCost	CostToPrime	ContractCost	ProjectCost
SUPERVISION AND ADMINISTRATION			3,559,284.52	3,559,284.52	0.00	3,559,284.52	4,351,089.25
CONSTRUCTION MANAGEMENT	EA	1.0000	3,559,284.52	3,559,284.52	0.00	3,559,284.52	4,351,089.25
Construction management for recreational mitigation	LS	1.0000	1,878,141.38	1,878,141.38	0.00	1,878,141.38	2,347,676.73
(Note: Assume 6% of construction cost based on past civil works projects. A contingency of 25% was applied, also based on past civil works projects.)							
Construction management for enhancement activities for on-site noncritical and critical habitat mitigation	LS	1.0000	785,923.54	785,923.54	0.00	785,923.54	943,108.25
(Note: Provided by Betty Peake (CENWO-PM-AE) on 13 July 2011 (Value is 5% of construction cost). Contingency of 20% applied to get to Project Cost amount. Refer to the Draft Compensatory Mitigation Plan, June 2011, by ERO and Tetra Tech for more information on the development of this cost.)							
Construction management for enhancement activities for off-site noncritical habitat mitigation	LS	1.0000	616,034.78	616,034.78	0.00	616,034.78	739,241.74
(Note: Provided by Betty Peake (CENWO-PM-AE) on 13 July 2011 (Value is 5% of construction cost). Contingency of 20% applied to get to Project Cost amount. Refer to the Draft Compensatory Mitigation Plan, June 2011, by ERO and Tetra Tech for more information on the development of this cost.)							
Construction management for mitigation activities for off-site noncritical habitat mitigation	LS	1.0000	279,184.82	279,184.82	0.00	279,184.82	321,062.54
(Note: Provided by Betty Peake (CENWO-PM-AE) on 13 July 2011 (Value is 12% of construction cost). Contingency of 15% applied to get to Project Cost amount. Refer to the Draft Compensatory Mitigation Plan, June 2011, by ERO and Tetra Tech for more information on the development of this cost.)							

This page intentionally left blank