

1 Make this Section a part of the Standard Specifications:
2

3 **SECTION 684 – SPOT SPEED SYSTEM** 4

5 **684.01 Description.** This work includes furnishing labor, materials, tools,
6 machinery, and equipment necessary to relocate the existing spot speed
7 devices onto new street light poles complete in place according to the contract.
8

9 **684.02 Materials.** The spot speed detection system includes:
10

11 (A) The spot speed detection assembly, including sensor, solar
12 panels, batteries, modem, antennas, and mounting brackets. The
13 contractor shall give the Engineer at least 10 working days' notice prior
14 to starting relocation work.
15

16 (B) All costs for securing, packaging, wrapping, loading, where
17 applicable, transporting and off-loading materials shall be borne by the
18 Contractor.
19

20 (C) The Contractor shall replace any spot speed detection assembly
21 damaged during relocation work at no cost to the State.
22

23 (D) The Contractor shall coordinate work and arranging for inspection
24 of work with the Engineer and other agencies as required.
25

26 (E) The Contractor shall secure the operator/manufacture's services
27 to assist with alignment of the relocated spot speed sensor.
28

29 **684.03 Construction Requirements.**
30

31 (A) **Relocation.**
32

33 Confirm all locations with the Engineer prior to relocation.
34

35 Work requires the relocation of specialized equipment and systems.
36 The Contractor is required to coordinate all work closely with the
37 Engineer and operator/manufacture. The Contractor shall secure the
38 operator/manufacture's services to assist with aligning, configuration
39 and testing of the relocated the spot speed assemblies.
40

41 Devices shall be friction or tension mounted. Care will be taken so that
42 the surface of the poles are not pierced or damaged during the
43 relocation.
44

45 The spot speed detection system collects valuable data used to the
46 monitor highway conditions. The Contractor shall insure that the devices
47 are relocated and reinstalled in a timely matter. A single device may be
48 relocated one at a time and shall be fully operational before another

49 device is removed. Contractor will coordinate field relocation activity and
50 communicate progress to HDOT on a bi-weekly basis.

51
52 Existing detection sites are as follows:
53

Device	Route	Description
1, 2, 3	H-201	Street light pole in the median just east of Ala Kapuna overpass (Sheet E-6).
4, 5	H-201	Street light pole in the median at the Ala Aolani underpass (Sheet E-9).

54
55 **684.04 Method of Measurement.** The Engineer will measure the
56 relocation of the spot speed detection assembly, which includes the relocation
57 of the spot speed sensor, solar panel, and pole mount adapter, per each,
58 complete-in-place.
59

60 **684.05 Basis of Payment.** The Engineer will pay for the accepted
61 relocation of the spot speed detection assembly devices. The price includes
62 full compensation for relocating the traffic detection devices, solar panel and
63 pole mount adapter; temporary traffic control, furnishing, assembling, wiring,
64 and housing; testing; coordinating work with manufacturer; and furnishing
65 equipment's, tools, labor, materials and other incidentals necessary to
66 complete the work.
67

68 The Engineer will consider full compensation for additional materials and
69 labor not specifically shown or called for that are necessary to complete the
70 work incidental to the various contract items in the proposal.
71

72 Engineer will pay for following pay items when included in proposal
73 schedule:
74

Pay Item	Pay Unit
Relocation Spot Speed Detection Assembly	Each"

78
79 **END OF SECTION 684**