

# MICHIGAN AIRPORT DEVELOPMENT PROGRAM

## AIP CAPITAL IMPROVEMENT PLAN

2014-2024

FEDERAL/STATE/LOCAL



## Ann Arbor Municipal Airport

### Ann Arbor, MI

Date of Latest ALP - 2008

ACIP Airport Code - A

Airport Identifier - ARB



MDOT-AERO  
2700 E AIRPORT SERVICE DRIVE  
LANSING, MICHIGAN 48906

Prepared by: City of Ann Arbor

Sponsor: City of Ann Arbor

Submitted by: Matt Kulhanek

Date: October 25, 2013

**MICHIGAN STATE BLOCK GRANT PROGRAM**  
**TEN-YEAR AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2014\* to FY-2024**

\*ACIP includes current development year (2014 already programmed - minor changes acceptable)

Airport Name: <b>Ann Arbor Municipal Airport</b>	Date prepared: 10-25-13
Associated City: <b>Ann Arbor, MI</b>	Prepared By: <b>Sponsor</b>
Sponsor: <b>City of Ann Arbor</b>	Sponsor email address & phone: <b>m.kulhanek@a2gov.org 734-994-2841</b>
Airport Identifier: <b>ARB</b>	<b>FINAL ACIP due to MDOT AERO: no later than 12/1/13</b>

Development Year	Project Description	Shown on ALP <sup>3</sup> (Yes or No)	ACIP Code**	NPIAS Priority Rating**	Federal Entitlements	Federal Apportionment	Federal Discretionary	State	Local	Total	Remarks/Item Justification - Provide as much detail as possible		
<i>Available Entitlements</i>					\$ 600,000	(\$150,000 NPE plus \$450,000 NPE carryover from 2012)							
2014	Final Design and Approach Survey (Phase II) Runway Extension	Yes	CA-RW-EX	56	\$ 193,500	\$ -		\$ 10,750	\$ 10,750	\$ 215,000	Final design will be done for the runway and taxiway extension project. An approach survey will also be completed to provide approach procedures for the new runway ends. An approach survey was started in 2009, but the data does not meet current standards. Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal Equipment.		
	SRE Equipment (Tractor with Broom)	NA	ST-EQ-SN	48	\$ 161,100	\$ -		\$ 8,950	\$ 8,950	\$ 179,000			
	<i>Carryover</i>					\$ 245,400							
<i>Available Entitlements</i>					\$ 395,400								
2015	800' Runway & Taxiway Extension Construction	Yes	CA-RW-EX	56	\$ 395,400	\$ 1,332,600		\$ 96,000	\$ 96,000	\$ 1,920,000	Existing runway will be lengthened to 4300'. Runway will also be shifted 150' to the west to provide clearance over State Road on the East side of the airport. Parallel taxiway will be extended to match the new runway. Connector taxiway on the southeast side will be relocated to the new runway end. All taxiway and runway edge lights will be replaced with LED fixtures.		
	Terminal Parking Lot Expansion & Relocate Airport Drive	Yes	CA-TE-IM	44	\$ -	\$ 217,800		\$ 12,100	\$ 12,100	\$ 242,000	The current parking lot is too small for daily usage. It is frequently at full capacity. To accommodate current demand, additional space is needed. Airport Drive is located north of the parking lot and will need to be relocated to expand the parking lot.		
	<i>Available Entitlements</i>					\$ 150,000							
2016	Rehabilitate Existing Airport Access Road	Yes	OT-GT-AC	23	\$ 150,000	\$ 144,300		\$ 16,350	\$ 18,350	\$ 327,000	Existing access road is over 20 years old and needs rehabilitation. Bulvard will be added at north end for better visibility and signage. Signage will be a local only item. Signage will be added at north end of access road to increase visibility.		
	Airport Signage (Local Only)	Yes	OT-GT-AC	23	\$ -	\$ -		\$ -	\$ 10,000	\$ 10,000			
	<i>Available Entitlements</i>					\$ 150,000							
2017	Rehabilitate Rwy and Txy Conc. Joint Seals and Remark	Yes	RE-RW-IM	72	\$ 72,000	\$ -		\$ 4,000	\$ 4,000	\$ 80,000	Preventative maintenance on existing pavements. Repair failed concrete joints. Markings will be faded. Remark all existing markings.		
	<i>Carryover</i>					\$ 78,000							
	<i>Available Entitlements</i>					\$ 228,000							
2018	Carryover for Future Project				\$ -	\$ -		\$ -	\$ -	\$ 0			
	<i>Carryover</i>					\$ 228,000							
	<i>Available Entitlements</i>					\$ 378,000							
2019	Terminal Building Expansion and Renovation	Yes	CA-TE-IM	44	\$ 294,300	\$ -		\$ 16,350	\$ 16,350	\$ 327,000	Existing terminal building is too small to meet current needs. Additional insulation will be added to existing building to conserve energy. Renovations will be necessary to meet current ADA and other codes.		
	<i>Carryover</i>					\$ 83,700							
	<i>Available Entitlements</i>					\$ 233,700							
2020	Reconstruct SE and NE Taxiways	Yes	RE-TW-IM	68	\$ 233,700	\$ 790,500		\$ 56,900	\$ 56,900	\$ 1,138,000	Pavements are aging and will need replacement. PCI was 73 and 65 for these pavements in 2011. New taxiways will be needed for additional hangars. Hangars will be build with local funding. This will be on the back side of the existing Box Hangars built in 2009.		
	Taxiways for New Box Hangars	Yes	ST-PB-MS	40	\$ -	\$ 173,700		\$ 9,650	\$ 9,650	\$ 193,000			
	<i>Available Entitlements</i>					\$ 150,000							
2021	Rehabilitate and Expand Apron with Lighting	Yes	RE-AP-IM	62	\$ 150,000	\$ 1,251,300		\$ 77,850	\$ 77,850	\$ 1,557,000	Apron pavement is aging and will need reconstruction. 6" concrete overlay will provide cost effective construction. There has been a steady growth in transient corporate flights into the airport along with the continual expansion of helicopter activity requiring increased aircraft parking. The airport is also experiencing a growth in tie-down activity in conjunction with an increased activity on football weekends and other similar community and University event days. The terminal aircraft parking apron is frequently full on many weekdays with large corporate aircraft and tie-down users. Apron lights are old and require replacement. LED replacement lights will be installed. PCI in the Apron was 65 in 2011.		
	SRE Equipment	NA	ST-EQ-SN	48	\$ -	\$ 288,900		\$ 16,050	\$ 16,050	\$ 321,000		Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal Equipment.	
	<i>Available Entitlements</i>					\$ 150,000							
2022	Hangar Site Work	Yes	ST-PB-MS	40	\$ 115,200	\$ -		\$ 6,400	\$ 6,400	\$ 128,000	Currently, a detention pond is blocking development of additional corporate hangar space. Relocation of the pond will develop new corporate hangar space and apron. Pipe will need to tie into drainage system that outlets in pond to the northwest. Pavement will be crossed by pipe and will be restored.		
	<i>Carryover</i>					\$ 34,800							
	<i>Available Entitlements</i>					\$ 184,800							
2023	Hangar Access Road	Yes	OT-GT-AC	23	\$ 184,800	\$ 132,900		\$ 17,650	\$ 17,650	\$ 353,000	Road will provide better access for users of hangars. Will increase safety and security by providing them with separate access road.		
	<i>Carryover</i>					\$ -							
	<i>Available Entitlements</i>					\$ 150,000							
2024	Carryover for Future Project				\$ -	\$ -		\$ -	\$ -	\$ 0			
	<i>Carryover</i>					\$ -							
	<i>Available Entitlements</i>					\$ 150,000							

