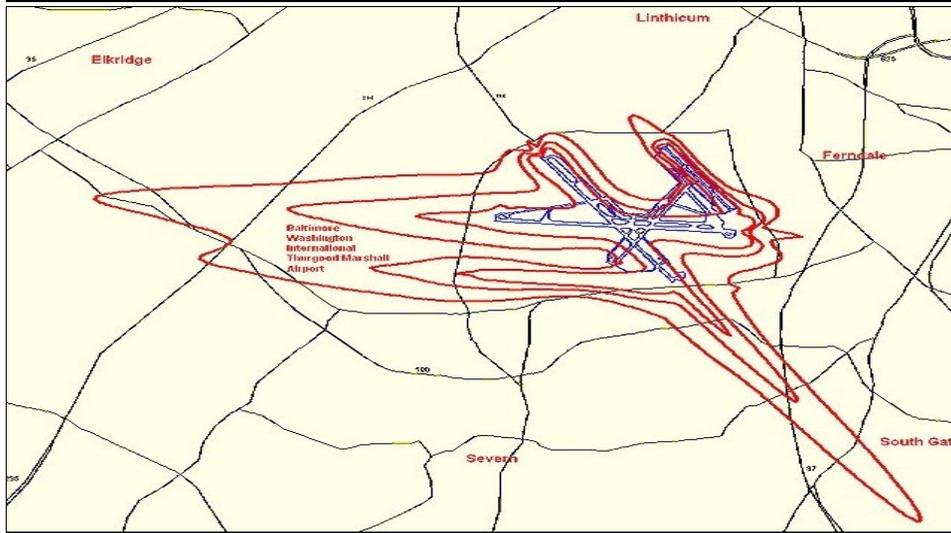


**MARYLAND AVIATION ADMINISTRATION**

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

	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>SIX-YEAR TOTAL</u>
<b><u>Construction Program</u></b>							
Major Projects	61.1	36.1	19.1	10.0	2.0	0.9	129.2
System Preservation Minor Projects	21.6	25.2	106.2	166.7	134.2	63.1	516.9
<b><u>Development &amp; Evaluation Program</u></b>	<u>2.1</u>	<u>11.5</u>	<u>12.2</u>	<u>0.5</u>	<u>0.5</u>	<u>-</u>	<u>26.8</u>
<b>SUBTOTAL</b>	84.8	72.8	137.5	177.2	136.7	64.0	672.9
<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>	90.9	78.9	143.6	183.3	142.8	70.1	709.5
<b>Special Funds</b>	20.9	20.0	20.0	54.1	53.5	65.8	234.3
<b>Federal Funds</b>	18.0	5.7	29.9	47.3	37.1	4.3	142.2
<b>Other Funding *</b>	52.0	53.2	93.7	81.9	52.2	-	333.0
<b><u>Other Funding Breakdown*</u></b>							
TSAOTA	12.3	10.3	0.5	-	-	-	23.1
RAA	6.0	4.0	2.0	1.0	1.0	-	14.0
PFC	33.2	37.7	40.2	24.5	15.7	-	151.2
Private	-	-	50.9	56.5	35.5	-	142.9
CFC	<u>0.6</u>	<u>1.3</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>1.9</u>
	52.1	53.2	93.7	81.9	52.2	-	333.1



**STATUS:** MAA has acquired 250 properties through FY 2009.

**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.

**JUSTIFICATION:** 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:**

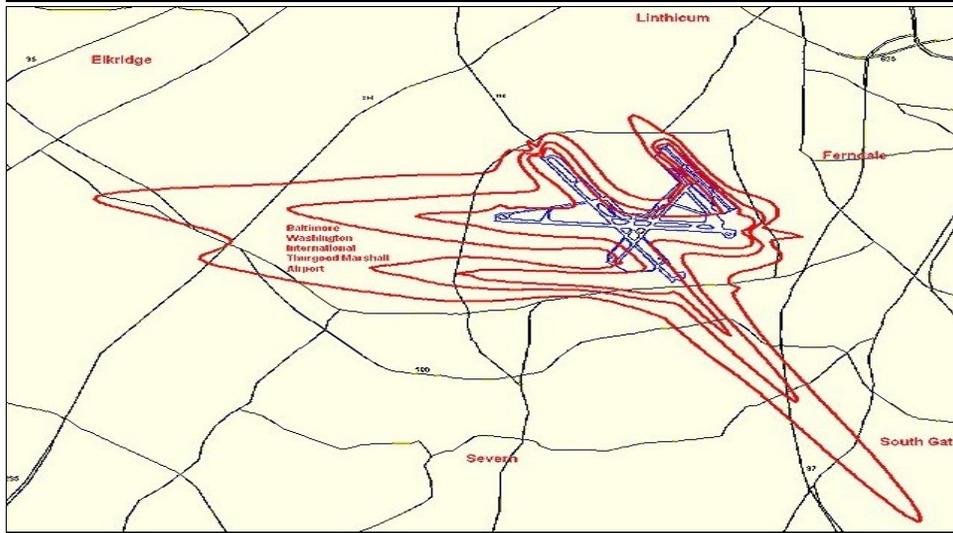
- Project Not Location Specific or Location Not Determined
- Project Within PFA
- Project Outside PFA; Subject to Exception
- Grandfathered
- Exception Approved by BPW/MDOT

**ASSOCIATED IMPROVEMENTS:**

Homeowner Assistance Program -- Line 2

**SIGNIFICANT CHANGE FROM FY 2009 - 14 CTP:** The \$1.6 million increase will support the noise escrow account.

POTENTIAL FUNDING SOURCE:		<input checked="" type="checkbox"/> SPECIAL		<input checked="" type="checkbox"/> FEDERAL		<input type="checkbox"/> GENERAL		<input type="checkbox"/> OTHER		
PHASE	ESTIMATED COST (\$000)	EXPEND THRU 2009	CURRENT YEAR 2010	BUDGET YEAR 2011	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
					.....2012.....	.....2013.....	.....2014.....	.....2015.....		
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



**STATUS:** MAA has participated in the soundproofing of 670 properties and sales assistance for 113 homes through FY 2009.

