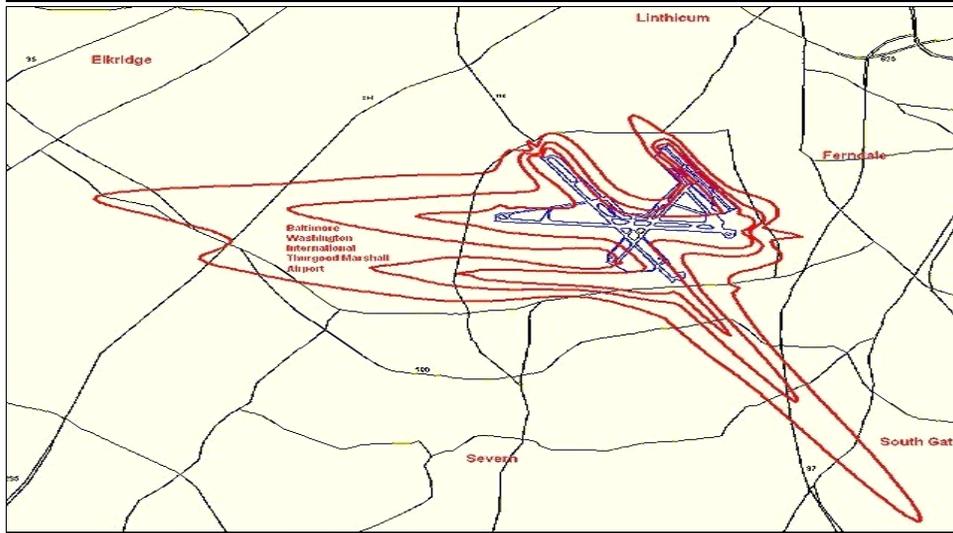


**MARYLAND AVIATION ADMINISTRATION**

**MARYLAND AVIATION ADMINISTRATION  
CAPITAL PROGRAM SUMMARY  
(\$ MILLIONS)**

	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>SIX-YEAR TOTAL</u>
<b><u>Construction Program</u></b>							
Major Projects	58.1	42.9	80.9	69.9	85.5	53.1	390.4
System Preservation Minor Projects	25.6	30.9	33.3	26.4	32.6	43.5	192.3
<b><u>Development &amp; Evaluation Program</u></b>	<u>0.4</u>	<u>5.0</u>	<u>6.0</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>11.3</u>
<b>SUBTOTAL</b>	84.1	78.7	120.1	96.3	118.1	96.6	594.0
<b><u>Capital Salaries, Wages &amp; Other Costs</u></b>	<u>6.1</u>	<u>6.1</u>	<u>6.1</u>	<u>6.1</u>	<u>6.1</u>	<u>6.1</u>	<u>36.6</u>
<b>TOTAL</b>	90.2	84.8	126.2	102.4	124.2	102.7	630.6
<b>Special Funds</b>	35.1	48.5	51.5	37.4	35.9	34.5	243.0
<b>Federal Funds</b>	14.5	8.7	18.4	14.5	17.4	12.4	85.9
<b>Other Funding *</b>	40.5	27.6	56.4	50.5	70.9	55.9	301.7
<b><u>Other Funding Breakdown*</u></b>							
CFC	1.4			-	-	-	1.4
PFC	13.8	24.9	54.5	49.5	70.9	55.9	269.5
RAA	4.9	1.0	1.0	1.0	-	-	7.9
TSAOTA	<u>20.5</u>	<u>1.6</u>	<u>0.8</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>23.0</u>
	40.5	27.6	56.4	50.5	70.9	55.9	301.7



**PROJECT:** Noise Zone Land Acquisition Program

**DESCRIPTION:** This program promotes compatible land use around Baltimore/Washington International Thurgood Marshall Airport (BWI Marshall). This is accomplished through the purchase of residential properties offered voluntarily for sale by owner within designated impacted noise areas.

**PURPOSE & NEED SUMMARY STATEMENT:** The Maryland Environmental Noise Act requires the Maryland Aviation Administration (MAA) to minimize the impact of aircraft related noise on people living near BWI Marshall. The purpose of this program is to purchase, at fair market value, the most severely impacted residential properties within the BWI Marshall Noise Zone, in accordance and consistent with local zoning.

**SMART GROWTH STATUS:**  Project Not Location Specific or Not Subject to PFA Law

- Project Inside PFA
- Project Outside PFA
- PFA Status Yet to Be Determined
- Grandfathered
- Exception Will Be Required
- Exception Granted

**ASSOCIATED IMPROVEMENTS:**  
Homeowner Assistance Program -- Line 2

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

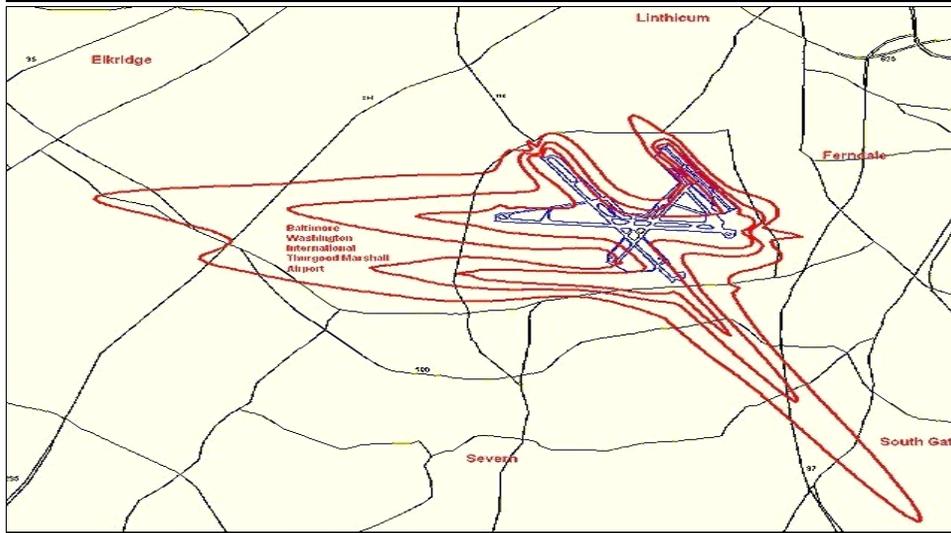
- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** This program enhances the environment of neighboring communities by providing noise mitigation through the purchase of residential properties from people living within designated noise zones near BWI Marshall.

