1 2 2	Amend Section 613 - Centerline and Reference Survey Monuments to read as follows:		
3 4	"SECTION 613 - CENTERLINE AND REFERENCE SURVEY MONUMENTS		
5 6 7 8	613.01 Description. This section describes constructing, adjusting, and reconstructing centerline and reference survey monuments.		
9	613.02 Materials.		
0 1	Concrete, Class A 601		
2 3 4	Reinforcing Steel 709.01		
5.6	Adhesives for Pavement Markers 712.41		
.7 .8	Structural Steel 713.01		
9 20 21	Use brass plug for marking centerline point. Burr or feather plug for anchorage in concrete.		
22	Use 2-inch, gage no. 9 concrete nails for pipe sleeve and plate.		
24	613.03 Construction Requirements.		
25 26 27 28 29 30 31 32	(A) Initial Installation. Cut holes in completed medians and shoulders. Cut holes to required depth, or to solid rock, whichever is less. Fill hole with concrete. Place the 4 #4 x 20-inch bars as shown on the plans when curing the concrete. Install brass plug in required position after concrete has sufficiently set. After curing concrete at least 7 days, restore edge of pavement surrounding monument to the original condition.		
34 35 36	(B) First Pavement Resurfacing Adjustment. Adjust centerline and reference survey monuments before the paving operations.		
37 38	Cover bottom of plate and sleeve assembly with adhesive and press assembly into place over the existing monument.		
39 40 41 42 43 44 45	Align assembly so that the monument pin is in center of the sleeve. Maintain this alignment and fasten plate to existing concrete by driving concrete nails through predrilled holes. Drive nails until head of each nail is flush with plate. Complete these operations within five minutes of mixing the adhesive.		

 (C) Second and Third Pavement Resurfacing Adjustments. Adjust centerline and reference survey monuments before paving operations.

Epoxy contact surfaces between sleeves and weld entire circumference. Fill sleeve with newspaper or similar material to prevent existing monument from being affected by tack coat or paving operations. After laying pavement but before compaction, remove pavement material directly above sleeve, and remove newspaper or similar material from sleeve. After compaction of pavement, clean area enclosed by sleeve so pin and concrete are clearly visible.

- **(D)** Reconstruction. Reference existing monument with cross nails after laying and compacting new pavement. Construct new monument.
- **(E)** Reference Survey Data. Provide the following reference survey data to the Engineer for all new monuments by qualified personnel under the direct supervision of a surveyor licensed in the State of Hawaii with experience in construction surveying of the work:
 - (1) Stationing and offset
 - (2) Local trig station north-south coordinates.

The Engineer may check the Contractor's survey work. The Engineer will inform the Contractor of the results of these checks. Such checks shall not relieve the Contractor of its responsibility for the accuracy of the layout work.

Furnish personnel, engineering equipment and supplies, transportation, and material necessary to complete the survey work.

613.04 Method of Measurement.

- (A) New Centerline and Reference Survey Monument. New centerline and reference survey monuments will be paid on a lump sum basis. Measurement for payment will not apply.
- **(B)** Reconstructing Centerline and Reference Survey Monument. Reconstructing centerline and reference survey monuments will be paid on a lump sum basis. Measurement for payment will not apply.
- (C) Adjusting Centerline and Reference Survey Monument. The Engineer will measure adjusting centerline and reference survey monument per each.

93 94	613.05	Basis of Payment.	
9 4 95	(A)	New Centerline and Reference Survey Monument. The	
96	` '	ineer will pay for the accepted new centerline and reference survey	
97	_	ument on a contract lump sum basis. Payment will be full	
98	compensation for the work prescribed in this section and the contract		
99		iments.	
.00	400.		
01	(B)	Reconstructing Centerline and Reference Survey Monument.	
.02	` ,	Engineer will pay for the accepted reconstructing centerline and	
.03		rence survey monument on a contract lump sum basis. Payment will	
.04		full compensation for the work prescribed in this section and the	
05		ract documents.	
.06			
.07	(C)	Adjusting Centerline and Reference Survey Monument. The	
.08	` '	ineer will pay for the accepted adjusting centerline and reference	
09		ey monument at the contract unit price per each. Payment will be full	
10		pensation for the work prescribed in this section and the contract	
11			
.12			
13	The	Engineer will pay for the following pay item when included in the	
14	proposal schedule:		
15			
16		Pay Item Pay Unit	
17	· · · · · ·		
18	Centerline	and Reference Survey Monuments Lump Sum	
19	<u> </u>		
.20	Reconstruc	cting Centerline and Reference Survey Monuments Lump Sum	
21	A alicentia a C	Contonline and Defenses Common Managements	
.22	Adjusting C	Centerline and Reference Survey Monuments Each	
.23	The		
24	THE	Engineer will pay for:	
.25 .26	(4)	80 percent of the contract hid price upon completion of adjusting	
27		80 percent of the contract bid price upon completion of adjusting centerline and reference survey monument;	
.28	uic (sentenine and reference survey monument,	
29	(2)	20 percent of the contract bid price upon completion of providing	
30	· · ·	rence survey data to the Engineer for all new monuments."	
31			
32			
33			
34			
35		en la participation de la companya	
36		END OF SECTION 613	