**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.

**JUSTIFICATION:** 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.

**SMART GROWTH STATUS:**

- Project Not Location Specific or Location Not Determined
- Project Within PFA
- Grandfathered
- Project Outside PFA; Subject to Exception
- Exception Approved by BPW/MDOT

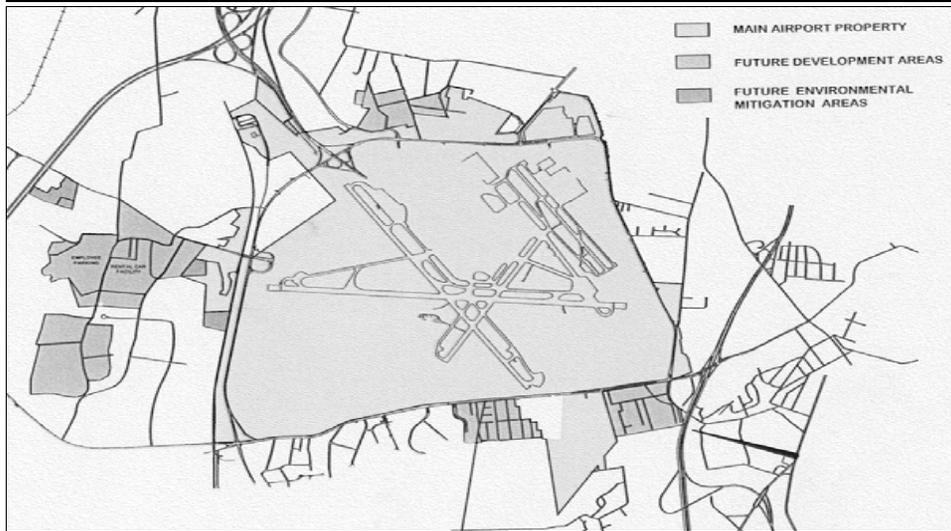
**ASSOCIATED IMPROVEMENTS:**

Noise Zone Land Acquisition Program -- Line 1

**SIGNIFICANT CHANGE FROM FY 2009 - 14 CTP:** The cashflow reflects the addition of FY 2015.

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 2009	CURRENT YEAR 2010	BUDGET YEAR 2011	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
					.....2012.....	.....2013.....	.....2014.....	.....2015.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	460	441	3	3	3	3	3	4	19	0
Right-of-way	27,271	22,360	231	936	936	936	936	936	4,911	0
Construction	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>27,731</b>	<b>22,801</b>	<b>234</b>	<b>939</b>	<b>939</b>	<b>939</b>	<b>939</b>	<b>940</b>	<b>4,930</b>	<b>0</b>
Federal-Aid	15,272	11,372	0	780	780	780	780	780	3,900	0

PROJECT PHASE	FFY	FUND CATEGORY	FEDERAL FUND AMOUNT
RW	2010	AIP	780
RW	2011	AIP	780
RW	2012	AIP	780
RW	2013	AIP	780
RW	2014	AIP	780



**STATUS:** On hold.

**PROJECT:** Protective Land Acquisition Program

**DESCRIPTION:** This program provides for the purchase of property in the immediate vicinity of BWI Marshall and/or Martin State (MTN) airports to ensure its availability in future years for potential aviation purposes.

**JUSTIFICATION:** This multi-year program provides the opportunity to protect property for future airport-related facilities, environmental requirements, and to ensure compatible land-use around the airports.

**SMART GROWTH STATUS:**

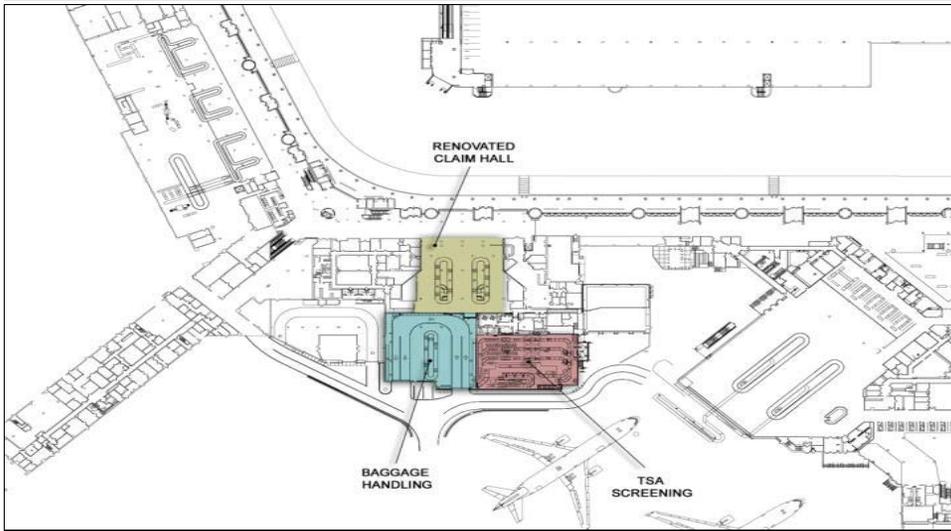
- Project Not Location Specific or Location Not Determined
- Project Within PFA
- Project Outside PFA; Subject to Exception
- Grandfathered
- Exception Approved by BPW/MDOT

**ASSOCIATED IMPROVEMENTS:**

None.

