TABLE 1: COST ASSUMPTIONS FOR ITS & NON-ITS DEVICES

Technology	Device	Installation (Initial Cost)	Operation (Yearly Cost)	Maintenance (Yearly Cost)	Replacement (Yearly Cost)	Cost Assumption Source
	ATR Station Upgrade	\$10,000	\$300	\$300		WisDOT
Detection	Mainline Detector Station	\$25,000	\$400	\$400		SRF ITS
Detection	Service Interchange Detector Station	\$79,000	\$1,250	\$1,250		SRF ITS
	System Interchange Detector Station	\$153,000	\$2,450	\$2,450		SRF ITS
Surveillance	CCTV Camera	\$40,000	\$1,000	\$1,300		TOIP Appendix A, SRF ITS
Traffic Flow	Ramp Gate	\$19,000		\$2,000		WisDOT, SRF Transportation
Management	Ramp Meter	\$50,000	\$1,000	\$1,400		USDOT, SRF ITS
Traffic Signal	Interchange Upgrade	Variable	Variable	Variable	Variable	TOIP Appendix C
Systems	Corridor Upgrade	Variable	Variable	Variable	Variable	TOIP Appendix C
	Fiber Optic Line (number of miles) ¹	\$54,000				SRF ITS
Communication	T1 Line	\$1,200	\$8,000	\$200		TOIP Appendix A
	Cellular Modem	\$1,100	\$480	\$60		TOIP Appendix A
	Overhead DMS	\$173,000	\$9,850	\$9,850		SRF ITS
Traveler Information	Roadside DMS	\$83,000	\$4,700	\$4,700		TOIP Appendix E, WisDOT, SRF ITS
	PCMS pad	\$7,000				WisDOT
Non-ITS Devices	Crash Investigation Site	\$90,000				WisDOT
TAGIFTI O DEVICES	Law Enforcement Pad	\$1,000				WisDOT
1 Fiber optic line	assumes an armored, 72-strand, single-mode	trunk fiber optic	cable direct-bur	y installed, inclu	ding handholes &	k splice vaults

TABLE 2A: COST ESTIMATE SUMMARY FOR ALL STUDIED CORRIDORS -- ITS DEVICES ONLY

	Dete	ection	Survei	llance	Traffic	Flow	Traffic	Signal	Travel	er Info	Device Com	munications	All ITS	Devices
Corridor	Installation	O & M	Installation	O & M	Installation	O & M	Installation	O & M	Installation	O & M	Installation	O & M	Installation	O & M
Badger State	\$2,826,000	\$91,400	\$2,600,000	\$149,500	\$3,547,000	\$238,800	\$3,603,750	\$460,190	\$2,395,000	\$262,800	\$1,681,200	\$49,200	\$16,652,950	\$1,251,890
Capitol	\$2,393,000	\$79,800	\$2,280,000	\$131,100	\$3,540,000	\$235,200	\$2,404,000	\$283,400	\$2,464,000	\$274,000	\$335,400	\$36,040	\$13,416,400	\$1,039,540
Fox Valley	\$4,014,000	\$132,800	\$2,600,000	\$149,500	\$4,300,000	\$369,600	\$2,961,900	\$312,770	\$2,886,000	\$324,600	\$3,740,400	\$98,400	\$20,502,300	\$1,387,670
South Central Connection	\$1,463,000	\$47,000	\$760,000	\$43,700	\$494,000	\$52,000	\$662,000	\$66,650	\$381,000	\$39,400	\$2,433,600	\$24,600	\$6,193,600	\$273,350
Hiawatha	\$1,576,000	\$52,900	\$1,520,000	\$87,400	\$2,928,000	\$208,000	\$2,759,800	\$317,610	\$1,640,000	\$186,700	\$108,000	\$0	\$10,531,800	\$852,610
Chippewa Valley	\$905,000	\$29,300	\$960,000	\$55,200	\$741,000	\$78,000	\$6,000	\$700	\$1,100,000	\$124,000	\$15,600	\$106,600	\$3,727,600	\$393,800
Wisconsin River	\$597,000	\$21,200	\$440,000	\$25,300	\$931,000	\$98,000	\$377,000	\$37,400	\$346,000	\$37,600	\$434,400	\$16,400	\$3,125,400	\$235,900
Wild Goose	\$737,000	\$23,700	\$360,000	\$20,700	\$0	\$0	\$1,561,000	\$234,150	\$692,000	\$78,800	\$0	\$0	\$3,350,000	\$357,350
Peace Memorial	\$712,000	\$24,300	\$840,000	\$48,300	\$950,000	\$100,000	\$0	\$0	\$927,000	\$104,300	\$0	\$0	\$3,429,000	\$276,900
Cornish Heritage	\$155,000	\$5,800	\$200,000	\$11,500	\$0	\$0	\$717,000	\$105,150	\$7,000	\$0	\$0	\$0	\$1,079,000	\$122,450
Titletown	\$1,303,000	\$43,800	\$1,480,000	\$85,100	\$3,734,000	\$272,800	\$2,350,600	\$269,130	\$900,000	\$98,500	\$324,000	\$0	\$10,091,600	\$769,330
Southern Tier	\$189,000	\$6,300	\$240,000	\$13,800	\$342,000	\$36,000	\$1,357,200	\$167,960	\$0	\$0	\$381,400	\$9,280	\$2,509,600	\$233,340
Glacial Plains	\$415,000	\$14,400	\$560,000	\$32,200	\$1,508,000	\$107,200	\$305,000	\$30,850	\$519,000	\$59,100	\$162,000	\$0	\$3,469,000	\$243,750
Coulee Country	\$534,000	\$17,600	\$240,000	\$13,800	\$475,000	\$50,000	\$494,800	\$59,040	\$166,000	\$18,800	\$0	\$0	\$1,909,800	\$159,240
TOTAL OF ALL CORRIDORS	\$17,819,000	\$590,300	\$15,080,000	\$867,100	\$23,490,000	\$1,845,600	\$19,560,050	\$2,345,000	\$14,423,000	\$1,608,600	\$9,616,000	\$340,520	\$99,988,050	\$7,597,120

TABLE 2B: COST ESTIMATE SUMMARY FOR ALL STUDIED CORRIDORS -- COMMUNICATIONS AND NON-ITS DEVICES

	Device & Net	twork Comm.	Device Com	munications	Network Con	nmunications	Non-ITS Device	es (CIS & LEP)	Network Com	m. & Non-ITS
Corridor	Installation	O & M	Installation	O & M	Installation	O & M	Installation	O & M	Installation	O & M
Badger State	\$3,693,200	\$49,200	\$1,681,200	\$49,200	\$2,012,000	\$0	\$1,635,000	\$0	\$3,647,000	\$0
Capitol	\$835,400	\$36,040	\$335,400	\$36,040	\$500,000	\$0	\$4,162,000	\$0	\$4,662,000	\$0
Fox Valley	\$6,562,400	\$98,400	\$3,740,400	\$98,400	\$2,822,000	\$0	\$6,975,000	\$0	\$9,797,000	\$0
South Central Connection	\$2,933,600	\$24,600	\$2,433,600	\$24,600	\$500,000	\$0	\$906,000	\$0	\$1,406,000	\$0
Hiawatha	\$608,000	\$0	\$108,000	\$0	\$500,000	\$0	\$5,068,000	\$0	\$5,568,000	\$0
Chippewa Valley	\$515,600	\$106,600	\$15,600	\$106,600	\$500,000	\$0	\$1,623,000	\$0	\$2,123,000	\$0
Wisconsin River	\$12,584,400	\$16,400	\$434,400	\$16,400	\$12,150,000	\$0	\$1,086,000	\$0	\$13,236,000	\$0
Wild Goose	\$0	\$0	\$0	\$0	\$0	\$0	\$905,000	\$0	\$905,000	\$0
Peace Memorial	\$8,316,000	\$0	\$0	\$0	\$8,316,000	\$0	\$1,260,000	\$0	\$9,576,000	\$0
Cornish Heritage	\$4,590,000	\$0	\$0	\$0	\$4,590,000	\$0	\$540,000	\$0	\$5,130,000	\$0
Titletown	\$324,000	\$0	\$324,000	\$0	\$0	\$0	\$3,792,000	\$0	\$3,792,000	\$0
Southern Tier	\$1,785,400	\$9,280	\$381,400	\$9,280	\$1,404,000	\$0	\$0	\$0	\$1,404,000	\$0
Glacial Plains	\$1,782,000	\$0	\$162,000	\$0	\$1,620,000	\$0	\$1,448,000	\$0	\$3,068,000	\$0
Coulee Country	\$2,430,000	\$0	\$0	\$0	\$2,430,000	\$0	\$0	\$0	\$2,430,000	\$0
OTHER INFRASTRUCTURE	\$3,000,000	\$0	\$0	\$0	\$3,000,000	\$0	\$0	\$0	\$3,000,000	\$0
TOTAL OF ALL CORRIDORS	\$49,960,000	\$340,520	\$9,616,000	\$340,520	\$40,344,000	\$0	\$29,400,000	\$0	\$69,744,000	\$0

Table 3: Badger State Corridor - Cost Summary Table

Region	Highway	Segment Start	Segment End (but does not include)	Segment Length (miles)	Device Type	Assumptions	Unit	Estimated Quantity	Estimated Total Capital Cost		Estimated Network Communications Cost		Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)	WisDOT Projects in Corridor Segment	Device Deployment Status
NW	IH 94	MM 59	MM 70	11	Detection	SEE CHIPPEWA VALLEY CORRIDOR												
		(STH 312)	(USH 53)		Surveillance Traffic Flow Management	FOR DEVICE INFORMATION		_				1		-			-	
					Communications			1				1					1	
NW, SW	IH 94	MM 70	MM 143	76	Detection	Mainline detector station	Per site	1	\$25,000	\$0	\$0	\$0	\$400	\$400	\$800	\$0		
		(USH 53)	(STH 21)			Service interchange detector station ATR station upgrade	Per site Per site	1	\$79,000 \$10,000	\$0 \$0	\$0 \$0	\$0 \$0	\$1,250 \$300	\$1,250 \$300	\$2,500 \$600	\$0 \$0	-	
					Surveillance	CCTV camera	Per camera	9	\$360,000	\$0	\$0 \$0	\$0	\$9,000	\$11,700	\$20,700	\$0	1	
					Traffic Flow Management	Ramp gates	Per gate	20	\$380,000	\$0	\$0	\$0	\$0	\$40,000	\$40,000	\$0]	
					Traveler Information	Roadside DMS PCMS pad	Per sign	5	\$415,000 \$14,000	\$0 \$0	\$0 \$0	\$0 \$0	\$23,500 \$0	\$23,500 \$0	\$47,000 \$0	\$0 \$0		
					Communications	Fiber optic cable (operations & maintenance only)	Per pad		\$14,000	⊅ 0	Φ0	Φ0	\$0	Φ0	Φ0	Φ0	1	
SW	IH 94	MM 143	MM 45	3	Detection	Service interchange detector station	Per site	2	\$158,000	\$0	\$0	\$0	\$2,500	\$2,500	\$5,000	\$0		
		(STH 21)	(IH 90)		Surveillance	CCTV camera	Per camera	2	\$80,000	\$0	\$0	\$0	\$2,000	\$2,600	\$4,600	\$0	4	
					Traffic Flow Management Communications	Ramp gates Fiber optic cable (operations & maintenance only)	Per gate	4	\$76,000	\$0	\$0	\$0	\$0	\$8,000	\$8,000 \$0	\$0	1	
SW	IH 90/94	MM 45	MM 92	47	Detection	Mainline detector station	Per site	8	\$200,000	\$0	\$0	\$0	\$3,200	\$3,200	\$6,400	\$0		
		(IH 90)	(USH 12)			Service interchange detector station	Per site	1	\$79,000	\$0	\$0	\$0	\$1,250	\$1,250	\$2,500	\$0		
					Surveillance	ATR station upgrade CCTV camera	Per site Per camera	9	\$10,000 \$360,000	\$0 \$0	\$0 \$0	\$0 \$0	\$300 \$9,000	\$300 \$11,700	\$600 \$20,700	\$0 \$0	-	
					Traffic Flow Management	Ramp gates	Per gate	16	\$304,000	\$0	\$0 \$0	\$0	\$9,000	\$32,000	\$32,000	\$0	1	
					Traffic Signal Systems	Interchange termini upgrade	Per site	2	\$650,000	\$0	\$0	\$0	\$16,200	\$16,200	\$32,400	\$32,500	1	
					Traveler Information	PCMS pads Crash investigation site	Per pad	2	\$14,000	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		
		1		1	Non-ITS Devices Communications	Crash investigation site Fiber optic cable (operations & maintenance only)	Per site	1	\$0	\$0	\$0	\$90,000	\$0	\$0	\$0	ФО	1	
SW	IH 90/94	MM 92	MM 115	23	Detection	Mainline detector station	Per site	4	\$100,000	\$0	\$0	\$0	\$1,600	\$1,600	\$3,200	\$0		
		(USH 12)	(Columbia			Service interchange detector station	Per site	2	\$158,000	\$0	\$0	\$0	\$2,500	\$2,500	\$5,000	\$0	4	
			CTH CS)			System interchange detector station ATR station upgrade	Per site Per site	1 1	\$153,000 \$10,000	\$0 \$0	\$0 \$0	\$0 \$0	\$2,450 \$300	\$2,450 \$300	\$4,900 \$600	\$0 \$0	-	
					Surveillance	CCTV camera	Per camera	7	\$280,000	\$0	\$0 \$0	\$0	\$7,000	\$9,100	\$16,100	\$0	1	
					Traffic Flow Management	Ramp gates	Per gate	6	\$114,000	\$0	\$0	\$0	\$0	\$12,000	\$12,000	\$0		
					Traffic Signal Systems	Interchange termini upgrade	Per site	3	\$353,000	\$0	\$0	\$0	\$8,900	\$8,900	\$17,800	\$17,650	4	
					Traveler Information Non-ITS Devices	PCMS pads Crash investigation site	Per pad Per site	3	\$21,000 \$0	\$0 \$0	\$0 \$0	\$0 \$90,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	1	
					Communications	Fiber optic cable (operations & maintenance only)	i ei site	1 '	ΨΟ	ΨΟ	ΨΟ	ψ30,000	Ψ0	Ψ0	ΨΟ	ΨΟ	1	
SW	IH 39/90/94	MM 115	MM 132	17	Detection	Mainline detector station	Per site	8	\$200,000	\$0	\$0	\$0	\$3,200	\$3,200	\$6,400	\$0		
		(Columbia	(USH 51)		Surveillance Traffic Flow Management	CCTV camera	Per camera	6	\$240,000	\$0 \$0	\$0 \$0	\$0 \$0	\$6,000 \$0	\$7,800 \$16,000	\$13,800 \$16,000	\$0 \$0	4	
		CTH CS)			Tramic Flow Management	Ramp gates Ramp meters	Per gate Per meter	3	\$152,000 \$150,000	\$0	\$0 \$0	\$0	\$3,000	\$4,200	\$16,000	\$0	1	
					Traffic Signal Systems	Interchange termini upgrade	Per site	1	\$3,000	\$0	\$0	\$0	\$100	\$100	\$200	\$150		
					Traveler Information	DMS	Per sign	1	\$173,000	\$0	\$0	\$0	\$9,850	\$9,850	\$19,700	\$0		
					Non-ITS Devices	PCMS pad Crash investigation site	Per pad Per site	2	\$14,000 \$0	\$0 \$0	\$0 \$0	\$0 \$180,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		
					THOIT THE DEVICES	Law enforcement pad	Per pad	3	\$0	\$0	\$0	\$3,000	\$0	\$0	\$0	- \$0		
					Communications	Fiber optic cable (operations & maintenance only)	·											
SW	IH 90/39/94	MM 132 (USH 51)	MM 138 (IH 94)	6	Detection	Mainline detector station	Per site Per site	7	\$175,000 \$153,000	\$0 \$0	\$0 \$0	\$0 \$0	\$2,800 \$2,450	\$2,800 \$2,450	\$5,600 \$4,900	\$0 \$0	4	
		(USH 51)	(IH 94)		Surveillance	System interchange detector station CCTV camera	Per site Per camera	5	\$200,000	\$0	\$0 \$0	\$0	\$5,000	\$6,500	\$4,900 \$11,500	\$0 \$0	1	
					Traffic Flow Management	Ramp gates	Per gate	9	\$171,000	\$0	\$0	\$0	\$0	\$18,000	\$18,000	\$0		
						Ramp meters	Per meter	6	\$300,000	\$0	\$0	\$0	\$6,000	\$8,400	\$14,400	\$0		
					Traveler Information Non-ITS Devices	DMS Crash investigation site	Per sign Per site	2	\$346,000 \$0	\$0 \$0	\$0 \$0	\$0 \$180,000	\$19,700 \$0	\$19,700 \$0	\$39,400 \$0	\$0 \$0		
					NOTI-ITO Devices	Law enforcement pad	Per pad	1	\$0	\$0	\$0	\$1,000	\$0	\$0	\$0	\$0 \$0		
					Communications	Fiber optic cable (operations & maintenance only)	·			·	·	,						
SW	IH 90/39	MM 138	MM 142	4	Detection	Mainline detector station	Per site	5	\$125,000	\$0	\$0	\$0	\$2,000	\$2,000	\$4,000	\$0		
		(IH 94)	(USH 12/18)	1	Surveillance	System interchange detector station CCTV camera	Per site Per camera	6	\$306,000 \$240,000	\$0 \$0	\$0 \$0	\$0 \$0	\$4,900 \$6,000	\$4,900 \$7,800	\$9,800 \$13,800	\$0 \$0	1	
		······································	(5512/10)		Traveler Information	DMS	Per sign	1	\$173,000	\$0	\$0	\$0	\$9,850	\$9,850	\$19,700	\$0	1	
					N. ITO D.	PCMS pad	Per pad	1	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
					Non-ITS Devices	Crash investigation site Law enforcement pad	Per site Per pad	1	\$0 \$0	\$0 \$0	\$0 \$0	\$180,000 \$1,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	-	
				1	Communications	Fiber optic cable (operations & maintenance only)	i ei pau	1 '	φυ	φυ	φυ	ψ1,000	φυ	φυ	φυ	φυ	1	
SW	USH 12	IH 90/94	Terrytown Rd,	6	Detection	None						Ī						
					Surveillance	None	Dan calls	-	Φ.	Ф070.000	00	ФС	Ф.	ФС	Ф.С	Φ.	-	
SW	USH 12	Terrytown Rd	Ski Hi Road	5	Communications Detection	Fiber optic cable	Per mile	5	\$0	\$270,000	\$0	\$0	\$0	\$0	\$0	\$0	+	+
5 v v	3311 12	Tonytown Ita	OKI I II KOAU		Surveillance	None						1					1	
					Communications	Fiber optic cable	Per mile	6	\$0	\$324,000	\$0	\$0	\$0	\$0	\$0	\$0		
SW	USH 12	Ski Hi Road	MM 249	29	Detection Troffic Signal Systems	Mainline detector station	Per site	1 1	\$25,000 \$107,500	\$0 \$0	\$0 \$0	\$0 \$0	\$400	\$400	\$800	\$0 \$5.275		
			(Parmenter St)		Traffic Signal Systems Traveler Information	Corridor signal upgrade PCMS pad	Per site Per pad	1	\$107,500 \$7,000	\$0 \$0	\$0 \$0	\$0 \$0	\$3,975 \$0	\$2,700 \$0	\$6,675 \$0	\$5,375 \$0	1	
					Communications	Fiber optic line (ARRA funding)	Per mile	28	\$0	\$0	\$1,512,000	\$0	\$0	\$0	\$0	\$0	1	
						T1 line	Per unit	3	\$0	\$3,600	\$0	\$0	\$600	\$24,000	\$24,600	\$0		
SW	USH 12	MM 249 (Parmenter St)	MM 267 (IH 39/90)	17	Detection	Mainline detector station	Per unit	31	\$775,000 \$10,000	\$0 \$0	\$0 \$0	\$0 \$0	\$12,400 \$300	\$12,400 \$300	\$24,800 \$600	\$0 \$0	-	
		(Faimenter St)	(III 39/90)	1	Surveillance	ATR station upgrade CCTV camera	Per unit Per camera	18	\$10,000 \$720,000	\$0 \$0	\$0 \$0	\$0 \$0	\$300	\$300 \$23,400	\$600 \$41,400	\$0 \$0	1	
					Traffic Flow Management	Ramp meters	Per meter	38	\$1,900,000	\$0	\$0	\$0	\$38,000	\$53,200	\$91,200	\$0]	
					Traffic Signal Systems	Interchange termini upgrade	Per site	15	\$451,000	\$0	\$0	\$0	\$11,700	\$11,700	\$23,400	\$22,550		
		1			Traveler Information	DMS PCMS pad	Per sign	6	\$1,038,000 \$7,000	\$0 \$0	\$0 \$0	\$0 \$0	\$59,100 \$0	\$59,100 \$0	\$118,200 \$0	\$0 \$0		
		1			Non-ITS Devices	Crash investigation site	Per pad Per site	10	\$7,000	\$0 \$0	\$0 \$0	\$900,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		
						Law enforcement pad	Per pad	10	\$0	\$0	\$0	\$10,000	\$0	\$0	\$0	\$0	_	
					Communications	Fiber optic cable	Per mile	17	\$0	\$918,000	\$0	\$0	\$0	\$0	\$0	\$0		

