

**RHODE ISLAND TURNPIKE AND BRIDGE AUTHORITY  
MOUNT HOPE BRIDGE  
CURRENT TEN-YEAR RENEWAL AND REPLACEMENT PLAN (in 2007 Dollars)**

PROJECT DESCRIPTION	ESTIMATED PROJECT EXPENDITURE FOR FISCAL YEAR (\$1000)											TOTAL PROJECT COSTS (\$1000)
	TYPE (See Notes)	July 2006- June 2007	July 2007- June 2008	July 2008- June 2009	July 2009- June 2010	July 2010- June 2011	July 2011- June 2012	July 2012- June 2013	July 2013- June 2014	July 2014- June 2015	July 2015- June 2016	
1 03-1 Electrical System Upgrade (closeout) Engineering/Tech. Support	Upgrade	60										60 0
<b>Project Total</b>											<b>60</b>	
2 Tower Pier and Anchorage Rehabilitation & Bridge Scour Remediation <sup>8</sup> Engineering/ Tech. Support	Upgrade		2,500	5,000	2,400							9,900 1,190
<b>Project Total</b>											<b>11,090</b>	
3 Engineering and Underwater Inspection Specialist	Insp.					77					77	154
<b>Project Total</b>											<b>154</b>	
4 Security Assessment Study & Upgrades (incl. Cameras) Engineering/Tech. Support	Study	Recommendations to be implemented in appropriate current and upcoming Contracts.									0 0	
<b>Project Total</b>											<b>0</b>	
5 05-11 - Painting and Rehabilitation of Towers & Expansions Joints, Painting of Spans 1-11 and Repairs of Approaches <sup>6</sup> Engineering/Tech. Support	Maint./ Rehab.	6,050	3,000									9,050 775
<b>Project Total</b>											<b>9,825</b>	
6 Fracture Critical Biennial and Annual Inspections	Insp.	30	220	32	220	32	220	32	220	32	220	1,258
<b>Project Total</b>											<b>1,258</b>	
7 05-6 - On-Call Deck Maintenance <sup>9</sup> Engineering/Tech. Support	Maint./ Rehab	1,150	300	300								1,750 340
<b>Project Total</b>											<b>2,090</b>	
8 Future Repairs / Minor Rehabilitation Engineering/Tech. Support	Maint./ Rehab				160	160	160	160	160	160	160	1,120 112
<b>Project Total</b>											<b>1,232</b>	
9 Seismic Vulnerability Study and Retrofit Engineering/Tech. Support	Upgrade		Retrofit needs to be determined by Study and Engineering. These costs will be programmed into the plan once the needs are better quantified.									0 400
<b>Project Total</b>											<b>400</b>	
10 Approach Pavement Replacement Engineering/Tech. Support	Maint./ Upgrade							140				140 14
<b>Project Total</b>											<b>154</b>	
11 (PROJECT RE-SCOPED) Roadway Deck - Remove Concrete Overfill & Replace with Pavement <sup>9</sup> Engineering/Tech. Support	Maint.					4,650						4,650 485
<b>Project Total</b>											<b>5,135</b>	

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12 Superstructure Painting and Rehabilitation & Catwalk Upgrade(Zone Painting Contracts)	Maint.				1,315	2,650	2,650	2,650	2,650	2,650	1,050	15,615
Engineering/Tech. Support				210	132	265	265	265	265	265	105	1,772
<b>Project Total</b>											<b>17,387</b>	
13 Environmental Mitigation Study	Study / Mitigation	Needs to be determined by study. These costs will be programmed into the plan once the needs are better quantified.										0
<b>Project Total</b>											<b>0</b>	
14 <b>(PROJECT RE-SCOPED)</b> Cable Inspection (8 Panels Including Backstays) <sup>11</sup>	Insp.				600							600
Engineering/Tech. Support					400							400
<b>Project Total</b>											<b>1,000</b>	
15 <b>(NEW PROJECT)</b> Anchorage Dehumidification System	Upgrade	Needs to be determined by study. These costs will be programmed into the plan once the needs are better quantified.										0
Engineering/ Tech. Support												0
<b>Project Total</b>											<b>0</b>	
16 <b>(NEW PROJECT)</b> Cable Bent Legs Interior Painting and Rehabilitation	Upgrade		380									380
Engineering/ Tech. Support			38									38
<b>Project Total</b>											<b>418</b>	
<b>TOTAL ESTIMATED EXPENDITURE PER FISCAL YEAR</b>												
		8,405	7,188	6,142	5,503	8,315	3,311	3,277	3,311	3,123	1,628	
<b>Notes:</b>											<b>\$50,203</b>	

