

**RHODE ISLAND TURNPIKE AND BRIDGE AUTHORITY
NEWPORT/PELL BRIDGE
2011 TEN YEAR RENEWAL AND REPLACEMENT PLAN - Approved by Board July 13, 2011
(IN 2011 DOLLARS)**

PROJECT				ESTIMATED PROJECT EXPENDITURE FOR FISCAL YEAR (\$1000)										TOTAL PROJECT COSTS (\$1000)
Item	Priority	DESCRIPTION	TYPE (See Notes)	July 2011- June 2012	July 2012- June 2013	July 2013- June 2014	July 2014- June 2015	July 2015- June 2016	July 2016- June 2017	July 2017- June 2018	July 2018- June 2019	July 2019- June 2020	July 2020- June 2021	
1	2	Bridge Deck Evaluation (concrete) and Full Depth Replacement (See note 8 below)	Study/ Rehab										14,200	14,200
		Engineering/Technical Support (Deck)						105				420	730	1,255
Project Total													15,455	
2	1	Bridge Deck Sealing (concrete)	Maint/ Rehab			450					450			900
		Engineering/Technical Support (Deck)				15					15			30
Project Total													930	
3	1	Bridge Deck Slab Partial Depth Rehabilitation (Hydrodemolition) (concrete)	Maint/ Rehab				3,800	3,800						7,600
		Engineering/Technical Support (Deck)				315	420	420			315			1,470
Project Total													9,070	
4	1	Bridge Deck Patching Roadway/Approaches (concrete)	Maint/ Rehab	250	250	250	250	250	125	125	125	125	125	1,875
		Engineering/Technical Support (Deck)		15	15	15	15	15	15	15	15	15	15	150
Project Total													2,025	
5	2	Bridge Deck Rideability Improvemements	Upgrade	55	55	55								165
		Engineering/Technical Support (Deck)		2	2	2								6
Project Total													171	
6	2	Bridge Deck Joint and Header Repairs (concrete)	Maint/ Rehab	210	210	210	210	210	105	105	105	105	105	1,575
		Engineering/Technical Support (Deck)		10	10	10	10	10	5	5	5	5	5	75
Project Total													1,650	
7	1	Rehabilitation of West Approach Roadway Pavement (asphalt) (See note 7 below)	Maint/ Rehab			2,100								2,100
		Engineering/Technical Support (Roadway)				210								210
Project Total													2,310	

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8	2	Structure "E" Maintenance and Repairs	Study/Rehab (Deck)	40					35					75
				Project Total										75
9	1	Removal of loose haunches (combine with appropriate contracts) (concrete)	Maint. (Deck)	150	150	150	100	100	50					700
		Engineering/Technical Support	(Deck)											0
				Project Total										700
10	2	Concrete repairs on prestressed beams, piers, abutments and anchorages	Maint/Rehab (Sub Structure)			1,000				800	800			2,600
		Engineering/Technical Support	(Sub Structure)			10			80	80	80			250
						Beams			Piers, Abutments & Anchorages					2,850
11	2	Placing Protective Concrete Jacketing on West Prot. Cells	Maint/Rehab (Sub structure)							1,050				1,050
		Engineering/Technical Support	(Sub structure)	53					100	100				253
														1,303
12	1	Painting of steel superstructure	Maint. (Paint)	33,000	17,000	19,000	9,000	7,000	9,000					94,000
		Engineering/Technical Support	(Paint)	3,000	1,700	1,900	900	900	300					8,700
				Main Spans		MS & EA	East App	EA & WA	West Approach					102,700
13	1	Steel Superstructure Repairs/Retrofits	Maint/Rehab (Steel super structure)	4,000	2,000	4,000	2,000	2,000	100					14,100
		Engineering/Technical Support	(Steel super structure)	400	200	400	200	150						1,350
				Main Spans		MS & EA	East App	EA & WA	West Approach					15,450

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14	2	Main Cable Unwrapping, Inspection, Testing & Repairs	Upgrade							3,150	Needs to be det'd by 2018 insp.			3,150
		Engineering/Technical Support	(Steel specialty)						155	450				605
Project Total													3,755	
15	2	Tower Link Repairs and Cable Bent Pin Repairs	Maint.			260					135			395
		Engineering/Technical Support	(Steel specialty)			20					20			40
Project Total													435	
16	2	Seismic Vulnerability Study and Upgrade	Upgrade											0
		Engineering/Technical Support	(Sub structure/ super structure/ bearings)			525	Scope of work to be determined by study.							525
Project Total													525	
17	2	Bearing Replacements	Upgrade					2,100	2,100	3,200	3,200			10,600
		Engineering/Technical Support						210	210	210	210			840
Project Total													11,440	
18	1	Security Assessment, Security Cameras, Fencing and Security Monitoring - Bridge Armoring (See note 6 below)	Upgrade	300	100	Bridge Armoring to be Implemented as soon as funds are available							400	
		Engineering/Technical Support	(Safety)	3	3									6
Project Total													406	
19	1	FCM Inspections	Insp.	400	400	400	400	400	400	400	400	400	400	4,000
Project Total													4,000	