SW	USH 51	IH 39/90/94	USH 151 4	Detection	None												
				Traffic Signal Systems	Corridor signal upgrade	Per site	1	\$852,250	\$0	\$0	\$0	\$21,400	\$63,025	\$84,425	\$42,615		
				Traveler Information	Roadside DMS	Per sign	1	\$83,000	\$0	\$0	\$0	\$4,700	\$4,700	\$9,400	\$0		
				Communications	None												
SW	USH 51	USH 151	CTH BB 3	Detection	None												
				Surveillance	None												
				Traffic Signal Systems	Corridor signal upgrade	Per site	1	\$593,500	\$0	\$0	\$0	\$42,650	\$14,900	\$57,550	\$29,675		
				Communications	T1 line	Per unit	3	\$0	\$3,600	\$0	\$0	\$600	\$24,000	\$24,600	\$0		
SW	USH 51	CTH BB	USH 12/18 3	Detection	Mainline detector station	Per site	3	\$75,000	\$0	\$0	\$0	\$1,200	\$1,200	\$2,400	\$0		
				Surveillance	CCTV camera	Per camera	3	\$120,000	\$0	\$0	\$0	\$3,000	\$3,900	\$6,900	\$0		
				Traveler Information	Roadside DMS	Per sign	1	\$83,000	\$0	\$0	\$0	\$4,700	\$4,700	\$9,400	\$0		
				Traffic Signal Systems	Corridor signal upgrade	Per site	1	\$593,500	\$0	\$0	\$0	\$42,650	\$14,900	\$57,550	\$29,675		
				Communications	Fiber optic cable	Per mile	3	\$0	\$162,000	\$0	\$0	\$0	\$0	\$0	\$0		
				COMMUNICATIONS	OTHER STATEWIDE INFRASTRUCTURE (TOWERS,					\$500,000							

HUTS -- ARRA FUNDS)

\$14,971,750	\$1,681,200	\$2,012,000	\$1,635,000	\$437,875	\$633,825	\$1,071,700	\$180,190
Estimated Total Capital Cost	Estimated Device Communication Cost	Estimated Network Communications Cost	Estimated Non- ITS Devices Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)

Table 4: Capitol Corridor - Cost Summary Table

		T	T	1	I	1	T		1	1		T	Г	т т		1	Γ	Γ
Region	Highway	Segment Start (and includes)	Segment End (but does not include)	Segment Length (miles)	Device Type	Assumptions	Unit	Estimated Quantity	Estimated Total Capital Cost	Estimated Device Communications Cost	Estimated Network Communications Cost	Estimated Non- ITS Devices Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)	WisDOT Projects in Corridor Segment	Device Deployment Status
SW	STH 30	USH 151	IH 39/90	3	Detection	Mainline detector station	Per site	3	\$75,000	\$0	\$0	\$0	\$1,200	\$1,200	\$2,400	\$0		
						Service interchange detector station	Per site	1	\$79,000	\$0	\$0	\$0	\$1,250	\$1,250	\$2,500	\$0		
					Surveillance	CCTV camera	Per camera	4	\$160,000	\$0	\$0	\$0	\$4,000	\$5,200	\$9,200	\$0		
				-	Traveler Information	DMS Roadside DMS	Per sign Per sign	1	\$173,000 \$83,000	\$0 \$0	\$0 \$0	\$0 \$0	\$9,850 \$4,700	\$9,850 \$4,700	\$19,700 \$9,400	\$0 \$0		
SW	IH 94	MM 240	MM 244	4	Detection	Mainline detector station	Per sign Per site	6	\$150,000	\$0 \$0	\$0 \$0	\$0	\$2,400	\$2,400	\$4,800	\$0 \$0		
	11104	(IH 39/90)	(Dane CTH N)		Surveillance	CCTV camera	Per camera	1	\$40,000	\$0	\$0	\$0	\$1,300	\$1,000	\$2,300	\$0		
			,		Traveler Information	DMS	Per sign	2	\$346,000	\$0	\$0	\$0	\$19,700	\$19,700	\$39,400	\$0		
						PCMS pad	Per pad	1	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
CW	IH 39/90/94	MM 135	MM 138	2	Communications	Fiber optic line (O & M only) SEE BADGER STATE CORRIDOR	Per mile											
SVV	III 39/90/94	(USH 151)	(IH 94)	3	Detection Surveillance	FOR DEVICE INFORMATION												
		(00:1:101)	(11.0.1)		Communications													
SW	IH 39/90	MM 138	MM 142	4	Detection	SEE BADGER STATE CORRIDOR												
		(IH 94)	(USH 12 / 18)		Surveillance	FOR DEVICE INFORMATION			1									
SW	IH 94	MM 244	MM 255	11	Communications Detection	Mainline detector station	Per site	2	\$50,000	\$0	\$0	\$0	\$800	\$800	\$1,600	\$0		
300	111 94	(Dane CTH N)	IVIIVI 255	111	Detection	Service interchange detector station	Per site	1	\$79,000	\$0 \$0	\$0 \$0	\$0	\$1,250	\$1,250	\$2,500	\$0		
		(Bane Cirri)			Surveillance	CCTV camera	Per camera	3	\$120,000	\$0	\$0	\$0	\$3,900	\$3,000	\$6,900	\$0		
					Traffic Flow Management	Ramp gates PCMS pad	Per gate	4	\$76,000	\$0	\$0	\$0	\$8,000	\$0	\$8,000	\$0		
		_	_		Traveler Information		Per pad	2	\$14,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
		1	1	1	Non-ITS devices Communications	Crash investigation site Fiber optic line (O & M only)	Per site	2	\$0	\$0	\$0	\$180,000	\$0	\$0	\$0	\$0		
SW	IH 94	MM 255	MM 259	4	Detection	None	+		1			+	 	+				
J 1 1		171171 200	(STH 89)	ſ	Surveillance	None			1				1	† †			1	
					Traveler Information	PCMS pad	Per pad	1	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
					Communications	Fiber optic line (O & M only)												
SW, SE	IH 94	MM 259	MM 282	21	Detection	Mainline detector station	Per site	1	\$25,000	\$0	\$0	\$0	\$400	\$400	\$800	\$0 \$0		
		(STH 89)	(STH 67)	1	Surveillance	ATR station upgrade CCTV camera	Per site Per camera	1 1	\$10,000 \$40,000	\$0 \$0	\$0 \$0	\$0 \$0	\$300 \$1,300	\$300 \$1,000	\$600 \$2,300	\$0 \$0		
					Traffic Flow Management	Ramp gates	Per gate	7	\$133,000	\$0 \$0	\$0 \$0	\$0	\$1,300	\$1,000	\$14,000	\$0 \$0		
					Traveler Information	PCMS pad	Per sign	3	\$21,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
					Communications	Fiber optic line (O & M only)	Per mile								-			
SE	IH 94	MM-282	MM 293	12	Detection	Mainline detector station	Per site	8	\$200,000	\$0	\$0	\$0	\$3,200	\$3,200	\$6,400	\$0		
		(STH 67)	(STH 16)		Cumraillanaa	ATR station upgrade CCTV camera	Per site	2	\$20,000	\$0 \$0	\$0 \$0	\$0 \$0	\$600	\$600	\$1,200	\$0 \$0		
					Surveillance Traffic Flow Management	Ramp gates	Per camera Per gate	6 13	\$240,000 \$247,000	\$0 \$0	\$0 \$0	\$0 \$0	\$7,800 \$26,000	\$6,000 \$0	\$13,800 \$26,000	\$0 \$0		
					Traine Flow Management	Ramp meters	Per meter	8	\$400,000	\$0	\$0	\$0	\$11,200	\$8,000	\$19,200	\$0		
					Traveler Information	Roadside DMS	Per sign	2	\$166,000	\$0	\$0	\$0	\$9,400	\$9,400	\$18,800	\$0		
					Non-ITS devices	Crash investigation site	Per site	10	\$0	\$0	\$0	\$900,000	\$0	\$0	\$0	\$0		
					Communications	Law enforcment pad Fiber optic line (O & M only)	Per pad Per mile	5	\$0	\$0	\$0	\$5,000	\$0	\$0	\$0	\$0		
SF	IH 94	MM 293	MM 310	17	Detection	Mainline detector station	Per site	23	\$575,000	\$0	\$0	\$0	\$9,200	\$9,200	\$18,400	\$0		
	11104	(STH 16)	(IH 43)	1''	Detection	Service interchange detector station	Per site	3	\$237,000	\$0	\$0	\$0	\$3,750	\$3,750	\$7,500	\$0		
		,				System interchange detector station	Per site	1	\$153,000	\$0	\$0	\$0	\$2,450	\$2,450	\$4,900	\$0		
						ATR station upgrade	Per site	7	\$70,000	\$0	\$0	\$0	\$2,100	\$2,100	\$4,200	\$0		
					Surveillance Traffic Flow Management	CCTV camera	Per camera	23 28	\$920,000 \$532,000	\$0 \$0	\$0 \$0	\$0 \$0	\$29,900 \$56,000	\$23,000 \$0	\$52,900 \$56,000	\$0 \$0		
					Trainic Flow Management	Ramp gates Ramp meters	Per gate Per meter	34	\$1,700,000	\$0	\$0 \$0	\$0	\$47,600	\$34,000	\$81,600	\$0 \$0		
					Traffic Signal Systems	Interchange termini upgrade	Per site	14	\$516,000	\$0	\$0	\$0	\$13,600	\$13,600	\$27,200	\$25,800		
					Traveler Information	DMS	Per sign	6	\$1,038,000	\$0	\$0	\$0	\$59,100	\$59,100	\$118,200	\$0		
					Non-ITS devices	Crash investigation site	Per site	32	\$0	\$0	\$0	\$2,880,000	\$0	\$0	\$0	\$0		
				1	Communications	Law enforcment pad	Per pad	16	\$0	\$0	\$0	\$16,000	\$0	\$0	\$0	\$0		
SE	IH 794	MM 1	MM 3	3	Communications Detection	Fiber optic line (O & M only) Mainline detector station	Per mile Per site	7	\$175,000	\$0	\$0	\$0	\$2,800	\$2,800	\$5,600	\$0		
		(IH 94)	(Carferry Drive)	Ť		ATR station upgrade	Per site	2	\$20,000	\$0	\$0	\$0	\$600	\$600	\$1,200	\$0		1
		,	, , ,		Surveillance	CCTV camera	Per camera	6	\$240,000	\$0	\$0	\$0	\$7,800	\$6,000	\$13,800	\$0		
					Traffic Flow Management	Ramp gates	Per gate	8	\$152,000	\$0 \$0	\$0	\$0	\$16,000	\$0	\$16,000	\$0		
			1	1	Non-ITS Devices	Ramp meters Crash investigation site	Per meter Per site	6 2	\$300,000 \$0	\$0 \$0	\$0 \$0	\$0 \$180,000	\$8,400 \$0	\$6,000 \$0	\$14,400 \$0	\$0 \$0		-
		1	1		INOULLI O DEVICES	Law enforcment pad	Per site Per pad	1	\$0 \$0	\$0 \$0	\$0 \$0	\$1,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		
SW	USH 151	IH 39/90/94	Sun Prairie	6	Detection	SEE WILD GOOSE CORRIDOR			+ *					Ţ-				
			(Dane CTH N)		Surveillance	FOR DEVICE INFORMATION												
0.4.	OT: : : -	luo: : :=:	07::::	<u> </u>	Communications			ļ		<u> </u>				<u> </u>				
SW	STH 19	USH 151	CTH VV	4	Detection	None							-	1				
		1	1	1	Surveillance Communications	None None	+					1	1	 			1	
SW	STH 19	CTH VV	Watertown	22	Detection	None	 		1	1		†	 	 				
	-		(East Limits)		Surveillance	None												
					Communications	None												
SW	STH 19	Watertown	STH 16	4	Detection	None				ļ		-	 	ļ — — — — — — — — — — — — — — — — — — —				
		(East Limits)	1	-	Surveillance Communications	None None							-	 				
SW	STH 16	STH 19	Oconomowoc	8	Detection	None	+		1			+	 	+				
J.1	511110	5.11.13	(Wisconsin Ave)	Ť	Surveillance	None			1			1	1	† †				
					Communications	None												
_ , _	Wisconsin	STH 16	STH 67	5	Detection	None								 				
	Avenue	1	1		Surveillance Communications	None None	+					1	1	+			1	
SE	STH 16	STH 67	IH 94	15	Detection	Mainline detector station	Per site	2	\$50,000	\$0	\$0	\$0	\$800	\$800	\$1,600	\$0		
				<u> </u>	Surveillance	None			,	**	* -			,	,	+ -		
				1	Communications	None											I	1

SE	STH 190	STH 16	USH 45	13	Detection	None											
					Surveillance	None											
					Traveler Information	DMS	Per sign	1	\$173,000	\$0	\$0	\$0	\$9,850	\$9,850	\$19,700	\$0	
					Communications	None			, , , , , , , , , , , , , , , , , , , ,	•	, ,		1	, , , , , , , , , , , , , , , , , , , ,	, , , , ,	,	
SE	STH 190	USH 45	IH 43	4	Detection	Mainline detector station	Per site	4	\$100,000	\$0	\$0	\$0	\$1,600	\$1,600	\$3,200	\$0	
					Surveillance	CCTV camera	Per camera	3	\$120,000	\$0	\$0	\$0	\$3,900	\$3,000	\$6,900	\$0	
					Traffic Signal Systems	Corridor upgrade	Per site	1	\$1,888,000	\$0	\$0	\$0	\$47,600	\$88,400	\$136,000	\$94,400	
					Communications	T1 line	Per unit	4	\$0	\$4,800	\$0	\$0	\$800	\$32,000	\$32,800	\$0	
SW	USH 18	MM 258	MM 267	9	Detection	SEE BADGER STATE CORRIDOR				•				1		·	
		(USH 12 / 14)	(IH 39 / 90)		Surveillance	FOR DEVICE INFORMATION											
		,			Communications												
SW	USH 18	MM 267	MM 272	5	Detection	None											
		(IH 39 / 90)	(Dane CTH N)		Surveillance	None											
		,	, , , , , , , , , , , , , , , , , , ,		Traveler Information	PCMS pad	Per pad	1	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
					Communications	None	i i		· ,	·	·	·	i i			·	
SW	USH 12/18	MM 272	Cambridge	9	Detection	None											
					Surveillance	None											
					Communications	None											
SW	USH 18	Cambridge	Jefferson	10	Detection	None											
			(West Limits)		Surveillance	None											
			,		Communications	None											
SW	USH 18	Jefferson	Jefferson	2	Detection	None											
		(West Limits)	(East Limits)		Surveillance	None											
		,			Communications	None											
SW, SE	USH 18	Jefferson	Waukesha	14	Detection	None											
		(East Limits)	CTH BB		Surveillance	None											
					Communications	None											
SE	USH 18	Waukesha	Waukesha	16	Detection	None											
		CTH BB	(Madison St)		Surveillance	None											
			,		Communications	None											
SE	USH 18	Waukesha	IH 43 / 94	17	Detection	Mainline detector station	Per site	7	\$175,000	\$0	\$0	\$0	\$2,800	\$2,800	\$5,600	\$0	
		(Madison St)			Surveillance	CCTV camera	Per camera	4	\$160,000	\$0	\$0	\$0	\$5,200	\$4,000	\$9,200	\$0	
					Communications	Cellular Modem	Per unit	6	\$0	\$6,600	\$0	\$0	\$360	\$2,880	\$3,240	\$0	
SE	STH 59	Waukesha	I-894 / USH 45	10	Detection	None											
		(Madison St)			Surveillance	None											
					Traveler Information	DMS	Per sign	1	\$173,000	\$0	\$0	\$0	\$9,850	\$9,850	\$19,700	\$0	
					Communications	None											
SE	STH 59	I-894 / USH 45	IH 43	6	Detection	Mainline detector station	Per site	6	\$150,000	\$0	\$0	\$0	\$2,400	\$2,400	\$4,800	\$0	
					Surveillance	CCTV camera	Per camera	6	\$240,000	\$0	\$0	\$0	\$7,800	\$6,000	\$13,800	\$0	
					Traveler Information	DMS	Per sign	1	\$173,000	\$0	\$0	\$0	\$9,850	\$9,850	\$19,700	\$0	
						Roadside DMS	Per sign	1	\$83,000	\$0	\$0	\$0	\$4,700	\$4,700	\$9,400	\$0	
					Communications	Fiber optic line	Per mile	6	\$0	\$324,000	\$0	\$0	\$0	\$0	\$0	\$0	
	-	-	-	-	COMMUNICATIONIC	OTHER STATEWINE INCRASTRUCTURE /TOWE			-		¢500,000	-	-	-	-		

Communications
COMMUNICATIONS

Fiber optic line
OTHER STATEWIDE INFRASTRUCTURE (TOWERS,
HUTS -- ARRA FUNDS)

\$13,081,000	\$335,400	\$500,000	\$4,162,000	\$499,360	\$419,980	\$919,340	\$120,200
Estimated Total Capital Cost	Estimated Device Communications Cost	Estimated Network Communications Cost	Estimated Non- ITS Devices Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)