**STATUS:** MAA has acquired 250 properties through FY 2010.

POTENTIAL FUNDING SOURCE:		<input checked="" type="checkbox"/> SPECIAL		<input checked="" type="checkbox"/> FEDERAL		<input type="checkbox"/> GENERAL		<input type="checkbox"/> OTHER		
PHASE	TOTAL ESTIMATED COST (\$000)	EXPEND THRU 2010	CURRENT YEAR 2011	BUDGET YEAR 2012	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
					....2013....	....2014....	....2015....	....2016....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	49	49	0	0	0	0	0	0	0	0
Right-of-way	35,414	33,814	0	800	800	0	0	0	1,600	0
Construction	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>35,463</b>	<b>33,863</b>	<b>0</b>	<b>800</b>	<b>800</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,600</b>	<b>0</b>
Federal-Aid	23,687	23,687	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2010 - 15 CTP:** The cashflow change aligns potential payments with the Noise Land Re-Use Plan.



**PROJECT:** Homeowner Assistance Program

**DESCRIPTION:** This voluntary program provides for the mitigation of aircraft noise and improvement of land-use compatibility around BWI Marshall. Homeowners may elect to either sell their home, with the State ensuring a fair market value, or have their house soundproofed to reduce interior noise levels. The State receives an aviation easement for each participating property.

**PURPOSE & NEED SUMMARY STATEMENT:** This program enhances the environment of neighboring communities by providing noise mitigation for homeowners residing within the BWI Marshall Airport Noise Zone starting with the most severely impacted communities.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** This program enhances the environment of neighboring communities by providing homeowner noise mitigation for people living within designated noise zones near BWI Marshall.

**SMART GROWTH STATUS:**  Project Not Location Specific or Not Subject to PFA Law

- Project Inside PFA
- Project Outside PFA
- PFA Status Yet to Be Determined
- Grandfathered
- Exception Will Be Required
- Exception Granted

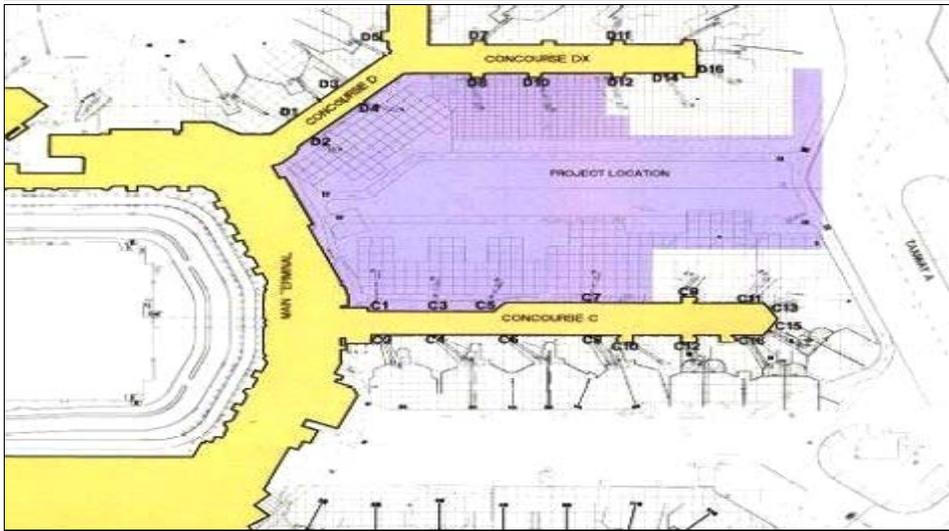
**ASSOCIATED IMPROVEMENTS:**

Noise Zone Land Acquisition Program -- Line 1

**STATUS:** MAA has participated in the soundproofing of 670 properties and sales assistance for 113 homes through FY 2010.

**SIGNIFICANT CHANGE FROM FY 2010 - 15 CTP:** The \$1.0 million cost decrease reflects program cost containment.

POTENTIAL FUNDING SOURCE:		<input checked="" type="checkbox"/> SPECIAL		<input checked="" type="checkbox"/> FEDERAL		<input type="checkbox"/> GENERAL		<input type="checkbox"/> OTHER			
PHASE	TOTAL		CURRENT YEAR	BUDGET YEAR	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE	
	ESTIMATED COST (\$000)	EXPEND THRU 2010			2011	2012	.....2013.....	.....2014.....			.....2015.....
Planning	0	0	0	0	0	0	0	0	0	0	
Engineering	460	442	3	3	3	3	3	3	18	0	
Right-of-way	26,320	22,361	57	156	936	936	937	937	3,959	0	
Construction	0	0	0	0	0	0	0	0	0	0	
<b>Total</b>	<b>26,780</b>	<b>22,803</b>	<b>60</b>	<b>159</b>	<b>939</b>	<b>939</b>	<b>940</b>	<b>940</b>	<b>3,977</b>	<b>0</b>	
Federal-Aid	14,492	11,372	0	0	780	780	780	780	3,120	0	



**PROJECT:** Concourse C/D Apron Reconstruction at BWI Marshall Airport (ARRA)

**DESCRIPTION:** This project consists of the reconstruction of the aircraft ramp area between Concourses C and D. The work includes pavement removal and reconstruction, improvements to drainage structures, upgrades to deicing collection facilities, communications infrastructure, and ramp lighting.

**PURPOSE & NEED SUMMARY STATEMENT:** The project will enhance airfield safety and operations through reconstruction of pavement and apron grade, drainage structures, and upgrade of airfield lighting to meet Federal Aviation Administration (FAA) standards. The areas identified for upgrades were determined through independent pavement analysis as required by the FAA.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**SMART GROWTH STATUS:**  Project Not Location Specific or Not Subject to PFA Law

- Project Inside PFA
- Project Outside PFA
- PFA Status Yet to Be Determined
- Grandfathered
- Exception Will Be Required
- Exception Granted

**ASSOCIATED IMPROVEMENTS:**

**EXPLANATION:** This project enhances compliance with FAA Part 139 regulations that require airfield pavement to be free cracks and surface variations that could impair directional control of air carrier aircraft. New drainage and deicing structures will improve runoff collection and recycling of chemicals used for inclement weather.

**STATUS:** Construction underway. ARRA phases to be complete by February 2011 and the balance of the project by Fall 2011.