\*\*In accordance with FAA Order 5100.39A, Appendix 6 - Fields need to be completed



























**Ann Arbor Municipal Airport**

YEAR (PROJECT NUMBER): 2021(1)

DESCRIPTION: **Rehabilitate and Expand Apron with Lighting**

Work Item Description	Quantity	Unit	Price	Amount
<b>Rehab</b>				
Mobilization	1	Lump Sum	\$ 15,000.00	\$ 15,000
Safety & Security	1	Lump Sum	\$ 5,000.00	\$ 5,000
Mill Existing Pavement	21,000	SYD	\$ 1.50	\$ 31,500
6" Concrete Overlay	21,000	SYD	\$ 40.00	\$ 840,000
				\$ -
<b>Expansion</b>				
Unclassified Excavation	3,200	CYD.	\$ 4.00	\$ 12,800
Aggregate Base Course 6"	1,500	CYD.	\$ 30.00	\$ 45,000
Bituminous Surface 3"	1,700	Tons	\$ 90.00	\$ 153,000
Trenching	800	LFT.	\$ 1.00	\$ 800
Underground Cable, 1/C #8	2,400	LFT.	\$ 2.00	\$ 4,800
Counterpoise Wire, #6	800	LFT.	\$ 3.00	\$ 2,400
Galvanized Steel Conduit, 2" Direct Burial	100	LFT.	\$ 35.00	\$ 3,500
Apron Lights	6	Each	\$ 7,000.00	\$ 42,000
Markings (Center & Edge)	1,200	SFT.	\$ 0.50	\$ 600
Seeding & Mulching	2	Acres	\$ 2,000.00	\$ 3,700
Tie-Downs	60	Each	\$ 600.00	\$ 36,000
				\$ -
<b>Lighting</b>				
Underground Cable, 1/C, #8	2,000	LFT.	\$ 2.00	\$ 4,000
Counterpoise Wire, #6	600	LFT.	\$ 2.00	\$ 1,200
Apron Lights	8	Each	\$ 9,000.00	\$ 72,000
				\$ -
				\$ -
				\$ -
				\$ -

TOTAL CONSTRUCTION		\$ 1,273,300.00
ENGINEERING DESIGN		\$ 100,000.00
CONSTRUCTION ADMIN.		\$ 120,000.00
CONTINGENCY	5%	\$ 63,665.00
<b>TOTAL*</b>		<b>\$ 1,557,000.00</b>

TOTAL FEDERAL DOLLARS	90%	\$ 1,401,300
TOTAL STATE DOLLARS	5.0%	\$ 77,850
TOTAL LOCAL DOLLARS	5.0%	\$ 77,850

\* Amount rounded up to the nearest thousand dollars.

**DESCRIPTION AND JUSTIFICATION:**

Apron pavement is aging and will need reconstruction. 6" concrete overlay will provide cost effective construction. There has been a steady growth in transient corporate flights into the airport along with the continual expansion of helicopter activity requiring increased aircraft parking. The airport is also experiencing a growth in tie-down activity in conjunction with an increased activity on football weekends and other similar community and University event days. The terminal aircraft parking apron is frequently full on many weekdays with large corporate aircraft and tie-down users. Apron lights are old and require replacement. LED replacement lights will be installed. PCI in the Apron was 65 in 2011.

ALP STATUS	ENV.	PURPOSE:	
Yes	Categorical Ex. Expected	Reconstruction	8
		Apron	5
		Improvements	8
		<b>PRIORITY NUMBER</b>	<b>62</b>