Table 5: Fox Valley Corridor - Cost Summary Table

Region	Highway	Segment Start (and includes)	Segment End (but does not include)	Segment Length (miles)	Device Type	Assumptions	Unit	Estimated Quantity	Estimated Total Capital Cost		Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	- Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)	WisDOT Projects in Corridor Segment	Device Deployment Status
NE	USH 41	IH 43	STH 29	2	Detection	Mainline detector station	Per site	1	\$25,000	\$0	\$0	\$0	\$400	\$400	\$800	\$0		
						Service interchange detector station	Per site	3	\$237,000	\$0	\$0	\$0	\$3,750	\$3,750	\$7,500	\$0		
					Surveillance Traffic Flow Management	CCTV camera	Per camera	1 4	\$40,000 \$76,000	\$0 \$0	\$0 \$0	\$0 \$0	\$1,000	\$1,300	\$2,300 \$8,000	\$0 \$0		
					Traffic Signal Systems	Ramp gates Interchange termini upgrade	Per gate Per site	1	\$6,000	\$0 \$0	\$0 \$0	\$0	\$0 \$200	\$8,000 \$200	\$400	\$0 \$300		
					Traveler Information	DMS	Per sign	1	\$173,000	\$0	\$0	\$0	\$9,850	\$9,850	\$19,700	\$0		
					Non-ITS Devices	Crash investigation site	Per site	3	\$0	\$0	\$0	\$270,000	\$0	\$0	\$0	\$0		
						Law enforcement pad	Per pad	2	\$0	\$0	\$0	\$2,000	\$0	\$0	\$0	\$0		
NE	USH 41	STH 29	STH 172	1	Communications Detection	Fiber optic cable Mainline detector station	Per mile Per site	2	\$0 \$25,000	\$108,000 \$0	\$0 \$0	\$0 \$0	\$0 \$400	\$0 \$400	\$0 \$800	\$0 \$0		
INC	031141	311129	3111172	-	Detection	Service interchange detector station	Per site	3	\$237,000	\$0	\$0	\$0	\$3,750	\$3,750	\$7,500	\$0	1	
					Surveillance	CCTV camera	Per camera	4	\$160,000	\$0	\$0	\$0	\$4,000	\$5,200	\$9,200	\$0		
					Traffic Flow Management	Ramp gates	Per gate	4	\$76,000	\$0	\$0	\$0	\$0	\$8,000	\$8,000	\$0		
					Traffic Signal Systems Traveler Information	Interchange termini upgrade DMS	Per site Per sign	3	\$24,000 \$173,000	\$0 \$0	\$0 \$0	\$0 \$0	\$800 \$9,850	\$800 \$9,850	\$1,600 \$19,700	\$1,200 \$0	-	
					Non-ITS Devices	Crash investigation site	Per site	2	\$173,000	\$0	\$0	\$180,000	\$0	\$9,830	\$19,700	\$0	1	
						Law enforcement pad	Per pad	1	\$0	\$0	\$0	\$1,000	\$0	\$0	\$0	\$0		
					Communications	Fiber optic cable	Per mile	4	\$0	\$216,000	\$0	\$0	\$0	\$0	\$0	\$0		
NE	USH 41	STH 172	DePere South Limits	5	Detection	Service interchange detector station	Per site Per site	2 2	\$158,000 \$306,000	\$0 \$0	\$0 \$0	\$0 \$0	\$2,500 \$4,900	\$2,500 \$4,900	\$5,000 \$9,800	\$0 \$0	-	
			South Limits			System interchange detector station ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0	1	
					Surveillance	CCTV camera	Per camera	4	\$160,000	\$0	\$0	\$0	\$4,000	\$5,200	\$9,200	\$0	1	
					Traffic Flow Management	Ramp gates	Per gate	8	\$152,000	\$0	\$0	\$0	\$0	\$16,000	\$16,000	\$0		
	-			-	Traffic Signal Systems Traveler Information	Interchange termini upgrade DMS	Per site Per sign	2	\$24,000 \$173,000	\$0 \$0	\$0 \$0	\$0 \$0	\$600 \$9,850	\$600 \$9,850	\$1,200 \$19,700	\$1,200 \$0	1	
					Traveler Information	PCMS pad	Per sign Per sign	1 1	\$7,000	\$0 \$0	\$0 \$0	\$0 \$0	\$9,850	\$9,850	\$19,700	\$0 \$0		
					Non-ITS Devices	Crash investigation site	Per site	6	\$0	\$0	\$0	\$540,000	\$0	\$0	\$0	\$0	1	
						Law enforcement pad	Per pad	4	\$0	\$0	\$0	\$4,000	\$0	\$0	\$0	\$0		
NE	11011.44	DaBarra	NE In OTH 444	45	Communications	Fiber optic cable	Per mile	5	\$0	\$270,000	\$0	\$0	\$0	\$0	\$0	\$0		
NE	USH 41	DePere South Limits	NE Jct STH 441	15	Detection	Mainline detector station Service interchange detector station	Per site Per site	3 3	\$75,000 \$237,000	\$0 \$0	\$0 \$0	\$0 \$0	\$1,200 \$3,750	\$1,200 \$3,750	\$2,400 \$7,500	\$0 \$0		
						ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
					Surveillance	CCTV camera	Per camera	5	\$200,000	\$0	\$0	\$0	\$5,000	\$6,500	\$11,500	\$0		
					Traffic Flow Management Traffic Signal Systems	Ramp gates Interchange termini upgrade	Per gate Per site	10	\$190,000 \$8,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$200	\$20,000 \$200	\$20,000 \$400	\$0 \$400		
					Traveler Information	DMS	Per sign	1 1	\$173,000	\$0	\$0	\$0	\$9,850	\$9,850	\$19,700	\$0		
					Non-ITS Devices	Crash investigation site	Per site	4	\$0	\$0	\$0	\$360,000	\$0	\$0	\$0	\$0		
					Communications	Law enforcement pad	Per pad	4	\$0 \$0	\$0	\$0	\$4,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		
NF	USH 41	NE Jct STH 441	SW Jct STH 441	11	Communications Detection	Fiber optic cable Mainline detector station	Per mile Per site	15 2	\$50,000	\$810,000 \$0	\$0 \$0	\$0	\$800	\$800	\$1,600	\$0 \$0		
						Service interchange detector station	Per site	7	\$553,000	\$0	\$0	\$0	\$8,750	\$8,750	\$17,500	\$0		
						ATR station upgrade	Per site	4	\$40,000	\$0	\$0	\$0	\$1,200	\$1,200	\$2,400	\$0		
					Surveillance Traffic Flow Management	CCTV camera Ramp gates	Per camera Per gate	8 12	\$320,000 \$228,000	\$0 \$0	\$0 \$0	\$0 \$0	\$8,000 \$0	\$10,400 \$24,000	\$18,400 \$24,000	\$0 \$0	-	
					Traffic Signal Systems	Interchange termini upgrade	Per site	5	\$56,000	\$0	\$0	\$0	\$1,600	\$1,600	\$3,200	\$2,800	1	
					Traveler Information	DMS	Per sign	2	\$346,000	\$0	\$0	\$0	\$19,700	\$19,700	\$39,400	\$0		
					Non-ITS Devices	Roadside DMS	Per sign Per site	1 12	\$83,000 \$0	\$0 \$0	\$0 \$0	\$0 \$1,080,000	\$4,700 \$0	\$4,700 \$0	\$9,400 \$0	\$0 \$0	-	
					Non-113 Devices	Crash investigation site Law enforcement pad	Per pad	7	\$0	\$0	\$0	\$7,000	\$0	\$0	\$0	\$0	1	
					Communications	Fiber optic cable	Per mile	11	\$0	\$594,000	\$0	\$0	\$0	\$0	\$0	\$0		
NE	STH 441	NE Jct USH 41	SW Jct USH 41	10	Detection	Mainline detector station	Per site	1	\$25,000	\$0	\$0	\$0	\$400	\$400	\$800	\$0		
					Surveillance	Service interchange detector station CCTV camera	Per site Per camera	6 8	\$474,000 \$320,000	\$0 \$0	\$0 \$0	\$0 \$0	\$7,500 \$8,000	\$7,500 \$10,400	\$15,000 \$18,400	\$0 \$0	-	
					Traffic Flow Management	Ramp gates	Per gate	14	\$266,000	\$0	\$0	\$0	\$0,000	\$28,000	\$28,000	\$0	1	
					Ĭ	Ramp meters	Per meter	1	\$50,000	\$0	\$0	\$0	\$1,400	\$1,000	\$2,400	\$0]	
					Traffic Signal Systems	Interchange termini upgrade	Per site	3	\$18,000	\$0 \$0	\$0 \$0	\$0 \$0	\$600 \$30,400	\$600	\$1,200	\$900	-	
					Traveler Information	DMS PCMS pad	Per sign Per pad	2	\$692,000 \$14,000	\$0 \$0	\$0 \$0	\$0 \$0	\$39,400 \$0	\$39,400 \$0	\$78,800 \$0	\$0 \$0	1	
					Non-ITS Devices	Crash investigation site	Per site	14	\$0	\$0	\$0	\$1,260,000	\$0	\$0	\$0	\$0	1	
						Law enforcement pad	Per pad	6	\$0	\$0	\$0	\$6,000	\$0	\$0	\$0	\$0	l	
NE	USH 41	SW Jct STH 441	Breezewood Ln	6	Communications Detection	T1 line Service interchange detector station	Per unit Per site	7	\$0 \$237,000	\$8,400 \$0	\$0 \$0	\$0 \$0	\$1,400 \$3,750	\$56,000 \$3,750	\$57,400 \$7,500	\$0 \$0		
INL	001141	OVV JULO 1 441	(Neenah)		Detection	System interchange detector station System interchange detector station	Per site	1	\$237,000	\$0 \$0	\$0 \$0	\$0	\$3,750	\$3,750	\$4,900	\$0 \$0	1	
			,		Surveillance	CCTV camera	Per camera	4	\$160,000	\$0	\$0	\$0	\$4,000	\$5,200	\$9,200	\$0]	
					Traffic Flow Management	Ramp gates	Per gate	6	\$114,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$600	\$12,000	\$12,000 \$1,200	\$0 \$1,100	1	
					Traffic Signal Systems Traveler Information	Interchange termini upgrade DMS	Per site Per sign	1	\$22,000 \$173,000	\$0 \$0	\$0 \$0	\$0 \$0	\$600 \$9,850	\$600 \$9,850	\$1,200 \$19,700	\$1,100 \$0	1	
					Non-ITS Devices	Crash investigation site	Per site	6	\$0	\$0	\$0	\$540,000	\$0	\$0	\$0	\$0]	
					Communications	Law enforcement pad	Per pad	4	\$0 \$0	\$0	\$0 \$0	\$4,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	1	
NF	USH 41	Breezewood Ln	STH 44	12	Communications Detection	Fiber optic cable Service interchange detector station	Per mile Per site	5	\$0 \$395,000	\$324,000 \$0	\$0 \$0	\$0 \$0	\$0 \$6,250	\$0 \$6,250	\$0 \$12,500	\$0 \$0		
		(Neenah)		<u> </u>		ATR station upgrade	Per site	4	\$40,000	\$0	\$0	\$0	\$1,200	\$1,200	\$2,400	\$0		
					Surveillance	CCTV camera	Per camera	7	\$280,000	\$0	\$0	\$0	\$7,000	\$9,100	\$16,100	\$0		
					Traffic Flow Management	Ramp gates Interchange termini upgrade	Per gate Per site	10	\$190,000 \$24,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$800	\$20,000 \$800	\$20,000 \$1,600	\$0 \$1,200		
	1			1	Traffic Signal Systems Traveler Information	DMS	Per sign	1	\$24,000	\$0 \$0	\$0 \$0	\$0	\$9,850	\$9,850	\$1,600	\$1,200		
					Non-ITS Devices	Crash investigation site	Per site	8	\$0	\$0	\$0	\$720,000	\$0	\$0	\$0	\$0		
	1				Communications	Law enforcement pad	Per pad Per mile	5 12	\$0 \$0	\$0 \$648,000	\$0 \$0	\$5,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		
	1		1	<u> </u>	Communications	Fiber optic cable	rei mile	IΖ	ΦU	φυ40,000	ΦU	\$0	ΦU	Φυ	ФО	ΦU	l .	<u>I</u>

–	1	I	T	1	T	To the state of th	1		T		T 40	T 4.		1 4	^-		T.	
NE	USH 41	STH 44	Fond Du Lac	10	Detection	Service interchange detector station	Per site	2	\$158,000	\$0	\$0	\$0	\$2,500	\$2,500	\$5,000	\$0		
			CTH N		Surveillance	CCTV camera	Per camera	2	\$80,000	\$0	\$0	\$0	\$2,000	\$2,600	\$4,600	\$0		
					Traffic Flow Management	Ramp gates	Per gate	4	\$76,000	\$0	\$0	\$0	\$0	\$8,000	\$8,000	\$0	1	
					Traffic Signal Systems	Interchange termini upgrade	Per site	2	\$353,000	\$0	\$0	\$0	\$8,900	\$8,900	\$17,800	\$17,650	1	
	1							4	· ' '	\$0 \$0	Ŧ -	\$0 \$0	, , ,				1	
					Traveler Information	DMS	Per sign	1	\$173,000	ΨΟ	\$0	ΨΟ	\$9,850	\$9,850	\$19,700	\$0		
						PCMS pad	Per pad	1	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
					Non-ITS Devices	Crash investigation site	Per site	2	\$0	\$0	\$0	\$180,000	\$0	\$0	\$0	\$0		
						Law enforcement pad	Per pad	2	\$0	\$0	\$0	\$2,000	\$0	\$0	\$0	\$0		
					Communications	Fiber optic line	Per mile	10	\$0	\$540,000	\$0	\$0	\$0	\$0	\$0	\$0	1	
					Communications	•		10				Ψ.		7 -	T -		-	
						T1 line	Per unit	1	\$0	\$1,200	\$0	\$0	\$200	\$8,000	\$8,200	\$0		
NE	USH 41	Fond Du Lac	Winnebago St.	5	Detection	None									\$0	\$0		
		CTH N	(North Fond		Surveillance	None									\$0	\$0	1	
			Du Lac)		Traffic Flow Management	Ramp gates	Per gate	2	\$38,000	\$0	\$0	\$0	\$0	\$4,000	\$4,000	\$0	1	
			Du Lac)			Interchange termini ungrade	Per site	1	· ,	\$0	\$0	\$0	\$8,300		\$16,600	\$16,550	1	
					Traffic Signal Systems	Interchange termini upgrade		1	\$331,000	Ŧ -		* -		\$8,300			-	
					Communications	T1 line	Per unit	1	\$0	\$1,200	\$0	\$0	\$200	\$8,000	\$8,200	\$0		
NE	USH 41	Winnebago St.	USH 151	6	Detection	None									\$0	\$0		
		(North Fond			Surveillance	CCTV camera	Per camera	3	\$120,000	\$0	\$0	\$0	\$3,000	\$3,900	\$6,900	\$0		
		Du Lac)			Traffic Flow Management	Ramp gates	Per gate	8	\$152,000	\$0	\$0	\$0	\$0	\$16,000	\$16,000	\$0		
		Du Luoj					Per site	1	<u> </u>	\$0	\$0	\$0	\$8,300	\$8,300	\$16,600	\$16,550		
					Traffic Signal Systems	Interchange termini upgrade		1	\$331,000	¥ *		· ·						
					Communications	Fiber optic line	Per mile	4	\$0	\$216,000	\$0	\$0	\$0	\$0	\$0	\$0		
NE, SW, S	EUSH 41	USH 151	STH 100	45	Detection	Mainline detector station	Per site	1	\$25,000	\$0	\$0	\$0	\$400	\$400	\$800	\$0		
. ,						Service interchange detector station	Per site	1	\$79,000	\$0	\$0	\$0	\$1,250	\$1,250	\$2,500	\$0	1	1
		<u> </u>		1	1	ATR station upgrade	Per site	3	\$30,000	\$0	\$0	\$0	\$900	\$900	\$1,800	\$0 \$0	1	1
				1	0				. ,	ΨΟ	Y -	ΨΟ			. ,	7 -	1	1
	1				Surveillance	CCTV camera	Per camera	5	\$200,000	\$0	\$0	\$0	\$5,000	\$6,500	\$11,500	\$0		
					Traffic Flow Management	Ramp gates	Per gate	30	\$570,000	\$0	\$0	\$0	\$0	\$60,000	\$60,000	\$0		
						Ramp meters	Per meter	2	\$100,000	\$0	\$0	\$0	\$2,800	\$2,000	\$4,800	\$0		
				1	Traveler Information	PCMS pad	Per pad	1	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1	1
	1	1		1	Communications	Fiber optic line (ARRA funding)	Per mile	43	\$0	\$0	\$2,322,000	\$0	\$0	\$0	\$0	\$0	1	1
					Communications	, ,			* -	¥ -		T -	, ·	7 -	T -	· · · · · · · · · · · · · · · · · · ·	4	
						T1 line	Per unit	3	\$0	\$3,600	\$0	\$0	\$600	\$24,000	\$24,600	\$0		
SE	USH 41/45	STH 100	STH 145	2	Detection	Mainline detector station	Per site	2	\$50,000	\$0	\$0	\$0	\$800	\$800	\$1,600	\$0		
						ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0	1	
					Surveillance	CCTV camera	Per camera	3	\$120,000	\$0	\$0	\$0	\$3,000	\$3,900	\$6,900	\$0	1	
								3		ΨΟ		ΨΟ	· · · · ·			·	-	
					Traffic Flow Management	Ramp gates	Per gate	4	\$76,000	\$0	\$0	\$0	\$0	\$8,000	\$8,000	\$0		
						Ramp meters	Per meter	4	\$200,000	\$0	\$0	\$0	\$5,600	\$4,000	\$9,600	\$0		
					Traffic Signal Systems	Interchange termini upgrade	Per site	1	\$6,000	\$0	\$0	\$0	\$200	\$200	\$400	\$300		
					Traveler Information	DMS	Per sign	1	\$173,000	\$0	\$0	\$0	\$9,850	\$9,850	\$19,700	\$0	1	
								<u>'</u>		T -		+ -		\$0	\$0			
					Non-ITS Devices	Crash investigation site	Per site		\$0	\$0	\$0	\$180,000	\$0	ΨΟ	Ψ.	\$0	4	
						Law enforcement pad	Per pad	1	\$0	\$0	\$0	\$1,000	\$0	\$0	\$0	\$0		
					Communications	Fiber optic line (O&M only)									\$0	\$0		
SE	USH 45	STH 145	IH 94	10	Detection	Mainline detector station	Per site	13	\$325,000	\$0	\$0	\$0	\$5,200	\$5,200	\$10,400	\$0		
	100	0		1.0		ATR station upgrade	Per site	3	\$30,000	\$0	\$0	\$0	\$900	\$900	\$1,800	\$0		
					O					¥ -	-	* -						
					Surveillance	CCTV camera	Per camera	11	\$440,000	\$0	\$0	\$0	\$11,000	\$14,300	\$25,300	\$0		
					Traffic Flow Management	Ramp gates	Per gate	22	\$418,000	\$0	\$0	\$0	\$0	\$44,000	\$44,000	\$0		
						Ramp meters	Per meter	22	\$1,100,000	\$0	\$0	\$0	\$30,800	\$22,000	\$52,800	\$0		
					Traffic Signal Systems	Interchange termini upgrade	Per site	8	\$1,069,000	\$0	\$0	\$1	\$27,100	\$27,100	\$54,200	\$53,450		
	1			1	Traveler Information	DMS	Per sign	2	\$346,000	\$0	\$0	\$0	\$19,700	\$19,700	\$39,400	\$0		
	-	_		+						Ψ.		T -						1
					Non-ITS Devices	Crash investigation site	Per site	18	\$0	\$0	\$0	\$1,620,000	\$0	\$0	\$0	\$0		
						Law enforcement pad	Per pad	9	\$0	\$0	\$0	\$9,000	\$0	\$0	\$0	\$0		
					Communications	Fiber optic line (O&M only)												
NE	STH 23	USH 41	USH 45	2	Detection	None	<u> </u>						İ		Ī			
	10.11.20	0011 71	3311 73	 	Surveillance	None	 	 				 		 	 		1	1
							 	1				1		1			1	1
					Communications	None												
NE	USH 45	STH 23	Fond Du Lac	20	Detection	None	<u> </u>											1
			CTH Y		Surveillance	None												I
				1	Traffic Signal Systems	Corridor signal upgrade	Per site	1	\$689,900	\$0	\$0	\$0	\$30,895	\$17,380	\$48,275	\$34,495	1	
—	+	+		+			i di sile	 '	Ψ003,300	ΨΟ	ΨΟ	ΨΟ	ψ50,095	ψ17,300	ψτυ,∠10	ψυτ,430	1	1
		 		+	Communications	None			.				ļ			ļ		
NE, SE	USH 45	Fond Du Lac	Kewaskum	4	Detection	None												
1		CTH Y	(North Limits)		Surveillance	None	<u> </u>											
			, ,		Communications	None	 					1						
QE.	USH 45	Kewaskum	Kewaskum	2	Detection	None	 	 				 		 				+
<u>S⊏</u>	USH 45							-				1		1	.		1	1
		(North Limits)	(South Limits)		Surveillance	None												1
				1	Communications	None	I -					1						I
SE	USH 45	Kewaskum	Washington	4	Detection	None	<u> </u>											
F-	1001110	(South Limits)	CTH D	+	Surveillance	None	 					 		1	 		1	1
1		(South Limits)	отпр									1		1			1	1
					Communications	None		<u> </u>			Ļ	Ļ	ļ	<u> </u>				
SE	USH 45	Washington	USH 41	14	Detection	ATR station upgrade	Per site	2	\$20,000	\$0	\$0	\$0	\$600	\$600	\$1,200	\$0		
		CTH D			Surveillance	None												
	1	1		1	Traffic Flow Management		Per gate	12	\$228,000	\$0	\$0	\$0	\$0	\$24,000	\$24,000	\$0		<u> </u>
	1	_		1		Ramp gates	Per gate	14	φΖΖΟ,000	ΨΟ	ΨΟ	φυ	φυ	Ψ24,000	ΨΖ4,000	ΨΟ		1
Ī	I	1			Communications	None		1	I	Ī	1	1	1	1	1		Ī	i I

