

MICHIGAN AIRPORT DEVELOPMENT PROGRAM

AIP CAPITAL IMPROVEMENT PLAN

2011-2021

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: **URS Corporation**

Sponsor: City of Ann Arbor

Submitted by: Matt Kulhanek

Date: August 2, 2010

Revised: September 9, 2010

MICHIGAN STATE BLOCK GRANT PROGRAM
TEN-YEAR AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2011* to FY-2021

*ACIP includes current development year (2011 already programmed - minor changes acceptable)

Airport Name: Ann Arbor Municipal Airport										Date prepared: September 9, 2010	
Associated City: Ann Arbor, MI										Prepared By: URS Corporation	
Sponsor: City of Ann Arbor										Sponsor email address & phone: 734-994-2841 MJKulhanek@A2gov.org	
Airport Identifier: ARB										FINAL ACIP due to MDOT AERO: no later than 12/1/10	
Development Year	Project Description	Shown on ALP? (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.
2011	<i>Available Entitlements</i>				\$ 353,860	(\$150,000 NPE plus \$203,860 NPE carryover from 2010.)					
	Final Design Runway & Taxiway Extension	NA	CA-RW-EX	56	\$ 61,750	\$ -		\$ 1,625	\$ 1,625	\$ 65,000	Provide for final design of Runway and Taxiway Extension.
	800' Runway & Taxiway Extension Construction	Yes	CA-RW-EX	56	\$ 292,110	\$ 1,291,540		\$ 41,675	\$ 41,675	\$ 1,667,000	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.
					\$ -	\$ -				\$ -	
2012	<i>Available Entitlements</i>				\$ 150,000						
	Design: Terminal Parking Lot Expansion & Relocate Airport Drive Phase I	Yes	OT-OT-PA	19	\$ 17,100	\$ -		\$ 450	\$ 450	\$ 18,000	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.
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
2013	<i>Carryover</i>				\$ 132,900						
	<i>Available Entitlements</i>				\$ 282,900						
	Terminal Parking Lot Expansion & Relocate Airport Drive Phase I	Yes	OT-OT-PA	19	\$ 170,050	\$ -		\$ 4,475	\$ 4,475	\$ 179,000	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. If the EA prevents the runway construction from occurring in 2011 this project will be designed and built in 2011.
	Close Airport Drive (Gate and Fence Relocation)	Yes	OT-OT-PA	19	\$ 61,750	\$ -		\$ 1,625	\$ 1,625	\$ 65,000	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.
2014	<i>Carryover</i>				\$ 51,100						
	<i>Available Entitlements</i>				\$ 201,100						
	Rehabilitate Existing Airport Access Road	Yes	OT-GT-AC	23	\$ 201,100	\$ 109,550		\$ 8,175	\$ 8,175	\$ 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.
	Airport Signage (Local Only)	Yes	OT-GT-AC	23	\$ -	\$ -		\$ -	\$ 5,000	\$ 5,000	Signage will be added at north end of access road to increase visibility.
2015	<i>Carryover</i>				\$ -						
	<i>Available Entitlements</i>				\$ 150,000						
	Carryover for Future Project				\$ -	\$ -		\$ -	\$ -	\$ -	0
					\$ -	\$ -				\$ -	
2016	<i>Carryover</i>				\$ 150,000						
	<i>Available Entitlements</i>				\$ 300,000						
	Terminal Building Expansion and Renovation	Yes	CA-TE-IM	44	\$ 261,250	\$ -		\$ 6,875	\$ 6,875	\$ 275,000	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.
					\$ -	\$ -				\$ -	
2017	<i>Carryover</i>				\$ 38,750						
	<i>Available Entitlements</i>				\$ 188,750						
	Taxilanes for New Box Hangars	Yes	ST-PB-MS	40	\$ 183,350	\$ -		\$ 4,825	\$ 4,825	\$ 193,000	New taxilanes 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.
					\$ -	\$ -				\$ -	
2018	<i>Carryover</i>				\$ 5,400						
	<i>Available Entitlements</i>				\$ 155,400						
	Reconstruct SE and NE Taxiways	Yes	RE-TW-IM	68	\$ 155,400	\$ 939,000		\$ 28,800	\$ 28,800	\$ 1,152,000	Pavements are aging and will need replacement. PCI was 80 and 82 for these pavements in 2005.
					\$ -	\$ -				\$ -	
2019	<i>Carryover</i>				\$ -						
	<i>Available Entitlements</i>				\$ 150,000						
	Rehabilitate and Expand Apron with Lighting	Yes	RE-AP-IM	62	\$ 150,000	\$ 1,329,150		\$ 38,925	\$ 38,925	\$ 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 90 in 2005.
	SRE Equipment (Truck and Tractor)	NA	ST-EQ-SN	48	\$ -	\$ 488,300		\$ 12,850	\$ 12,850	\$ 514,000	Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal Equipment.
2020	<i>Carryover</i>				\$ -						
	<i>Available Entitlements</i>				\$ 150,000						
	Hangar Site Work	Yes	ST-PB-MS	40	\$ 121,600	\$ -		\$ 3,200	\$ 3,200	\$ 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. Pavements will be crossed by pipe and will be restored.
	Rehabilitate Rwy and Txy Conc. Joint Seals and Remark	Yes	RE-RW-IM	72	\$ 28,400	\$ 47,600		\$ 2,000	\$ 2,000	\$ 80,000	Preventative maintenance on existing pavements. Repair failed concrete joints. Markings will be faded. Remark all existing markings.
2021	<i>Carryover</i>				\$ -						
	<i>Available Entitlements</i>				\$ 150,000						
	Hangar Access Road Phase II	Yes	OT-GT-AC	23	\$ 150,000	\$ 185,350		\$ 8,825	\$ 8,825	\$ 353,000	Road will provide better access for users of hangars. Will increase safety and security by providing them with separate access road.
					\$ -	\$ -				\$ -	