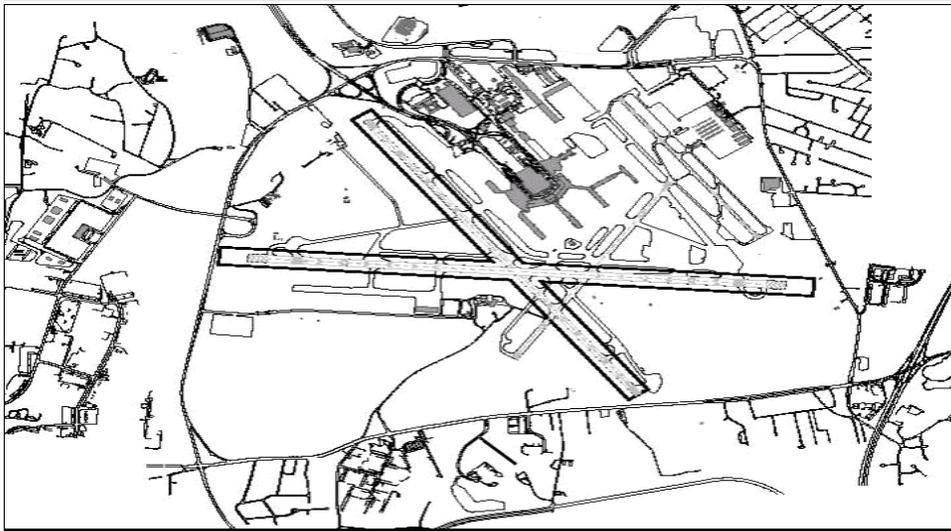
**SIGNIFICANT CHANGE FROM FY 2010 - 15 CTP:** Cost increase of \$2.0 million reflects security cost and actual expenditures. Cashflow change reflects schedule revision due to last winters weather.

**USAGE:** Accommodate projected annual passenger growth.

**OPERATING COST IMPACT:** Operating cost will be recovered through airport user fees.

POTENTIAL FUNDING SOURCE:		<input type="checkbox"/> SPECIAL		<input checked="" type="checkbox"/> FEDERAL		<input type="checkbox"/> GENERAL		<input checked="" type="checkbox"/> OTHER			
PHASE	TOTAL ESTIMATED COST (\$000)	EXPEND THRU 2010	CURRENT YEAR 2011	BUDGET YEAR 2012	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE	
					.....2013.....	.....2014.....	.....2015.....	.....2016.....			
Planning	0	0	0	0	0	0	0	0	0	0	
Engineering	3,014	2,924	90	0	0	0	0	0	90	0	
Right-of-way	0	0	0	0	0	0	0	0	0	0	
Construction	42,351	13,363	20,685	8,303	0	0	0	0	28,988	0	
Total	45,365	16,287	20,775	8,303	0	0	0	0	29,078	0	
Federal-Aid	18,276	6,999	10,105	1,172	0	0	0	0	11,277	0	

Other funding source is Passenger Facility Charge (PFC) revenue. Federal funding includes \$15 million from American Recovery and Reinvestment Act (ARRA).



**PROJECT:** Runway Safety Area / Pavement Management Program Improvements at BWI Marshall

**DESCRIPTION:** This project consists of the design and construction of the Runway Safety Area (RSA) and Pavement Management Program (PMP) improvements, other Facility Airport Layout Plan (ALP) improvements, and airfield pavement reconstruction to meet Federal Aviation Administration (FAA) standards. Improvements will cover Runways 10-28, 15R-33L, 04-22 and 15L-33R, as well as, connecting taxiways, taxilanes, and adjacent deicing pads.

**PURPOSE & NEED SUMMARY STATEMENT:** FAA mandates compliance with Runway Safety Area standards by December 2015, in addition, FAR 14 CFR Part 139.305 requires MAA to keep airfield pavement free of cracks and surface variations that could impair directional control of air carrier aircraft. The proposed work will allow MAA to meet the RSA mandate and address the Pavement Condition Index ratings of fair or lower. This project will preserve existing airfield capacity by ensuring the continued long-term use of runways, aprons, taxiways and taxilanes located at the busiest areas of airfield operations and minimize the exposure of aircraft to FOD.

**SMART GROWTH STATUS:**  Project Not Location Specific or Not Subject to PFA Law

- Project Inside PFA
- Project Outside PFA
- PFA Status Yet to Be Determined
- Grandfathered
- Exception Will Be Required
- Exception Granted

**ASSOCIATED IMPROVEMENTS:**

Master Plan at BWI Marshall Airport -- Line 10  
 Airport Layout Plan Environmental Assessment at BWI Marshall Airport -- Line 11

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** This project provides for compliance with Public Law 109-115 and FAA Part 139 regulations. RSA improvements enhance safety by reducing the risk of aircraft damage and personal injury in the event of runway overruns. Part 139 pavement improvements and FAA standards will ensure airfield pavement is free of cracks and surface variations that could impair directional control of the air carrier aircraft.

**STATUS:** Master Plan and Airport Layout Plan Environmental Assessment under review by the FAA.

**SIGNIFICANT CHANGE FROM FY 2010 - 15 CTP:** Project moved from Development and Evaluation Program to Construction Program. Projected construction cost and schedule added.

**USAGE:** Accommodate projected annual passenger growth.

**OPERATING COST IMPACT:** Operating cost will be recovered through airport user fees.

POTENTIAL FUNDING SOURCE:		<input checked="" type="checkbox"/> SPECIAL		<input checked="" type="checkbox"/> FEDERAL		<input type="checkbox"/> GENERAL		<input checked="" type="checkbox"/> OTHER			
PHASE	TOTAL ESTIMATED COST (\$000)	EXPEND THRU 2010	CURRENT YEAR 2011	BUDGET YEAR 2012	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE	
					....2013....	....2014....	....2015....	....2016....			
Planning	0	0	0	0	0	0	0	0	0	0	
Engineering	35,160	421	10,241	11,249	6,331	4,697	1,871	350	34,739	0	
Right-of-way	1,000	0	0	69	431	0	500	0	1,000	0	
Construction	278,819	14	4,643	14,884	61,706	63,180	82,193	52,199	278,805	0	
<b>Total</b>	<b>314,979</b>	<b>435</b>	<b>14,884</b>	<b>26,202</b>	<b>68,468</b>	<b>67,877</b>	<b>84,564</b>	<b>52,549</b>	<b>314,544</b>	<b>0</b>	
Federal-Aid	65,614	0	2,266	5,128	16,245	13,708	16,666	11,601	65,614	0	

Other funding source is Passenger Facility Charge (PFC) revenue.

7701, 7702, 7703, 7704, 7705, 7706, 7707, 7708, 7709, 7710, 7711, 7712, 7713, 7714, 7715, 7717, 7719, 7720, 7721, 7722, 7723, 7724, 7725, 7726, 7728, 7729, 7730,



**PROJECT:** Comprehensive Roadway Signage, Phase II at BWI Marshall Airport

**DESCRIPTION:** This project is the final phase of the new Comprehensive Roadway Sign System for BWI that was initiated as part of the Comprehensive Landside Development Program. This project will make global changes to various access roadway signage including parking and cell phone lots; rental car facility; east and west bound on I-195; MD 170 and I-97; and the MARC/Amtrak Station.