COMMUNICATIONS OTHER STATEWIDE INFRASTRUCTURE (TOWERS, HUTS -- ARRA FUNDS)

TRUCTURE (TOWERS,

\$16,761,900	\$3,740,400	\$2,822,000	\$6,975,000	\$425,795	\$813,780	\$1,239,575	\$148,095
Estimated Total Capital Cost	Estimated Device Communications Cost	Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)

Table 6: South Central Connection Corridor - Cost Summary Table

	I		Sogment End	Coamont		T	T		Estimated Tatal	Estimated Davies	Estimated Naturals	Estimated Non	Maintananaa		Total O&M	Benjasament		1
Region		Segment Start		Segment Length	Device Type	Assumptions	Unit	Estimated	Capital	Estimated Device Communications	Communications	ITS Capital	Maintenance Cost	Operation Cost	Cost	Replacement Cost	WisDOT Projects in Corridor Segment	Device Deployment
		land inclines) i		(miles)				Quantity	Cost	Cost	Cost	Cost	(Per Year)	(Per Year)	(Per Year)	(Per Year)	, ,	Status
SW	H 39/90/94		MM 138	7	Detection	SEE BADGER STATE CORRIDOR										\$0		
		(STH 19)	(IH 94)		Surveillance	FOR DEVICE INFORMATION										\$0 \$0		
SW	H 39/90	MM 138	MM 145	7	Communications Detection	Mainline detector station	Per site	3	\$75,000	\$0	\$0	\$0	\$1,200	\$1,200	\$2,400	\$0 \$0		
		(IH 94)	1410	,	Dottodion	System interchange detector station	Per site	1	\$153,000	\$0	\$0	\$0	\$2,450	\$2,450	\$4,900	\$0		
					Surveillance	CCTV camera	Per camera	3	\$120,000	\$0	\$0	\$0	\$3,000	\$3,900	\$6,900	\$0		
					Non-ITS Devices Communications	Law enforcement pad Fiber optic line	Per pad Per mile	1 2	\$0 \$0	\$0 \$108,000	\$0 \$0	\$1,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		
SW	H 39/90	MM 145	MM 171	27	Detection	Mainline detector station	Per site	11	\$275,000	\$0	\$0	\$0	\$4,400	\$4,400	\$8,800	\$0		
			(USH 14)			Service interchange detector station	Per site	1	\$79,000	\$0	\$0	\$0	\$1,250	\$1,250	\$2,500	\$0		
						System interchange detector station ATR station upgrade	Per site Per site	1 1	\$153,000 \$10,000	\$0 \$0	\$0 \$0	\$0 \$0	\$2,450 \$300	\$2,450 \$300	\$4,900 \$600	\$0 \$0		
					Surveillance	CCTV camera	Per camera	8	\$320,000	\$0 \$0	\$0 \$0	\$0	\$8,000	\$10,400	\$18,400	\$0		
					Traffic Flow Management	Ramp gate	Per gate	10	\$190,000	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0		
					Traffic Signal Systems Traveler Information	Interchange termini upgrade DMS	Per site	2	\$328,000 \$346,000	\$0 \$0	\$0 \$0	\$0 \$0	\$8,200 \$19,700	\$8,200 \$19,700	\$16,400 \$39,400	\$16,400 \$0		
					Traveler information	PCMS pad	Per sign Per pad	2	\$14,000	\$0 \$0	\$0 \$0	\$0	\$19,700	\$19,700	\$39,400 \$0	\$0 \$0		
					Non-ITS Devices	Crash investigation site	Per site	4	\$0	\$0	\$0	\$360,000	\$0	\$0	\$0	\$0		
					Communications	Law enforcement pad	Per pad	3	\$0 \$0	\$0	\$0	\$3,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		
SW	H 39/90	MM 171	MM 177	6	Communications Detection	Fiber optic line Mainline detector station	Per mile Per site	27 3	\$0 \$75,000	\$1,458,000 \$0	\$0 \$0	\$0 \$0	\$0 \$1,200	\$0 \$1,200	\$0 \$2,400	\$0 \$0		
		(USH 14)	(S Jct STH 11)			Service interchange detector station	Per site	1	\$79,000	\$0	\$0	\$0	\$1,250	\$1,250	\$2,500	\$0		
					Compatition of	System interchange detector station	Per site	1	\$153,000	\$0 \$0	\$0 \$0	\$0 \$0	\$2,450	\$2,450	\$4,900	\$0 \$0		
					Surveillance Traffic Flow Management	CCTV camera Ramp gate	Per camera Per gate	3 8	\$120,000 \$152,000	\$0 \$0	\$0 \$0	\$0 \$0	\$3,000 \$0	\$3,900 \$16,000	\$6,900 \$16,000	\$0 \$0		
					Traffic Signal Systems	Interchange termini upgrade	Per site	1	\$3,000	\$0 \$0	\$0 \$0	\$0	\$200	\$200	\$400	\$300		
					Non-ITS Devices	Crash investigation site	Per site	2	\$0	\$0	\$0	\$180,000	\$0	\$0	\$0	\$0		
					Communications	Law enforcement pad	Per pad	1	\$0 \$0	\$0 \$324,000	\$0 \$0	\$1,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		
SW	H 39/90	MM 177	MM 185	8	Communications Detection	Fiber optic line Mainline detector station	Per mile Per site	2	\$50,000	\$324,000 \$0	\$0 \$0	\$0 \$0	\$800	\$0 \$800	\$0 \$1,600	\$0 \$0		
		(S Jct STH 11)				Service interchange detector station	Per site	2	\$158,000	\$0	\$0	\$0	\$2,500	\$2,500	\$5,000	\$0		
					Surveillance	CCTV camera	Per camera	3	\$120,000	\$0	\$0	\$0	\$3,000	\$3,900	\$6,900	\$0		
					Traffic Flow Management Traffic Signal Systems	Ramp gate Interchange termini upgrade	Per gate Per site	4	\$76,000 \$331,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$8,300	\$8,000 \$8,300	\$8,000 \$16,600	\$0 \$16,550		
					Traveler Information	PCMS pad	Per pad	2	\$14,000	\$0 \$0	\$0 \$0	\$0	\$0,300	\$0	\$10,000	\$10,550		
					Non-ITS Devices	Crash investigation site	Per site	2	\$0	\$0	\$0	\$180,000	\$0	\$0	\$0	\$0		
					Communications	Law enforcement pad	Per pad	1	\$0 \$0	\$0 \$432,000	\$0 \$0	\$1,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		
SW	H 39/90	MM 185	Illinois State Line	2	Communications Detection	Fiber optic line Mainline detector station	Per mile Per site	2	\$50,000	\$432,000 \$0	\$0 \$0	\$0 \$0	\$800	\$800	\$1,600	\$0 \$0		
	11 00/00	100	minolo otato Emic	_	Botodion	ivaliline detector station	i or site	_	ψου,σου	ΨΟ	ΨΟ	ΨΟ	φοσο	φοσο	Ψ1,000	ΨΟ		
		(IH 43)				System interchange detector station	Per site	1	\$153,000	\$0	\$0	\$0	\$2,450	\$2,450	\$4,900	\$0		
					Surveillance Traffic Flow Management	CCTV camera Ramp gate	Per camera Per gate	2	\$80,000 \$76,000	\$0 \$0	\$0 \$0	\$0 \$0	\$2,000 \$0	\$2,600 \$8,000	\$4,600 \$8,000	\$0 \$0		
					Traveler Information	PCMS pad	Per pad	1	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
					Non-ITS Devices	Crash investigation site	Per site	2	\$0	\$0	\$0	\$180,000	\$0	\$0	\$0	\$0		
CM	USH 51	IH 39/90/94	USH 151	4	Communications Detection	Fiber optic line SEE BADGER STATE CORRIDOR	Per mile	2	\$0	\$108,000	\$0	\$0	\$0	\$0	\$0	\$0		
SVV	05051	IH 39/90/94	USH 131	4	Surveillance	FOR DEVICE INFORMATION		1										
					Communications													
SW	USH 51	USH 151	CTH BB	3	Detection	SEE BADGER STATE CORRIDOR												
					Surveillance Communications	FOR DEVICE INFORMATION		1										
SW	USH 51	СТН ВВ	USH 12 / 18	3	Detection	SEE BADGER STATE CORRIDOR		1	<u> </u>			<u> </u>						
					Surveillance	FOR DEVICE INFORMATION												
C/V/	IQLI E4	HCH 40 / 40	Mahanay Dd	4	Communications	None	+	<u> </u>	1	 		 				ļ		
SW	USH 51	USH 12 / 18	Mahoney Rd	4	Detection Surveillance	None None	1			1		1						
					Communications	T1 line	Per unit	1	\$0	\$1,200	\$0	\$0	\$200	\$8,000	\$8,200	\$0		
SW	USH 51	Mahoney Rd	Dane CTH B	2	Detection	None												
					Surveillance Communications	None None	-	1	-									
SW	USH 51	Dane CTH B	N Page St		Detection	None	+		†	 		 						
			(Stoughton)		Surveillance	None												
CVA	IOU 54	N Design	ILL 20/00	7	Communications	None		<u> </u>	ļ	 		 				ļ		ļ
24/			IH 39/90 (N Jct)	/	Detection Surveillance	None None	1		1	 		1						
		(Communications	None				<u> </u>		<u> </u>						
SW			USH 14	11	Detection	None												
		(S Jct)			Surveillance Communications	None None			1			1						
SW	USH 51	USH 14	Janesville	6	Detection	None None	+	1	 	 		 						
			(South Limits)		Surveillance	None												
0)47	1011.54			10	Communications	None												
SW		Janesville (South Limits)	E Inman Pkwy (Beloit)		Detection Surveillance	None None		1	-	 		 						
		(Codin Lining)	(Doloit)		Communications	None	1		1	† †		1						
SW	USH 51	E Inman Pkwy	Illinois State Line	5	Detection	None	1					1						
		(Polo:4)			Cumpoillanas	None			1			 						
		(Beloit)			Surveillance Communications	None None	1		1	 		1						
SW	USH 14	USH 12 / 18	STH 138	9	Detection	None	1		<u> </u>									
					Surveillance	None					-			•	-			
					Communications	T1 line	Per unit	2	\$0	\$2,400	\$0	\$0	\$400	\$16,000	\$16,400	\$0		

SW	USH 14	STH 138	N Madison St	11	Detection	None						
			(Evansville)		Surveillance	None						
					Communications	None						
SW	STH 213	N Madison St	Illinois State Line	29	Detection	None						
		(Evansville)			Surveillance	None						
					Communications	None						

COMMUNICATIONS OTHER STATEWIDE INFRASTRUCTURE (TOWERS, HUTS -- ARRA FUNDS)

\$500,000

\$3,760,000	\$2,433,600	\$500,000	\$906,000	\$79,500	\$160,600	\$240,100	\$33,250
Estimated Total Capital Cost	Estimated Device Communications Cost	Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)

