

TOTAL COST	\$83,067			Unit Cost	\$21.60	Revised Electric Service Infrastructure
Estimate Date	February 13, 2012	REV	0	Overall Unit	3845 lf	

GENERAL INFORMATION SECTION					REQUIRED SPREADSHEET DATA SECTION				
Park Acronym	Davis/Bacon Decision	Mod Number	Contractor's Company		Approximate Start	Subcontractor Overhead		State Sales Tax	
DENA	DC120002 1/20/2012	18	Name		12-Feb	10.00%		4.25%	
Park Name	Hyperlink to Solicitation	CLIN	Contractor's Contact		Overall Time Frame	Subcontractor Profit		Local Sales Tax	
Denali	N/A	1	Name		2 weeks	10.00%		3.80%	
County	NPS Project Manager	PMIS #	Contractor Phone Number		Weather Protection	Subcontractor Bond		Other Taxes	
Dist of Columbia	Name	150274	111-111-1111		None	0.00%		0.00%	
Zip Code	NPS Project Specialist	Contract No.	Architect's Company		Night/Day Work	Design/Build		Mtrl Tax	
20242	Name	C20111XXXX	Name		Day Work	No		Yes	
State	Open	RFP #	Architect's Contact		Special Protection	File Location		Labor Tax	
Wyoming	N/A	24	Name		None	C:\Users\cos\Desktop\Templates\1.1 NPS Mod Estimate Sample.xls\Item 1		No	
Estimated By	Open	Open	Architects's Phone Number		Remoteness			Equipment Tax	
BYC	N/A	N/A	222-222-2222		Within 1 hr of Support City			No	