**PURPOSE & NEED SUMMARY STATEMENT:** The signage improvements will establish consistency and clarification among signage that directs travelers to the terminal, parking, and rental car facilities.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**SMART GROWTH STATUS:**  Project Not Location Specific or Not Subject to PFA Law

- Project Inside PFA
- Project Outside PFA
- PFA Status Yet to Be Determined
- Grandfathered
- Exception Will Be Required
- Exception Granted

**ASSOCIATED IMPROVEMENTS:**

None.

**EXPLANATION:** This project promotes increased safety for airport patrons by standardizing and clarifying the signage that directs travelers around the airport campus.

**STATUS:** Project completed September 2010.

PHASE	TOTAL		PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2010	CURRENT YEAR 2011	BUDGET YEAR 2012	.....2013.....	.....2014.....		
Planning	0	0	0	0	0	0	0	0
Engineering	387	386	1	0	0	0	0	1
Right-of-way	0	0	0	0	0	0	0	0
Construction	1,720	1,519	201	0	0	0	0	201
<b>Total</b>	<b>2,107</b>	<b>1,905</b>	<b>202</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>202</b>
Federal-Aid	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2010 - 15 CTP:** The cost increase of \$0.1 million reflects actual expenditures.



**PROJECT:** Integrated Life-Safety and Security Systems at BWI Marshall Airport

**DESCRIPTION:** These projects provide for the replacement of numerous, disparate, end of life cycle facility monitoring, emergency response and security systems. The use of new technologies will allow the integration of Consolidated Dispatch Center (CDC) systems with Closed Circuit Television (CCTV) and Controlled Access Security (CASS) systems. Improvements will include replacement of the MODUCOM fire alert and fire alarm system, terminal-wide CCTV and CASS systems, automation of the dispatching system, monitoring/control workstations, access detection, and event monitoring.

**PURPOSE & NEED SUMMARY STATEMENT:** Federal Aviation Administration (FAA) and Transportation Security Administration (TSA) regulations require BWI Marshall to provide adequate safeguards to prevent unauthorized entry to secure areas, maintain event records, and meet standards for incident response.

**SMART GROWTH STATUS:**  Project Not Location Specific or Not Subject to PFA Law

- Project Inside PFA
- Project Outside PFA
- PFA Status Yet to Be Determined
- Grandfathered
- Exception Will Be Required
- Exception Granted

**ASSOCIATED IMPROVEMENTS:**  
None.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** Replacement of the aged security monitoring and dispatching systems improves compliance with FAA Part 139 and TSA security regulations. These modern security monitoring and response alert systems will enhance the safety and security of all airport users.

**STATUS:** Constuction to start January 2011.

PHASE	TOTAL ESTIMATED EXPEND		CURRENT YEAR	BUDGET YEAR	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	COST (\$000)	THRU 2010			2011	2012	.....2013.....	.....2014.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	4,239	3,416	823	0	0	0	0	0	823	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	42,329	140	17,509	14,699	9,981	0	0	0	42,189	0
Total	46,568	3,556	18,332	14,699	9,981	0	0	0	43,012	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

Other funding sources are Passenger Facility Charge (PFC) revenue and TSA grant. 7200, 7402, 7403, 7404

**SIGNIFICANT CHANGE FROM FY 2010 - 15 CTP:** Cost increase of \$11.2 million reflects acceptance of project bids, final scope of work, and the need for facility infrastructure improvements.

**USAGE:** Accommodate projected annual passenger growth.

**OPERATING COST IMPACT:** Operating cost will be recovered through airport user fees.



**PROJECT:** Hagerstown Airport Expansion

**DESCRIPTION:** This project was a multi-year project to expand Runway 09-27 at Hagerstown Regional Airport. The project lengthened the runway from 5,500 feet to 7,000 feet, and includes associated land acquisition, hold apron, stormwater management, roadway and bridge improvements to US 11.

**PURPOSE & NEED SUMMARY STATEMENT:** The Runway 09-27 improvements correct numerous non standard conditions, most importantly, the lack of adequate Runway Safety Area (RSA) beyond the ends of the pavement. Also, the former runway length limited the Airport in accommodating larger aircraft necessary to meet the growth in the region. The extension will better facilitate larger aircraft, as well as, avoid reduction of runway length as an alternative resolution of RSA issues.

**SMART GROWTH STATUS:**  Project Not Location Specific or Not Subject to PFA Law

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Project Inside PFA   | <input type="checkbox"/> Grandfathered              |
| <input type="checkbox"/> Project Outside PFA             | <input type="checkbox"/> Exception Will Be Required |
| <input type="checkbox"/> PFA Status Yet to Be Determined | <input type="checkbox"/> Exception Granted          |

**ASSOCIATED IMPROVEMENTS:**  
None.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- |   |   |
|---|---|
| <input type="checkbox"/> Quality of Service                           | <input checked="" type="checkbox"/> Safety & Security         |
| <input checked="" type="checkbox"/> System Preservation & Performance | <input checked="" type="checkbox"/> Environmental Stewardship |
| <input type="checkbox"/> Connectivity for Daily Life                  |   |

**EXPLANATION:** This completed project provides for compliance with Public Law 109-115 and FAA Part 139 regulations. RSA improvements enhance safety by reducing the risk of aircraft damage and personal injury in the event of runway overruns. Part 139 pavement improvements and FAA standards will ensure airfield pavement is free of cracks and surface variations that could impair directional control of the air carrier aircraft.

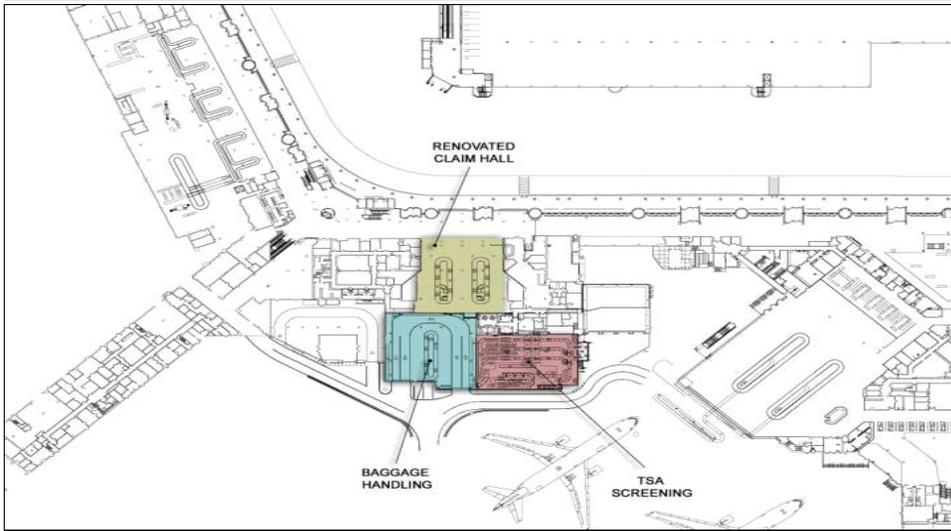
**STATUS:** Construction completed December 2007. Cashflow reflects continued payment commitment through 2014.