Table 7: Hiawatha Corridor - Cost Summary Table

SE IH 94 N Jet IH 43 STH 100 12 SE IH 94 STH 100 STH 241 3 SE IH 94 STH 241 STH 142 15 SE IH 94 STH 142 STH 50 4 SE IH 94 STH 50 STH 165 3 SE IH 94 STH 165 Illinois State 2 Line 2 SE USH 45 IH 94 IH 43 5 SE USH 45 IH 43 STH 24 2 SE USH 45 N Jet STH 36 S Jet STH 36 2 SE USH 45 N Jet STH 36 S Jet STH 36 2 SE USH 45 N Jet STH 36 STH 50 23	Start (but does not include) Segment End Segment Length (miles) Device Type	Assumptions	Unit	Estimated Quantity	Estimated Total Capital Cost	Estimated Device Communications Cost	Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)	WisDOT Projects in Corridor Segment	Device Deployment Status
SE IH 94 STH 241 STH 142 15 SE IH 94 STH 142 STH 50 4 SE IH 94 STH 50 STH 165 3 SE IH 94 STH 165 Illinois State 2 Line SE USH 45 IH 94 IH 43 5 SE USH 45 IH 94 IH 43 5 SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	3 STH 100 12 Detection	Mainline detector station	Per site	17	\$425,000	\$0	\$0	\$0	\$6,800	\$6,800	\$13,600	\$0		
SE IH 94 STH 241 STH 142 15 SE IH 94 STH 142 STH 50 4 SE IH 94 STH 50 STH 165 3 SE IH 94 STH 165 Illinois State 2 Line SE USH 45 IH 94 IH 43 5 SE USH 45 IH 94 IH 43 5 SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2		Service interchange detector station	Per site	1	\$79,000	\$0	\$0	\$0 \$0	\$1,250	\$1,250	\$2,500	\$0		
SE	+ + +	System interchange detector station ATR station upgrade	Per site Per site	5	\$153,000 \$50,000	\$0 \$0	\$0 \$0	\$0 \$0	\$2,450 \$1,500	\$2,450 \$1,500	\$4,900 \$3,000	\$0 \$0		
SE	Surveillance	CCTV camera	Per camera	16	\$640,000	\$0	\$0	\$0	\$16,000	\$20,800	\$36,800	\$0		
SE	Traffic Flow N	• • •	Per gate	24	\$456,000	\$0	\$0	\$0	\$0	\$48,000	\$48,000	\$0		
SE	Traffic Signal	Ramp meters	Per meter Per site	24	\$1,200,000 \$618,000	\$0 \$0	\$0 \$0	\$0 \$0	\$33,600 \$15,800	\$24,000 \$15,800	\$57,600 \$31,600	\$0 \$30,900		
SE	Traveler Info		Per sign	3	\$519,000	\$0 \$0	\$0	\$0 \$0	\$15,800	\$15,800	\$59,100	\$30,900		
SE	Non-ITS Dev		Per site	19	\$0	\$0	\$0	\$1,710,000	\$0	\$0	\$0	\$0		
SE		Law enforcement pad	Per pad	9	\$0	\$0	\$0	\$9,000	\$0	\$0	\$0	\$0		
SE	Communicati	Fiber optic line (O&M only) Mainline detector station	Doroito	2	\$50,000	\$0	\$0	\$ 0	\$900	COO	¢1 600	\$0		
SE IH 94 STH 142 STH 50 4 SE IH 94 STH 50 STH 165 3 SE IH 94 STH 165 Illinois State Line SE USH 45 IH 94 IH 43 5 SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	STH 241 3 Detection Surveillance	CCTV camera	Per site Per camera	1	\$50,000 \$40,000	\$0 \$0	\$0 \$0	\$0 \$0	\$800 \$1,000	\$800 \$1,300	\$1,600 \$2,300	\$0 \$0		
SE IH 94 STH 142 STH 50 4 SE IH 94 STH 50 STH 165 3 SE IH 94 STH 165 Illinois State Line SE USH 45 IH 94 IH 43 5 SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	Traffic Flow N		Per gate	3	\$57,000	\$0	\$0	\$0	\$0	\$6,000	\$6,000	\$0		
SE IH 94 STH 142 STH 50 4 SE IH 94 STH 50 STH 165 3 SE IH 94 STH 165 Illinois State Line SE USH 45 IH 94 IH 43 5 SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2		Ramp meters	Per meter	1	\$50,000	\$0	\$0	\$0	\$1,400	\$1,000	\$2,400	\$0		
SE IH 94 STH 142 STH 50 4 SE IH 94 STH 50 STH 165 3 SE IH 94 STH 165 Illinois State Line SE USH 45 IH 94 IH 43 5 SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	Traffic Signal		Per site	1	\$38,000	\$0 \$0	\$0	\$0	\$1,000	\$1,000	\$2,000	\$1,900		
SE IH 94 STH 142 STH 50 4 SE IH 94 STH 50 STH 165 3 SE IH 94 STH 165 Illinois State Line SE USH 45 IH 94 IH 43 5 SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	Non-ITS Dev	Crash investigation site Law enforcement pad	Per site Per pad	1	\$0 \$0	\$0 \$0	\$0 \$0	\$180,000 \$1,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		
SE IH 94 STH 142 STH 50 4 SE IH 94 STH 50 STH 165 3 SE IH 94 STH 165 Illinois State Line SE USH 45 IH 94 IH 43 5 SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	Communicati	<u>'</u>	i ci pad		ΨΟ	ΨΟ	ΨΟ	ψ1,000	ΨΟ	ΨΟ	ΨΟ	ΨΟ		
SE	STH 142 15 Detection	Mainline detector station	Per site	15	\$375,000	\$0	\$0	\$0	\$6,000	\$6,000	\$12,000	\$0		
SE		ATR station upgrade	Per site	2	\$20,000	\$0	\$0	\$0 \$0	\$600	\$600	\$1,200	\$0		
SE	Surveillance Traffic Flow	CCTV camera	Per camera	9	\$360,000 \$385,000	\$0 \$0	\$0 \$0	\$0 \$0	\$9,000 \$0	\$11,700 \$30,000	\$20,700	\$0 \$0		
SE	Traffic Flow N Traffic Signal		Per gate Per site	15 2	\$285,000 \$384,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$9,600	\$30,000 \$9,600	\$30,000 \$19,200	\$0 \$19,200		
SE IH 94 STH 50 STH 165 3 SE IH 94 STH 165 Illinois State 2 Line SE USH 45 IH 94 IH 43 5 (IH 894) SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	Traveler Infor		Per sign	2	\$346,000	\$0	\$0	\$0	\$19,700	\$19,700	\$39,400	\$0		
SE IH 94 STH 50 STH 165 3 SE IH 94 STH 165 Illinois State 2 Line SE USH 45 IH 94 IH 43 5 (IH 894) SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	Non-ITS Dev	es Crash investigation site	Per site	15	\$0	\$0	\$0	\$1,350,000	\$0	\$0	\$0	\$0		
SE		Law enforcement pad	Per pad	8	\$0	\$0	\$0	\$8,000	\$0	\$0	\$0	\$0		
SE	STH 50 4 Detection	Fiber optic line (O&M only) Mainline detector station	Don olto	2	\$50,000	\$0	ΦO	ΦO	6000	\$200	64 600	ΦΩ		1
SE	Surveillance	CCTV camera	Per site Per camera	2	\$50,000 \$80,000	\$0 \$0	\$0 \$0	\$0 \$0	\$800 \$2,000	\$800 \$2,600	\$1,600 \$4,600	\$0 \$0		
SE	Traffic Flow N		Per gate	4	\$76,000	\$0	\$0	\$0	\$0	\$8,000	\$8,000	\$0		
SE	Traveler Infor	ation DMS	Per sign	1	\$173,000	\$0	\$0	\$0	\$9,850	\$9,850	\$19,700	\$0		
SE	Non-ITS Dev	· · · · · · · · · · · · · · · · · · ·	Per site	4	\$0	\$0	\$0	\$360,000	\$0	\$0	\$0	\$0		
SE USH 45 IH 43 STH 24 2	Communicati	Law enforcement pad Fiber optic line (O&M only)	Per pad	2	\$0	\$0	\$0	\$2,000	\$0	\$0	\$0	\$0		
SE USH 45 IH 43 STH 24 2		Mainline detector station	Per site	2	\$50,000	\$0	\$0	\$0	\$800	\$800	\$1,600	\$0		
SE USH 45 IH 94 IH 43 5 (IH 894) SE USH 45 IH 43 STH 24 2 SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	5111100 0 500001	ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
SE USH 45 IH 94 IH 43 5 (IH 894) SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 S Local SE USH 45 N Jct STH 36 S Local SE USH 45 N Jct STH 36 S Local STH 36 S Loca	Surveillance	CCTV camera	Per camera	2	\$80,000	\$0	\$0	\$0	\$2,000	\$2,600	\$4,600	\$0		
SE USH 45 IH 94 IH 43 5 (IH 894) SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 S Local SE USH 45 N Jct STH 36 S Local SE USH 45 N Jct STH 36 S Local STH 36 S Loca	Traffic Flow N		Per gate	4	\$76,000	\$0	\$0	\$0	\$0	\$8,000	\$8,000	\$0		
SE USH 45 IH 94 IH 43 5 (IH 894) SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 S Local SE USH 45 N Jct STH 36 S Local SE USH 45 N Jct STH 36 S Local STH 36 S Loca	Traffic Signal Traveler Info		Per site Per sign	1	\$38,000 \$173,000	\$0 \$0	\$0 \$0	\$0 \$0	\$1,000 \$9,850	\$1,000 \$9,850	\$2,000 \$19,700	\$1,900 \$0		
SE USH 45 IH 94 IH 43 5 (IH 894) SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 S Local SE USH 45 N Jct STH 36 S Local SE USH 45 N Jct STH 36 S Local STH 36 S Loca	Non-ITS Dev		Per sign	4	\$173,000	\$0 \$0	\$0	\$360,000	\$9,830	\$9,830	\$0	\$0		
SE USH 45 IH 94 IH 43 5 (IH 894) SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 S Local SE USH 45 N Jct STH 36 S Local SE USH 45 N Jct STH 36 S Local STH 36 S Loca		Law enforcement pad	Per pad	2	\$0	\$0	\$0	\$2,000	\$0	\$0	\$0	\$0		
SE USH 45 IH 94 IH 43 5 (IH 894) SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 S Local SE USH 45 N Jct STH 36 S Local SE USH 45 N Jct STH 36 S Local STH 36 S Loca	Communicati													
SE USH 45 IH 94 IH 43 5 (IH 894) SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2		Mainline detector station	Per site	2	\$50,000	\$0	\$0	\$0	\$800	\$800	\$1,600	\$0		
SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	Line Surveillance Traffic Flow N	CCTV camera nagement Ramp gates	Per camera Per gate	2	\$80,000 \$38,000	\$0 \$0	\$0 \$0	\$0 \$0	\$2,000 \$0	\$2,600 \$4,000	\$4,600 \$4,000	\$0 \$0		
SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	Traffic Signal		Per site	1	\$363,000	\$0 \$0	\$0	\$0	\$9,100	\$9,100	\$18,200	\$18,150		
SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	Non-ITS Dev		Per site	2	\$0	\$0	\$0	\$180,000	\$0	\$0	\$0	\$0		
SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2		Law enforcement pad	Per pad	1	\$0	\$0	\$0	\$1,000	\$0	\$0	\$0	\$0		
SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	Communicati		Danaita		#475 000	Φ0	Φ0	Φ0	#0.000	# 0.000	Φ Γ 000	Φ0		
SE USH 45 IH 43 STH 24 2 SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 2	IH 43 5 Detection	Mainline detector station Service interchange detector station	Per site Per site	1	\$175,000 \$79,000	\$0 \$0	\$0 \$0	\$0 \$0	\$2,800 \$1,250	\$2,800 \$1,250	\$5,600 \$2,500	\$0 \$0		
SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2		ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	Surveillance	CCTV camera	Per camera	5	\$200,000	\$0	\$0	\$0	\$5,000	\$6,500	\$11,500	\$0		
SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	Traffic Flow N	, ,	Per gate	10	\$190,000	\$0	\$0	\$0 \$0	\$0	\$20,000	\$20,000	\$0 \$0		
SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	Traffic Signal	Ramp meters	Per meter Per site	10	\$500,000 \$184,000	\$0 \$0	\$0 \$0	\$0 \$0	\$14,000 \$4,800	\$10,000 \$4,800	\$24,000 \$9,600	\$0 \$9,200		
SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	Traveler Info	·	Per sign	2	\$346,000	\$0 \$0	\$0 \$0	\$0 \$0	\$4,800	\$4,800 \$19,700	\$9,600	\$9,200		
SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	Non-ITS Dev	crash investigation site	Per site	10	\$0	\$0	\$0	\$900,000	\$0	\$0	\$0	\$0		
SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2		Law enforcement pad	Per pad	5	\$0	\$0	\$0	\$5,000	\$0	\$0	\$0	\$0		
SE USH 45 STH 24 N Jct STH 36 3 SE USH 45 N Jct STH 36 S Jct STH 36 2	Communicati		Danielli .		Φ0	Φ0	Φ0	Φ0	# 0	00	Φ0	Φ0	<u> </u>	1
SE USH 45 N Jct STH 36 S Jct STH 36 2	STH 24 2 Detection Surveillance	None None	Per site Per camera	0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		
SE USH 45 N Jct STH 36 S Jct STH 36 2	Traffic Flow N		Per gate	0	\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0		
SE USH 45 N Jct STH 36 S Jct STH 36 2		None	Per meter	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
SE USH 45 N Jct STH 36 S Jct STH 36 2	Traffic Signal		Per site	1	\$559,200	\$0	\$0	\$0 \$0	\$40,680	\$14,040	\$54,720	\$27,960		
SE USH 45 N Jct STH 36 S Jct STH 36 2	Traveler Info		Per sign Per mile	1	\$83,000 \$0	\$0 \$108,000	\$0 \$0	\$0 \$0	\$4,700 \$0	\$4,700 \$0	\$9,400	\$0 \$0		
SE USH 45 N Jct STH 36 S Jct STH 36 2	N Jct STH 36 3 Detection	Fiber optic line None	rei iillie		Φυ	\$108,000	Φυ	Φυ	ΦU	ФО	\$0	ΦU		
	Surveillance	CCTV camera	Per camera	1	\$40,000	\$0	\$0	\$0	\$1,000	\$1,300	\$2,300	\$0		1
	Communicati		-					·		,	•	·		
SE USH 45 S Jct STH 36 STH 50 23		None												
SE USH 45 S Jct STH 36 STH 50 23	Surveillance	None None						-		1		 		
52 55.1 10 5 500 5111 50 5111 50	Communicati 36 STH 50 23 Detection	None None		1						 		 		
 	Surveillance	None		1										
	Communicati	ns None												
SE USH 45 STH 50 CTH AH 1		None												
	Surveillance	None						 				 		
SE USH 45 CTH AH Illinois State 4	Illinois State 4 Detection	None None						 		+ +		 		+
SE USH 45 CTH AH IIIINOIS State 4		None								 		 		
	Communicati													

SE	STH 32	(IH 794)	Drexel Blvd	12	Detection	None											
		,	(South		Surveillance	None											
			Milwaukee)		Communications	None											
SE	STH 32	Drexel Blvd	Milwaukee /	4	Detection	None							i				
		(South	Racine Cty Line		Surveillance	None											
		Milwaukee)	·		Communications	None											
SE	STH 32	Milwaukee /	STH 11	13	Detection	None											
		Racine Cty Line			Surveillance	None											
					Communications	None											
SE	STH 32	STH 11	STH 158	8	Detection	None											
					Surveillance	None											
					Communications	None											
SE	STH 32	STH 158	Illinois State	7	Detection	None											
			Line		Surveillance	None											
					Communications	None											
SE	STH 31	STH 32	Racine /	11	Detection	None											
			Kenosha		Surveillance	None											
			Cty Line		Traffic Signal Systems	Corridor signal upgrade	Per unit	1	\$575,600	\$0	\$0	\$0	\$14,520	\$27,780	\$42,300	\$28,780	
					Communications	None											
SE	STH 31	Racine /	Illinois State	12	Detection	None											
		Kenosha	Line		Surveillance	None											
		Cty Line			Communications	None											
					COMMUNICATIONS	OTHER STATEWIDE INFRASTRUCTURE (TOW	ERS,				\$500,000						

OTHER STATEWIDE INFRASTRUCTURE (TOWERS, HUTS -- ARRA FUNDS)

\$10,423,800	\$108,000	\$500,000	\$5,068,000	\$303,300	\$411,320	\$714,620	\$137,990
Estimated Total Capital Cost	Estimated Device Communications Cost	Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)

Table 8: Chippewa Valley Corridor - Cost Summary Table

			Segment End	Sagment					Estimated Total	Estimated Device	Estimated Network	Estimated Non-	- Maintenance		Total O&M	Replacement	I	
Region	Highway	(and includes)	Segment End (but does not include)	Segment Length (miles)	Device Type	Assumptions	Unit	Estimated Quantity	Capital Cost	Communications Cost		ITS Capital Cost	Cost (Per Year)	Operation Cost (Per Year)	Cost (Per Year)	Cost (Per Year)	WisDOT Projects in Corridor Segment	Device Deployment Status
NW	IH 94	MM 0	MM 3	3	Detection	Mainline detector station	Per site	1	\$25,000	\$0	\$0	\$0	\$400	\$400	\$800	\$0		+
			(STH 35)			Service interchange detector station	Per site	2	\$158,000	\$0	\$0	\$0	\$2,500	\$2,500	\$5,000	\$0		
		State Line				CCTV camera Ramp gate	Per camera Per gate	5	\$80,000 \$95,000	\$0 \$0	\$0 \$0	\$0 \$0	\$2,000 \$0	\$2,600 \$10,000	\$4,600 \$10,000	\$0 \$0		
)	DMS	Per sign	1	\$173,000	\$0	\$0	\$0	\$9,850	\$9,850	\$19,700	\$0		
					Non - ITS devices	Crash investigation site	Per site	4	\$0	\$0	\$0	\$360,000	\$0	\$0	\$0	\$0		
					Communications	Law enforcement pad Fiber optic cable (operations & maintenance only)	Per site	3	\$0	\$0	\$0	\$3,000	\$0	\$0	\$0	\$0		
NW	IH 94	MM 3	MM 19			Mainline detector station	Per site	2	\$50,000	\$0	\$0	\$0	\$800	\$800	\$1,600	\$0		
		(STH 35)	(USH 63)			Service interchange detector station	Per site	2	\$158,000	\$0	\$0	\$0	\$2,500	\$2,500	\$5,000	\$0		
						CCTV camera Ramp gate	Per camera Per gate	8	\$160,000 \$152,000	\$0 \$0	\$0 \$0	\$0 \$0	\$4,000 \$0	\$5,200 \$16,000	\$9,200 \$16,000	\$0 \$0		
					ŭ	Interchange termini upgrade	Per site	1	\$3,000	\$0	\$0	\$0	\$100	\$100	\$200	\$150		
						DMS	Per sign	1	\$173,000	\$0	\$0	\$0	\$9,850	\$9,850	\$19,700	\$0		
						Roadside DMS sign PCMS pad	Per sign Per pad	0	\$83,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$4,700 \$0	\$4,700 \$0	\$9,400 \$0	\$0 \$0		
						Crash investigation site	Per site	4	\$0	\$0	\$0	\$360,000	\$0	\$0	\$0	\$0 \$0		
						Fiber optic cable (operations & maintenance only)												
NW	IH 94	MM 19	MM 41	22		Mainline detector station ATR station upgrade	Per site	1	\$25,000 \$10,000	\$0 \$0	\$0 \$0	\$0 \$0	\$400 \$300	\$400 \$300	\$800 \$600	\$0 \$0		
		(USH 63)	(STH 25)		Surveillance	CCTV camera	Per site Per camera	4	\$160,000	\$0	\$0 \$0	\$0	\$4,000	\$5,200	\$9,200	\$0		
		,	,		Traffic Flow Management	Ramp gate	Per gate	8	\$152,000	\$0	\$0	\$0	\$0	\$16,000	\$16,000	\$0		
						Roadside DMS sign Fiber optic cable (operations & maintenance only)	Per sign	1	\$83,000	\$0	\$0	\$0	\$4,700	\$4,700	\$9,400	\$0		1
NW	IH 94	MM 41	MM 45	4	Detection	None	1	+	+	+	 		1			+		+
	-	(STH 25)	(Dunn CTH B)		Surveillance	CCTV camera	Per camera	1	\$40,000	\$0	\$0	\$0	\$1,000	\$1,300	\$2,300	\$0		
					Traffic Signal Systems Traffic Flow Management	Interchange termini upgrade Ramp gate	Per site	1	\$3,000 \$76,000	\$0 \$0	\$0 \$0	\$0 \$0	\$100 \$0	\$100 \$8,000	\$200 \$8,000	\$150 \$0		
					•	Fiber optic cable (operations & maintenance only)	Per gate	4	\$76,000	Φ0	\$0	Φ0	\$0	\$8,000	\$8,000	Φ0		
NW	IH 94	MM 45	MM 59	14		Service interchange detector station	Per site	1	\$79,000	\$0	\$0	\$0	\$1,250	\$1,250	\$2,500	\$0		
		(Dunn CTH B)	(STH 312)		Surveillance	CCTV camera	Per camera	2	\$80,000	\$0	\$0	\$0	\$2,000	\$2,600	\$4,600	\$0		
					Traffic Flow Management Traveler Information	Ramp gates Roadside DMS sign	Per gate Per sign	4	\$76,000 \$332,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$18,800	\$8,000 \$18,800	\$8,000 \$37,600	\$0 \$0		_
					Traveler information	PCMS pad	Per pad	0	\$332,000	\$0	\$0	\$0	\$10,000	\$10,800	\$37,600	\$0		
					Communications	Fiber optic cable (operations & maintenance only)									-			
NW	IH 94	MM 59 (STH 312)	MM 70 (USH 53)	11		Service interchange detector station	Per site Per site	3	\$237,000 \$153,000	\$0 \$0	\$0 \$0	\$0 \$0	\$3,750 \$2,450	\$3,750 \$2,450	\$7,500 \$4,900	\$0 \$0		
		(3111312)	(05H 55)			System interchange detector station CCTV camera	Per site Per camera	4	\$160,000	\$0	\$0	\$0	\$4,000	\$5,200	\$9,200	\$0		
					Traffic Flow Management	Ramp gate	Per gate	10	\$190,000	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0		
						Roadside DMS sign	Per sign Per site	3	\$249,000	\$0 \$0	\$0 \$0	\$0 \$720,000	\$14,100 \$0	\$14,100 \$0	\$28,200 \$0	\$0 \$0		
					Communications	Crash investigation site Fiber optic cable (operations & maintenance only)	Per site	8	\$0	\$0	\$0	\$720,000	\$0	\$0	Φ0	Φ0		
NW	USH 12	IH 94	S Jct USH 63	18		None												
						None		1										
NW	USH 12	S Jct USH 63	W Jct STH 29	25	Communications Detection	None None		1										
	001112					None												
NA/		OTH 00	W. L. 6711040	_		None												
NW	USH 12	E Jct STH 29	W Jct STH 312	7		None None												
						None												
NW	USH 12	W Jct STH 312	USH 53	10		None												
					Surveillance Communications	CCTV camera T1 Line	Per camera Per unit	3	\$120,000 \$0	\$0 \$3,600	\$0 \$0	\$0 \$0	\$3,000 \$600	\$3,900 \$24,000	\$6,900 \$24,600	\$0 \$0		
NW	STH 35	IH 94	STH 65	7	Detection	None	rerunit	3	φ0	φ3,000	φυ	φυ	φουσ	\$24,000	\$24,000	φυ		
						None												
NIN/	STH 35	STH 65	CTH 20	2		None	-		-	1	 	 	1	ļ		1		1
1414	0111 00	311103	STH 29			None None			1	1	1		1			1		1
					Communications	None												
NW	STH 29	STH 35	Menomonie	35		None												
		1	(West Limits)	1		None None			1	1	 	1	1	1		1		1
NW	STH 29	Menomonie	Menomonie	6		None												
		(West Limits)	(East Limits)			None	Dan 15		0.0	# 7.000	40	00	# 4.000	040.000	MAD COS	00		
NW	STH 29	Menomonie	IH 94	-		T1 Line None	Per unit	6	\$0	\$7,200	\$0	\$0	\$1,200	\$48,000	\$49,200	\$0	 	+
4 4 4	J 1 1 1 2 3	(East Limits)				None												
		,			Communications	None												
NW	STH 29	IH 94	USH 53	16		ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
				1		None None	Per unit	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		1
NW	STH 29	USH 53	Chippewa		Detection	None				·	·		·		* -			
			CTH K			CCTV camera	Per camera	3	\$120,000	\$0 \$0	\$0 \$0	\$0 \$0	\$3,000	\$3,900	\$6,900	\$0 \$0		
						PCMS pad Crash investigation site	Per pad Per site	2	\$7,000 \$0	\$0 \$0	\$0 \$0	\$0 \$180,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		1
					Communications	T1 Line	Per unit	3	\$0	\$3,600	\$0	\$0	\$600	\$24,000	\$24,600	\$0 \$0		
NW	STH 312	E Jct USH 12	USH 53	5		None												
				1		None None					-		1					-
		11011.50	Park Avenue	4		None	_	†	†	†	 	†	†	†		†		†
NW	STH 124	USH 53	I alk Avellue		2010011011			_	_	_	_	_	_			_	_	
١W	STH 124		(Chippewa Falls)		Surveillance	CCTV camera T1 Line	Per camera Per unit	1	\$40,000 \$0	\$0 \$1,200	\$0 \$0	\$0	\$1,000 \$200	\$1,300 \$8,000	\$2,300 \$8,200	\$0 \$0		

