#### MICHIGAN AIRPORT DEVELOPMENT PROGRAM

# AIP CAPITAL IMPROVEMENT PLAN 2012-2022

#### 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

Date: 7/26/2011

Sponsor: City of Ann Arbor
Submitted by: Matt Kulhanek

Date: July 26, 2011

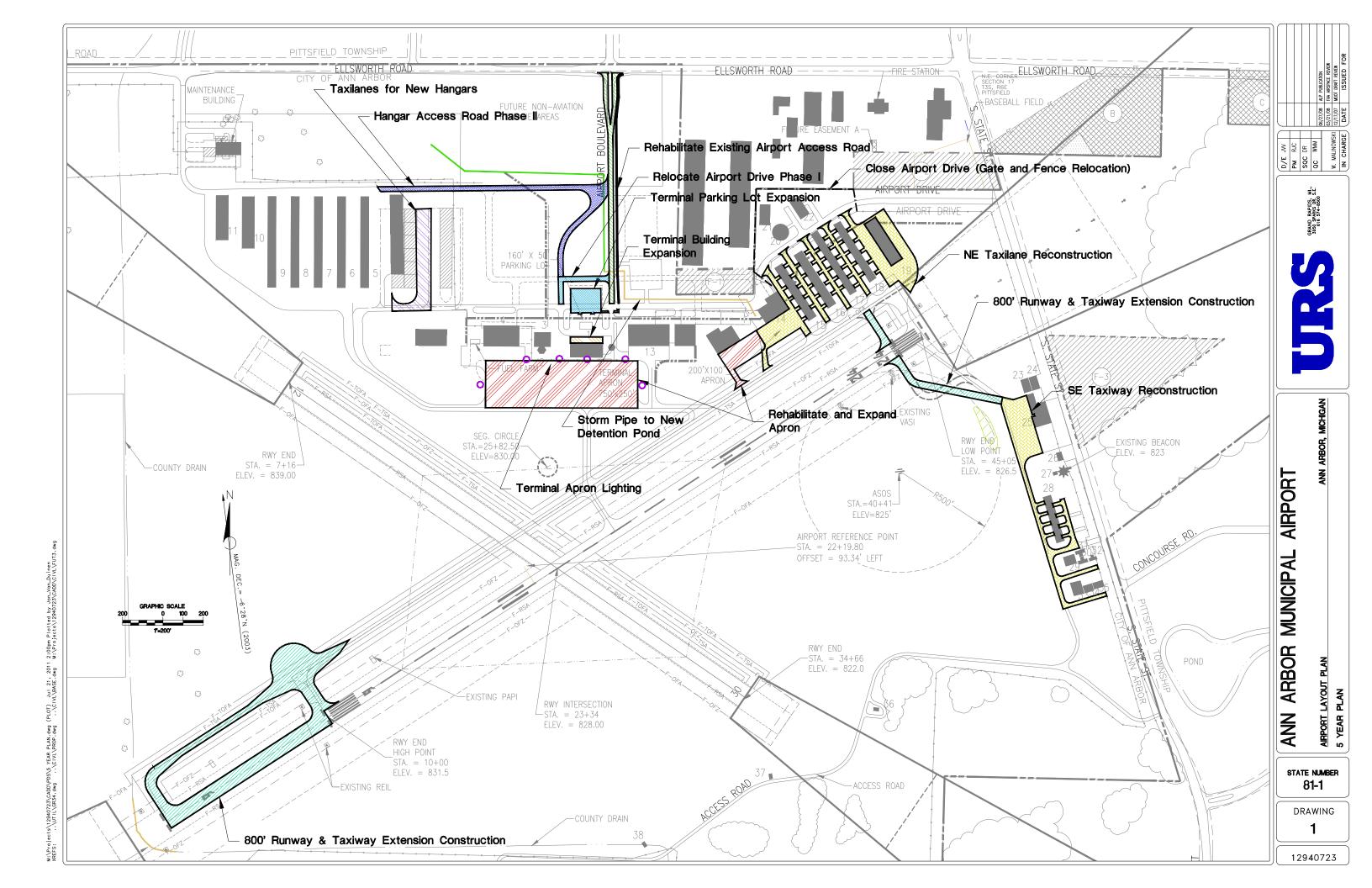
	TEN-YEAR AIRPO	ORT CAPITAL I	MPROVEMENT PROGRAM (CIP) FY-2012 to FY-2022
			nicipal Airport
Year	Project Description	Cost*	Remarks/Item Justification
2	Terminal Parking Lot Expansion & Relocate Airport Drive Phase I	\$ 210,000	Available Federal Entitlements (NPE) \$200,000 (\$50,000 Carryover from 2011)  The current parking lot is too small for daily usage. It is frequently at full capacity. To accomidate 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 occuring in 2012 this project will be designed and built in 2012.
2012	800' Runway & Taxiway Extension Construction	\$ 1,732,000	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.
	Fed \$1,844,900 - State \$48,550 - Local \$48,550 - To	tal \$1,942,000	Funds in addition to NPE are needed for this year.
2013	Close Airport Drive (Gate and Fence Relocation)	\$ 81,000	Available Federal Entitlements (NPE) \$150,000  The current layout of the road and gates in the northeast corner of the airport makes it difficult to control access to the airport. A portion of this road will be closed and the fence and gates relocated to improve the control of access to the airport.
	Fed \$76,950 - State \$2,025 - Local \$2,025 -	Total \$81,000	Carryover \$73,050
2014	Rehabilitate Existing Airport Access Road Airport Signage (Local Only)	\$ 327,000 \$ 5,000	Available Federal Entitlements (NPE) \$223,050  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.  Signage will be added at north end of access road to increase visibility.
	Fed \$315,400 - State \$8,300 - Local \$8,300 - T	otal \$332,000	Funds in addition to NPE are needed for this year.
5	Carryover for Future Project	\$ -	Available Federal Entitlements (NPE) \$150,000
201			
, ,	Fed \$0 - State \$0 - Loca	l Il \$0 - Total \$0	Carryover \$150,000
			Available Federal Entitlements (NPE) \$300,000
2016	Terminal Building Expansion and Renovation	\$ 304,000	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.
	Fed \$288,800 - State \$7,600 - Local \$7,600 - T	otal \$304,000	Carryover \$11,200
2017	SRE Equipment (Tractor with Broom)	\$ 179,000	Available Federal Entitlements (NPE) \$161,200  Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal Equipment.