**SIGNIFICANT CHANGE FROM FY 2010 - 15 CTP:** Cost updated to reflect revisions to Federal grant schedule and State matching share.

**USAGE:** Approximately 15,000 annual passengers.

POTENTIAL FUNDING SOURCE:		<input checked="" type="checkbox"/> SPECIAL		<input type="checkbox"/> FEDERAL		<input type="checkbox"/> GENERAL		<input checked="" type="checkbox"/> OTHER			
PHASE	TOTAL		CURRENT YEAR	BUDGET YEAR	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE	
	ESTIMATED COST (\$000)	EXPEND THRU 2010			2011	2012	....2013....	....2014....			....2015....
Planning	0	0	0	0	0	0	0	0	0	0	0
Engineering	0	0	0	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0	0
Construction	59,018	50,984	4,879	1,056	1,056	1,043	0	0	8,034	0	0
Total	59,018	50,984	4,879	1,056	1,056	1,043	0	0	8,034	0	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0	0

The cost shown includes federal AIP funds which go directly to the County and are being shown as Other funds. Cost shown does not include Washington County contribution. MDOT contributing \$10.7 million to the project.



**PROJECT:** Concourse D/E Baggage Screening System and Baggage Claim Expansion at BWI Marshall Airport

**DESCRIPTION:** This project will reconfigure the existing baggage screening and baggage make-up system to an integrated baggage security and handling system. Improvements will include changes to the baggage system configuration, sort loop, curbside check-in, redundant feed for ticket counters, equipment, and expansion of the current building structure. Work will also include upgrade of baggage claim area.

**PURPOSE & NEED SUMMARY STATEMENT:** The ability to maintain 100 percent electronic baggage screening, while achieving the necessary capacity to meet projected airline departure flight schedules, is dependent upon BWI Marshall attaining the maximum utilization of bag screening technology. The project will also address baggage claim crowding.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**SMART GROWTH STATUS:**  Project Not Location Specific or Not Subject to PFA Law

- Project Inside PFA
- Project Outside PFA
- PFA Status Yet to Be Determined
- Grandfathered
- Exception Will Be Required
- Exception Granted

**ASSOCIATED IMPROVEMENTS:**  
None.

**EXPLANATION:** This project enhances compliance with Federal Aviation Administration Part 139 SIDA and safety regulations through modernization of baggage screening equipment. In addition, the improvements provide the ability to maintain 100 percent electronic baggage screening while achieving the necessary capacity to meet projected airline departure flight schedules and reduces congestion in the passenger bag claim areas.

**STATUS:** Open to use May 1, 2010.

POTENTIAL FUNDING SOURCE: <input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER											
PHASE	TOTAL				PROJECTED CASH REQUIREMENTS					SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2010	CURRENT YEAR 2011	BUDGET YEAR 2012	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY		
Planning	0	0	0	0	0	0	0	0	0	0	0
Engineering	3,124	3,120	4	0	0	0	0	0	0	4	0
Right-of-way	0	0	0	0	0	0	0	0	0	0	0
Construction	35,322	34,238	1,084	0	0	0	0	0	0	1,084	0
<b>Total</b>	<b>38,446</b>	<b>37,358</b>	<b>1,088</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,088</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2010 - 15 CTP:** Updated cashflow reflects warranty that extends into FY 2011. Cost decrease of \$0.5 million due to final project invoices.

**USAGE:** Accommodate projected annual passenger growth.

**OPERATING COST IMPACT:** Airlines are responsible for operating & maintenance costs.

Other funding source is Passenger Facility Charge (PFC) revenue and Transportation Security Administration (TSA) grant.  
1539



**PROJECT:** Concourse D/E Apron and Airfield Pavement Improvements at BWI Marshall Airport

**DESCRIPTION:** This project includes the reconstruction and overlay of multiple taxiways, replacement of airfield lighting and electrical duct bank, and the reconstruction of aircraft ramp areas between Concourses D & E. The work includes pavement removal and reconstruction, improvements to drainage structures, upgrades to deicing collection facilities, installation of centerline and edge lighting on taxiways, ramp lighting and electrical system improvements. The work will be accomplished in multiple phases to minimize impacts to airfield operations and maintain appropriate access for terminal gate usage.

**PURPOSE & NEED SUMMARY STATEMENT:** The project will enhance airfield safety and operations through reconstruction of pavement, drainage structures, and upgrade of airfield lighting to meet Federal Aviation Administration (FAA) standards. The areas identified for upgrades were determined through independent pavement analysis as required by the FAA.

**STATE GOALS:** Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**SMART GROWTH STATUS:**  Project Not Location Specific or Not Subject to PFA Law

- Project Inside PFA
- Project Outside PFA
- PFA Status Yet to Be Determined
- Grandfathered
- Exception Will Be Required
- Exception Granted

**ASSOCIATED IMPROVEMENTS:**

**EXPLANATION:** This project enhances compliance with FAA Part 139 regulations that require airfield pavement to be free cracks and surface variations that could impair directional control of air carrier aircraft. New drainage and deicing structures will improve runoff collection and recycling of chemicals used for inclement weather. Upgrade of the airfield lighting will improve the safety of operations.

**STATUS:** Airfield taxiway paving and Concourse D/E ramp reconstruction completed September 2008. Airfield lighting cable and drainage upgrades completed Summer 2010.

**SIGNIFICANT CHANGE FROM FY 2010 - 15 CTP:** Cost reduction of \$2.4 million represents contract alternates that were not exercised and actual expenditures. Updated cashflow reflects timing of construction close-out documents.

**USAGE:** Accommodate projected annual passenger growth.

**OPERATING COST IMPACT:** Operating cost will be recovered through airport user fees.

POTENTIAL FUNDING SOURCE:		<input type="checkbox"/> SPECIAL		<input checked="" type="checkbox"/> FEDERAL		<input type="checkbox"/> GENERAL		<input checked="" type="checkbox"/> OTHER			
PHASE	TOTAL ESTIMATED COST (\$000)	EXPEND THRU 2010	CURRENT YEAR 2011	BUDGET YEAR 2012	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE	
					.....2013.....	.....2014.....	.....2015.....	.....2016.....			
Planning	0	0	0	0	0	0	0	0	0	0	
Engineering	3,317	3,313	4	0	0	0	0	0	4	0	
Right-of-way	0	0	0	0	0	0	0	0	0	0	
Construction	62,747	62,428	319	0	0	0	0	0	319	0	
Total	66,064	65,741	323	0	0	0	0	0	323	0	
Federal-Aid	19,979	19,979	0	0	0	0	0	0	0	0	

Other funding source is Passenger Facility Charge (PFC) revenue.  
1351, 1469, 7011



**PROJECT:** Master Plan at BWI Marshall Airport

**DESCRIPTION:** Study to identify long-term (2030) projection, location and extent of BWI Marshall facility improvements, as required to meet future aviation demand and to identify Federal Aviation Administration (FAA) design standard deficiencies. Study will require in-depth evaluations of many factors, including future air service, runway and terminal capacities, environmental and community impact considerations. Study also collaborates with Anne Arundel County regarding land use compatibility in the airport vicinity.