LINE	DIVISIONAL WORK	OVERALL QUANTITY		LABOR (inc fringe benefits)				MATERIAL			EQUIPMENT			TOTAL			\$/Unit					
				Quantity	Unit\$	Prod/Hr	Total	Quantity	Unit\$	Total	Quantity	Unit\$	Total	Subtotal	%MU	Markup		Total				
DEDUCTIONS																						
1	Cut to Fill site	1,850.00	cy	16.00	hr	\$125.07	115.63	(\$2,001)	0.00	cy	\$0.00	\$0	16.00	hr	\$208.73	(\$3,340)	(5,340.82)	20.00%	(1,068.16)	(\$6,409)	(\$3.46)	cy
2	Manholes - 6'x12'	9.00	ea	432.00	hr	\$125.07	0.02	(\$54,032)	72.63	cy	\$289.00	(\$20,990)	216.00	hr	\$39.58	(\$8,549)	(83,571.56)	20.00%	(16,714.31)	(\$100,286)	(\$11,142.88)	ea
3	Electrical manhole - 6'x12' at DC Memorial	2.00	ea	96.00	hr	\$125.07	0.02	(\$12,007)	16.14	cy	\$289.00	(\$4,664)	48.00	hr	\$39.58	(\$1,900)	(18,571.46)	20.00%	(3,714.29)	(\$22,286)	(\$11,142.88)	ea
4	Trenching at DC Memorial	500.00	lf	8.00	hr	\$46.96	62.50	(\$376)	0.00	sf	\$0.00	\$0	8.00	hr	\$39.58	(\$317)	(692.29)	20.00%	(138.46)	(\$831)	(\$1.66)	lf
5	Backfill trench at DC Memorial	500.00	lf	8.00	hr	\$125.07	62.50	(\$1,001)	0.00	sf	\$0.00	\$0	8.00	hr	\$39.58	(\$317)	(1,317.24)	20.00%	(263.45)	(\$1,581)	(\$3.16)	lf
6	Remove & stack Flagstone	2,000.00	sf	16.00	hr	\$125.07	125.00	(\$2,001)	0.00	sf	\$0.00	\$0	16.00	hr	\$14.62	(\$234)	(2,235.11)	20.00%	(447.02)	(\$2,682)	(\$1.34)	sf
7	Replace Flagstone with 4" base	2,000.00	sf	40.00	hr	\$125.07	50.00	(\$5,003)	27.70	cy	\$26.00	(\$720)	40.00	hr	\$39.58	(\$1,583)	(7,306.38)	20.00%	(1,461.28)	(\$8,768)	(\$4.38)	sf
8	6-4" Conduit ductbank, Sch 40, Detail 13 - Water Treatment Structure to #2 Manhole	428.00	lf	102.72	hr	\$0.00	4.17	\$0	2,568.00	lf	\$4.34	(\$11,145)	102.72	hr	\$39.58	(\$4,066)	(15,210.78)	20.00%	(3,042.16)	(\$18,253)	(\$42.65)	lf
9	2-2" Conduit ductbank, Sch 40, Detail 6 - Water Treatment Structure to #2 Manhole	261.00	lf	20.88	hr	\$0.00	12.50	\$0	522.00	lf	\$1.48	(\$773)	20.88	hr	\$39.58	(\$826)	(1,598.99)	20.00%	(319.80)	(\$1,919)	(\$7.35)	lf
10	6-4" & 1-2" Conduit ductbank, Sch 40, Detail 9 - #2 Manhole to Comfort Station	1,187.00	lf	332.36	hr	\$0.00	3.57	\$0	8,309.00	lf	\$4.34	(\$36,061)	332.36	hr	\$39.58	(\$13,155)	(49,215.87)	20.00%	(9,843.17)	(\$59,059)	(\$49.75)	lf
11	2-2-1/2" & 1-2" Conduit ductbank, Sch 40, Detail 14 - Comfort Station to Pump House	380.00	lf	45.60	hr	\$0.00	8.33	\$0	1,140.00	lf	\$2.20	(\$2,508)	45.60	hr	\$39.58	(\$1,805)	(4,312.85)	20.00%	(862.57)	(\$5,175)	(\$13.62)	lf
12	4-5" Conduit ductbank, Sch 40, Detail 1 - Credited Work for DC Memorial	500.00	lf	80.00	hr	\$0.00	6.25	\$0	2,000.00	lf	\$7.64	(\$15,280)	80.00	hr	\$39.58	(\$3,166)	(18,446.40)	20.00%	(3,689.28)	(\$22,136)	(\$44.27)	lf
