Date	HONOKOWAI BEACH PARK		Survey Dates				GPS					
first used	VHBP		9/4/95	2/19/96	8/12/96	1/9/97	7/7/97	1/13/98	7/8/98	1/13/99	6/28/99	3/12/00
9/4/95	RP #1 **	PK on telephone pole	RP1	RP1/BRP	BRP	BRP	BRP	BRP	BRP	BRP	BRP	BRP
9/4/95	RP #2	PK on palm tree	RP2	RP2/FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP
9/4/95	RP #3	chip on BBQ pit	RP3	RP3/SRP1	SRP	SRP	SRP/GPS1	SRP.BBQ	SRP.BBQ	SRP	SRP	-
9/4/95	RP #4 *	top of fire hydrant	RP4	RP4/SRP2	-	-	GPS2	GPS	GPS	-	-	SRP
7/8/98	RP #5	PK on palm tree	-	-	-	-	-	-	*SRP	-	-	-
	Start of Line		mauka.rd	FPR/RP2	lndwd.curb	BRP/RP1	swd.curb	swd.rd	base.BRP	parking lot	-	FRP
	bearing		290°	286°	290°	290°	290°	297°	295°	-	-	-

* = new PK nail or other marker

DIRECTIONS:	Keep going S on Lower Honoapiilani Road from VNPL; In ~3600 block, turn R into Beach Park after resorts.
SET-UP:	between two trees at beach scarp
LINE-UP	palm and telephone pole
HOR. REF.	BRP
RP#1	PK nail 1.5ft up makai side of Telephone pole #174 (1st pole S of Kaanapali Congregational Church), landward side of pkg. lot
RP#2	PK on flag at dirt level on S side of northernmost palm of 3 trees, 7m S of large tree
RP#3	Center of etched "x" divot, 3cm landward of NW corner of concrete base of BBQ; GPS1=GCP MM5A on 7/7/97
RP#4	Top/center of fire hydrant 3.5m north of telephone pole #172; GPS2=HBP1
RP#5	PK nail on flag ~1m up the seaward side of the RP2 palm tree
GPS1	MM5A, GCP Point, RP3, SRP at BBQ pit base (7/97)
GPS2	HBP2, RP4 top of fire hydrant (7/7/97)
NOTES:	Be careful when setting up the Geodimeter; make sure that trees aren't blocking your view of any part of the line.
7/97	GCP GPS Survey
7/7/97	GPS Survey

GPS Positions	Latitude	Longitude	Elevation (meters above local tidal datum)
MM5A	-156.686234	20.954321	1.44
HBP2	-156.686203	20.954000	1.952

There is a 45 cm discrepancy between GPS vs. EDM calculated elevations at MM5A and HBP2.
HBP2 was chosen because of its higher order (mm vs. cm) of vertical resolution.

*Primary GPS for elevation control: HBP2/RP4 = 1.952
**Primary reference point: BRP/RP1 = 1.785