**JUSTIFICATION:** To undertake a comprehensive analysis of BWI Marshall's facilities and infrastructure to determine what improvements are necessary to support air travel through 2030. The most recent BWI Master Plan was approved in 1987. Most projects envisioned in the 1987 Plan have been constructed. BWI Marshall and the aviation industry have changed significantly since the completion of the last Master Plan.

**SMART GROWTH STATUS:**  Project Not Location Specific or Not Subject to PFA Law

- Project Inside PFA
- Project Outside PFA
- PFA Status Yet to Be Determined
- Grandfathered
- Exception Will Be Required
- Exception Granted

**ASSOCIATED IMPROVEMENTS:**

Runway Safety Area/Pavement Management Program Improvements at BWI Marshall -- Line 4

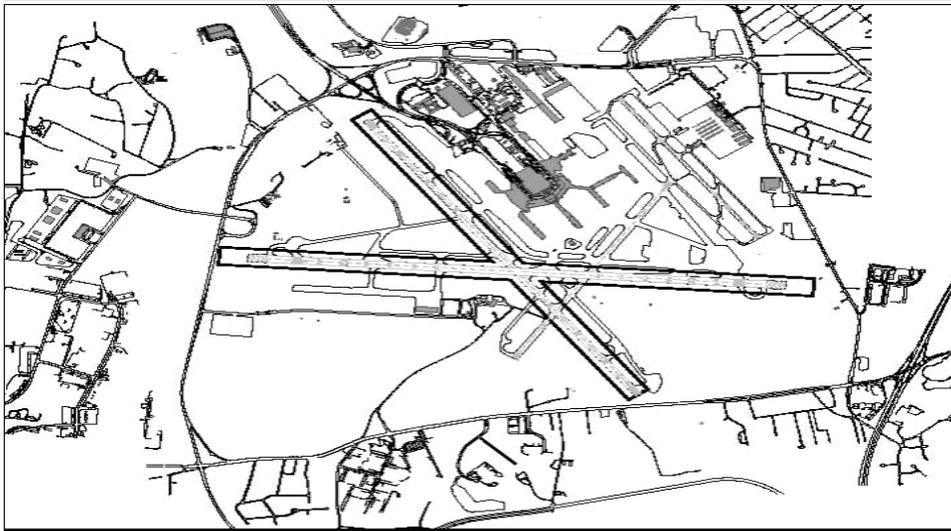
**STATUS:** Master Plan completed June 2010. Plan under review by the FAA.

**POTENTIAL FUNDING SOURCE:**  SPECIAL  FEDERAL  GENERAL  OTHER

PHASE	TOTAL				PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2010	CURRENT YEAR 2011	BUDGET YEAR 2012	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY		
Planning	6,802	6,602	200	0	0	0	0	0	200	0
Engineering	0	0	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0	0
Total	6,802	6,602	200	0	0	0	0	0	200	0
Federal-Aid	4,050	4,050	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2010 - 15 CTP:** Cost increase of \$0.1 represents actual expenditures. Adjusted cashflow reflects final grant closeout timing.

**USAGE:** Determine facility improvements needed to accommodate future aviation demand.



**PROJECT:** Interim Airport Layout Plan Environmental Assessment at BWI Marshall Airport

**DESCRIPTION:** This project provides for the study and design work necessary for the environmental impact assessment of all capital projects shown on the Airport Layout Plan (ALP) and Master Plan. Projects include: runway safety areas, airfield pavement, terminal and fuel farm improvements, perimeter roadway, midfield cargo extension, Northrup Grumman apron and hangar, airport maintenance buildings, and other ancillary facilities.

**JUSTIFICATION:** In accordance with Federal Aviation Administration Order 5050.4A, Airport Environmental Handbook, MAA must determine the environmental consequences of capital project development as proposed by the Airport Layout Plan.

**SMART GROWTH STATUS:**  Project Not Location Specific or Not Subject to PFA Law

- Project Inside PFA
- Project Outside PFA
- PFA Status Yet to Be Determined
- Grandfathered
- Exception Will Be Required
- Exception Granted

**ASSOCIATED IMPROVEMENTS:**

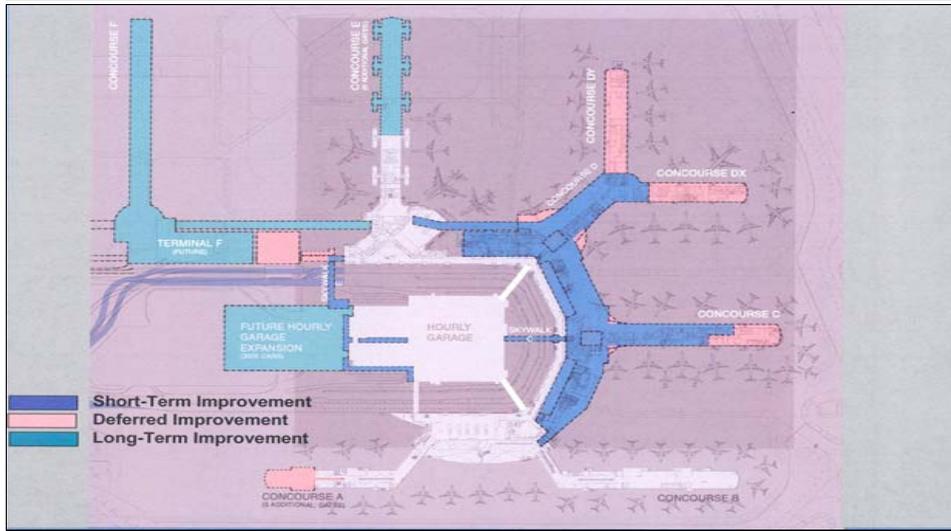
Runway Safety Area/Pavement Management Program Improvements at BWI Marshall -- Line 4

**STATUS:** Environmental assessment under revision to ensure evaluation of critical elements of the Master Plan, Runway Safety Area and Airfield Pavement Improvement Program.