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

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2011(2)

DESCRIPTION: 800' Runway & Taxiway Extension Construction

Work Item Description	Quantity	Unit	Price	Amount
Mobilization and Safety Security	1	Lump Sum	\$ 85,000.00	\$ 85,000
Pavement Removal	3,500	SYD	\$ 17.00	\$ 59,500
New Rwy Lights with LED Lamps	30	Each	\$ 950.00	\$ 28,500
New Txy Lights with LED Lamps	20	Each	\$ 950.00	\$ 19,000
#8 Cable in Conduit	3,800	LFT	\$ 3.00	\$ 11,400
#6 Solid Counterpoise Wire	3,800	LFT	\$ 2.00	\$ 7,600
Replace Existing Txy Lights with LED Lamps	218	Each	\$ 650.00	\$ 141,700
Replace Existing Rwy Lights with LED Lamps	40	Each	\$ 650.00	\$ 26,000
Relocate Existing VASI	1	Each	\$ 10,000.00	\$ 10,000
Relocate REIL	2	Set	\$ 5,000.00	\$ 10,000
Relocate PAPI	1	set	\$ 10,000.00	\$ 10,000
Unclassified Excavation	40,000	CYD	\$ 4.00	\$ 160,000
Drainage	1	Lump Sum	\$ 40,000.00	\$ 40,000
Underdrains	3,800	LFT	\$ 8.00	\$ 30,400
12 Inch Subbase	5,400	CYD	\$ 14.75	\$ 79,650
6 Inch Aggregate Base Course	2,700	CYD	\$ 30.00	\$ 81,000
6 Inch Concrete Pavement	15,000	SYD	\$ 38.00	\$ 570,000
Runway Grooving	12,000	SYD	\$ 2.00	\$ 24,000
Turfing & Mulching	5	Acres	\$ 2,000.00	\$ 10,000
Marking	1	Lump Sum	\$ 50,000.00	\$ 50,000
Approach Markers	8	Each	\$ 350.00	\$ 2,800
Centerline monument	2	Each	\$ 1,000.00	\$ 2,000
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -

TOTAL CONSTRUCTION		\$ 1,458,550.00
ENGINEERING FINAL DESIGN		
CONSTRUCTION ADMIN.		\$ 135,000.00
CONTINGENCY	5%	\$ 72,927.50
TOTAL*		\$ 1,667,000.00

TOTAL FEDERAL DOLLARS	95%	\$ 1,583,650
TOTAL STATE DOLLARS	2.5%	\$ 41,675
TOTAL LOCAL DOLLARS	2.5%	\$ 41,675

* Amount rounded up to the nearest thousand dollars.

DESCRIPTION AND JUSTIFICATION:

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.