- 1 All estimates are preliminary budget estimates based on available information and indicate the approximate magnitude of anticipated cost.
- 2 Projects identified under maintenance category are for the preservation of structural integrity.
- 3 Projects identified under upgrade are for bridge system preservation, updating to current standards and for improvement in level of service.
- 4 The above listing is exclusive of recurring general maintenance of bridge and other facilities.
- 5 Detail project scoping will be performed on a project basis.
- 6 Construction and Engineering/Technical Support costs for Contracts 05-11 and 05-6 have been determined based on actual "Not-to-Exceed" budgets minus actual money spent through June 2006.
- 7 Engineering/Technical Support costs for all other projects have been projected as 10% of the estimated construction cost.
- 8 The 2006 10-Year Plan listed Bridge Scour Remediation and Tower Pier and Anchorage Rehabilitation as two (2) separate projects. For 2007 the projects have been combined. Costs have been determined from actual bid prices (June 2005) for Contract 05-3, which was reduced in scope and re-bid as Contract 05-11. June 2005 prices have been escalated to December 2006 using ENR cost indices for Boston, MA.
- 9 Previous 10-Year Plan considered deck resurfacing only (i.e., isolated concrete repairs and additional chip seal). The re-scoping assumes that the 2" concrete overfill will be completely replaced by pavement.
- 10 NOT USED
- 11 The Southeast Backstay Inspection, included in the 2006 10-Year Plan, has now been rolled into a bridge-wide cable inspection.
- 12 Projects 1 through 14 are carried over from last year. Projects 15 and 16 are new to the 10-Year Plan.

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PROJECT			ESTIMATED PROJECT EXPENDITURE FOR FISCAL YEAR (\$1000)										TOTAL PROJECT COSTS (\$1000)
	DESCRIPTION	TYPE	7/06 to 6/07	7/07 to 6/08	7/08 to 6/09	7/09 to 6/10	7/10 to 6/11	7/11 to 6/12	7/12 to 6/13	7/13 to 6/14	7/14 to 6/15	7/15 to 6/16	
1	Bridge Deck Evaluation (concrete)	Study/Rehab		Rehabilitation needs to be determined by the evaluation. These will be programmed into the plan once the needs are better quantified.									0
	Engineering/Technical Support	(Deck)	100							100			200
			Project Total										200
2	Bridge Deck Sealing (concrete)	Maint/Rehab		150							150		300
	Engineering/Technical Support	(Deck)	35	15							15		65
			Project Total										365
3	Bridge Deck Slab Partial Depth Rehabilitation (Hydrodemolition) (concrete)	Maint/Rehab			3,000		3,500	3,500				4,000	14,000
	Engineering/Technical Support	(Deck)		40	110	40	350	120				400	1,060
			Project Total										15,060
4	Bridge Deck Patching Roadway/Approaches (concrete)	Maint/Rehab	240	240	240	240	240	240	240	240	240	240	2,400
	Engineering/Technical Support	(Deck)	15	15	15	15	15	15	15	15	15	15	150
			Project Total										2,550
5	Bridge Deck Joint and Header Repairs (concrete)	Maint/Rehab			250		500	250				500	1,500
	Engineering/Technical Support	(Deck)		35	25		50	25				50	185
			Project Total										1,685
6	Rehabilitation of West Approach Roadway Pavement (asphalt)	Maint/Rehab		1,000									1,000
	Engineering/Technical Support	(Roadway)	60	100									160
			Project Total										1,160
7	Rehabilitation of Structure "E" Bridge Deck (concrete)	Study/Rehab			350								350
	Engineering/Technical Support	(Deck)		60	70								130
			Project Total										480
8	Removal of loose haunches (combine with appropriate contracts) (concrete)	Maint.		250			475	475	475				1,675
	Engineering/Technical Support	(Deck)		15			30	30	30				105
			Project Total										1,780

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9	Concrete repairs on piers, abutments and anchorages Engineering/Technical Support	Maint/Rehab (Sub Structure)											0	
													0	
			Project Total										0	
10	Placing Protective Concrete Jacketing on West Prot. Cells Engineering/Technical Support	Maint/Rehab (Sub structure)					850						850	
						60	100						160	
													1,010	
			Project Total										0	
11	Painting of steel superstructure Engineering/Technical Support	Maint. (Paint)			6,000	6,000		4,750	4,750	4,750	1,000		27,250	
			125	250	250	225	250	350	225	150	175		2,000	
													29,250	
			Project Total										29,250	
12	Steel Superstructure Repairs/Retrofits Engineering/Technical Support	Maint/Rehab (Steel super structure)			Repair needs to be finalized at completion of in-depth inspection. These will be programmed into the plan once the needs are better quantified.									0
			25	125									150	
													150	
			Project Total										150	
13	Main Cable Unwrapping, Inspection, Testing & Repairs Contract 06-7 Engineering/Technical Support	Upgrade (Steel specialty)			Repair needs to be determined by the Inspection. These will be programmed into the plan once the needs are better quantified.								2,000	
			2,000										2,000	
			400						700				1,100	
													3,100	
			Project Total										3,100	
14	Tower Link Repairs and Cable Bent Pin Repairs Engineering/Technical Support	Maint. (Steel specialty)			125		125					125	375	
					15		15					15	45	
													420	
			Project Total										420	