**SIGNIFICANT CHANGE FROM FY 2009 - 14 CTP:** The \$1.0 million cost decrease reflects program cost containment.

POTENTIAL FUNDING SOURCE:											
<input checked="" type="checkbox"/> SPECIAL <input 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 2009			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	12,211	12,211	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0	0	0
Total	12,211	12,211	0	0	0	0	0	0	0	0	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0	0



**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.

**JUSTIFICATION:** 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.

**SMART GROWTH STATUS:**

- Project Not Location Specific or Location Not Determined
- Project Within PFA
- Grandfathered
- Project Outside PFA; Subject to Exception
- Exception Approved by BPW/MDOT

**ASSOCIATED IMPROVEMENTS:**

None.

**STATUS:** Construction underway. Completion Spring 2010.

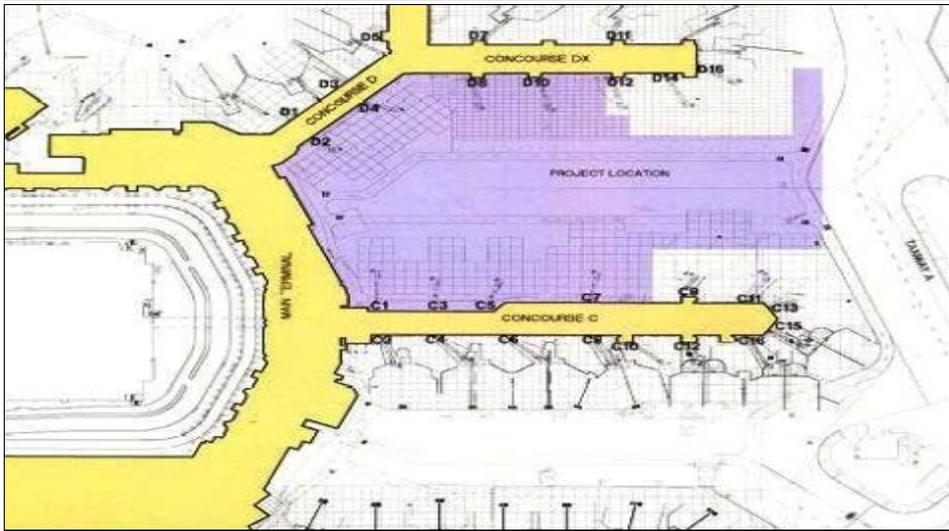
**SIGNIFICANT CHANGE FROM FY 2009 - 14 CTP:** Updated cashflows reflect latest project expenditures.

POTENTIAL FUNDING SOURCE:		<input type="checkbox"/> SPECIAL		<input type="checkbox"/> FEDERAL		<input type="checkbox"/> GENERAL		<input checked="" type="checkbox"/> OTHER			
PHASE	TOTAL ESTIMATED COST (\$000)	EXPEND THRU 2009	CURRENT YEAR 2010	BUDGET YEAR 2011	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE	
					....2012....	....2013....	....2014....	....2015....			
Planning	0	0	0	0	0	0	0	0	0	0	
Engineering	4,240	2,840	1,400	0	0	0	0	0	1,400	0	
Right-of-way	0	0	0	0	0	0	0	0	0	0	
Construction	34,763	19,026	15,737	0	0	0	0	0	15,737	0	
<b>Total</b>	<b>39,003</b>	<b>21,866</b>	<b>17,137</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>17,137</b>	<b>0</b>	
Federal-Aid	0	0	0	0	0	0	0	0	0	0	

**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



**STATUS:** Construction underway.

**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.

**JUSTIFICATION:** 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.

**SMART GROWTH STATUS:**

- Project Not Location Specific or Location Not Determined
- Project Within PFA
- Grandfathered
- Project Outside PFA; Subject to Exception
- Exception Approved by BPW/MDOT

**ASSOCIATED IMPROVEMENTS:**

Concourse D/E Apron and Airfield Pavement Improvements at BWI Marshall Airport -- Line 6

**SIGNIFICANT CHANGE FROM FY 2009 - 14 CTP:** Formerly part of Airfield Pavement Improvement Program. The \$14.3 million decrease reflects actual bid compared to engineering estimate. Project advanced with \$15.0 million of American Recovery and Reinvestment Act funds for construction.

PHASE	TOTAL				PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX	BALANCE
	ESTIMATED COST (\$000)	EXPEND THRU 2009	CURRENT YEAR 2010	BUDGET YEAR 2011	.....2012.....	.....2013.....	.....2014.....	.....2015.....	YEAR TOTAL	TO COMPLETE
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	2,550	2,257	293	0	0	0	0	0	293	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	40,779	18	22,455	18,306	0	0	0	0	40,761	0
<b>Total</b>	<b>43,329</b>	<b>2,275</b>	<b>22,748</b>	<b>18,306</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>41,054</b>	<b>0</b>
Federal-Aid	18,276	0	15,000	3,276	0	0	0	0	18,276	0

Other funding source is Passenger Facility Charge (PFC) revenue.  
7013

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

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



**STATUS:** Airfield taxiway paving and Concourse D/E ramp reconstruction complete September 2008. Airfield lighting cable and drainage upgrades to be complete Spring 2010.

