



WINZLER & KELLY
CONSULTING ENGINEERS

TYPHOON DAMAGE COST ESTIMATE

Project: HALODA BUILDING

Date: January 2003

Location:

Client: National Park Service

<i>Item No.</i>	<i>Specs. Section</i>	<i>Item Description</i>	<i>Quantity</i>	<i>Unit</i>	<i>Unit Cost</i>	<i>Total Cost</i>
CIVIL/STRUCTURAL WORKS						
1		REPLACE DAMAGE PARKING LOT (60'x160')				0.00
a		CLEANUP AND DISPOSAL	1,067	SY	5.00	5,333.33
b		6" THICK BASE COURSE	1,067	SY	12.00	12,800.00
c		6" THICK CONCRETE PAVEMENT	1,067	SY	45.00	48,000.00
CIVIL SUB TOTAL COST						66,133.33
2		REPAIR CMU WALL ENCLOSURE (7'x20')				
a		CLEANUP/DISPOSAL	140	SF	5.00	700.00
b		8" CMU WALL	140	SF	10.00	1,400.00
c		PLASTERING	140	SF	2.00	280.00
d		PAINTING	280	SF	1.50	420.00
3		CRACK AND SPALLING REPAIR				
a		COLUMN CRACK REPAIR	20	LF	35.00	700.00
b		SPALLING REPAIR	200	SF	18.00	3,600.00
		CHIPPING/SANDBLAST RUSTED REBAR				
		EPOXY PRIMING OF REBAR				
		PLASTERING WITH STAPLE REINFORCEMENT				
4		REPAIR SECURITY GATE	1	EA	1,500.00	1,500.00
5		DRAINAGE SYSTEM REPAIR AND UPGRADE				
a		CLEANUP/DISPOSAL OF DEBRIS	1	LS	2,500.00	2,500.00
b		UPGRADE DRAINAGE SYSTEM	1	LS	15,000.00	15,000.00
6		CONSTRUCT SEAWALL (200'-250')				
a		FOUNDATION EXCAVATION	167	CY	20.00	3,340.00
b		CONCRETE FOUNDATION	111	CY	300.00	33,300.00
c		CONCRETE WALL	148	CY	400.00	59,200.00
d		BOULDERS FILL WITH CEMENT MORTAR	222	CY	250.00	55,500.00
STRUCTURAL SUB TOTAL COST						\$ 177,440.00
TOTAL COST						\$ 243,573.33

TYPHOON DAMAGE COST ESTIMATE

Project: HALODA BUILDING-ARCHITECTURAL

Date: January 2003

Location:

Client: National Park Service

Item No.	Specs. Section	Item Description	Quantity	Unit	Unit Cost	Total Cost
ARCHITECTURAL						
1		Remove exist. Paint/prep wall surfaces	24000	SF	1.00	24,000.00
2		Waterblasting/clean building.	1	LS	800.00	800.00
3		General celaning/removing debris	1	LS	1,000.00	1,000.00
4		Replace gate at basement	1	LS	2,000.00	2,000.00
5		Replace display casework	1	LS	50,000.00	50,000.00
6		Joint sealant	1	LS	500.00	500.00
7		Repalce weather strip	6	DR	50.00	300.00
8		Repalce exterior soffit ceiling	1200	SF	15.00	18,000.00
9		Replace 1st floor ceiling	4000	SF	3.00	12,000.00
10		Replace acoustical ceiling	2000	SF	1.20	2,400.00
11		Replace rubber base	1200	LF	1.30	1,560.00
12		Replace carpet	6000	SF	2.70	16,200.00
13		Painting-interior	12000	SF	0.45	5,400.00
14		Painting-exterior	12000	SF	0.50	6,000.00
15		Painting-misc.	1	LS	3,000.00	3,000.00
16		Replace exterior sign	1	LS	3,500.00	3,500.00
17		Replace canvas canopy	1	LS	8,000.00	8,000.00
ARCHITECTURAL TOTAL COST						\$ 154,660.00

TYPHOON DAMAGE COST ESTIMATE

Project: ELECTRICAL COST ESTIMATE

Date: January 2003

Location:

Client: National Park Service

Item No.	Specs. Section	Item Description	Quantity	Unit	Unit Cost	Total Cost
A		HALODA BUILDING-ELECTRICAL				
1		Interior feeder wiring	1	ls	3,500.00	3,500.00
2		Distribution panelboards	1	ls	7,500.00	7,500.00
3		Replace service entrance	1	ls	14,000.00	14,000.00
4		Emergency power system	1	ls	58,800.00	58,800.00
		SUB TOTAL COST				\$ 83,800.00
B		ASAN MAINTENANCE COMPLEX				
1		New trailer panel	1	ls	900.00	900.00
2		New trailer feeder	1	ls	1,250.00	1,250.00
3		Clean/Test/Repair light fixtures	1	ls	970.00	970.00
4		Clean/Test Security System	1	ls	1,300.00	1,300.00
		SUB TOTAL COST				\$ 4,420.00
c		ASAN POINT BEACH UNIT				
1		New flagpole monument lights	1	ls	1,200.00	1,200.00
2		Lighting feeder	1	ls	4,000.00	4,000.00
		SUBTOTAL COST				\$ 5,200.00
ELECTRICAL TOTAL COST						\$ 93,420.00