13	6-4" Ductbank concrete, Detail 13	57.07	cy	3.57	hr	\$177.46	16.00	(\$633)	57.07	cy	\$85.00	(\$4,851)	0.00	hr	\$0.00	\$0	(5,483.60)	20.00%	(1,096.72)	(\$6,580)	(\$115.31)	cy
14	6-4" & 1-2" Ductbank concrete, Detail 9	211.02	cy	13.19	hr	\$177.46	16.00	(\$2,340)	211.02	cy	\$85.00	(\$17,937)	0.00	hr	\$0.00	\$0	(20,277.36)	20.00%	(4,055.47)	(\$24,333)	(\$115.31)	cy
15	2-2" Ductbank concrete, Detail 6	13.57	cy	0.85	hr	\$177.46	16.00	(\$151)	13.57	cy	\$85.00	(\$1,154)	0.00	hr	\$0.00	\$0	(1,304.15)	20.00%	(260.83)	(\$1,565)	(\$115.31)	cy
16	2-2-1/2" & 1-2" Ductbank concrete, Detail 14	20.27	cy	1.27	hr	\$177.46	16.00	(\$225)	20.27	cy	\$85.00	(\$1,723)	0.00	hr	\$1.00	\$0	(1,947.45)	20.00%	(389.49)	(\$2,337)	(\$115.31)	cy
17	4-5" Ductbank concrete at DC Memorial, Detail 1	44.67	cy	2.79	hr	\$177.46	16.00	(\$495)	44.67	cy	\$85.00	(\$3,797)	0.00	hr	\$0.00	\$0	(4,292.07)	20.00%	(858.41)	(\$5,150)	(\$115.31)	cy
18	Pull wires	14,539.00	lf	43.14	hr	\$0.00	337.00	\$0	14,539.00	lf	\$0.20	(\$2,908)	0.00	hr	\$0.00	\$0	(2,907.80)	20.00%	(581.56)	(\$3,489)	(\$0.24)	lf
ADDITIONS																						
19	Cut to Fill site	2,788.00	cy	24.00	hr	\$209.87	116.17	\$5,037	0.00	cy	\$0.00	\$0	24.00	hr	\$208.73	\$5,009	10,046.43	20.00%	2,009.29	\$12,056	\$4.32	cy
20	Manholes - 5'x7'	9.00	ea	360.00	hr	\$125.07	0.03	\$45,027	39.24	cy	\$302.00	\$11,850	180.00	hr	\$0.00	\$0	56,877.32	20.00%	11,375.46	\$68,253	\$7,583.64	ea
21	Manhole 4'x4'x6'	2.00	ea	80.00	hr	\$125.07	0.03	\$10,006	7.50	cy	\$302.00	\$2,265	40.00	hr	\$39.58	\$1,583	13,854.17	20.00%	2,770.83	\$16,625	\$8,312.50	ea
22	Trenching for 2-2" conduit ductbank, #2 Manhole to Comfort Station to Pump House	1,472.00	lf	24.00	hr	\$46.96	61.33	\$1,127	0.00	sf	\$0.00	\$0	24.00	hr	\$39.58	\$950	2,076.86	20.00%	415.37	\$2,492	\$1.69	lf
23	Backfill for 2-2" conduit ductbank, #2 Manhole to Comfort Station to Pump House	1,472.00	lf	24.00	hr	\$125.07	61.33	\$3,002	0.00	sf	\$0.00	\$0	24.00	hr	\$39.58	\$950	3,951.71	20.00%	790.34	\$4,742	\$3.22	lf
24	Added excavation at vaults	80.00	cy	4.00	hr	\$46.96	20.00	\$188	0.00	sf	\$0.00	\$0	4.00	hr	\$39.58	\$158	346.14	20.00%	69.23	\$415	\$5.19	cy
25	Added backfill at vaults	80.00	cy	4.00	hr	\$46.96	20.00	\$188	0.00	sf	\$0.00	\$0	4.00	hr	\$39.58	\$158	346.14	20.00%	69.23	\$415	\$5.19	cy
26	10-4" Conduit ductbank, Sch 40, Detail 4 - Water Treatment Structure to Comfort Station	1,544.00	lf	617.60	hr	\$0.00	2.50	\$0	15,440.00	lf	\$4.34	\$67,010	617.60	hr	\$39.58	\$24,445	91,454.21	20.00%	18,290.84	\$109,745	\$71.08	lf
27	2-2" Conduit ductbank, Sch 40, Detail 5 - Water Treatment Structure to Comfort Station	1,449.00	lf	115.92	hr	\$0.00	12.50	\$0	2,898.00	lf	\$1.48	\$4,289	115.92	hr	\$39.58	\$4,588	8,877.15	20.00%	1,775.43	\$10,653	\$7.35	lf