**SIGNIFICANT CHANGE FROM FY 2010 - 15 CTP:** Cost increase of \$0.8 million reflects change in environmental assessment scope and cashflow change captures revised schedule.

POTENTIAL FUNDING SOURCE:										
<input checked="" type="checkbox"/> SPECIAL <input checked="" type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER										
PHASE	TOTAL				PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2010	CURRENT YEAR 2011	BUDGET YEAR 2012	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY		
Planning	810	675	135	0	0	0	0	0	135	0
Engineering	1,487	539	681	267	0	0	0	0	948	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0	0
Total	2,297	1,214	816	267	0	0	0	0	1,083	0
Federal-Aid	1,722	905	617	200	0	0	0	0	817	0

Other funding source is Passenger Facility Charge (PFC) revenue.  
1429, 1617, 7700



**PROJECT:** Terminal Modernization Program at BWI Marshall Airport

**DESCRIPTION:** This project will identify various terminal modernization alternatives for the older areas of the existing terminal building and address the feasibility and/or cost of each alternative, including potential impacts of new fire code life-safety/security requirements, passenger access, secure corridor connections, new skywalks and other facilities and/or services. Areas evaluated, that are progressing from conceptual design to design, include Concourses C, D, and E, and the related corridor connections, fire code compliance, check point improvements, as well as security and circulation/services enhancements.

**JUSTIFICATION:** BWI has experienced significant growth in passenger levels since development of the older concourses. The International and A/B Terminals provide sufficient passenger processing areas and accepted levels of customer service. These amenities need to be incorporated into the remainder of the terminal. Fire code life safety compliance and federally mandated security requirements are also expected to impact terminal space usage. Undertaking planning and conceptual design at this time will provide MAA with the necessary options to be responsive to passenger, airline and air service needs.

**SMART GROWTH STATUS:**  Project Not Location Specific or Not Subject to PFA Law

- Project Inside PFA
- Project Outside PFA
- PFA Status Yet to Be Determined
- Grandfathered
- Exception Will Be Required
- Exception Granted

**ASSOCIATED IMPROVEMENTS:**  
None.

**STATUS:** Terminal Modernization Plan conceptual design is complete. Selection of design team is underway.

**SIGNIFICANT CHANGE FROM FY 2010 - 15 CTP:** Cost decrease of \$.02 million reflects approved PFC application design budget.

POTENTIAL FUNDING SOURCE:		<input checked="" type="checkbox"/> SPECIAL		<input type="checkbox"/> FEDERAL		<input type="checkbox"/> GENERAL		<input checked="" type="checkbox"/> OTHER		
PHASE	TOTAL ESTIMATED COST (\$000)	EXPEND THRU 2010	CURRENT YEAR 2011	BUDGET YEAR 2012	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
					.....2013.....	.....2014.....	.....2015.....	.....2016.....		
Planning	1,530	1,477	53	0	0	0	0	0	53	0
Engineering	10,000	0	0	4,970	5,030	0	0	0	10,000	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	2	2	0	0	0	0	0	0	0	0
<b>Total</b>	<b>11,532</b>	<b>1,479</b>	<b>53</b>	<b>4,970</b>	<b>5,030</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,053</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0

Other funding source is Passenger Facility Charge (PFC) revenue.  
8101, 9010, 9886

**SYSTEM PRESERVATION MINOR PROJECTS PROGRAM**

**MARYLAND AVIATION ADMINISTRATION - LINE 13**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
	<u>FY 2011 and Prior</u>		
	<u>Airport Technology</u>		
1	IT Equipment (1456)	8,710	Ongoing
2	IT Services (1455)	213	Ongoing
	<u>Airside Development</u>		
3	Comprehensive Paving FY 2008 (8007)	3,518	Ongoing
4	Taxiway E Reconfiguration (8203)	139	Complete
5	Deicing Fluid Storage Tank #4 (9009)	1,067	Complete
6	Remote Monitoring 15R Triturator Building (9310)	103	Complete
7	Deicing Fluid Storage #1 and 2 Repair plus General Aviation (9004)	48	Complete
8	BWI Obstruction Survey and Removal (1313)	42	Complete
	<u>Annual</u>		
9	Terminal Spaceframe Inspection (7000)	5	Underway
10	Bridge Inspection (SHA Consultant) (1023)	648	Ongoing
11	Real Estate Administrative Services (7019)	317	Ongoing
12	Real Estate Property Services (7018)	207	Ongoing
13	Retaining Wall Inspection (8001)	100	Ongoing
14	Parking Garage Structure Inspection (1463)	135	Ongoing
15	Tile Inspection (9429)	59	Ongoing
	<u>Baltimore/Washington</u>		
16	Comp Environmental Planning (1460)	2,802	Complete
17	Comprehensive MBE/DBE Program Monitoring Services (1272)	359	Complete
18	Comp MBE/DBE Program Monitoring Sevices (1902)	200	Spring, 2011
19	Wildlife Management Plan (1181)	1,015	Ongoing

**SYSTEM PRESERVATION MINOR PROJECTS PROGRAM**

**MARYLAND AVIATION ADMINISTRATION - LINE 13 (cont'd)**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
	<b><u>FY 2011 and Prior (cont'd)</u></b>		
	<b><u>Baltimore/Washington (cont'd)</u></b>		
20	Fire Protection Engineer Services (1173)	153	Ongoing
21	Comp. Architectural Engineering Design Services (1324)	4,602	Ongoing
22	Comprehensive Airport Facilities Planning (1459)	5,506	Ongoing
23	Comprehensive Aviation Planning Services (1113)	2,193	Ongoing
24	Comprehensive Intermodal & Terminal Planning Services (1114)	2,815	Ongoing
25	Acoustical Services Contract (1485)	700	Ongoing
26	Comp Arch Eng Design Services (7015)	2,917	Ongoing
27	Comp Construction Mgmt & Inspection (7016)	2,574	Ongoing
28	OECM - AEIS Mapping Validation (1723)	1,756	Ongoing
29	Pavement Management BWI/MTN (1389)	1,926	Ongoing
30	Comprehensive AIT Services (1291)	288	Ongoing
31	Building Permits and Inspections (1390)	1,197	Ongoing
32	Comp Airport Planning Services (1901)	750	Underway
33	Comp Construction Mgmt and Inspection Services (8016)	400	Underway
34	Comp Environmental Planning (1900)	350	Underway
	<b><u>Consolidated Rental Car Facility</u></b>		
35	CRCF CSB Courtyard Improvements (8304)	1,985	Complete
	<b><u>Environmental Compliance</u></b>		
36	Comp Environmental Compliance Services (1461)	9,072	Complete
37	Erosion & Stormwater Management Improvements (8103)	1,623	Underway
38	Comp Environmental Compliance (9407)	1,473	Underway
39	Comp Stormwater Facilities (9006)	200	Spring, 2011
40	Terminal Environmental Mitigation (8105)	194	Ongoing