NW	USH 53	IH 94	STH 29	11							
					SEE PEACE MEMORIAL CORRIDOR						
					FOR DEVICE INFORMATION						

COMMUNICATIONS OTHER STATEWIDE INFRASTRUCTURE (TOWERS,

HUTS -- ARRA FUNDS)

\$500,000

\$3,712,000	\$15,600	\$500,000	\$1,623,000	\$103,450	\$290,050	\$393,500	\$300
Estimated Total Capital Cost	Estimated Device Communication Cost	Estimated Network Communication Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replace Cost (Per Year)

Table 9: Wisconsin River Corridor - Cost Summary Table

_	1				_	1		1	1	_						_		_
		Segment Start	Segment End	Segment				Estimated	Estimated Total	Estimated Device	Estimated Network	Estimated Non-	Maintenance	Operation Cost	Total O&M	Replacement		Device Deployment
Region	Highway	(and includes)	(but does not include)	Length (miles)	Device Type	Assumptions	Unit	Quantity	Capital Cost	Communications Cost	Communications Cost	ITS Capital Cost	Cost (Per Year)	(Per Year)	Cost (Per Year)	Cost (Per Year)	WisDOT Projects in Corridor Segment	Status
NC	USH 51	USH 2	CTH N	46	Detection	None		1				 						
					Surveillance	None												
					Communications	Fiber optic cable (ARRA funding)	Per mile	46	\$0	\$0	\$2,484,000	\$0	\$0	\$0	\$0	\$0		
NC	USH 51	CTH N	STH 47	7	Detection	None			,	<u> </u>	, ,	<u> </u>		·	•			
					Surveillance	None												
					Communications	Fiber optic cable (ARRA funding)	Per mile	7	\$0	\$0	\$378,000	\$0	\$0	\$0	\$0	\$0		
NC	USH 51	STH 47	MM 234	26	Detection	None			7 -	1.	+ 2 * 2 , 2 2 2	1	7.2	**	* -	**		
					Surveillance	None												
					Communications	Fiber optic cable (ARRA funding)	Per mile	26	\$0	\$0	\$1,404,000	\$0	\$0	\$0	\$0	\$0		
NC	USH 51	MM 234	MM 229	6	Detection	None			4.0	4.0	4 1,101,000	1	4.0	**	4.0	***		
110	001101	(USH 8)	(STH 86)	Ť	Surveillance	None				1								
		(00110)	(011100)		Communications	Fiber optic cable (ARRA funding)	Per mile	6	\$0	\$0	\$324,000	\$0	\$0	\$0	\$0	\$0		
NC	USH 51	MM 229	MM 194	35	Detection	ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
INC	031131		(CTH K /	33	Traveler Information	PCMS pad	Per pad	1 1	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
			CTH U)		Communications	Fiber optic cable (ARRA funding)	Per mile	35	\$0	\$0 \$0	\$1,890,000	\$0 \$0	\$0	\$0	\$0 \$0	\$0 \$0		
NC	LICH 51	MM 194	,	0		Mainline detector station		+	\$203,000	\$0	. , ,	\$0	+ -	ΨΨ	ΨΟ	ΨΟ		+
INC	USH 51	(CTH K /	MM 187 (South Jct	0	Detection		Per site Per site	14	\$203,000	\$0 \$0	\$0 \$0	\$0 \$0	\$3,500 \$300	\$3,500 \$300	\$7,000 \$600	\$0 \$0		
					Survoillance	ATR station upgrade	_	6		\$0 \$0	\$0 \$0	\$0 \$0				\$0		
	-	CTH U)	STH 29)		Surveillance Traffic Signal Systems	CCTV camera Interchange termini upgrade	Per camera Per site	4	\$240,000 \$377,000	\$0 \$0	\$0 \$0	\$0 \$0	\$6,000 \$9,500	\$7,800 \$9,500	\$13,800 \$19,000	\$18,400		
					Traveler Information	Roadside DMS		2	\$166,000	\$0	\$0	\$0 \$0	\$9,500	\$9,400	\$18,800	\$18,400		
					Traveler information		Per sign	4		\$0	\$0	\$0 \$0	\$9,400	\$9,400	\$10,000	\$0		
					Non-ITS Devices	PCMS pad	Per pad	12	\$7,000 \$0	\$0 \$0	·	\$1,080,000	\$0	\$0	\$0 \$0	\$0		
					Non-115 Devices	Crash investigation site	Per site	12	<u> </u>	\$0 \$0	\$0 \$0			* -	\$0 \$0	\$0		
					Communications	Law enforcement pad	Per pad	5	\$0	-	\$0	\$5,000 \$0	\$0	\$0 \$0	\$0 \$0	\$0		
					Communications	Fiber optic cable	Per mile	0	\$0 \$0	\$432,000	\$0	\$0 \$0	\$0	\$0	Ψ 0	\$0 \$0		
NO	11.1.00	NANA 407	NANA 404	00	Communications	T1 line	Per mile	1	Ψΰ	\$1,200	Ψ.	ΨΟ	\$200	\$8,000	\$8,200	ΨΟ		
NC	IH 39	MM 187	MM 161	28	Detection	Mainline detector station	Per site	6	\$87,000	\$0	\$0	\$0	\$1,500	\$1,500	\$3,000	\$0		-
		(South Jct	(North Jct		0 111	ATR station upgrade	Per site	<u>'</u>	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
		STH 29)	Bus 51)		Surveillance	CCTV camera	Per camera	2	\$80,000	\$0	\$0	\$0	\$2,000	\$2,600	\$4,600	\$0		
					Traffic Flow Management	Ramp gate	Per gate	12	\$228,000	\$0	\$0	\$0	\$0	\$24,000	\$24,000	\$0		
					Traveler Information	Roadside DMS	Per sign	2	\$166,000	\$0	\$0	\$0	\$9,400	\$9,400	\$18,800	\$0		
					Non-ITS Devices	Law enforcement pad	Per pad	1	\$0	\$0	\$0	\$1,000	\$0	\$0	\$0	\$0		
					Communications	Fiber optic cable (ARRA funding)	Per mile	28	\$0	\$0	\$1,512,000	\$0	\$0	\$0	\$0	\$0		
					Communications	T1 line	Per mile	1	\$0	\$1,200	\$0	\$0	\$200	\$8,000	\$8,200	\$0		
NC	IH 39	MM 161	MM 158	4	Detection	None			\$0						\$0	\$0		
		(North Jct	(USH 10)		Traffic Flow Management	Ramp gate	Per gate	4	\$76,000	\$0	\$0	\$0	\$0	\$8,000	\$8,000	\$0		
		Bus 51)			Communications	Fiber optic cable	Per mile	4	\$0	\$0	\$216,000	\$0	\$0	\$0	\$0	\$0		
SW, NC	IH 39	MM 158	MM 92	64	Detection	ATR station upgrade	Per site	2	\$20,000	\$0	\$0	\$0	\$600	\$600	\$1,200	\$0		
		(USH 10)	(USH 51)		Traffic Flow Management	Ramp gate	Per gate	23	\$437,000	\$0	\$0	\$0	\$0	\$46,000	\$46,000	\$0		
					Communications	Fiber optic cable (ARRA funding)	Per mile	64	\$0	\$0	\$3,456,000	\$0	\$0	\$0	\$0	\$0		
SW	IH 39	MM 92	MM 89	3	Detection	Mainline detector station	Per site	1	\$25,000	\$0	\$0	\$0	\$400	\$400	\$800	\$0		
		(USH 51)	(STH 16)		Surveillance	CCTV camera	Per camera	1	\$40,000	\$0	\$0	\$0	\$1,000	\$1,300	\$2,300	\$0		
					Traffic Flow Management	Ramp gate	Per gate	2	\$38,000	\$0	\$0	\$0	\$0	\$4,000	\$4,000	\$0		
					Communications	Fiber optic cable (ARRA funding)	Per mile	3	\$0	\$0	\$162,000	\$0	\$0	\$0	\$0	\$0		
SW	IH 39	MM 89	MM 108	6	Detection	Service interchange detector station	Per site	1	\$79,000	\$0	\$0	\$0	\$1,250	\$1,250	\$2,500	\$0		
		(STH 16)	(IH 90/94)			System interchange detector station	Per site	1	\$153,000	\$0	\$0	\$0	\$2,450	\$2,450	\$4,900	\$0		
					Surveillance	CCTV camera	Per camera	2	\$80,000	\$0	\$0	\$0	\$2,000	\$2,600	\$4,600	\$0		
					Traffic Flow Management	Ramp gate	Per gate	8	\$152,000	\$0	\$0	\$0	\$0	\$16,000	\$16,000	\$0		
					Communications	Fiber optic cable (ARRA funding)	Per mile	6	\$0	\$0	\$324,000	\$0	\$0	\$0	\$0	\$0		
SW	IH 39/90/94	4 MM 108	MM 115	7	Detection	SEE BADGER STATE CORRIDOR												
			(CTH CS)		Surveillance	FOR DEVICE INFORMATION												
		l '	T '		Communications													
SW	IH 39/90/94	4 MM 115	MM 132	17	Detection	SEE BADGER STATE CORRIDOR						1						
			(USH 51)		Surveillance	FOR DEVICE INFORMATION												
		/			Communications							1						
SW	IH 39/90/94	4 MM 132	MM 138	6	Detection	SEE BADGER STATE CORRIDOR				1		İ						
	1 22.23.31		(IH 94)		Surveillance	FOR DEVICE INFORMATION				1		1						
		(,			Communications	• • • • • • • • • • • • • • • • • • • •				1		1				1		
		<u> </u>	1			<u> </u>		1	1	1	1		<u> </u>	1				<u> </u>

\$2,691,000	\$434,400	\$12,150,000	\$1,086,000	\$50,300	\$167,200	\$217,500	\$18,400
Estimated Total Capital Cost	Estimated Device Communication Cost	Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)

Table 10: Wild Goose Corridor - Cost Summary Table

Region	Highway		Segment End (but does not include)	Segment Length (miles)	Device Type	Assumptions	Unit	Estimated Quantity	Estimated Total Capital Cost	Estimated Device Communications Cost	Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)	WisDOT Projects in Corridor Segment	Device Deployment Status
SW	USH 151	E Jct USH 12	IH 39/90/94	10	Detection	Mainline detector station	Per site	1	\$25,000	\$0	\$0	\$0	\$400	\$400	\$800	\$0		
					Surveillance	CCTV camera	Per camera	4	\$160,000	\$0	\$0	\$0	\$4,000	\$5,200	\$9,200	\$0		
					Traffic Signal Systems	Corridor signal upgrade	Per site	2	\$1,561,000	\$0	\$0	\$0	\$39,200	\$116,900	\$156,100	\$78,050		
					Traveler Information	DMS	Per sign	3	\$519,000	\$0	\$0	\$0	\$29,550	\$29,550	\$59,100	\$0		
SW	USH 151	IH 39/90/94	N Bristol St	6	Detection	Mainline detector station	Per site	2	\$50,000	\$0	\$0	\$0	\$800	\$800	\$1,600	\$0		
			(Sun Prairie)			Service interchange detector station	Per site	3	\$237,000	\$0	\$0	\$0	\$3,750	\$3,750	\$7,500	\$0		
						System interchange detector station	Per site	1	\$153,000	\$0	\$0	\$0	\$2,450	\$2,450	\$4,900	\$0		
					Surveillance	CCTV camera	Per camera	4	\$160,000	\$0	\$0	\$0	\$4,000	\$5,200	\$9,200	\$0		
					Traveler Information	DMS	Per sign	1	\$173,000	\$0	\$0	\$0	\$9,850	\$9,850	\$19,700	\$0		
					Non-ITS Devices	Crash investigation site	Per site	8	\$0	\$0	\$0	\$720,000	\$0	\$0	\$0	\$0		
						Law enforcement pad	Per pad	4	\$0	\$0	\$0	\$4,000	\$0	\$0	\$0	\$0		
SW	USH 151	N Bristol St	Madison Street	26	Detection	Service interchange detector station	Per site	1	\$79,000	\$0	\$0	\$0	\$1,250	\$1,250	\$2,500	\$0		
	_	(Sun Prairie)	(Beaver Dam)			ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
	1			1	Surveillance	CCTV camera	Per camera	1	\$40,000	\$0	\$0	\$0	\$1,000	\$1,300	\$2,300	\$0		
					Non-ITS Devices	Crash investigation site	Per site	2	\$0	\$0	\$0	\$180,000	\$0	\$0	\$0	\$0		
						Law enforcement pad	Per pad	1	\$0	\$0	\$0	\$1,000	\$0	\$0	\$0	\$0		
SW	USH 151	Madison Street	Dodge CTH B	6	Detection	Mainline detector station	Per site	1	\$25,000	\$0	\$0	\$0	\$400	\$400	\$800	\$0		
		(Beaver Dam)				Service interchange detector station	Per site	2	\$158,000	\$0	\$0	\$0	\$2,500	\$2,500	\$5,000	\$0		
				_	Surveillance	None												
					Communications	None		ļ					<u> </u>					
SW	USH 151	Dodge CTH B	MM 144	9	Detection	None												
			(STH 26)		Surveillance	None												
					Communications	None												
SW, NE	USH 151	MM 144	MM 148	4	Detection	None												
		(STH 26)	(STH 26)		Surveillance	None												
					Communications	None												
NE	USH 151	MM 148	Fond Du Lac	11	Detection	None												
		(STH 26)	CTH D		Surveillance	None												
					Communications	None												
NE	USH 151		USH 41	2	Detection	None												
		CTH D			Surveillance	None												
					Communications	None												
NE	USH 41	USH 151	Winnebago St.		Detection	SEE FOX VALLEY CORRIDOR												
			(N Fond du Lac)	1	Surveillance	FOR DEVICE INFORMATION		1				ļ		_				
		147		 -	Communications			_										
NE	USH 41		Fond Du Lac	5	Detection	SEE FOX VALLEY CORRIDOR		1			-	1		1				
	1	(N Fond du Lac)	CIHN	+	Surveillance	FOR DEVICE INFORMATION		1	 		 	1		1				
		<u> </u>	071144	1	Communications			_				ļ						
NE	USH 41		STH 44	10	Detection	SEE FOX VALLEY CORRIDOR						1						
	1	CTH N			Surveillance	FOR DEVICE INFORMATION		1				1		1			1	
		0.711.66			Communications			_	ļ									
NE	USH 41	STH 44	Breezewood Ln	12	Detection	SEE FOX VALLEY CORRIDOR						1		_				
					Surveillance	FOR DEVICE INFORMATION												
N.E.	OTI : 05	11011.151	OTIL 65	1.0	Communications	<u> </u>		_	ļ									
NE	STH 26	USH 151	STH 23	10	Detection	None		1				ļ		_				
					Surveillance	None						-	1					
N.E.	OTI : 05	OT1 1 00	11011.11		Communications	None		_	ļ									
NE	STH 26	STH 23	USH 41		Detection	None						-						
					Surveillance	None							1					
	I	1		Ī	Communications	None		1	1		1		1	1	Ī	1		

L	\$3,350,000	\$ 0	\$0	\$905,000	\$99,450	\$179,850	\$279,300	\$78,050
	Estimated Total Capital Cost	Estimated Device Communication Cost	Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)

Table 11: Peace Memorial Corridor - Cost Summary Table

Region	Highway	Segment Start (and includes)	Segment End (but does not include)	Segment Length (miles)	Device Type	Assumptions	Unit	Estimated Quantity	Estimated Total Capital Cost		Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)	WisDOT Projects in Corridor Segment	Device Deployment Status
NW	USH 53	MN State Line	Superior	8	Detection	ATR station upgrade	Per unit	3	\$30,000	\$0	\$0	\$0	\$900	\$900	\$1,800	\$0		
			(South Limits)		Surveillance	CCTV camera	Per camera	3	\$120,000	\$0	\$0	\$0	\$3,000	\$3,900	\$6,900	\$0		
					Traffic Flow Management	Ramp gate	Per gate	6	\$114,000	\$0	\$0	\$0	\$0	\$12,000	\$12,000	\$0		
					Traveler Information	DMS	Per sign	1	\$173,000	\$0	\$0	\$0	\$9,850	\$9,850	\$19,700	\$0		
						Roadway DMS	Per sign	4	\$332,000	\$0	\$0	\$0	\$18,800	\$18,800	\$37,600	\$0		
					Communications	Fiber optic cable (ARRA funding)	Per mile	8	\$0	\$0	\$432,000	\$0	\$0	\$0	\$0	\$0		
NW	USH 53	Superior	Douglas CTH B	15	Detection	None			\$0						\$0	\$0		
		(South Limits)			Surveillance	CCTV camera	Per camera	3	\$120,000	\$0	\$0	\$0	\$3,000	\$3,900	\$6,900	\$0		
					Traffic Flow Management	Ramp gate	Per gate	4	\$76,000	\$0	\$0	\$0	\$0	\$8,000	\$8,000	\$0		
					Traveler Information	Roadway DMS	Per sign	1	\$83,000	\$0	\$0	\$0	\$4,700	\$4,700	\$9,400	\$0		
					Communications	Fiber optic cable (ARRA funding)	Per mile	15	\$0	\$0	\$810,000	\$0	\$0	\$0	\$0	\$0		
NW	USH 53	Douglas CTH B	Barron CTH V	65	Detection	ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
					Surveillance	CCTV camera	Per camera	2	\$80,000	\$0	\$0	\$0	\$2,000	\$2,600	\$4,600	\$0		
					Traffic Flow Management	Ramp gate	Per gate	4	\$76,000	\$0	\$0	\$0	\$0	\$8,000	\$8,000	\$0		
					Communications	Fiber optic cable (ARRA funding)	Per mile	65	\$0	\$0	\$3,510,000	\$0	\$0	\$0	\$0	\$0		
NW	USH 53	Barron CTH V	Chippewa CTH S	5 49	Detection	ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
					Surveillance	CCTV camera	Per camera	3	\$120,000	\$0	\$0	\$0	\$3,000	\$3,900	\$6,900	\$0		
					Traffic Flow Management	Ramp gate	Per gate	18	\$342,000	\$0	\$0	\$0	\$0	\$36,000	\$36,000	\$0		
					Traveler Information	Roadway DMS	Per sign	1	\$83,000	\$0	\$0	\$0	\$4,700	\$4,700	\$9,400	\$0		
						PCMS pad	Per pad	1	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
					Communications	Fiber optic cable (ARRA funding)	Per mile	49	\$0	\$0	\$2,646,000	\$0	\$0	\$0	\$0	\$0		
NW	USH 53	Chippewa CTH S	STH 29	6	Detection	None			\$0						\$0	\$0		
					Surveillance	CCTV camera	Per camera	1	\$40,000	\$0	\$0	\$0	\$1,000	\$1,300	\$2,300	\$0		
					Traffic Flow Management	Ramp gate	Per gate	4	\$76,000	\$0	\$0	\$0	\$0	\$8,000	\$8,000	\$0		
					Traveler Information	Roadway DMS	Per sign	1	\$83,000	\$0	\$0	\$0	\$4,700	\$4,700	\$9,400	\$0		
					Communications	Fiber optic cable (ARRA funding)	Per mile	6	\$0	\$0	\$324,000	\$0	\$0	\$0	\$0	\$0		
NW	USH 53	STH 29	IH 94	11	Detection	Mainline detector station	Per site	1	\$25,000	\$0	\$0	\$0	\$400	\$400	\$800	\$0		
						Service interchange detector station	Per site	6	\$474,000	\$0	\$0	\$0	\$7,500	\$7,500	\$15,000	\$0		
						System interchange detector station	Per site	1	\$153,000	\$0	\$0	\$0	\$2,450	\$2,450	\$4,900	\$0		
						ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
					Surveillance	CCTV camera	Per camera	9	\$360,000	\$0	\$0	\$0	\$9,000	\$11,700	\$20,700	\$0		
					Traffic Flow Management	Ramp gate	Per gate	14	\$266,000	\$0	\$0	\$0	\$0	\$28,000	\$28,000	\$0		
					Traveler Information	Roadway DMS	Per sign	2	\$166,000	\$0	\$0	\$0	\$9,400	\$9,400	\$18,800	\$0		
					Non-ITS Devices	Crash investigation site	Per site	14	\$0	\$0	\$0	\$1,260,000	\$0	\$0	\$0	\$0		
1					Communications	Fiber optic cable (ARRA funding)	Per mile	11	\$0	\$0	\$594,000	\$0	\$0	\$0	\$0	\$0		