LINE	DIVISIONAL WORK	OVERALL QUANTITY		LABOR (inc fringe benefits)				MATERIAL			EQUIPMENT			TOTAL				\$/Unit				
				Quantity	Unit\$	Prod/Hr	Total	Quantity	Unit\$	Total	Quantity	Unit\$	Total	Subtotal	%MU	Markup	Total					
28	4-4" Conduit duckbank, Sch 40, Detail 2 - Water Treatment Structure to #2 Manhole & Comfort Station to Pump House.	452.00	lf	72.32	hr	\$0.00	6.25	\$0	1,808.00	lf	\$4.34	\$7,847	72.32	hr	\$39.58	\$2,862	10,709.15	20.00%	2,141.83	\$12,851	\$28.43	lf
29	1-2" Conduit ductbank, Sch 40, No Detail refer - Comfort Station to Pump House	380.00	lf	15.20	hr	\$0.00	25.00	\$0	380.00	lf	\$1.48	\$562	15.20	hr	\$39.58	\$602	1,164.02	20.00%	232.80	\$1,397	\$3.68	lf

LINE	DIVISIONAL WORK	OVERALL QUANTITY		LABOR (inc fringe benefits)				MATERIAL			EQUIPMENT			TOTAL								
				Quantity	Unit\$	Prod/Hr	Total	Quantity	Unit\$	Total	Quantity	Unit\$	Total	Subtotal	%MU	Markup	Total	\$/Unit				
30	2-4" Ductbank between vaults	20.00	lf	1.60	hr	\$0.00	12.50	\$0	40.00	lf	\$4.34	\$174	1.60	hr	\$39.58	\$63	236.93	20.00%	47.39	\$284	\$14.22	lf
31	10-4" Ductbank concrete 1'-2" x 2'-10"	227.14	cy	14.20	hr	\$177.46	16.00	\$2,519	227.14	cy	\$85.00	\$19,307	0.00	hr	\$0.00	\$0	21,826.09	20.00%	4,365.22	\$26,191	\$115.31	cy
32	4-4" Duckbank concrete 1'-4" x 1'-2"	31.34	cy	1.96	hr	\$177.46	16.00	\$348	31.34	cy	\$85.00	\$2,664	0.00	hr	\$0.00	\$0	3,011.37	20.00%	602.27	\$3,614	\$115.31	cy
33	2-2" Ductbank concrete 0'-10" x 0'-10"	64.40	cy	4.03	hr	\$177.46	16.00	\$714	64.40	cy	\$85.00	\$5,474	0.00	hr	\$0.00	\$0	6,188.27	20.00%	1,237.65	\$7,426	\$115.31	cy
34	1-2" Ductbank concrete 0'-10" x 0'-10"	16.89	cy	0.68	hr	\$177.46	25.00	\$120	16.89	cy	\$85.00	\$1,436	0.00	hr	\$0.00	\$0	1,555.44	20.00%	311.09	\$1,867	\$110.52	cy
35	2-4" Ductbank concrete between vaults	0.67	cy	1.00	hr	\$177.46	0.67	\$177	0.67	cy	\$86.00	\$57	0.00	hr	\$0.00	\$0	234.79	20.00%	46.96	\$282	\$422.62	cy
36	Pull wires	21,326.00	lf	63.28	hr	\$0.00	337.00	\$0	21,326.00	lf	\$0.20	\$4,265	0.00	hr	\$0.00	\$0	4,265.20	20.00%	853.04	\$5,118	\$0.24	lf
37	Concrete sidewalk replacement	126.00	sf	8.00	hr	\$89.47	15.75	\$716	2.00	cy	\$120.00	\$240	8.00	hr	\$39.58	\$317	1,272.39	20.00%	254.48	\$1,527	\$12.12	sf
38	Asphalt paving street, 3"	611.00	tons	32.00	hr	\$207.64	19.09	\$6,644	611.60	tons	\$60.00	\$36,696	32.00	hr	\$327.03	\$10,465	53,805.44	20.00%	10,761.09	\$64,567	\$105.67	tons
39	Sod replacement at new trenching, 4 foot wide	5,888.00	sf	16.00	hr	\$212.56	368.00	\$3,401	5,888.00	sf	\$0.36	\$2,120	16.00	hr	\$39.58	\$633	6,153.96	20.00%	1,230.79	\$7,385	\$1.25	sf
GENERAL CONDITIONS				Is Critical Path Impacted as a direct result of this Modification?				No														
40	No impact to critical path	0.00	sf	0.00	hr	\$0.00	0.00	\$0	0.00	sf	\$0.00	\$0	0.00	hr	\$0.00	\$0	0.00	20.00%	0.00	\$0	\$0.00	sf
41		0.00	sf	0.00	hr	\$0.00	0.00	\$0	0.00	sf	\$0.00	\$0	0.00	hr	\$0.00	\$0	0.00	20.00%	0.00	\$0	\$0.00	sf
SUBTOTALS				Total Labor Costs				(\$1,051)				Total Material Costs				\$41,745						
				Labor Sales Tax				\$0				Material Sales Tax				\$5,050						
				Total Equipment Cost				\$13,527				Total Sub Markup				10,844.20						
				Equipment Sales Tax				\$0				Total Sub Costs				\$65,065						
				Total Sales Tax %				8.05%				Total Sales Taxes				\$5,050						

LABOR RATES WORKSHEET						
Crew & Tradesperson Hourly Rates	Access Davis Bacon Website Here http://www.wdol.gov/dba.aspx#14					
	Qty/Hr	Base	Fringe	Burden	Tot/Hr	Total Hr
Laborer	1	\$20.88	\$14.33	\$7.30	\$42.51	\$42.51
Operator Group 3	1	\$30.89	\$8.00	\$8.07	\$46.96	\$46.96
Truck Driver	1	\$16.47	\$19.57	\$7.48	\$43.52	\$43.52
Asphalt Crew						
Operator Group 3	4	\$26.74	\$7.45	\$7.09	\$41.28	\$165.12
Laborer	1	\$20.88	\$14.33	\$7.30	\$42.51	\$42.51
Total						\$207.64
Earthwork Crew						
Operator Group 3	3	\$26.74	\$7.45	\$7.09	\$41.28	\$123.84
Laborer	1	\$20.88	\$14.33	\$7.30	\$42.51	\$42.51
Truck Driver	1	\$16.47	\$19.57	\$7.48	\$43.52	\$43.52
Total						\$209.87
Trenching Crew						
Operator	2	\$26.74	\$7.45	\$7.09	\$41.28	\$82.56
Laborer	1	\$20.88	\$14.33	\$7.30	\$42.51	\$42.51
Total						\$125.07
Electrical Crew						
Electrician	2	\$39.75	\$14.29	\$11.21	\$65.25	\$130.50
Operator Group 3	1	\$30.89	\$8.00	\$8.07	\$46.96	\$46.96
Total						\$177.46
Labor Burden Calculation						
SS	FUTA	SUTA		Training		TOTAL
6.20%	0.80%	State%	6.60%	Ave	0.00%	LABOR
Medicare	WC	State Cap	\$9,000	Rate	Other	BURDEN
1.45%	11.30%	Ave Salary	\$60,000	0.99%	0.00%	20.74%