**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.

**JUSTIFICATION:** 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.

**SMART GROWTH STATUS:**

- Project Not Location Specific or Location Not Determined
- Project Within PFA
- Project Outside PFA; Subject to Exception
- Grandfathered
- Exception Approved by BPW/MDOT

**ASSOCIATED IMPROVEMENTS:**

Concourse C/D Apron Reconstruction at BWI Marshall Airport -- Line 5

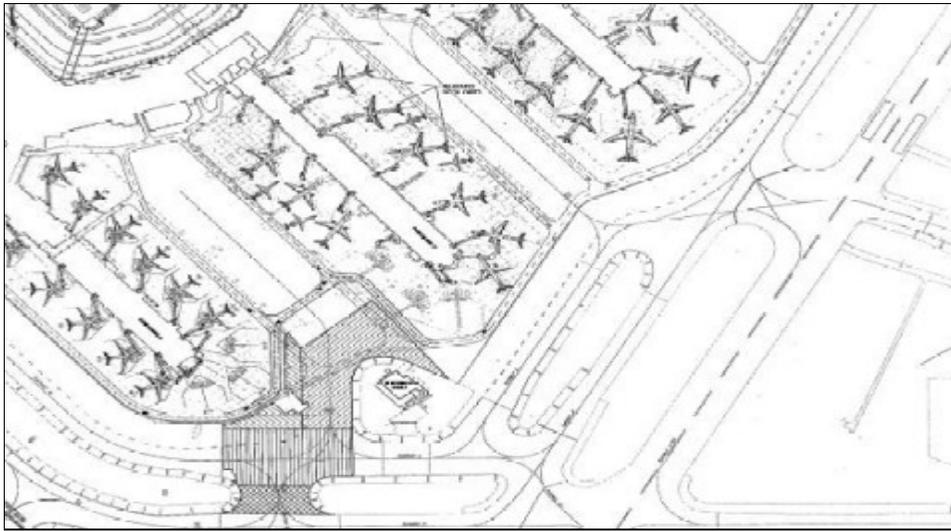
**SIGNIFICANT CHANGE FROM FY 2009 - 14 CTP:** The Concourse C/D Apron reconstruction moved into Line 5. Airfield Lighting and Cable replacement added from System Preservation Program. Cost increase of \$0.8 million reflects airfield security cost.

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 2009	CURRENT YEAR 2010	BUDGET YEAR 2011	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE	
					.....2012.....	.....2013.....	.....2014.....	.....2015.....			
Planning	0	0	0	0	0	0	0	0	0	0	
Engineering	3,239	3,239	0	0	0	0	0	0	0	0	
Right-of-way	0	0	0	0	0	0	0	0	0	0	
Construction	65,184	58,805	6,379	0	0	0	0	0	6,379	0	
<b>Total</b>	<b>68,423</b>	<b>62,044</b>	<b>6,379</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,379</b>	<b>0</b>	
Federal-Aid	19,979	19,979	0	0	0	0	0	0	0	0	

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

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

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



**STATUS:** Third phase of construction complete December 2009. First two phases completed September 2006.

**PROJECT:** Concourse B/C Apron Reconstruction at BWI Marshall Airport

**DESCRIPTION:** This project consists of the reconstruction of the aircraft ramp area between Concourses B and C. The work includes pavement removal and reconstruction, improvements to drainage structures, and ramp lighting. The work will be accomplished in multiple phases to minimize impacts to airfield operations and maintain appropriate access for terminal gate usage.

**JUSTIFICATION:** 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 indentified for upgrades were determined through independent pavement analysis as required by the FAA.

**SMART GROWTH STATUS:**

- Project Not Location Specific or Location Not Determined
- Project Within PFA
- Grandfathered
- Project Outside PFA; Subject to Exception
- Exception Approved by BPW/MDOT

**ASSOCIATED IMPROVEMENTS:**

None.

**SIGNIFICANT CHANGE FROM FY 2009 - 14 CTP:** Addition of initial project phases from System Preservation Program. Decrease of \$5.7 million due to actual bids compared to the engineering estimate for the current section.

<u>POTENTIAL FUNDING SOURCE:</u>		<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 2009	CURRENT YEAR 2010	BUDGET YEAR 2011	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE	
					.....2012.....	.....2013.....	.....2014.....	.....2015.....			
Planning	0	0	0	0	0	0	0	0	0	0	
Engineering	1,821	1,768	53	0	0	0	0	0	53	0	
Right-of-way	0	0	0	0	0	0	0	0	0	0	
Construction	20,565	16,122	4,443	0	0	0	0	0	4,443	0	
Total	22,386	17,890	4,496	0	0	0	0	0	4,496	0	
Federal-Aid	9,846	9,846	0	0	0	0	0	0	0	0	

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

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

Other funding source is Passenger Facility Charge (PFC) revenue.  
1510, 1610, 1710



**STATUS:** Construction underway.

**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.

**JUSTIFICATION:** The signage improvements will establish consistency and clarification among signage that directs travelers to the terminal, parking, and rental car facilities.

**SMART GROWTH STATUS:**

- Project Not Location Specific or Location Not Determined
- Project Within PFA
- Grandfathered
- Project Outside PFA; Subject to Exception
- Exception Approved by BPW/MDOT

**ASSOCIATED IMPROVEMENTS:**

None.

**SIGNIFICANT CHANGE FROM FY 2009 - 14 CTP:** The \$1.8 million decrease reflects actual bids for project. Cashflow adjusted for fabrication schedule.

POTENTIAL FUNDING SOURCE:		<input checked="" type="checkbox"/> SPECIAL		<input 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 2009			2010	2011	.....2012.....	.....2013.....			.....2014.....
Planning	0	0	0	0	0	0	0	0	0	0	0
Engineering	377	377	0	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0	0
Construction	1,641	42	773	826	0	0	0	0	1,599	0	0
Total	2,018	419	773	826	0	0	0	0	1,599	0	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0	0



**STATUS:** Design underway.

**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.

**JUSTIFICATION:** Federal Aviation Administration and Transportation Security Administration 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 Location Not Determined
- Project Within PFA
- Grandfathered
- Project Outside PFA; Subject to Exception
- Exception Approved by BPW/MDOT

**ASSOCIATED IMPROVEMENTS:**

None.

**SIGNIFICANT CHANGE FROM FY 2009 - 14 CTP:** Project added to Construction Program from System Preservation Minor Projects Program.