TYPHOON DAMAGE COST ESTIMATE

Project: MECHANICAL COST ESTIMATE

Date: January 2003

Location:

Client: National Park Service

Item No.	Specs. Section	Item Description	Quantity	Unit	Unit Cost	Total Cost
A		HALODA BUILDING-MECHANICAL				
1		Replace condensing units incl. Refrigerant piping	2	ea	32,660.00	65,320.00
2		Reconnect 4" downspouts	2	ea	110.00	220.00
3		Repalce toilet exhaust fans	1	ea	410.00	410.00
4		Replace exhaust registers	2	ea	66.00	132.00
5		Re-insulate ductwork	1,600	sf	2.10	3,360.00
		SUB TOTAL COST				\$ 69,442.00
B		ASAN MAINTENANCE COMPLEX				
1		Replace roof ventilators	2	ea	855.00	1,710.00
2		Reconnect trailer office plumbing	1	lot	220.00	220.00
		SUB TOTAL				\$ 1,930.00
MECHANICAL TOTAL COST						\$ 71,372.00

TYPHOON DAMAGE COST ESTIMATE

Project: ASAN POINT BEACH UNIT AND CS-ARCHITECTURAL **Date: January 2003**

Location: **Client: National Park Service**

<i>Item No.</i>	<i>Specs. Section</i>	<i>Item Description</i>	<i>Quantity</i>	<i>Unit</i>	<i>Unit Cost</i>	<i>Total Cost</i>
ARCHITECTURAL						
1		Remove exist. Paint/prep wall surface	4000	SF	1.00	4,000.00
2		Waterblasting/clean building	1	LS	200.00	200.00
3		General cleaning/removing debris	1	LS	100.00	100.00
4		Replace granite veneer	500	SF	50.00	25,000.00
5		Painting	4000	SF	0.50	2,000.00
6		painting-miscellaneous	1	LS	500.00	500.00
ARCHITECTURAL TOTAL COST						\$ 31,800.00

TYPHOON DAMAGE COST ESTIMATE

Project: ASAN MAINTENANCE COMPLEX-ARCHITECTURAL **Date: January 2003**

Location: **Client: National Park Service**

<i>Item No.</i>	<i>Specs. Section</i>	<i>Item Description</i>	<i>Quantity</i>	<i>Unit</i>	<i>Unit Cost</i>	<i>Total Cost</i>
ARCHITECTURAL						
1		Remove exist. Paint/prep wall surfaces	11000	SF	1.00	11,000.00
2		Waterblasting/clean building.	1	LS	800.00	800.00
3		General celaning/removing debris	1	LS	300.00	300.00
4		Repair glassblocks joint with sealant	250	SF	10.00	2,500.00
5		Repair wood mezzanine floor	1	LS	1,000.00	1,000.00
6		Repair roofing membrane	2500	SF	5.00	12,500.00
7		Repair flashing and coping	200	LS	20.00	4,000.00
8		Joint sealant	1	PR	500.00	500.00
9		Replace HM doors and hardware	2	EA	500.00	1,000.00
10		Repair/service roll-up service door	4	DR	500.00	2,000.00
11		Repalce weathyer strip	3	LF	50.00	150.00
12		Replace rubber base	200	SF	1.30	260.00
13		Carpet	300	SF	2.70	810.00
14		Painting-interior	6000	SF	0.45	2,700.00
15		Painting-exterior	5,000	ls	0.50	2,500.00
16		Painting-misc.	1	ls	3,000.00	3,000.00
ARCHITECTURAL TOTAL COST						\$ 45,020.00



WINZLER & KELLY
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TYPHOON DAMAGE COST ESTIMATE

Project: VEHICLE DAMAGE

Date: January 2003

Location:

Client: National Park Service

Item No.	Specs. Section	Item Description	Quantity	Unit	Unit Cost	Total Cost
		REPAIR COST				
1		WHITE FORD PASS VAN, SIDE DOOR WINDOW	2	EA	2,500.00	5,000.00
					1,500.00	
2		JOHN DEERE 970 TRACTOR, FRONT CHASIS COVER	2	EA	3,000.00	6,000.00
3		DUMP TRUCK HYDRAULIC TAIL GATE	1	EA	1,500.00	1,500.00
4		CASE 580 BACKHOE	1	LS		
	a	LEFT DOOR	1	EA	1,500.00	1,500.00
	b	RIGHT WINDOW	1	EA	700.00	700.00
5		JOHN DEERE 5400 TRACTOR MOWER LT SIDE CUTTER OUTRIGGER	1	EA	4,500.00	4,500.00
6		DODGE RAM 3500 FLATBED				
	a	HOOD AND ROOF PAINT STIPPED	1	LS	3,000.00	3,000.00
	b	DAMAGE TO LIFT GATE	1	LS	5000	\$ 5,000.00
Grand Total						\$ 27,200.00