EQUIPMENT RATES WORKSHEET							
Corps Of Engineers Equipment Website http://140.194.76.129/publications/eng-pamphlets/EP_1110-1-8/toc.html							
Equipment	Model #	Reference	Source	Rate	FOM	Qty	Total
Individual Equipment							
Wheel Loader	CAT 904B	L40CA032	Corps	\$14.62	inc	1	\$14.62 hr
Backhoe	CAT 446D	L50CA004	Corps	\$39.58	inc	1	\$39.58 hr
Asphalt Profiler	Terex PR-950	A40CW001	Corps	\$434.19	inc	1	\$434.19 hr
Pickup	1/2 Ton	T50XX001	Corps	\$10.86	inc	1	\$10.86 hr
Belly dump w/ Semi	40" MC 2000	T45MY004	Corps	\$6.30	inc	1	\$6.30 hr
Grader	CAT 143-H	G15CA008	Corps	\$64.67	inc	1	\$64.67 hr
Earthwork Equipment Crew							
Grader	CAT 143-H	G15CA008	Corps	\$64.67	inc	1	\$64.67 hr
Wheel Loader	CAT 904B	L40CA032	Corps	\$14.62	\$16.70	1	\$31.32 hr
Backhoe	CAT 446D	L50CA004	Corps	\$39.58	inc	1	\$39.58 hr
Water truck	4000 gal	250 HP	Blue	\$21.90	\$40.40	1	\$62.30 hr
Pickup	1/2 Ton	T50XX001	Corps	\$10.86	inc	1	\$10.86 hr
Total						208.73 hr	
Asphalt Equipment Crew							
Pickup	1/2 Ton	T50XX001	Corps	\$10.86	inc	1	\$10.86 hr
Asphalt Distributor	2000 gal	Truck Mounted	Blue	\$20.32	\$9.80	1	\$30.12 hr
Asphalt Paver	Titan 125	VB 30	Blue	\$117.93	\$55.40	1	\$173.33 hr
Roller, Pneumatic	Bomag BW24R	3F/3R	Blue	\$32.27	\$16.70	1	\$48.97 hr
Roller, Steel	CAT CS-64	84" Smooth	Blue	\$29.86	\$33.90	1	\$63.76 hr
Total						\$327.03 hr	

TOTAL DIRECT COST	
Labor, Materials, Equip, & Taxes	\$70,115
Check Number	\$70,115
Variance	\$0

GENERAL CONTRACTOR MARKUPS		
TESTING & INSPECTIONS		
Testing & Inspections	1.00%	\$701
SUBTOTAL	1.00%	\$701

INSURANCE		
Bond	2.00%	\$1,416
General Liability	0.00%	\$0
Design Liability	0.00%	\$0
SUBTOTAL	2.00%	\$1,416

MISCELLANEOUS		
Architectural Design Fees		
Other	0.00%	\$0
Other	0.00%	\$0
SUBTOTAL	0.00%	\$0

HOME OFFICE & PROFIT		
Home Office Overhead	10.00%	\$7,223
Profit	5.00%	\$3,612
SUBTOTAL	15.00%	\$10,835

TOTAL COST		
	18.0%	\$83,067
Check Number		\$83,067
Variance		\$0

GENERAL CLARIFICATIONS AND EXCLUSIONS

- No coordination costs with local utility company since this would have been part of the base bid.
- Priced with base contract handholes being used for new layout and aligned so no additional handholes are required and thus excluded.
- All ductbanks are priced as trenched formed.
- DP-1 Panel relocation is within same distance from raw water supply control panel as base contract documents and therefore no cost change is shown.
- Revenue meter is relocated to the interior of building with assumption the outdoor rated panel remains the same and therefore the price does not change.
- Existing line location measures or repairs (including irrigation) should have been part of the contractors base contract and therefore no additional costs are included.
- New ductbank locations are based on within 4' parallel of base contract ductbanks.
- Existing flagstone is priced to be removed and replaced for ductbank at monument line that has been deleted from contract. Flagstone is priced as ungrouted on 4" base course.
- Work does not impact critical path and therefore no additional cost for General Conditions required or included.
- All wire is excluded and by local utility company or others.
- New treaching to avoid any existing trees and be completed with new sod.
- No added costs for conduit and sumps at vaults are seen or priced.