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20	1	Underwater Inspection	Insp.	600					600					1,200
Project Total													1,200	
21	3	Archive original design dwgs & shop drawings Engineering/Technical Support	Upgrade (Admin)		50		50		50		50			200
Project Total													200	
22	1	Rehabilitation of Admin Bldg & Grounds Engineering/Technical Support	Rehab. (Admin/safety)	2,500 250	1,000 100									3,500 350
Project Total													3,850	
23	1	Study/Implementation of Adding a Median Barrier Including Wind Study Engineering/Technical Support	Upgrade (Safety)			5,800 550								5,800 800
Project Total													6,600	
24	2	Rocker Bearing Repairs/Resetting Engineering/Technical Support	Repair (Bearings)		105 20			105 20					105 21	315 61
Project Total													376	
25	2	Update As-Built and As-Inspected Load Ratings	Maint.				500							500
Project Total													500	

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26	2	Open Road Tolling Engineering/Technical Support	Upgrade	2,000	2,000									4,000 0
Project Total													4,000	
27	1	Variable Message Signs Upgrade Engineering/Technical Support	Upgrade (Safety)	400 40										400 40
Project Total													440	
28	2	Miscellaneous Maint & Repairs	Maint.	100	100	100	100	100	100	100	100			800
Project Total													800	
TOTAL EST'D EXPENDITURE BY FISCAL YEAR				47,978	25,520	37,747	17,955	17,895	13,530	9,790	6,025	1,070	15,706	
													\$193,216	

MOUNT HOPE TOTALS	8,077	8,852	4,932	4,532	8,587	8,892	4,632	417	227	522	\$49,670
RITBA TOTALS BOTH BRIDGES	56,055	34,372	42,679	22,487	26,482	22,422	14,422	6,442	1,297	16,229	\$242,886
TOTAL FOR BOTH BRIDGES THROUGH YEAR 5											182,075

NOTES:

- 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 Detail project scoping will be performed on a project basis.
- 5 Engineering/Technical Support costs for all projects have been typically projected as 10% of the estimated construction cost.
- 6 Item 18 Port Security Grant of \$500,000 to fund a portion of this work.
- 7 Item 7 was deferred from 2009 to 2013 at the request of the RITBA Board of Directors.
- 8 Item 1 – Minimum additional \$14,200,000 in construction and \$730,000 in Engineering costs in the years outside of this plan (July 2021/June202) with the actual amount to be estimated based on the 2015 deck evaluation.

For Maintaining Structural Integrity

Upgrade/Improvement

For Meeting Standards/Safety

Priority - 1 High, 2 Medium, 3 Low

RHODE ISLAND TURNPIKE AND BRIDGE AUTHORITY
MOUNT HOPE BRIDGE
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1	1	Engineering and Underwater Inspection Specialist	Insp.	105					105					210
Project Total													210	
2	1	Security Assessment Study & Upgrades (incl. Cameras & Fencing) - Bridge Armoring (See note 6 below)	Upgrade	210	105		Bridge Armoring to be Implemented as soon as funds are available							315
		Engineering/Tech. Support		20	10									30
Project Total													345	
3	1	Fracture Critical Biennial and Annual Inspections	Insp.	40	230	40	230	40	230	40	230	40	230	1,350
Project Total													1,350	
4	2	On-Call Deck Maintenance	Maint./	630	630	470	470			95			95	2,389
		Engineering/Tech. Support	Rehab	60	60	20	20			10			11	181
Project Total													2,570	
5	2	On-Call Steel Repairs & Zone Painting	Maint./	630	630	470	470							2,200
		Engineering/Tech. Support	Rehab	60	60	20	20							160
Project Total													2,360	
6	2	Future Repairs / Minor Rehabilitation	Maint./	170	170	170	170	170	170	170	170	170	170	1,700
		Engineering/Tech. Support	Rehab	17	17	17	17	17	17	17	17	17	17	170
Project Total													1,870	
7	2	Seismic Vulnerability Study and Retrofit	Upgrade				2,700	2,700	2,700					8,100
		Engineering/Tech. Support			420		270	270	270					1,230
Project Total													9,330	
8	3	Approach Pavement Replacement	Maint./				150							150
		Engineering/Tech. Support	Upgrade				15							15
Project Total													165	
9	2	Roadway Deck - Remove Concrete Overfill & Replace with Pavement	Maint.					4,900						4,900
		Engineering/Tech. Support			20			490						510
Project Total													5,410	

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10	1	Superstructure Painting & Steel Repairs & Catwalk Upgrade(Zone Painting Contracts)	Maint.	4,000	6,000				5,000	4,000				19,000
		Engineering/Tech. Support		250	500				400	300				1,450
Project Total													20,450	
11	1	Cable Bent Legs Interior	Upgrade	1,050										1,050
		Engineering/ Tech. Support		210										210
Project Total													1,260	
12	2	Cable Inspection (8 Panels Including Backstays)/Cable Band re-painting/re-caulking	Insp.			3,200								3,200
		Engineering/Tech. Support				525								525
Project Total													3,725	
13	1	Field Investigation/Evaluation of Anchorage Eyebars	Insp./ Study	100										100
Project Total													100	
14	2	Perform As-Built & As-Inspected Load Rating	Insp/ Study	525										525
Project Total													525	
15	3	Anchorage Dehumidification System	Upgrade	Scope of work to be determined by study.										0
		Engineering/ Tech. Support												0
Project Total													0	
TOTAL ESTIMATED EXPENDITURE PER FISCAL YEAR				8,077	8,852	4,932	4,532	8,587	8,892	4,632	417	227	522	
													\$49,670	

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