

O MPU - Makapu'u Beach Park

Date first used	MAKAPU'U BEACH PARK		Survey Dates									
	OMPU 1-1		8/13/94	1/26/95	9/16/95	3/5/96	8/25/96	3/13/97	8/5/97	1/22/98	7/28/98	8/5/99
8/13/94	RP#1	Base of rusted pole	RP#1	-	RP5	-	-	-	-	LOST	-	-
8/13/94	RP#2	Palm near bathhouse	RP#2	-	-	-	-	-	-	-	-	-
8/13/94	RP#3	Rock in front of lifeguard tower	RP#3	RP3	RP4	-	-	SRP	SRP	SRP	SRP	-
8/13/94	RP#4	Telephone pole	RP#4	RP5	RP2	RP3	SRP	-	-	-	-	-
8/13/94	RP#5 **	Rock on road	RP#5	RP4	RP1	RP2	BRP	BRP	BRP	BRP	BRP	???
8/13/94	RP#6	Survey marker by viaduct	RP#6	-	-	-	-	-	-	-	-	-
8/13/94	RP#7	Painted "X"	-	-	RP7	-	-	-	-	-	-	-
1/26/95	RP#8	mark on swd. side of Hwy	-	RP9	-	-	-	-	-	-	-	-
9/16/95	RP#9	Bush	-	-	RP3	RP1	FRP	FRP	FRP.old*	FRP*	FRP	???
8/5/97	RP#10	old nail on small tree at base of dur	-	-	-	-	-	-	FRP.new	-	-	-
	LINE #		A	A	B	B	B	B	B	B	B	
	Start of Line		DUNE	DUNE	swd.rd	swd.rd	swd.rd	swd.rd	DUNE	swd.rd	BRP	AT.FRP
	bearing		42°	-	-	45°	-	40°	49°	-	53°	

\* = new PK nail or other marker

**LOC:** South end of Makapuu Beach Park located along Kalaniana'ole Hwy.

**LINE-UP:** Line passes through large lava boulder (closest to viaduct) on seaward side of Hwy. and the bottom-most limb of a naupaka bush near point in north pointing finger of vegetation on dune face, below dune terrace.

**RP#1** Nail in seaward side of concrete base of warning sign by rusted pole.

**RP#2** Nail in beachmost palm between rusted pole and restroom.

**RP#3** little silver ring left over from a Nail in top, northwest edge of black rock outcrop in front of (north of) lifeguard station about mid-beach.

**RP#4** North facing nail 1m up telephone pole (#25) immediately north of BRP and 2nd from viaduct.

**RP#5** Rusted nail on seaward side of 1st large lava rock north of viaduct on SWD side of guardrail on SWD side of HWY.

**RP#6** Survey mark at north end of viaduct by telephone pole.

**RP#7** Painted yellow circle with "X" by viaduct.

**RP#8** some sort of mark on the seaward side of the Hwy, 2m landward of BRP on rock.

**RP#9** PK nail embedded in seaward-pointing bottom branch of Naupaka bush in vegetation outcrop at base of steep hill, in bush 2nd S from N end.

**RP#10** Rusted nail sticking out of tree at base of dune cliff, before dune terrace, 2.7 m off line to N

**GPS1** MPU1 = RP5; PK nail on top of SWD rock by side of rad in pullout. 1st rock north of viaduct coming down hill; 3rd boulder south of TP and speed limit sign; south of TP #25; BRP

**GPS2** MPU2 = RP7; Center of divot, 8 paces south of of s. end of guard rail., road pull out, on top of abutment wall. There are 2 divots one foot from each other. It is the north one closest to the pullout.

**Notes:**

2/29/96 GPS Survey. MPU1, MPU2  
OMPU not surveyed Winter 1999

\* This site has not been corrected to the local tidal datum  
\*\*Primary reference point; RP5/BRP/GPS1 = 0

Preliminary GPS positions (not adjusted)

	Longitude	Latitude	Elevation (meters)
MPU1	no positions calculated		
MPU2	no positions calculated		