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 2009	CURRENT YEAR 2010	BUDGET YEAR 2011	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE	
					.....2012.....	.....2013.....	.....2014.....	.....2015.....			
Planning	0	0	0	0	0	0	0	0	0	0	
Engineering	4,113	1,502	2,611	0	0	0	0	0	2,611	0	
Right-of-way	0	0	0	0	0	0	0	0	0	0	
Construction	31,244	31	0	10,288	12,909	8,016	0	0	31,213	0	
<b>Total</b>	<b>35,357</b>	<b>1,533</b>	<b>2,611</b>	<b>10,288</b>	<b>12,909</b>	<b>8,016</b>	<b>0</b>	<b>0</b>	<b>33,824</b>	<b>0</b>	
Federal-Aid	0	0	0	0	0	0	0	0	0	0	

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

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

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



**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.

**JUSTIFICATION:** 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 Location Not Determined
- Project Within PFA  Project Outside PFA; Subject to Exception
- Grandfathered  Exception Approved by BPW/MDOT

**ASSOCIATED IMPROVEMENTS:**

None.

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

**SIGNIFICANT CHANGE FROM FY 2009 - 14 CTP:** None.

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 2009	CURRENT YEAR 2010	BUDGET YEAR 2011	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
					.....2012.....	.....2013.....	.....2014.....	.....2015.....		
Planning	0	0	0	0	0	0	0	0	0	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	59,194	44,766	6,202	4,060	2,062	1,062	1,042	0	14,428	0
Total	59,194	44,766	6,202	4,060	2,062	1,062	1,042	0	14,428	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

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

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.



**STATUS:** Underway.

**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 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 Location Not Determined
- Project Within PFA
- Project Outside PFA; Subject to Exception
- Grandfathered
- Exception Approved by BPW/MDOT

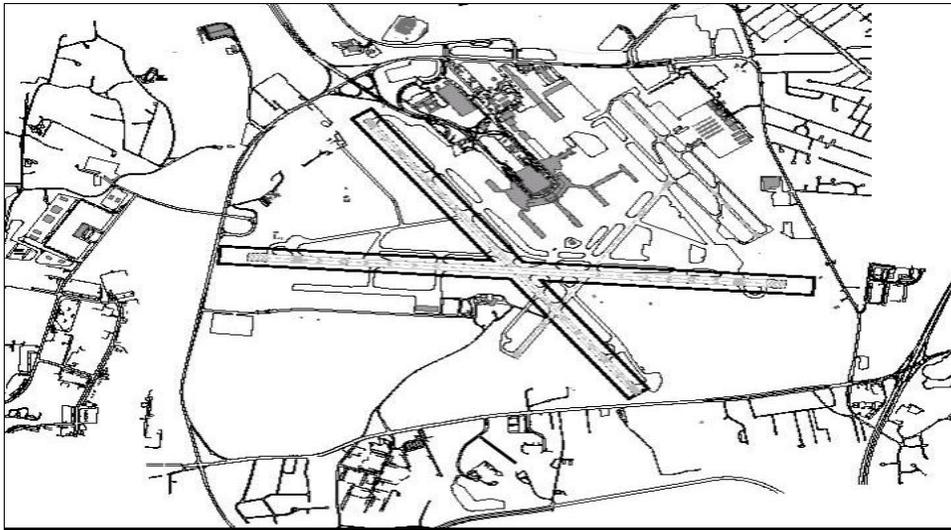
**ASSOCIATED IMPROVEMENTS:**

Airfield Pavement Area Improvements Design at BWI Marshall Airport -- Line 13

**SIGNIFICANT CHANGE FROM FY 2009 - 14 CTP:** Updated cashflows reflect latest project schedule. Reduction of \$0.1 million represents actual expenditures.

POTENTIAL FUNDING SOURCE:										
<input checked="" type="checkbox"/> SPECIAL <input checked="" type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input type="checkbox"/> OTHER										
PHASE	ESTIMATED COST (\$000)	EXPEND THRU 2009	CURRENT YEAR 2010	BUDGET YEAR 2011	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
					.....2012.....	.....2013.....	.....2014.....	.....2015.....		
Planning	6,732	5,802	930	0	0	0	0	0	930	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
<b>Total</b>	<b>6,732</b>	<b>5,802</b>	<b>930</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>930</b>	<b>0</b>
Federal-Aid	4,200	3,511	689	0	0	0	0	0	689	0

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



**STATUS:** Underway.

**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 current Airport Layout Plan (ALP). 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:**

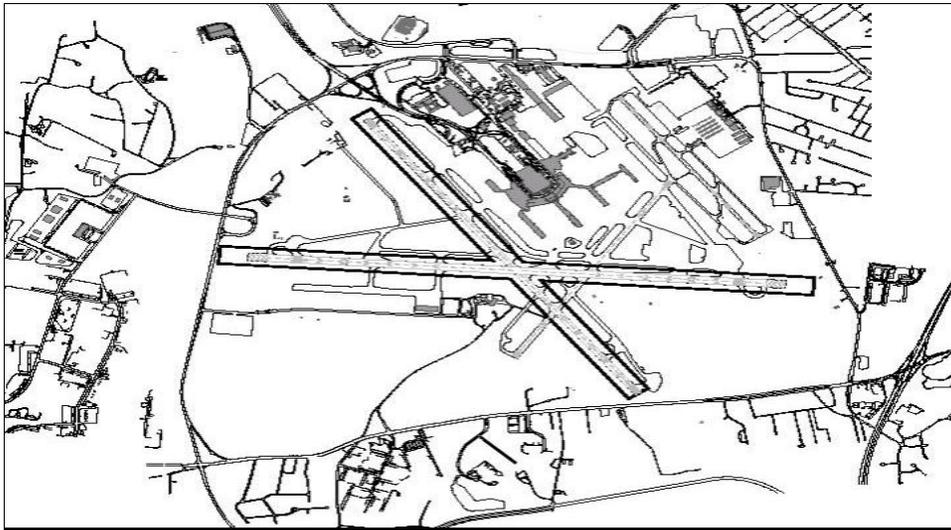
- Project Not Location Specific or Location Not Determined
- Project Within PFA
- Project Outside PFA; Subject to Exception
- Grandfathered
- Exception Approved by BPW/MDOT

**ASSOCIATED IMPROVEMENTS:**

Airfield Pavement Area Improvements Design at BWI Marshall Airport -- Line 13

**SIGNIFICANT CHANGE FROM FY 2009 - 14 CTP:** Cost increase of \$0.7 million due to addition of Airfield Pavements Improvements Design work that represented design support for the ALP environmental assessment.