**SYSTEM PRESERVATION MINOR PROJECTS PROGRAM**

**MARYLAND AVIATION ADMINISTRATION - LINE 13 (cont'd)**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
<b><u>FY 2011 and Prior (cont'd)</u></b>			
<b><u>Equipment</u></b>			
41	Portable Emergency Power (9315)	800	Spring, 2011
42	Portable Snowmelter Replacement (2 - New) (9401)	1,700	Spring, 2011
<b><u>Information Technology CTIPP</u></b>			
43	External IT Infrastructure Upgrades (7401)	58	Complete
<b><u>Landside Development</u></b>			
44	Bridge/Ramp/Jenne Joint Repairs - Hourly Garage (8004)	1,644	Complete
45	Inbound I-195 at MD 170 Roadway Improvements (9324)	969	Complete
46	Inbound Roadway Lighting Cable Repair (9413)	7	Complete
47	Widen Airport Exit Roadway to I-195 Westbound Design (7009)	913	Complete
48	Access Roadway Traffic Improvements (9321)	91	Complete
49	ADA Pier E Parking Lot Ramp Grade (9419)	131	Underway
50	ADA Pier E to Hrly Garage Ramp Grade (9417)	33	Underway
51	ADA Signage Remediation (9416)	49	Underway
52	Amtrak Station Design Planning (9422)	200	Underway
53	Construction Material Storage Building (9404)	50	Underway
<b><u>Martin State</u></b>			
54	MTN Taxilane K Pavement (9299)	1,493	Complete
55	MTN Taxiway F Extension (9297)	161	Complete
56	MTN Taxilane Sealcoat (9421)	252	Complete
57	MTN Water Supply for Fire System (1433)	3,210	Underway

**SYSTEM PRESERVATION MINOR PROJECTS PROGRAM**

**MARYLAND AVIATION ADMINISTRATION - LINE 13 (cont'd)**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
<b><u>FY 2011 and Prior (cont'd)</u></b>			
<b><u>Regional Aviation</u></b>			
58	Aid to Public/Private Airports (MAPA-90%) (1106)	1,000	Underway
59	Regional Aviation Program (1107)	350	Underway
60	Statewide Aviation Grants (AIP-5%) (1105)	750	Underway
<b><u>Security</u></b>			
61	Baggage Security Cages (9205)	1,230	Complete
62	BWI Perimeter Gate G Modification (9207)	2,405	Complete
63	Interim CCTV Security Improvements (9209)	159	Complete
64	Security Initiatives (1298)	4,406	Ongoing
65	TSA Baggage Screening Improvements (9000)	3,409	Spring, 2011
<b><u>Terminal Development</u></b>			
66	County Sewer and Water Capital Improvements (1028)	8,367	Ongoing
67	Baggage Handling System (BHS) Upgrades (7001)	3,972	Complete
68	Terminal Building Interior / Exterior Modifications (7014)	2,824	Complete
69	Terminal Floor Carpet Replacement (9308)	442	Complete
70	Pier C PBX HVAC Replacement (7406)	833	Complete
71	Security Division Office Expansion (9204)	392	Complete
72	Terminal Space Frame Improvements (9307)	210	Complete
73	Loading Bridge Metering (9318)	795	Complete
74	MAA Terminal Offices (9500)	2,132	Complete
75	Pier D to E Passenger Corridor Improvements (9414)	556	Complete
76	Sanitary Sewer Upgrade Phase 3 (9313)	206	Complete
77	Terminal Office Relocation Phase 2 (9011)	459	Complete
78	Terminal Improvement Project (7017)	8,834	Underway
79	Terminal Interior / Exterior Modifications (8014)	659	Underway

**SYSTEM PRESERVATION MINOR PROJECTS PROGRAM**

**MARYLAND AVIATION ADMINISTRATION - LINE 13 (cont'd)**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
<b><u>FY 2011 and Prior (cont'd)</u></b>			
<b><u>Terminal Development (cont'd)</u></b>			
80	ADA Restroom Access Study (9418)	100	Underway
81	Energy Performance Projects (9430)	1,500	Underway
82	Fixed Emergency Backup Systems Design (9312)	30	Underway
83	Pier C Gravity Sewer Main Improvements (8305)	358	Underway
84	VALE Solar Funding Evaluation (9424)	20	Underway
85	Facility Management Program (7600)	199	Ongoing
86	Utilities Connection (7020)	31	Ongoing
87	Terminal Leasehold Modifications (7500)	576	Ongoing
88	Pier C Cooling Tower Replacement (9403)	71	Spring, 2011
<b><u>FY 2012</u></b>			
<b><u>Airport Technology</u></b>			
89	Permanent Noise Monitoring System Replacement (7405)	1,578	Fall, 2011
<b><u>Airside Development</u></b>			
90	Airfield Marking & Signage Rev.-Change to R/W Designations (7002)	15	Complete
91	Comprehensive Paving FY 2012 (9008)	1,000	Summer, 2011
<b><u>Annual</u></b>			
92	Comprehensive Regional Air Passenger Survey (1486)	100	Summer, 2011
<b><u>Baltimore/Washington</u></b>			
93	BWI / MTN Environmental Documents (9003)	1,500	Summer, 2011

**SYSTEM PRESERVATION MINOR PROJECTS PROGRAM**

**MARYLAND AVIATION ADMINISTRATION - LINE 13 (cont'd)**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
<b><u>FY 2012 (cont'd)</u></b>			
<b><u>Landside Development</u></b>			
94	Hourly Garage Animal Relief Area & Tunnel Leakage Design (9322)	114	Complete
95	Hourly Garage Inspection Improvements (9415)	2,300	Summer, 2011
<b><u>Martin State</u></b>			
96	MTN Additional Storage Tanks in Fuel Farm - Design (9420)	10	Summer, 2011
<b><u>PMP Airfield Improvement</u></b>			
97	PMP Comprehensive Paving (7748)	6,757	Spring, 2012
<b><u>Regional Aviation</u></b>			
98	Aid to Public/Private Airports (MAPA-90%) (1106)	1,250	Summer, 2011
99	Regional Aviation Program (1107)	600	Summer, 2011
100	Statewide Aviation Grants (AIP-5%) (1105)	1,000	Summer, 2011
<b><u>Terminal Development</u></b>			
101	Painting Terminal Exterior - Airside (7301)	130	Summer, 2011
102	Terminal Office Relocation Phase 3 (9013)	70	Fall, 2011