

TOTAL PROJECT BCA		
7% NPV Summary over 30 Years		
ALL PROJECTS	Costs	Benefits
CAPEX	\$57,038,894	
M&O	\$3,202,694	\$7,306,377
Travel Time Savings		\$456,937,582
Safety		\$10,739,897
Emissions		\$4,100,192
Operating Costs		\$6,338,807
TOTAL	\$60,241,589	\$485,422,855
Benefit-Cost Ratio		8.06

Pittsfield, I-95 Bridges over Webb Rd. #1449, #5984
Benefit Cost Analysis (BCA) - Bridge Deck Replacement compared to No Build

7% NPV Summary over 30 Years		
Bridge #1449 and #5984	Costs	Benefits
CAPEX	\$6,345,577	
M&O	\$478,753	\$496,632
Travel Time Savings		\$101,314,856
Safety		-\$10,927,672
Emissions		-\$8,632,665
Operating Costs		-\$44,941,619
TOTAL	\$6,824,330	\$37,309,532
Benefit-Cost Ratio		5.47

Pittsfield, I-95 Bridges over Somerset Ave. #1447, #5985
Benefit Cost Analysis (BCA) - Bridge Deck Replacement compared to No Build

7% NPV Summary over 30 Years		
Bridge #1447 and #5985	Costs	Benefits
CAPEX	\$6,416,876	
M&O	\$499,158	\$496,632
Travel Time Savings		\$101,314,856
Safety		-\$2,073,669
Emissions		-\$8,632,665
Operating Costs		-\$44,941,619
TOTAL	\$6,916,033	\$46,163,534
Benefit-Cost Ratio		6.67

Hampden, US202 Bridges over Souadabscook Str. #1524, #6079
Benefit Cost Analysis (BCA) - Bridge Deck Replacement compared to No Build

7% NPV Summary over 30 Years		
Bridge #1524 and #6079	Costs	Benefits
CAPEX	\$5,703,889	
M&O	\$784,678	\$964,643
Travel Time Savings		\$20,315,939
Safety		\$1,285,408
Emissions		\$904,074
Operating Costs		\$4,732,609
TOTAL	\$6,488,567	\$28,202,674
Benefit-Cost Ratio		4.35

Hampden, US202 Bridge over MCRR. #6080
Benefit Cost Analysis (BCA) - Bridge Deck Replacement compared to No Build

7% NPV Summary over 30 Years		
Bridge #6080	Costs	Benefits
CAPEX	\$2,138,959	
M&O	\$294,854	\$496,632
Travel Time Savings		\$20,315,939
Safety		\$1,285,408
Emissions		\$904,074
Operating Costs		\$4,732,609
TOTAL	\$2,433,813	\$27,734,663
Benefit-Cost Ratio		11.40

Bangor, US202 Bridge over I-395. #6082
Benefit Cost Analysis (BCA) - Bridge Deck Replacement compared to No Build

7% NPV Summary over 30 Years		
Bridge #6080	Costs	Benefits
CAPEX	\$3,850,125	
M&O	\$601,840	\$496,632
Travel Time Savings		\$20,315,939
Safety		\$1,285,408
Emissions		\$904,074
Operating Costs		\$4,732,609
TOTAL	\$4,451,966	\$27,734,663
Benefit-Cost Ratio		6.23

Howland, Route 155 over I-95 Bridge #6068
Benefit Cost Analysis (BCA) - Bridge Deck Replacement and Substructure Rehab compared to No Build

7% NPV Summary over 30 Years		
Bridge #6068	Costs	Benefits
CAPEX	\$3,707,528	
M&O	\$543,411	\$496,632
Travel Time Savings		\$15,476,870
Safety		\$2,321,335
Emissions		\$1,760,712
Operating Costs		\$9,183,146
TOTAL	\$4,250,939	\$29,238,696
Benefit-Cost Ratio		6.88

Medway, I-95 Bridges over Route 116. #1411, #6077
Benefit Cost Analysis (BCA) - Bridge Deck Replacement compared to No Build

7% NPV Summary over 30 Years		
Bridge #1410 and #6078	Costs	Benefits
CAPEX	\$4,206,618	
M&O	\$478,753	\$496,632
Travel Time Savings		\$85,674,961
Safety		\$8,511,104
Emissions		\$6,790,622
Operating Costs		\$35,336,497
TOTAL	\$4,685,372	\$136,809,816
Benefit-Cost Ratio		29.20

Medway, I-95 Bridges over Penobscot River. #1410, #6078
Benefit Cost Analysis (BCA) - Bridge Deck Replacement compared to No Build

7% NPV Summary over 30 Years		
Bridge #1410 and #6078	Costs	Benefits
CAPEX	\$17,967,252	
M&O	\$1,438,445	\$2,368,676

Travel Time Savings		\$85,674,961
Safety		\$8,511,104
Emissions		\$6,790,622
Operating Costs		\$35,336,497
TOTAL	\$19,405,697	\$138,681,859
Benefit-Cost Ratio		7.15

Medway, Route 157 Bridge over I-95 Interchange. #6141
Benefit Cost Analysis (BCA) - Bridge Deck Replacement compared to No Build

7% NPV Summary over 30 Years		
Bridge #6080	Costs	Benefits
CAPEX	\$3,422,334	
M&O	\$527,512	\$496,632
Travel Time Savings		\$5,298,535
Safety		\$334,390
Emissions		\$3,154,323
Operating Costs		\$1,348,872
TOTAL	\$3,949,845	\$10,632,752
Benefit-Cost Ratio		2.69

Benedicta, Casey Road Bridge over I-95 Interchange. #6165
Benefit Cost Analysis (BCA) - Bridge Deck Replacement compared to No Build

7% NPV Summary over 30 Years		
Bridge #6165	Costs	Benefits
CAPEX	\$3,279,736	
M&O	\$491,208	\$496,632
Travel Time Savings		\$1,234,726
Safety		\$207,081
Emissions		\$157,021
Operating Costs		\$819,208
TOTAL	\$3,770,945	\$2,914,667
Benefit-Cost Ratio		0.77