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 2009	CURRENT YEAR 2010	BUDGET YEAR 2011	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE	
					.....2012.....	.....2013.....	.....2014.....	.....2015.....			
Planning	810	491	319	0	0	0	0	0	319	0	
Engineering	703	332	371	0	0	0	0	0	371	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	
<b>Total</b>	<b>1,513</b>	<b>823</b>	<b>690</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>690</b>	<b>0</b>	
Federal-Aid	1,122	612	510	0	0	0	0	0	510	0	



**STATUS:** Preliminary FAA reimbursable agreement established. System Preservation Program reflects construction reserve beginning in FY 2012 pending outcome of ALP Environmental Assessment and Master Plan update.

**SIGNIFICANT CHANGE FROM FY 2009 - 14 CTP:** Cost increase of \$7.0 million due to expansion of design scope to cover airfield pavement reconstruction to meet FAA standards.

**PROJECT:** Airfield Pavement Area Improvements Design at BWI Marshall Airport

**DESCRIPTION:** This project consists of the design of the Runway Safety Area (RSA) improvements, other facility Airport Layout Plan (ALP) improvements, and airfield pavement reconstruction to meet FAA standards. RSA and pavement reconstruction schedule to focus initially on Runway 10-28 followed by Runway 15R-33L. The BWI Master Plan will determine the RSA improvements for Runways 15L-33R and 4-22.

**JUSTIFICATION:** In 2000, the FAA determined that the Airport's RSAs do not meet standards and must be brought into compliance by 2015. MAA conducted an RSA Compliance Study between 2002 and 2004, which examined RSA deficiencies and made recommendations for improvements to comply with FAA standards. The recommended "preferred alternatives" from the RSA Compliance Study are now shown on the Interim ALP. Pavement reconstruction areas were determined through independent pavement analysis as required by the FAA.

**SMART GROWTH STATUS:**

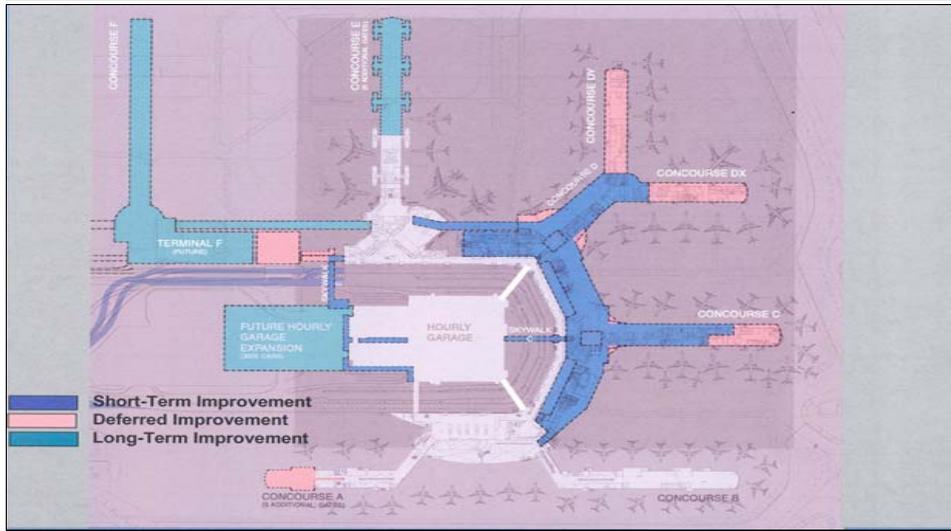
- Project Not Location Specific or Location Not Determined
- Project Within PFA
- Project Outside PFA; Subject to Exception
- Grandfathered
- Exception Approved by BPW/MDOT

**ASSOCIATED IMPROVEMENTS:**

Master Plan at BWI Marshall Airport -- Line 11  
 Airport Layout Plan Environmental Assessment at BWI Marshall Airport -- Line 12

POTENTIAL FUNDING SOURCE:										
<input checked="" 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 2009	CURRENT YEAR 2010	BUDGET YEAR 2011	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY		
					.....2012.....	.....2013.....	.....2014.....	.....2015.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	13,891	86	64	7,509	6,232	0	0	0	13,805	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
<b>Total</b>	<b>13,891</b>	<b>86</b>	<b>64</b>	<b>7,509</b>	<b>6,232</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13,805</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.  
 9800, 9805



**STATUS:** Terminal Modernization Plan Project I, area between Concourses D and E, conceptual design is complete. System Preservation Program reflects construction reserve beginning in FY 2012 pending determination of financing.

**SIGNIFICANT CHANGE FROM FY 2009 - 14 CTP:** Cost decrease of \$7.0 million reflects moving of construction funding to system preservation pending determination of financing.

**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 to be evaluated, along with conceptual design as warranted, 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 Location Not Determined
- Project Within PFA
- Project Outside PFA; Subject to Exception
- Grandfathered
- Exception Approved by BPW/MDOT

**ASSOCIATED IMPROVEMENTS:**

None.