ALP STATUS	ENV.	PURPOSE:	Capacity	7
Yes	EA in previous year	COMPONENT:	Runway	10
		TYPE:	Extension/Expansion	6
		PRIORITY NUMBER		56

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2013(1)

DESCRIPTION: **Terminal Parking Lot Expansion & Relocate Airport Drive Phase I**

Work Item Description	Quantity	Unit	Price	Amount
Mobilization	1	Lump Sum	\$ 15,000.00	\$ 15,000
Safety & Security	1	Lump Sum	\$ 3,000.00	\$ 3,000
Saw Cut and Seal pavement	200	LFT.	\$ 5.00	\$ 1,000
Unclassified Excavation	1,600	CYD.	\$ 4.50	\$ 7,200
Granular Sub-base 12"	800	CYD.	\$ 12.50	\$ 10,000
Aggregate Base Course	400	CYD.	\$ 28.00	\$ 11,200
Curb & Gutter	500	LFT.	\$ 22.00	\$ 11,000
Bituminous Pavement	700	Ton	\$ 85.00	\$ 59,500
Marking	1	Lump Sum	\$ 2,500.00	\$ 2,500
Underdrain	1,250	LFT.	\$ 8.00	\$ 10,000
Restoration	1	LS	\$ 5,000.00	\$ 5,000
Ditch/curb Work	1,680	LFT.	\$ 12.00	\$ 20,160
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -

TOTAL CONSTRUCTION		\$ 155,560.00
ENGINEERING DESIGN		
CONSTRUCTION ADMIN.		\$ 15,000.00
CONTINGENCY	5%	\$ 7,778.00
TOTAL*		\$ 179,000.00

TOTAL FEDERAL DOLLARS	95%	\$ 170,050
TOTAL STATE DOLLARS	2.5%	\$ 4,475
TOTAL LOCAL DOLLARS	2.5%	\$ 4,475

* Amount rounded up to the nearest thousand dollars.

DESCRIPTION AND JUSTIFICATION:
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. If the EA prevents the runway construction from occurring in 2011 this project will be designed and built in 2011.

ALP STATUS	ENV.	PURPOSE:	Other	4
Yes	Categorical Ex. Expected	COMPONENT:	Other	7
		TYPE:	Parking	1
PRIORITY NUMBER				19

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2013(2)
DESCRIPTION: Close Airport Drive (Gate and Fence Relocation)

Work Item Description	Quantity	Unit	Price	Amount
Mobilization	1	Lump Sum	\$ 5,000.00	\$ 5,000
Safety & Security	1	Lump Sum	\$ 1,000.00	\$ 1,000
Relocate/New Fence	1,200	LFT	\$ 20.00	\$ 24,000
24' Motorized High Speed Vehicle Gate	1	Lump Sum	\$ 14,000.00	\$ 14,000
Signage	1	Lump Sum	\$ 3,000.00	\$ 3,000
Incidentals	1	Lump Sum	\$ 2,000.00	\$ 2,000
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -

TOTAL CONSTRUCTION		\$	49,000.00
ENGINEERING DESIGN		\$	5,000.00
CONSTRUCTION ADMIN.		\$	6,000.00
CONTINGENCY	10%	\$	4,900.00
TOTAL*		\$	65,000.00
TOTAL FEDERAL DOLLARS	95%	\$	61,750
TOTAL STATE DOLLARS	2.5%	\$	1,625
TOTAL LOCAL DOLLARS	2.5%	\$	1,625

* Amount rounded up to the nearest thousand dollars.

DESCRIPTION AND JUSTIFICATION:
 The current parking lot is too small for daily usage. It is frequently at full capacity. To accomodate 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.

ALP STATUS	ENV.	PURPOSE:	Other	4
Yes	Categorical Ex. Expected	COMPONENT:	Other	7
		TYPE:	Parking	1
		PRIORITY NUMBER		19

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2014(1) DESCRIPTION: Rehabilitate Existing Airport Access Road

Work Item Description	Quantity	Unit	Price	Amount
Mobilization	1	Lump Sum	\$ 20,000.00	\$ 20,000
Safety & Security	1	Lump Sum	\$ 3,500.00	\$ 3,500
Mill Existing Pavement	3,400	SYD.	\$ 2.00	\$ 6,800
Bituminous Pavement	800	Ton	\$ 85.00	\$ 68,000
Marking	1	Lump Sum	\$ 2,000.00	\$ 2,000
Ditch/Curb Work	4,000	LFT.	\$ 15.00	\$ 60,000
Sidewalk	7,500	SFT	\$ 4.00	\$ 30,000
Drainage Structures	3	Lump Sum	\$ 2,000.00	\$ 6,000
24" Storm Pipe	2,000	LFT	\$ 32.00	\$ 64,000
Earthwork for drainage ditch	2,000	CYD	\$ 4.00	\$ 8,000
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -

TOTAL CONSTRUCTION		\$ 268,300.00
ENGINEERING DESIGN		\$ 25,000.00
CONSTRUCTION ADMIN.		\$ 20,000.00
CONTINGENCY	5%	\$ 13,415.00
TOTAL*		\$ 327,000.00
TOTAL FEDERAL DOLLARS	95%	\$ 310,650
TOTAL STATE DOLLARS	2.5%	\$ 8,175
TOTAL LOCAL DOLLARS	2.5%	\$ 8,175

* Amount rounded up to the nearest thousand dollars.

DESCRIPTION AND JUSTIFICATION:
 Existing access road is over 20 years old and needs rehabilitation. Bulivard will be added at north end for better visibility and signage. Signage will be a local only item.

ALP STATUS	ENV.	PURPOSE:	Other	4
Yes	Categorical Ex. Expected	COMPONENT:	Gnd Transp	4
		TYPE:	Access	7
		PRIORITY NUMBER		

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2014(2)

DESCRIPTION: Airport Signage (Local Only)

Work Item Description	Quantity	Unit	Price	Amount
Airport Signage	1	Lump Sum	\$ 5,000.00	\$ 5,000
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -

TOTAL CONSTRUCTION		\$	5,000.00
ENGINEERING DESIGN			
CONSTRUCTION ADMIN.			
CONTINGENCY		\$	-
TOTAL*		\$	5,000.00
TOTAL FEDERAL DOLLARS	0%	\$	-
TOTAL STATE DOLLARS	0.0%	\$	-
TOTAL LOCAL DOLLARS	100.0%	\$	5,000

* Amount rounded up to the nearest thousand dollars.

DESCRIPTION AND JUSTIFICATION:
Signage will be added at north end of access road to increase visibility.

ALP STATUS	ENV.	PURPOSE:	Other	4
Yes	Categorical Ex. Expected	COMPONENT:	Gnd Transp	4
		TYPE:	Access	7
			PRIORITY NUMBER	23

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2015(1) DESCRIPTION: Carryover for Future Project
--

Work Item Description	Quantity	Unit	Price	Amount
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -

TOTAL CONSTRUCTION			\$	-
ENGINEERING DESIGN				
CONSTRUCTION ADMIN.				
CONTINGENCY			\$	-
TOTAL*				\$ -
TOTAL FEDERAL DOLLARS	95%		\$	-
TOTAL STATE DOLLARS	2.5%		\$	-
TOTAL LOCAL DOLLARS	2.5%		\$	-

* Amount rounded up to the nearest thousand dollars.

DESCRIPTION AND JUSTIFICATION:

ALP STATUS	ENV.	PURPOSE:		#N/A
		COMPONENT:		#N/A
		TYPE:		#N/A
			PRIORITY NUMBER	#N/A

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2016(1)

DESCRIPTION: **Terminal Building Expansion and Renovation**

Work Item Description	Quantity	Unit	Price	Amount
Building Expansion	1,000	SFT	\$ 75.00	\$ 75,000
New Green Roof	1	LS	\$ 40,000.00	\$ 40,000
Electrical Upgrades	1	LS	\$ 25,000.00	\$ 25,000
Renovations to Existing Building	3,000	SFT	\$ 20.00	\$ 60,000
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -

TOTAL CONSTRUCTION		\$	200,000.00
ENGINEERING DESIGN		\$	30,000.00
CONSTRUCTION ADMIN.		\$	35,000.00
CONTINGENCY	5%	\$	10,000.00
TOTAL*		\$	275,000.00
TOTAL FEDERAL DOLLARS	95%	\$	261,250
TOTAL STATE DOLLARS	2.5%	\$	6,875
TOTAL LOCAL DOLLARS	2.5%	\$	6,875

* Amount rounded up to the nearest thousand dollars.

DESCRIPTION AND JUSTIFICATION:
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.

