

Device Cost

ID	DBCode	DeviceType	Life Cycle	Unit	Construction	O&M Costs	Decription
1	CCTV	CCTV	10	each	\$48,000.00	\$2,350.00	Installation including CCTV camera with PTZ control, CODEC mounting, camera tower and mounting and utilities
2	DMS	DMS1	10	each	\$272,500.00	\$11,600.00	Total costs include structure and utilities for overhead structure spanning one direction of travel (six lane facility assumed)
3		DMS2	10	each	\$372,500.00	\$13,600.00	Total costs include structure and utilities for overhead structure spanning one direction of travel (six lane facility assumed)
4		VMS	10	each	\$272,500.00	\$11,600.00	Used DMS 1
5		AVMS	10	each	\$272,500.00	\$11,600.00	Used DMS 1
6	DTBL	DTBL	10	each	\$75,000.00	\$4,000.00	Based on FHWA Unit Costs Database for flashing beacon sign
7	LD	IL/LD	10	each	\$1,850.00	\$162.50	Cost per loop - Based on FHWA Unit Costs Database.

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8		TTMS	10	each	\$18,000.00	\$1,000.00	Guess - hold for Harshad's response
9	RTMS	RTMS	10	each	\$6,000.00	\$400.00	Based on FHWA Unit Costs Database
10		CC	10	each	\$1,850.00	\$162.50	Used IL/LD
11		VD	5	each	\$40,785.45	\$300.00	Capital cost estimate based on Amtech probe sensors, data collection, processing and ISP connection per site from I-4 corridor study. O&M costs estimated from the FHWA Unit Cost Database
12	VIDS	VIDS	10	each	\$30,000.00	\$400.00	Based on FHWA Unit Costs Database
13		VID	10	each	\$30,000.00	\$400.00	License plate reader system with same price as VIDS
14	Call Boxes	CCB	10	each	\$4,000.00	\$50.00	Assume all new boxes are cellular.

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15		MCB	10	each	\$7,500.00	\$150.00	
16	ESS	AIS/ESS			\$20,000.00	\$1,000.00	Basis from D7 Plan
17	RWIS	RWIS	10	each	\$52,000.00	\$3,500.00	Environmental sensor consisting of pavement temperature sensor, subsurface temperature sensor, precipitation sensor, wind sensor, air temperature and humidity sensor and visibility sensor
18	RMS	RMS	5	each	\$56,000.00	\$3,500.00	Per meter (on-ramp) basic assembly from FHWA (50k), plus loop detectors(2 @ 6k)
19	HAR	HAR	10	each	\$32,000.00	\$1,000.00	
20	Fiber	FON	20	each	\$116,000.00	\$1,000.00	Unit cost per mile of 72 strand, SMF, redundant fiber on opposite side of roadway, 1/2 mile spacing on pull boxes, within right-of-way, Inside plant every 2 miles based on SONET nodes with multiplexers, support equipments, utilities and installation
21		TOWER	20	each	\$150,000.00	\$1,700.00	Microwave system tower, unit cost from FDOT needed.

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22	AL	AL	20	each	\$70,000.00	\$400.00	Standard twisted copper wire installation.
23	HUB	HUB	10	each	\$107,500.00	\$1,000.00	Based on SONET node with multiplexer, support equipment, utilities and installation per site, typical spacing 2 miles
24		HUR	20	each	\$300,000.00	\$6,000.00	Per on-ramp along corridors with one-way operations
25		VWIM	10	each	\$344,000.00	\$109,750.00	Per location per direction, includes electronic clearance, overheight and overwidth detection
26	Detector	Detector Area	10	each	\$1,850.00	\$162.50	Same as loop detector.
27	HAR	HAR Beacon	10	each	\$75,000.00	\$4,000.00	Based on FHWA Unit Costs Database for flashing beacon sign