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15	Seismic Vulnerability Study and Upgrade	Upgrade			Retrofit needs to be determined by Study and Engineering. These will be programmed into the plan once the need are better quantified.								0
	Engineering/Technical Support	(Sub structure/ super structure/ bearings)	100	425									525
												525	
16	Security Assessment, Security Cameras and Security Monitoring	Upgrade		87									87
	Engineering/Technical Support	(Safety)		5									5
Project Total												92	
17	Electrical Inspection & Repairs, and Anchorage Dehumidification and Drainage Repairs - Contract 05-12	Maint.	3,095	1,326									4,421
	Engineering/Technical Support	(Electrical/ steel specialty)	147	63									211
Project Total												4,632	
18	Main Bridge - Upgrading Inspection Catwalks to OSHA Standards - Contract 05-12	Upgrade	473	473									945
	Engineering/Technical Support	(Steel super structure)	22	22									44
Project Total												989	
19	In-Depth Inspection	Maint.	400	300					350	350	350		1,750
Project Total												1,750	
20	Archive original design dwgs & shop drawings	Upgrade		110									110
	Engineering/Technical Support	(Admin)											0
Project Total												110	

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21	Study for Upgrading Toll Collection Systems Engineering/Technical Support	Study/ Upgrade (Tolls)	135		Needs to be determined by study. These will be programmed into the plan once the needs are better quantified.								0
													135
			Project Total										135
22	Rehabilitation of Admin Bldg & Grounds Engineering/Technical Support	Rehab. (Admin/ safety)		255	850	650							1,755
				20	55	35							110
			Project Total										1,865
23	Study/Implementation of Adding a Median Barrier Engineering/Technical Support	Upgrade (Safety)	150	Retrofit/Installation of Median Barrier needs to be determined by Study and Engineering. These costs will be programmed into the plan once the needs are better quantified.								0	
													150
			Project Total										150
24	Rocker Bearing Repairs/Resetting Engineering/Technical Support	Repair (Bearings)	280		100			100				100	580
			40		20			20				20	100
			Project Total										680
25	Miscellaneous Maint & Repairs	Maint.	100	100	100	100	100	100	100	100	100	100	1,000
			Project Total										1,000
<b>TOTAL EST'D EXPENDITURE BY FISCAL YEAR</b>			<b>7,942</b>	<b>5,481</b>	<b>11,575</b>	<b>7,365</b>	<b>6,600</b>	<b>9,975</b>	<b>6,885</b>	<b>5,705</b>	<b>2,045</b>	<b>5,565</b>	
													<b>\$69,138</b>

<b>MOUNT HOPE TOTALS</b>	<b>8,405</b>	<b>7,188</b>	<b>6,142</b>	<b>5,503</b>	<b>8,315</b>	<b>3,311</b>	<b>3,277</b>	<b>3,311</b>	<b>3,123</b>	<b>1,628</b>	<b>\$50,203</b>
<b>RITBA TOTALS BOTH BRIDGES</b>	<b>16,347</b>	<b>12,669</b>	<b>17,717</b>	<b>12,868</b>	<b>14,915</b>	<b>13,286</b>	<b>10,162</b>	<b>9,016</b>	<b>5,168</b>	<b>7,193</b>	<b>\$119,341</b>

**NOTES:**

- 1 All estimates are preliminary budget estimates based on available information and indicate the approximate magnitude of cost.
- 2 Projects identified under maintenance category are repairs required for the preservation of structure integrity.
- 3 Projects identified under maintenance/rehab category are for preservation of structural integrity on a scale larger than typical repairs.
- 4 Projects identified under upgrade are for bridge system preservation, updating to current standards and for significant improvement in level of service.
- 5 The above listing is exclusive of recurring general maintenance of bridge and other facilities and annual inspection projects.
- 6 Detail project scoping will be performed on a project basis.
- 7 Engineering/Technical Support costs for this Ten-Year Plan have been projected as a percentage of the estimated construction cost.