ALP STATUS	ENV.	PURPOSE:		
Yes	Categorical Ex. Expected	Capacity		7
		COMPONENT:	Terminal	1
		TYPE:	Improvements	8
		PRIORITY NUMBER		
				44

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2017(1)

DESCRIPTION: Taxilanes for New Box Hangars

Work Item Description	Quantity	Unit	Price	Amount
Mobilization	1	Lump Sum	\$ 10,000.00	\$ 10,000
Safety & Security	1	Lump Sum	\$ 1,500.00	\$ 1,500
Unclassified Excavation	2,400	CYD.	\$ 4.00	\$ 9,600
Granular Sub-base 12"	1,600	CYD.	\$ 12.00	\$ 19,200
Aggregate Base Course 6"	800	CYD.	\$ 28.00	\$ 22,400
Bituminous Pavement 3"	900	Ton	\$ 85.00	\$ 76,500
Marking	1	Lump Sum	\$ 1,000.00	\$ 1,000
Underdrain	1,800	LFT.	\$ 8.00	\$ 14,400
Restoration	1	LS	\$ 3,000.00	\$ 3,000
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -

TOTAL CONSTRUCTION		\$	157,600.00
ENGINEERING DESIGN		\$	12,000.00
CONSTRUCTION ADMIN.		\$	15,000.00
CONTINGENCY	5%	\$	7,880.00
TOTAL*		\$	193,000.00
TOTAL FEDERAL DOLLARS	95%	\$	183,350
TOTAL STATE DOLLARS	2.5%	\$	4,825
TOTAL LOCAL DOLLARS	2.5%	\$	4,825

* Amount rounded up to the nearest thousand dollars.

DESCRIPTION AND JUSTIFICATION:
 New taxilanes will be needed for additional hangars. Hangars will be build with local funding. This will be on the back side of the existng Box Hangars built in 2009.

ALP STATUS Yes	ENV. Categorical Ex. Expected	PURPOSE:	Standards	6
		COMPONENT:	Public Bldg	7
		TYPE:	Misc.	5
		PRIORITY NUMBER		40

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2018(1)

DESCRIPTION: Reconstruct SE and NE Taxiways

Work Item Description	Quantity	Unit	Price	Amount
Mobilization	1	Lump Sum	\$ 80,000.00	\$ 80,000
Safety & Security	1	Lump Sum	\$ 10,000.00	\$ 10,000
Unclassified Excavation	15,000	CYD.	\$ 4.00	\$ 60,000
Granular Sub-base 12"	8,600	CYD.	\$ 15.00	\$ 129,000
Aggregate Base Course 6"	4,300	CYD.	\$ 30.00	\$ 129,000
Bituminous Pavement 3"	4,400	Ton	\$ 95.00	\$ 418,000
Marking	1	Lump Sum	\$ 5,000.00	\$ 5,000
Underdrain	8,000	LFT.	\$ 8.00	\$ 64,000
Restoration	1	LS	\$ 3,000.00	\$ 3,000
Mill Existing Pavement	25,388	SYD	\$ 2.00	\$ 50,776
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -

TOTAL CONSTRUCTION		\$ 948,776.43
ENGINEERING DESIGN		\$ 80,000.00
CONSTRUCTION ADMIN.		\$ 75,000.00
CONTINGENCY	5%	\$ 47,438.82
TOTAL*		\$ 1,152,000.00
TOTAL FEDERAL DOLLARS	95%	\$ 1,094,400
TOTAL STATE DOLLARS	2.5%	\$ 28,800
TOTAL LOCAL DOLLARS	2.5%	\$ 28,800

* Amount rounded up to the nearest thousand dollars.

DESCRIPTION AND JUSTIFICATION:
Pavements are aging and will need replacement. PCI was 80 and 82 for these pavements in 2005.

ALP STATUS	ENV.	PURPOSE:	Reconstruction	8
Yes	Categorical Ex. Expected	COMPONENT:	Taxiway	8
		TYPE:	Improvements	8
		PRIORITY NUMBER		68

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2019(1)

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

Work Item Description	Quantity	Unit	Price	Amount
Rehab				
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
				\$ -
Expansion				
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
				\$ -
Lighting				
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
TOTAL*		\$ 1,557,000.00

TOTAL FEDERAL DOLLARS	95%	\$ 1,479,150
TOTAL STATE DOLLARS	2.5%	\$ 38,925
TOTAL LOCAL DOLLARS	2.5%	\$ 38,925

* 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 90 in 2005.