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 2009	CURRENT YEAR 2010	BUDGET YEAR 2011	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
					....2012....	....2013....	....2014....	....2015....		
Planning	2,768	1,317	369	1,082	0	0	0	0	1,451	0
Engineering	9,000	0	0	2,946	5,051	501	502	0	9,000	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
<b>Total</b>	<b>11,768</b>	<b>1,317</b>	<b>369</b>	<b>4,028</b>	<b>5,051</b>	<b>501</b>	<b>502</b>	<b>0</b>	<b>10,451</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, 9885, 9886

**SYSTEM PRESERVATION MINOR PROJECTS PROGRAM**

**MARYLAND AVIATION ADMINISTRATION - LINE 15**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
	<b><u>FY 2010 and Prior</u></b>		
	<b><u>Airport Technology</u></b>		
1	IT Equipment (1456)	6,973	Ongoing
	<b><u>Airside Development</u></b>		
2	Comprehensive Paving FY 2008 (8007)	3,282	Complete
3	Airfield Pavement Milling Equipment (9320)	94	Complete
4	Deicing Fluid Storage Tank #4 (9009)	1,290	Complete
5	Taxiway E Reconfiguration (8203)	85	Underway
6	Comprehensive Paving 2006 (1467)	100	Underway
	<b><u>Annual</u></b>		
7	Bridge Inspection (SHA Consultant) (1023)	654	Complete
8	Airfield Structures Inspections (7005)	113	Complete
9	Terminal Spaceframe Inspection (7000)	144	Complete
10	Retaining Wall Inspection (8001)	100	Underway
11	Comprehensive Regional Air Passenger Survey (1486)	100	Underway
12	Parking Garage Structure Inspection (1463)	75	Underway
13	Real Estate Administrative Services (7019)	309	Ongoing
14	Real Estate Property Services (7018)	284	Ongoing
	<b><u>Baltimore/Washington</u></b>		
15	Comprehensive Design - AE 99-007 (1056)	622	Complete
16	Comprehensive Design - AE99-006 (1055)	1,880	Complete
17	Comp Construction Mgmt & Inspection Services (1188)	2,999	Complete
18	Comprehensive Design Services - AE01-007-010 (1185)	6,249	Complete
19	Wildlife Management Plan (1181)	845	Complete

**SYSTEM PRESERVATION MINOR PROJECTS PROGRAM**

**MARYLAND AVIATION ADMINISTRATION - LINE 15 (cont'd)**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
<b><u>FY 2010 and Prior (cont'd)</u></b>			
<b><u>Baltimore/Washington (cont'd)</u></b>			
20	Comp Business Planning Services (1271)	501	Complete
21	Comp Commercial Facilities & Business Planning Services (1274)	176	Complete
22	Fire Protection Engineer Services (1173)	161	Ongoing
23	Comp Environmental Planning AE-05-003-005 (1460)	3,119	Ongoing
24	Comp. Architectural Engineering Design Services (1324)	4,604	Ongoing
25	Comprehensive Airport Facilities Planning (1459)	4,532	Ongoing
26	Comprehensive Aviation Planning Services (1113)	2,165	Ongoing
27	Comprehensive Intermodal & Terminal Planning Services (1114)	2,813	Ongoing
28	Acoustical Services Contract (1485)	541	Ongoing
29	Comp Arch Eng Design Services (7015)	2,733	Ongoing
30	Comp Construction Mgmt & Inspection (7016)	2,193	Ongoing
31	Comprehensive MBE/DBE Program Monitoring Services (1272)	351	Ongoing
32	OECM - Engineering & Facilities Emergency Mapping Validation (1723)	1,580	Ongoing
33	Pavement Management BWI/MTN (1389)	1,870	Ongoing
34	Comprehensive AIT Services (1291)	205	Ongoing
35	Building Permits and Inspections (1390)	451	Ongoing
<b><u>Consolidated Rental Car Facility</u></b>			
36	CRCF Bus Maintenance Facility HVAC Mods (8307)	218	Complete
37	CRCF CSB Courtyard Improvements (8304)	2,200	Spring, 2010
<b><u>Environmental Compliance</u></b>			
38	Erosion & Stormwater Management Improvements (8103)	1,497	Underway
39	Comp Environmental Compliance Services (1461)	10,000	Ongoing
40	Terminal Environmental Mitigation (8105)	182	Ongoing

**SYSTEM PRESERVATION MINOR PROJECTS PROGRAM**

**MARYLAND AVIATION ADMINISTRATION - LINE 15 (cont'd)**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
<b><u>FY 2010 and Prior (cont'd)</u></b>			
<b><u>Equipment</u></b>			
41	External Defibrillator Replacement (71) (9405)	120	Underway
<b><u>Information Technology CTIPP</u></b>			
42	IT - Engineering & Facilities Emergency Mapping Systems (1623)	1,243	Underway
43	External IT Infrastructure Upgrades (7401)	1,466	Underway
<b><u>Landside Development</u></b>			
44	Bridge/Ramp/Jenne Joint Repairs - Hourly Garage (8004)	1,514	Complete
45	Hourly Garage Tunnel Leakage (9319)	105	Complete
46	Access Roadway Traffic Improvements (9321)	173	Underway
47	Hourly Garage Animal Relief Area & Tunnel Leakage (9322)	14	Spring, 2010
<b><u>Martin State</u></b>			
48	MTN Taxilane K Pavement (9299)	1,512	Complete
49	MTN Fire Suppression (9298)	17	Complete
50	MTN Taxiway F Extension (9297)	160	Complete
<b><u>Regional Aviation</u></b>			
51	Statewide - Airport Pavement (1607)	224	Complete
52	Statewide - Airport System Plan (ASP) Update/Revision (1608)	504	Complete
53	Aid to Public/Private Airports (MAPA-90%) (1106)	1,000	Underway
54	Regional Aviation Program (1107)	100	Underway
55	Statewide Aviation Grants (AIP-5%) (1105)	750	Underway