	\$3,429,000	\$0	\$8,316,000	\$1,260,000	\$85,300	\$191,600	\$276,900	\$0
E	stimated Total Capital Cost	Estimated Device Communication Cost	Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)

Table 12: Cornish Heritage Corridor - Cost Summary Table

Region	Highway	Segment Start	Segment End (but does not	_	Device Type	Assumptions	Unit	Estimated Quantity	Capital	Communications	Estimated Network Communications	ITS Capital	Maintenance Cost	Operation Cost (Per Year)	Cost	Replacement Cost	WisDOT Projects in Corridor Segment	Device Deployment Status
			include)	(miles)					Cost	Cost	Cost	Cost	(Per Year)	, , ,	(Per Year)	(Per Year)		
SW	USH 151	lowa state line	N Jct USH 61	8	Detection	ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
					Surveillance	None												
					Communications	Fiber optic cable (ARRA funding)	Per mile	8	\$0	\$0	\$432,000	\$0	\$0	\$0	\$0	\$0		
SW	USH 151	N Jct USH 61	N Jct STH 23	36	Detection	None												
					Surveillance	None												
					Communications	Fiber optic cable (ARRA funding)	Per mile	36	\$0	\$0	\$1,944,000	\$0	\$0	\$0	\$0	\$0		
SW	USH 151	N Jct STH 23	W Jct USH 18	3	Detection	None												
					Surveillance	None												
					Communications	Fiber optic cable	Per mile	3	\$0	\$0	\$162,000	\$0	\$0	\$0	\$0	\$0		
SW	USH 151	W Jct USH 18	Verona Ave	29	Detection	ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
			(West Jct)		Surveillance	None												
					Communications	Fiber optic cable (ARRA funding)	Per mile	29	\$0	\$0	\$1,566,000	\$0	\$0	\$0	\$0	\$0		
SW	USH 151	Verona Ave	Dane CTH PD	7	Detection	Mainline detector station	Per site	4	\$100,000	\$0	\$0	\$0	\$1,600	\$1,600	\$3,200	\$0		
		(West Jct)				ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
					Surveillance	CCTV camera	Per camera	4	\$160,000	\$0	\$0	\$0	\$4,000	\$5,200	\$9,200	\$0		
					Traveler Information	PCMS pad	Per pad	1	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
					Non-ITS Devices	Crash investigation site	Per site	6	\$0	\$0	\$0	\$540,000	\$0	\$0	\$0	\$0		
					Communications	Fiber optic cable (ARRA funding)	Per mile	7	\$0	\$0	\$378,000	\$0	\$0	\$0	\$0	\$0		
SW	USH 151	Dane CTH PD	W Jct USH 12	2	Detection	Mainline detector station	Per site	1	\$25,000	\$0	\$0	\$0	\$400	\$400	\$800	\$0		
					Surveillance	CCTV camera	Per camera	1	\$40,000	\$0	\$0	\$0	\$1,000	\$1,300	\$2,300	\$0		
					Traffic Signal Systems	Corridor signal upgrade	Per site	1	\$717,000	\$0	\$0	\$0	\$18,000	\$51,300	\$69,300	\$35,850		
					Communications	Fiber optic cable (ARRA funding)	Per mile	2	\$0	\$0	\$108,000	\$0	\$0	\$0	\$0	\$0		
SW	USH 151	W Jct USH 12	IH 39/90/94	10	Detection	SEE BADGER STATE CORRIDOR												
					Surveillance	FOR DEVICE INFORMATION												
					Communications													
SW	USH 151	IH 39/90/94	N Bristol St	6	Detection	SEE WILD GOOSE CORRIDOR												
					Surveillance	FOR DEVICE INFORMATION												
					Communications													
SW	USH 151	N Bristol St	Madison Street	26	Detection	SEE WILD GOOSE CORRIDOR												
					Surveillance	FOR DEVICE INFORMATION												
					Communications													

l	\$1,079,000	\$ 0	\$4,590,000	\$540,000	\$25,900	\$60,700	\$86,600	\$35,850
	Estimated Total Capital Cost	Estimated Device Communication Cost	Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)

Table 13: Titletown Corridor - Cost Summary Table

	I	1	1					1	Ī		I	Ī	T	T	Ī	T		T I
Region	Highway	Segment Start (and includes)	Segment End (but does not include)	Segment Length (miles)	Device Type	Assumptions	Unit	Estimated Quantity	Estimated Total Capital Cost	Estimated Device Communications Cost	Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)	WisDOT Projects in Corridor Segment	Device Deployment Status
NIE	11.1.40	NANA 4.00	•	7	Detection	Mainline detector etation	Doroito			\$0			` ′	\$200	,	` ′		
NE	IH 43	MM 192 (USH 41)	MM 185 (STH 57)	/	Detection	Mainline detector station Service interchange detector station	Per site Per site	1	\$50,000 \$79,000	\$0 \$0	\$0 \$0	\$0 \$0	\$800 \$1,250	\$800 \$1,250	\$1,600 \$2,500	\$0 \$0		
		(001141)	(011101)		Surveillance	CCTV camera	Per camera	6	\$240,000	\$0	\$0	\$0	\$6,000	\$7,800	\$13,800	\$0		
					Traffic Flow Management	Ramp gate	Per gate	4	\$76,000	\$0	\$0	\$0	\$0	\$8,000	\$8,000	\$0		
						Ramp meter	Per meter	4	\$200,000	\$0	\$0	\$0	\$4,000	\$5,600	\$9,600	\$0		
NE	111.40	NANA 405	NANA 400	-	Non-ITS Devices	Crash investigation site	Per site	4	\$0	\$0	\$0	\$360,000	\$0	\$0	\$0	\$0		
NE	IH 43	MM 185 (STH 57)	MM 180 (STH 172)	5	Detection	Mainline detector station Service interchange detector station	Per site Per site	2	\$25,000 \$158,000	\$0 \$0	\$0 \$0	\$0 \$0	\$400 \$2,500	\$400 \$2,500	\$800 \$5,000	\$0 \$0		
		(311137)	(3111112)		Surveillance	CCTV camera	Per camera	3	\$138,000	\$0	\$0 \$0	\$0 \$0	\$3,000	\$3,900	\$6,900	\$0		
					Traffic Flow Management	Ramp gate	Per gate	8	\$152,000	\$0	\$0	\$0	\$0	\$16,000	\$16,000	\$0		
						Ramp meter	Per meter	4	\$200,000	\$0	\$0	\$0	\$4,000	\$5,600	\$9,600	\$0		
					Traveler Information	PCMS pad	Per pad	1	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
N.E.		1414400	1414 400	50	Non-ITS Devices	Crash investigation site	Per site	6	\$0	\$0	\$0	\$540,000	\$0	\$0	\$0	\$0		
NE	IH 43	MM 180 (STH 172)	MM 128 (STH 42)	52	Detection	Mainline detector station ATR station upgrade	Per site Per site	2	\$25,000 \$20,000	\$0 \$0	\$0 \$0	\$0 \$0	\$400 \$600	\$400 \$600	\$800 \$1,200	\$0 \$0		
		(31111/2)	(311142)		Surveillance	CCTV camera	Per site Per camera	1	\$40,000	\$0 \$0	\$0 \$0	\$0 \$0	\$1,000	\$1,300	\$2,300	\$0		
						Ramp gate	Per gate	20	\$380,000	\$0	\$0	\$0	\$0	\$40,000	\$40,000	\$0		
					Traveler Information	DMS	Per sign	1	\$173,000	\$0	\$0	\$0	\$9,850	\$9,850	\$19,700	\$0		
						PCMS pad	Per pad	2	\$14,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
NE	IH 43	MM 128	MM 123	5	Detection	Service interchange detector station	Per site	1	\$79,000	\$0 *0	\$0 *0	\$0 \$0	\$1,250	\$1,250	\$2,500	\$0		
		(STH 42)	(STH 28)		Surveillance	System interchange detector station CCTV camera	Per site Per camera	2	\$153,000 \$80,000	\$0 \$0	\$0 \$0	\$0 \$0	\$2,450 \$2,000	\$2,450 \$2,600	\$4,900 \$4,600	\$0 \$0		
		1	1		Traffic Flow Management	Ramp gate	Per camera Per gate	2	\$80,000	\$0 \$0	\$0 \$0	\$0 \$0	\$2,000 \$0	\$2,600	\$4,600 \$4,000	\$0 \$0		
NE, SE	IH 43	MM 123	MM 100	23	Detection	Service interchange detector station	Per site	1	\$79,000	\$0	\$0	\$0	\$1,250	\$1,250	\$2,500	\$0		
		(STH 28)	(STH 84)			ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
		,			Surveillance	CCTV camera	Per camera	1	\$40,000	\$0	\$0	\$0	\$1,000	\$1,300	\$2,300	\$0		
						Ramp gate	Per gate	10	\$190,000	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0		
05	11.1.40	NANA 4 0 0	NANA 07	0	Traveler Information	PCMS pad	Per pad	1	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
SE	IH 43	MM 100 (STH 84)	MM 97 (STH 57)	3	Detection Surveillance	None None												
		(311104)	(311137)			Ramp gate	Per gate	2	\$38,000	\$0	\$0	\$0	\$0	\$4,000	\$4,000	\$0		
SE	IH 43	MM 97	MM 92	5	Detection	None	i oi gato		φοσίσος	Ψΰ	Ψΰ	Ψ	Ψΰ	ψ1,000	ψ 1,000	Ψΰ		
		(STH 57)	(STH 60)		Surveillance	CCTV camera	Per camera	1	\$40,000	\$0	\$0	\$0	\$1,000	\$1,300	\$2,300	\$0		
					· · · · · · · · · · · · · · · · · · ·	Ramp gate	Per gate	6	\$114,000	\$0	\$0	\$0	\$0	\$12,000	\$12,000	\$0		
SE	IH 43	MM 92	MM 85	7	Detection	Mainline detector station	Per site	3	\$75,000	\$0	\$0	\$0	\$1,200	\$1,200	\$2,400	\$0		
		(STH 60)	(STH 167)		Our selling and	ATR station upgrade CCTV camera	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
					Surveillance Traffic Flow Management	Ramp gate	Per camera Per gate	2	\$40,000 \$38,000	\$0 \$0	\$0 \$0	\$0 \$0	\$1,000 \$0	\$1,300 \$4,000	\$2,300 \$4,000	\$0 \$0		
					Trame riow wanagement	Ramp meter	Per meter	2	\$100,000	\$0	\$0	\$0	\$2,000	\$2,800	\$4,800	\$0		
					Traveler Information	PCMS pad	Per pad	1	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
SE	IH 43	MM 85	MM 72	13	Detection	Mainline detector station	Per site	17	\$425,000	\$0	\$0	\$0	\$6,800	\$6,800	\$13,600	\$0		
		(STH 167)	(IH 94)			ATR station upgrade	Per site	4	\$40,000	\$0	\$0	\$0	\$1,200	\$1,200	\$2,400	\$0		
						CCTV camera	Per camera	19	\$760,000	\$0	\$0	\$0	\$19,000	\$24,700	\$43,700	\$0		
					Traffic Flow Management	Ramp gate Ramp meter	Per gate Per meter	24 24	\$456,000 \$1,200,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$24,000	\$48,000 \$33,600	\$48,000 \$57,600	\$0 \$0		
					Traffic Signal Systems	Interchange termini upgrade	Per site	16	\$1,455,000	\$0	\$0	\$0	\$37,100	\$37,100	\$74,200	\$72,750		
					Traveler Information	DMS	Per sign	3	\$519,000	\$0	\$0	\$0	\$29,550	\$29,550	\$59,100	\$0		
					Non-ITS Devices	Crash investigation site	Per site	24	\$0	\$0	\$0	\$2,160,000	\$0	\$0	\$0	\$0		
						Law enforcement pad	Per pad	10	\$0	\$0	\$0	\$10,000	\$0	\$0	\$0	\$0		
NE	STH 172	IH 43	STH 57	4	Detection	Mainline detector station	Per site	1	\$25,000	\$0	\$0	\$0	\$400	\$400	\$800	\$0		
		(Bellevue)	(Allouez)		Surveillance	CCTV camera	Per camera	1 4	\$40,000 \$76,000	\$0 \$0	\$0 \$0	\$0 \$0	\$1,000	\$1,300	\$2,300	\$0 \$0		
					Traffic Flow Management	Ramp gate Ramp meter	Per gate Per meter	4	\$76,000 \$200,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$4,000	\$8,000 \$5,600	\$8,000 \$9,600	\$0 \$0		
		1	1		Traffic Signal Systems	Interchange termini upgrade	Per site	2	\$12,000	\$0	\$0	\$0	\$400	\$400	\$800	\$600		
					Non-ITS Devices	Crash investigation site	Per site	4	\$0	\$0	\$0	\$360,000	\$0	\$0	\$0	\$0		
						Law enforcement pad	Per site	1	\$0	\$0	\$0	\$1,000	\$0	\$0	\$0	\$0		
NE	OT11.470	OTI - 57	11011.44		Communications	Fiber optic line	Per mile	4	\$0	\$216,000	\$0 \$0	\$0	\$0	\$0	\$0	\$0		
NE	STH 172	STH 57 (Allouez)	USH 41 (Ashwaubenon)	2	Detection Surveillance	Mainline detector station CCTV camera	Per site Per camera	2	\$50,000 \$80,000	\$0 \$0	\$0 \$0	\$0 \$0	\$800 \$2,000	\$800 \$2,600	\$1,600 \$4,600	\$0 \$0		
		(Allouez)	(Asilwaubelloll)		Traffic Flow Management	Ramp gate	Per gate	4	\$80,000	\$0 \$0	\$0 \$0	\$0 \$0	\$2,000 \$0	\$2,600	\$4,600	\$0 \$0		
		1	1		i ion managoment	Ramp meter	Per meter	4	\$200,000	\$0	\$0	\$0	\$4,000	\$5,600	\$9,600	\$0		
					Traffic Signal Systems	Interchange termini upgrade	Per site	1	\$6,000	\$0	\$0	\$0	\$200	\$200	\$400	\$300		
					Non-ITS Devices	Crash investigation site	Per site	4	\$0	\$0	\$0	\$360,000	\$0	\$0	\$0	\$0		
		1	 			Law enforcement pad	Per site	1 -	\$0	\$0	\$0	\$1,000	\$0	\$0	\$0	\$0		
NE	OTU 57	ILI 40	OTU 470	6	Communications	Fiber optic line	Per mile	2	\$0	\$108,000	\$0	\$0	\$0	\$0	\$0	\$0		
IN⊏	STH 57	IH 43	STH 172	р	Detection Traffic Signal Systems	None Corridor signal upgrade	Per site	1	\$877,600	\$0	\$0	\$0	\$25,520	\$43,880	\$69,400	\$50,680		
		1			Traveler Information	DMS	Per site Per sign	1	\$173,000	\$0 \$0	\$0 \$0	\$0	\$9,850	\$9,850	\$19,700	\$50,680		
NE	STH 57	STH 172	STH 23	58	Detection	None	, 51 Sigit	'	ψ170,000	\$ 0	* •	Ψ0	\$5,550	ψυ,υυυ	ψ.ο,,,οο	Ψ0		
					Surveillance	None			<u> </u>			<u> </u>	<u> </u>		<u> </u>	<u> </u>		
					Communications	None												
NE	STH 57	STH 23	Plymouth	2	Detection	None				`								
			(South limits)		Surveillance	None								-		1		
NE, SE	STH 57	Plymouth	IH 43	23	Communications Detection	None None	- 	1	+	+		+	+	+	 	+		
IVL, JE	511131	(South limits)	11140	20	Surveillance	None							1		1	1		
		(Costi iiiiio)			Communications	None							1			1		
		-	-	-		•				•								

\$9,767,600	\$324,000	\$0	\$3,792,000	\$213,370	\$431,630	\$645,000	\$124,330
Estimated Total Capital Cost	Estimated Device Communication Cost	Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)