ALP STATUS	ENV.	PURPOSE:	8
Yes	Categorical Ex. Expected	Reconstruction	8
		COMPONENT: Apron	5
		TYPE: Improvements	8
PRIORITY NUMBER			62

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2019(2)
 DESCRIPTION: **SRE Equipment (Truck and Tractor)**

Work Item Description	Quantity	Unit	Price	Amount
Tractor with Blower	1	LS	\$ 180,000.00	\$ 180,000
Large Plow Truck	1	LS	\$ 300,000.00	\$ 300,000
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -

TOTAL CONSTRUCTION		\$	480,000.00
ENGINEERING DESIGN		\$	10,000.00
CONSTRUCTION ADMIN.			
CONTINGENCY	5%	\$	24,000.00
TOTAL*		\$	514,000.00
TOTAL FEDERAL DOLLARS	95%	\$	488,300
TOTAL STATE DOLLARS	2.5%	\$	12,850
TOTAL LOCAL DOLLARS	2.5%	\$	12,850

* Amount rounded up to the nearest thousand dollars.

DESCRIPTION AND JUSTIFICATION:
 Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal Equipment.

ALP STATUS	ENV.	PURPOSE:	Standards	6
NA	Categorical Ex. Expected	COMPONENT:	Equipment	8
		TYPE:	Snow Removal Eq	9
		PRIORITY NUMBER		48

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2020(1)

DESCRIPTION: **Hangar Site Work**

Work Item Description	Quantity	Unit	Price	Amount
Mobilization & Safety Security	1	Lump Sum	\$ 20,000.00	\$ 20,000
Unclassified Excavation & Grading	2,000	CYD.	\$ 5.00	\$ 10,000
Seeding and Mulching	3	Acres	\$ 1,200.00	\$ 3,600
Drainage Structures	3	Lump Sum	\$ 2,000.00	\$ 6,000
24" Storm Pipe	1,000	LFT	\$ 38.00	\$ 38,000
Pavement Restoration	1	Lump Sum	\$ 20,000.00	\$ 20,000
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -

TOTAL CONSTRUCTION		\$	97,600.00
ENGINEERING DESIGN	15%	\$	15,000.00
CONSTRUCTION ADMIN.	15%	\$	10,000.00
CONTINGENCY	5%	\$	4,880.00
TOTAL*		\$	128,000.00

TOTAL FEDERAL DOLLARS	95%	\$	121,600
TOTAL STATE DOLLARS	2.5%	\$	3,200
TOTAL LOCAL DOLLARS	2.5%	\$	3,200

* Amount rounded up to the nearest thousand dollars.

DESCRIPTION AND JUSTIFICATION:
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. Pavements will be crossed by pipe and will be restored.

ALP STATUS Yes	ENV. Categorical Ex. Expected	PURPOSE:	Standards	6
		COMPONENT:	Public Bldg	7
		TYPE:	Misc.	5
		PRIORITY NUMBER		

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2021(1)

DESCRIPTION: Hangar Access Road Phase II

Work Item Description	Quantity	Unit	Price	Amount
Mobilization	1	Lump Sum	\$ 25,000.00	\$ 25,000
Safety & Security	1	Lump Sum	\$ 8,000.00	\$ 8,000
Saw Cut and Seal Pavement	216	LFT	\$ 5.00	\$ 1,080
Unclassified Excavation	3,400	CYD	\$ 4.00	\$ 13,600
Granular Sub-base 12"	900	CYD	\$ 12.00	\$ 10,800
Aggregate Base course 6"	450	CYD	\$ 30.00	\$ 13,500
Bituminous Surface 3"	900	Tons	\$ 95.00	\$ 85,500
Pavement Marking	1	Lump Sum	\$ 1,500.00	\$ 1,500
Ditch/Curb Underdrain Work	4,320	LFT	\$ 20.00	\$ 86,400
Seeding and Mulching	2	Acres	\$ 2,000.00	\$ 4,320
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -

TOTAL CONSTRUCTION		\$	249,700.00
ENGINEERING DESIGN		\$	45,000.00
CONSTRUCTION ADMIN.		\$	45,000.00
CONTINGENCY	5%	\$	12,485.00
TOTAL*		\$	353,000.00
TOTAL FEDERAL DOLLARS	95%	\$	335,350
TOTAL STATE DOLLARS	2.5%	\$	8,825
TOTAL LOCAL DOLLARS	2.5%	\$	8,825

* Amount rounded up to the nearest thousand dollars.

DESCRIPTION AND JUSTIFICATION:
Road will provide better access for users of hangars. Will increase safety and security by providing them with separate access road.

ALP STATUS	ENV.	PURPOSE:	Other	4
Yes	Categorical Ex. Expected	COMPONENT:	Gnd Transp	4
		TYPE:	Access	7
		PRIORITY NUMBER		