WINZLER & KELLY
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TYPHOON DAMAGE COST ESTIMATE

Project: FONTE PLATEAU

Date: January 2003

Location:

Client: National Park Service

<i>Item No.</i>	<i>Specs. Section</i>	<i>Item Description</i>	<i>Quantity</i>	<i>Unit</i>	<i>Unit Cost</i>	<i>Total Cost</i>
CIVIL/STRUCTURAL WORKS						
1		ADD BOLLARDS	10	EA	500.00	5,000.00
2		ADD WHEEL STOPS	20	EA	50.00	1,000.00
3		PAVE PARKING AREA (60'x100')	1	LS	2,000.00	2,000.00
	a	6" THICK BASE COURSE	222	SY	12.00	2,664.00
	b	6" THICK PCC PAVEMENT	222	SY	45.00	9,990.00
4		CLEAN AND PAINT BUNKER	1	LS	5,000.00	5,000.00
Grand Total						\$ 25,654.00



WINZLER & KELLY
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TYPHOON DAMAGE COST ESTIMATE

Project: APACA POINT

Date: January 2003

Location:

Client: National Park Service

<i>Item No.</i>	<i>Specs. Section</i>	<i>Item Description</i>	<i>Quantity</i>	<i>Unit</i>	<i>Unit Cost</i>	<i>Total Cost</i>
CIVIL/STRUCTURAL WORKS						
1		DEBRIS CLEANUP AND DISPOSAL	1	LS	5,000.00	5,000.00
2		REPLACE PICNIC BENCH AND SHADE				
	a	REPLACE WOOD BENCH	1	LS	1,500.00	1,500.00
	b	REPLACE WOODEN STRUCTURE SHADE	1	LS	5,000.00	5,000.00
3		UPGRADE DRAINAGE DITCH	1	LS	5,000.00	5,000.00
4		REPAIR/REPLACE METAL SIGN				
	a	REPAIR METAL SIGN 36"X60")	1	EA	800.00	800.00
	b	REPLACE METAL SIGN	1	EA	2,400.00	2,400.00
						0.00
5		REPAINT CONCRETE BOLLARDS	1	LS	2,000.00	2,000.00
	a	PRESSURE WASHER (surfaces: slabs, tables, etc.)	1	day	150.00	150.00
Grand Total						\$ 21,850.00



TYPHOON DAMAGE COST ESTIMATE

Project: ASAN POINT BEACH UNIT

Date: January 2003

Location:

Client: National Park Service

Item No.	Specs. Section	Item Description	Quantity	Unit	Unit Cost	Total Cost
CIVIL/STRUCTURAL WORKS						
1		REPLACE ENTRANCE GATE (3'x20')	1	EA	1,200.00	1,200.00
2		RESTORE BOMB ON CONC. PEDESTAL	1	EA	1,500.00	1,500.00
3		RESTORE PCC SIDEWALK PAVEMENT (12'x30')	360	SF	7.00	2,520.00
4		REPLACE AC PAVEMENT PARKING LOT				
	a	CLEANUP AND DISPOSAL	1	LS	3,500.00	3,500.00
	b	6" THICK BASE COURSE	6,910	SY	12.00	82,920.00
	c	6" THICK PCC PAVEMENT	6,910	SY	45.00	310,950.00
	d	RESTORE CONC. WHEEL STOP	50	EA	50.00	2,500.00
	e	PAVEMENT MARKINGS	1	LS	1,200.00	1,200.00
	f	PAINT BOLLARDS	200	EA		
5		REPLACE WALKING PATHWAY				
	a	CLEANUP AND DISPOSAL	1	LS	1,500.00	1,500.00
	b	6" THICK BASE COURSE	4,000	SF	1.50	6,000.00
	c	4" THICK PCC WALKWAY	4,000	SF	7.00	28,000.00
						0.00
6		REPAIR PARK FURNITURES				0.00
	a	BBQ PIT	5	EA	500.00	2,500.00
	b	TABLE S	4	EA	500.00	2,000.00
	c	BENCHES	4	EA	750.00	3,000.00
	d	SIGN 2'x2'	2	EA	700.00	1,400.00
		SIGN 4'x6'	2	EA	1,500.00	3,000.00
						0.00
7		REPLACE COCONUT TREES	200	EA	200.00	40,000.00
8		RESTORE EMBANKMENT WITH IMPORTED FILL	1,480	CY	28.00	41,440.00
9		REVTMENT RESTORATION	555	CY	50.00	27,750.00
10		REPAINT CONCRETE BOLLARDS	400	EA	25	10,000.00
11		RENTAL EQUIPMENT FOR CLEANUP				
	a	BOBCAT	3	MO	3000	9,000.00
	b	OPERATOR	3	MO	1950	5,850.00
	c	BACKHOE REPAIR	1	EA	600	600.00
	d	OPERATOR	30	DAY	50	1,500.00
	e	DUMP TRUCK	30	DAY	50	1,500.00

Grand Total

\$ 591,330.00