Table 14: Southern Tier Corridor - Cost Summary Table

	1		I	<u> </u>		1			<u> </u>	<u> </u>	<u></u>	<u></u>	T			Τ	I	T
Region	Highway	Segment Start		Segment Length	Device Type	Assumptions	Unit	Estimated	Estimated Total Capital	Estimated Device Communications	Estimated Network Communications	Estimated Non- ITS Capital	Maintenance Cost	Operation Cost	Total O&M Cost	Replacement Cost	WisDOT Projects in Corridor Segment	Device Deployment
Region	Ingliway		include)	(miles)	Device Type	Assumptions	l oille	Quantity	Cost	Cost	Cost	Cost	(Per Year)	(Per Year)	(Per Year)	(Per Year)	Wisbot Frojects in Corndon Cognient	Status
SW	IH 43	IH 39/90	S Schroeder Rd	3	Detection	Service interchange detector station	Per site	1	\$79,000	\$0	\$0	\$0	\$1,250	\$1,250	\$2,500	\$0		
			C Comocaci ita		Surveillance	CCTV camera	Per camera	1	\$40,000	\$0	\$0	\$0	\$1,000	\$1,300	\$2,300	\$0		
					Traffic Flow Management	Ramp gate	Per gate	2	\$38,000	\$0	\$0	\$0	\$0	\$4,000	\$4,000	\$0		
014/ 05					Communications	Fiber optic cable (ARRA funding)	Per mile	3	\$0	\$0	\$162,000	\$0	\$0	\$0	\$0	\$0		
SW, SE	IH 43	S Schroeder Rd	USH 14	11	Detection Treffic Flow Management	None Roma gota	Dor goto	2	\$39,000	\$0	\$0	\$0	0.0	\$4,000	\$4,000	\$0		
					Traffic Flow Management Communications	Ramp gate Fiber optic cable (ARRA funding)	Per gate Per mile	11	\$38,000 \$0	\$0 \$0	\$594,000	\$0 \$0	\$0 \$0	\$4,000	\$4,000 \$0	\$0 \$0		
SE	IH 43	USH 14	STH 50	7	Detection	ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
-					Traffic Flow Management	Ramp gate	Per gate	4	\$76,000	\$0	\$0	\$0	\$0	\$8,000	\$8,000	\$0		
					Communications	Fiber optic cable (ARRA funding)	Per mile	7	\$0	\$0	\$378,000	\$0	\$0	\$0	\$0	\$0		
SE	IH 43	STH 50	STH 67	3	Detection	None												
					Traffic Flow Management	Ramp gate	Per gate	2	\$38,000 \$0	\$0 \$0	\$0 \$162,000	\$0 \$0	\$0 \$0	\$4,000 \$0	\$4,000 \$0	\$0 \$0		
QE.	IH 43	STH 67	STH 11	2	Communications Detection	Fiber optic cable (ARRA funding) None	Per mile	3	\$0	\$U	\$162,000	\$0	\$0	\$0	\$0	\$0		
SE	III 43	3111 07	SIRII		Traffic Flow Management	Ramp gate	Per gate	8	\$152,000	\$0	\$0	\$0	\$0	\$16,000	\$16,000	\$0		
					Communications	Fiber optic cable (ARRA funding)	Per mile	2	\$0	\$0	\$108,000	\$0	\$0	\$0	\$0	\$0		
SE	STH 11	IH 43	Burlington	11	Detection	None		1							, ,			
			(West limits)		Surveillance	None												
					Communications	None												
SE	STH 11		Burlington	3	Detection	None												
	1	(West limits)	(East limits)		Surveillance Communications	None None		-		 			1			1		-
QE.	STH 11	Burlington	STH 75	ρ	Detection	None		+										
OL .	311111	(East limits)	511175	0	Surveillance	None												
		(Communications	None												
SE	STH 11	STH 75	USH 45	3	Detection	None												
					Surveillance	None												
					Communications	None												
SE	STH 11	USH 45	IH 94	5	Detection	None												
					Surveillance Communications	None None												
SE	STH 11	IH 94	STH 32	8	Detection	None												
			011102		Traffic Signal Systems	Corridor signal upgrade	Per site	1	\$376,500	\$0	\$0	\$0	\$9,500	\$18,425	\$27,925	\$18,825		
					Communications	Cellular modem	Per unit	2	\$0	\$2,200	\$0	\$0	\$120	\$960	\$1,080	\$0		
SW	USH 14	IH 39/90	Henke Rd /	3	Detection	None												
			Van Allen Rd		Surveillance	None												
0)4/ 05	1101144	Harden Del /	11.1.40	40	Communications	None		1										
SW, SE	USH 14	Henke Rd / Van Allen Rd	IH 43	13	Detection Surveillance	None None		-										
		Vall Allell Ita			Communications	None												
SE	STH 50	IH 43	STH 67	5	Detection	None												
					Surveillance	None												
					Communications	None												
SE	STH 50	STH 67	Lake Geneva	5	Detection	None												
	1		(West limits)		Surveillance	None										1		
SE	STH 50	Lake Geneva	USH 12	2	Communications Surveillance	None CCTV camera	Per camera	1	\$40,000	\$0	\$0	\$0	\$1,000	\$1,300	\$2,300	\$0		
OL.	511130	(West limits)	001112		Traffic Signal Systems	Corridor signal upgrade	Per site	1	\$291,800	\$0	\$0 \$0	\$0	\$7,360	\$13,990	\$21,350	\$14,590		
	1	(oot minto)			Communications	T1 line	Per unit	1	\$0	\$1,200	\$0	\$0	\$200	\$8,000	\$8,200	\$0		
SE	STH 50	USH 12	CTH P	6	Detection	None												
					Surveillance	None												
25		07::-	 		Communications	None		1		ļ						ļ		
SE	STH 50	CTH P	STH 75	10	Detection	None							-			1		
	-				Surveillance Communications	None None				1						1		
SF	STH 50	STH 75	Paddock Lake	2	Detection	None							1					+
	011100		(East limits)	<u> </u>	Surveillance	None					1		1			1		
				L_	Communications	None												
SE	STH 50		IH 94	7	Detection	None												
		(East limits)			Surveillance	None												
0.5	OT: 1 = 5	"104	OTILLI		Communications	None												
SE	STH 50	IH 94	СТН Н	2	Detection Traffic Signal Systems	None Corridor signal ungrado	Por site	1	\$600 000	\$0		\$0	¢17.200	\$22.44E	¢ E0 925	¢24 44E		
	1				Traffic Signal Systems Communications	Corridor signal upgrade Fiber optic line	Per site Per mile	2	\$688,900 \$0	\$0 \$108,000	\$0 \$0	\$0 \$0	\$17,380 \$0	\$33,445 \$0	\$50,825 \$0	\$34,445 \$0		
SE	STH 50	CTH H	STH 32	5	Detection	Mainline detector station	Per site	4	\$100,000	\$108,000	\$0	\$0	\$1,600	\$1,600	\$3,200	\$0		
-	200		J 02		Surveillance	CCTV camera	Per camera	4	\$160,000	\$0	\$0	\$0	\$4,000	\$5,200	\$9,200	\$0		
	1				Communications	Fiber optic line	Per mile	5	\$0	\$270,000	\$0	\$0	\$0	\$0	\$0	\$0		
	-	-	-	-	-	-	-	-	-	<u>-</u>	-	-	-	-	_	_	-	-

\$2,128,200	\$381,400	\$1,404,000	\$0	\$43,710	\$121,770	\$165,480	\$67,860
Estimated Total Capital Cost	Estimated Device Communication Cost	Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)

Table 15: Glacial Plains Corridor - Cost Summary Table

Region	Highway	Segment Start (and includes)	Segment End (but does not include)	Segment Length (miles)	Device Type	Assumptions	Unit	Estimated Quantity	Estimated Total Capital Cost		Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)	WisDOT Projects in Corridor Segment	Device Deployment Status
SW	IH 43	IH 39/90	S Schroeder Rd	3	Detection	SEE SOUTHERN TIER CORRIDOR												
					Surveillance	FOR DEVICE INFORMATION												
					Communications													
SW, SE	IH 43	S Schroeder Rd	USH 14	11		SEE SOUTHERN TIER CORRIDOR												
					Surveillance	FOR DEVICE INFORMATION												
				<u> </u>	Communications			_										
SE	IH 43	USH 14	STH 50	7		SEE SOUTHERN TIER CORRIDOR												
					Surveillance Communications	FOR DEVICE INFORMATION												
OE.	IH 43	STH 50	STH 67	2		SEE SOUTHERN TIER CORRIDOR		+	+									
SE	IF1 43	311130	311107	3	Surveillance	FOR DEVICE INFORMATION												
					Communications	I ON BEVICE IN ONMATION												
SE	IH 43	STH 67	STH 11	2		SEE SOUTHERN TIER CORRIDOR		†	<u> </u>	1			 					
		011107		†	Surveillance	FOR DEVICE INFORMATION												
					Communications													
SE	IH 43	STH 11	STH 120	9		ATR station upgrade	Per unit	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
					Traffic Flow Management	Ramp gate	Per gate	2	\$38,000	\$0	\$0	\$0	\$0	\$4,000	\$4,000	\$0		
						Fiber optic cable (ARRA funding)	Per mile	9	\$0	\$0	\$486,000	\$0	\$0	\$0	\$0	\$0		
SE	IH 43	STH 120	STH 164	14	Detection	None												
						Ramp gate	Per gate	6	\$114,000	\$0	\$0	\$0	\$0	\$12,000	\$12,000	\$0		
					•	Fiber optic cable (ARRA funding)	Per mile	14	\$0	\$0	\$756,000	\$0	\$0	\$0	\$0	\$0		
SE	IH 43	STH 164	CTH Y	4		ATR station upgrade	Per unit	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
					Surveillance	CCTV camera	Per camera	1	\$40,000	\$0	\$0	\$0	\$1,000	\$1,300	\$2,300	\$0		
						Ramp gate	Per gate	2	\$38,000	\$0	\$0	\$0	\$0	\$4,000	\$4,000	\$0		
0.5		OTILLY.	NANA 50	-		Fiber optic cable (ARRA funding)	Per mile	4	\$0	\$0	\$216,000	\$0	\$0	\$0	\$0	\$0		
SE	IH 43	CTH Y	MM 59 (Milwaukee /	5	Detection	Mainline detector station CCTV camera	Per unit	3	\$75,000 \$120,000	\$0 \$0	\$0 \$0	\$0 \$0	\$1,200 \$3,000	\$1,200 \$3,900	\$2,400 \$6,900	\$0 \$0		
			(Milwaukee / Waukesha Cty)		Surveillance Traffic Flow Management		Per camera	6	\$120,000	\$0 \$0	\$0 \$0	\$0 \$0	\$3,000	\$3,900 \$12,000	\$6,900	\$0 \$0		
			vvaukesna Cty)		Traffic Flow Management	Ramp gate Ramp meter	Per gate Per meter	2	\$100,000	\$0 \$0	\$0 \$0	\$0 \$0	\$2,000	\$2,800	\$4,800	\$0 \$0		
					Traveler Information	DMS	Per sign	1	\$173,000	\$0	\$0	\$0	\$9,850	\$9,850	\$19,700	\$0		
						Crash investigation site	Per site	4	\$0	\$0	\$0	\$360,000	\$0	\$0	\$0	\$0		
						Law enforcement pad	Per pad	2	\$0	\$0	\$0	\$2,000	\$0	\$0	\$0	\$0		
					Communications	Fiber optic cable (2 mile network comm., rest ARRA	Per mile	5	\$0	\$108,000	\$162,000	\$0	\$0	\$0	\$0	\$0		
						funding)												
SE	IH 43	MM 59	S Jct IH 94	7	Detection	Mainline detector station	Per site	12	\$300,000	\$0	\$0	\$0	\$4,800	\$4,800	\$9,600	\$0		
		(Milwaukee /				ATR station upgrade	Per site	2	\$20,000	\$0	\$0	\$0	\$600	\$600	\$1,200	\$0		
		Waukesha Cty)			Surveillance	CCTV camera	Per camera	10	\$400,000	\$0	\$0	\$0	\$10,000	\$13,000	\$23,000	\$0		
					Traffic Flow Management	Ramp gate	Per gate	16	\$304,000	\$0	\$0	\$0	\$0	\$32,000	\$32,000	\$0		
		-				Ramp meter	Per meter	16	\$800,000	\$0	\$0	\$0	\$16,000	\$22,400	\$38,400	\$0		
					Traffic Signal Systems	Interchange termini upgrade	Per site	3	\$305,000	\$0 \$0	\$0 \$0	\$0 \$0	\$7,800	\$7,800	\$15,600	\$15,250		
				1	Traveler Information	DMS Crash investigation site	Per sign	2	\$346,000 \$0	\$0 \$0	\$0 \$0	\$0 \$1,080,000	\$19,700 \$0	\$19,700 \$0	\$39,400 \$0	\$0 \$0		
		1		1	Non-ITS Devices	Crash investigation site Law enforcement pad	Per site Per pad	12	\$0 \$0	\$0 \$0	\$0 \$0	\$1,080,000 \$6,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		
		1		1	Communications	Fiber optic cable	Per mile	1	\$0	\$54,000	\$0	\$0,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0		
SW	USH 14	IH 39/90	Henke Rd /	3	Detection	None	. 5	† '	Ψ-	ψο 1,000	***	***	***	**	Ψ0	***		
		30,00	Van Allen Rd	Ť	Surveillance	None		1			1		1					†
					Communications	None		1										
SW, SE	USH 14	Henke Rd /	IH 43	13	Detection	None		1			1		1					
,		Van Allen Rd		1	Surveillance	None												
					Communications	None		<u></u>				<u></u>						
SE	STH 36	STH 20	Wind Lake Rd	5	Detection	None												
					Surveillance	None												
						None												
SE	STH 36	Wind Lake Rd	СТН Н	8	Detection	None												
					Surveillance	None		1										
				ļ	Communications	None												ļ
SE	STH 36	СТН Н	CTH ZZ	4	Detection	None		1			ļ							
				1	Surveillance	None												
C.E.	CTILOC	CTU 77	ILI 40	2	Communications	None		+	+		<u> </u>		-					
SE	STH 36	CTH ZZ	IH 43		Detection Surveillance	None None		1	1		-		-					-
				1	Communications	None		1			1		1					+
		_!	<u> </u>	1	Communications	INOTIC		<u> </u>			<u> </u>	Į	<u> </u>	Į		Į		<u> </u>

\$3,307,000	\$162,000	\$1,620,000	\$1,448,000	\$76,550	\$151,950	\$228,500	\$15,250
Estimated Total Capital Cost	Estimated Device Communication Cost	Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)

Table 16: Coulee Country Corridor - Cost Summary Table

Region	Highway	Segment Start (and includes)	Segment End (but does not include)	Segment Length (miles)	Device Type	Assumptions	Unit	Estimated Quantity	Estimated Total Capital Cost		Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)	WisDOT Projects in Corridor Segment	Device Deployment Status
SW	IH 90	Minnesota	MM 5	5	Detection	Mainline detector station	Per site	1	\$25,000	\$0	\$0	\$0	\$400	\$400	\$800	\$0		
		State Line	(STH 16)			Service interchange detector station	Per site	1	\$79,000	\$0	\$0	\$0	\$1,250	\$1,250	\$2,500	\$0		
						System interchange detector station	Per site	2	\$306,000	\$0	\$0	\$0	\$4,900	\$4,900	\$9,800	\$0		
					Surveillance	CCTV camera	Per camera	4	\$160,000	\$0	\$0	\$0	\$4,000	\$5,200	\$9,200	\$0		
					Traffic Flow Management	Ramp gate	Per gate	10	\$190,000	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0		
					Traveler Information	Roadside DMS	Per sign	1	\$83,000	\$0	\$0	\$0	\$4,700	\$4,700	\$9,400	\$0		
					Communications	Fiber optic line (ARRA funding)	Per mile	5	\$0	\$0	\$270,000	\$0	\$0	\$0	\$0	\$0		
SW	IH 90	MM 5	MM 15	10	Detection	Service interchange detector station	Per site	1	\$79,000	\$0	\$0	\$0	\$1,250	\$1,250	\$2,500	\$0		
		(STH 16)	(STH 162)			ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
					Surveillance	CCTV camera	Per camera	1	\$40,000	\$0	\$0	\$0	\$1,000	\$1,300	\$2,300	\$0		
					Traffic Flow Management	Ramp gate	Per gate	7	\$133,000	\$0	\$0	\$0	\$0	\$14,000	\$14,000	\$0		
					Traveler Information	Roadside DMS	Per sign	1	\$83,000	\$0	\$0	\$0	\$4,700	\$4,700	\$9,400	\$0		
					Communications	Fiber optic line (ARRA funding)	Per mile	10	\$0	\$0	\$540,000	\$0	\$0	\$0	\$0	\$0		
SW	IH 90	MM 15	MM 28	13	Detection	None												
		(STH 162)	(STH 16)		Traffic Flow Management	Ramp gate	Per gate	2	\$38,000	\$0	\$0	\$0	\$0	\$4,000	\$4,000	\$0		
					Communications	Fiber optic line (ARRA funding)	Per mile	13	\$0	\$0	\$702,000	\$0	\$0	\$0	\$0	\$0		
SW	IH 90	MM 28	MM 43	15	Detection	ATR station upgrade	Per site	1	\$10,000	\$0	\$0	\$0	\$300	\$300	\$600	\$0		
		(STH 16)	(USH 12)		Traffic Flow Management	Ramp gate	Per gate	4	\$76,000	\$0	\$0	\$0	\$0	\$8,000	\$8,000	\$0		
					Communications	Fiber optic line (ARRA funding)	Per mile	15	\$0	\$0	\$810,000	\$0	\$0	\$0	\$0	\$0		
SW	IH 90	MM 43	MM 45	2	Detection	Mainline detector station	Per site	1	\$25,000	\$0	\$0	\$0	\$400	\$400	\$800	\$0		
		(USH 12)	(IH 94)		Surveillance	CCTV camera	Per camera	1	\$40,000	\$0	\$0	\$0	\$1,000	\$1,300	\$2,300	\$0		
					Traffic Flow Management	Ramp gate	Per gate	2	\$38,000	\$0	\$0	\$0	\$0	\$4,000	\$4,000	\$0		
					Communications	Fiber optic line (ARRA funding)	Per mile	2	\$0	\$0	\$108,000	\$0	\$0	\$0	\$0	\$0		
SW	STH 16		STH 157		Detection	None												
		State Line		_	Traffic Signal Systems	Corridor signal upgrade	Per site	1	\$107,800	\$0	\$0	\$0	\$2,760	\$4,290	\$7,050	\$5,390		4
					Communications	None												
SW	STH 16	STH 157	West Salem	_	Detection	None				•								
			(West Limits)		Traffic Signal Systems	Corridor signal upgrade	Per site	1	\$387,000	\$0	\$0	\$0	\$9,800	\$17,450	\$27,250	\$19,350		
					Communications	None												
SW	STH 16	West Salem	East Jct STH 162	2	Detection	None												
		(West Limits)			Surveillance	None												
					Communications	None												
SW	STH 16	East Jct	Sparta		Detection	None												
		STH 162	(West Limits)		Surveillance	None												
					Communications	None												
SW	STH 16		IH 90		Detection	None												
		(West Limits)		1	Surveillance	None										1		
					Communications	None												
SW	STH 21	STH 16	СТН М		Detection	None												
			(Tunnel City)		Surveillance	None												
					Communications	None												
SW	STH 21		IH 94		Detection	None												
		(Tunnel City)			Surveillance	None												
					Communications	None												

\$1,909,800	\$0	\$2,430,000	\$0	\$36,760	\$97,740	\$134,500	\$24,740
Estimated Total Capital Cost	Estimated Device Communications Cost	Estimated Network Communications Cost	Estimated Non- ITS Capital Cost	Maintenance Cost (Per Year)	Operation Cost (Per Year)	Total O&M Cost (Per Year)	Replacement Cost (Per Year)