**SYSTEM PRESERVATION MINOR PROJECTS PROGRAM**

**MARYLAND AVIATION ADMINISTRATION - LINE 15 (cont'd)**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
<b><u>FY 2010 and Prior (cont'd)</u></b>			
<b><u>Security</u></b>			
56	Equipment and Safety Training Systems (7303)	2,287	Underway
57	Baggage Security Cages (9205)	1,431	Underway
58	Interim CCTV Security Improvements (9209)	252	Underway
59	Security Initiatives (1298)	3,884	Ongoing
60	BWI Perimeter Gate G Modification (9207)	3,018	Spring, 2010
<b><u>Terminal Development</u></b>			
61	BWI Water System Improvements (8306)	253	Complete
62	Elevator Safety Improvements (9306)	190	Complete
63	Tenant Emergency Paging Access (8202)	450	Complete
64	Pier C PBX HVAC Replacement (7406)	831	Complete
65	Security Division Office Expansion (9204)	405	Complete
66	MAA Terminal Offices (9500)	2,171	Complete
67	Tenant and Safety Modifications (1457)	472	Underway
68	Baggage Handling System (BHS) Upgrades (7001)	4,366	Underway
69	Painting Terminal Exterior - Airside (7301)	1,086	Underway
70	Terminal Building Interior / Exterior Modifications (7014)	2,848	Underway
71	Terminal Floor Carpet Replacement (9308)	439	Underway
72	Terminal Improvement Project (7017)	7,373	Underway
73	Utilities Connection (7020)	31	Underway
74	Emergency Backup Systems (9312)	2,266	Underway
75	Terminal Space Frame Improvements (9307)	223	Underway
76	800 Mhz Emergency Digital Trunked Radio System (1334)	6	Underway
77	County Sewer and Water Capital Improvements (1028)	354	Underway
78	Loading Bridge Metering (9318)	880	Underway
79	Tenant Mod - Fire Station Exhaust (1417)	13	Underway
80	Terminal Interior / Exterior Modifications (8014)	400	Underway

**SYSTEM PRESERVATION MINOR PROJECTS PROGRAM**

**MARYLAND AVIATION ADMINISTRATION - LINE 15 (cont'd)**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
<b><u>FY 2010 and Prior (cont'd)</u></b>			
<b><u>Terminal Development (cont'd)</u></b>			
81	Facility Management Program (7600)	160	Ongoing
82	Terminal Leasehold Modifications (7500)	183	Ongoing
83	Pier C Gravity Sewer Main Improvements (8305)	357	Spring, 2010
84	Sanitary Sewer Upgrade Phase 3 (9313)	231	Spring, 2010
<b><u>FY 2011</u></b>			
<b><u>Airport Technology</u></b>			
85	Permanent Noise Monitoring System Replacement (7405)	1,400	Fall, 2010
<b><u>Airside Development</u></b>			
86	Comprehensive Paving 2006 (1467)	100	Summer, 2010
87	Comprehensive Paving FY 2011-12 (9008)	1,000	Summer, 2010
88	Deicing Fluid Storage Tank #1 and 2 Repair plus General Aviation (9004)	175	Summer, 2010
89	Above Ground Deicing Storage Tanks - Additional (2) (9304)	927	Spring, 2011
90	Airfield Equipment Storage Building (9303)	8,000	Spring, 2011
91	Airside Taxiway Rehabilitation Phase 2 (Taxiway U) (9316)	148	Spring, 2011
<b><u>Baltimore/Washington</u></b>			
92	BWI / MTN Environmental Documents (9003)	1,082	Summer, 2010
93	Comp Construction Mgmt and Inspection Services (8016)	100	Summer, 2010
94	Comp Stormwater Facilities (9006)	200	Summer, 2010
95	Comprehensive Environmental Services (9407)	913	Fall, 2010

**SYSTEM PRESERVATION MINOR PROJECTS PROGRAM**

**MARYLAND AVIATION ADMINISTRATION - LINE 15 (cont'd)**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
<b><u>FY 2011 (cont'd)</u></b>			
<b><u>Equipment</u></b>			
96	Portable Snowmelter Replacement (2 - New) (9401)	1,700	Summer, 2010
97	Airport Fire Rescue Unit - Replacement (9200)	800	Spring, 2011
<b><u>Information Technology CTIPP</u></b>			
98	Parking Revenue Control (1270)	4,288	Summer, 2010
<b><u>Landside Development</u></b>			
99	Construction Material Storage Building (9404)	500	Summer, 2010
<b><u>Martin State</u></b>			
100	MTN Water Supply for Fire System (1433)	1,263	Summer, 2010
<b><u>Regional Aviation</u></b>			
101	Aid to Public/Private Airports (MAPA-90%) (1106)	1,000	Summer, 2010
102	Regional Aviation Program (1107)	350	Summer, 2010
103	Statewide Aviation Grants (AIP-5%) (1105)	750	Summer, 2010
<b><u>Security</u></b>			
104	TSA Baggage Screening Improvements (9000)	3,270	Summer, 2010
<b><u>Terminal Development</u></b>			
105	County Sewer and Water Capital Improvements (1028)	1,000	Summer, 2010
106	Terminal Fire Alarm & Monitoring Upgrade (7210)	415	Summer, 2010

**SYSTEM PRESERVATION MINOR PROJECTS PROGRAM**

**MARYLAND AVIATION ADMINISTRATION - LINE 15 (cont'd)**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
107	<p><u>FY 2011 (cont'd)</u></p> <p><u>Terminal Development (cont'd)</u></p> <p>Pier C Cooling Tower Replacement (9403)</p>	71	Spring, 2011