. ,	Fed \$170,050 - State \$4,475 - Local \$4,475 - 1	otal \$179,000	Funds in addition to NPE are needed for this year.
8	Reconstruct SE and NE Taxiways	\$ 1,138,000	Available Federal Entitlements (NPE) \$150,000  Pavements are aging and will need replacement. PCI was 80 and 82 for these pavements in 2005.
201	Tavilance for New Poy Hangers	¢ 102.000	New taxilanes will be needed for additional hangars. Hangars will be build with local funding. This will be
201	Taxilanes for New Box Hangars Fed \$1,264,450 - State \$33,275 - Local \$33,275 - To		New taxilanes will be needed for additional hangars. Hangars will be build with local funding. This will be on the back side of the exisitng Box Hangars built in 2009.  Funds in addition to NPE are needed for this year.
20.			on the back side of the exisitng Box Hangars built in 2009.
2019 201			on the back side of the exisiting Box Hangars built in 2009.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$150,000  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.
2	Fed \$1,264,450 - State \$33,275 - Local \$33,275 - To	tal \$1,331,000	on the back side of the exisiting Box Hangars built in 2009.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$150,000  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
2	Fed \$1,264,450 - State \$33,275 - Local \$33,275 - To  Rehabilitate and Expand Apron with Lighting	\$ 1,557,000 \$ 321,000	on the back side of the exisiting Box Hangars built in 2009.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$150,000  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.  Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal Equipment.  Funds in addition to NPE are needed for this year.
2020 2019 2	Fed \$1,264,450 - State \$33,275 - Local \$33,275 - To  Rehabilitate and Expand Apron with Lighting  SRE Equipment (Truck)	\$ 1,557,000 \$ 321,000	on the back side of the exisiting Box Hangars built in 2009.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$150,000  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.  Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal Equipment.
2020 2019 2	Rehabilitate and Expand Apron with Lighting  SRE Equipment (Truck)  Fed \$1,784,100 - State \$46,950 - Local \$46,950 - To	\$ 1,557,000 \$ 321,000 tal \$1,878,000 \$ 128,000 \$ 80,000	on the back side of the exisiting Box Hangars built in 2009.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$150,000  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.  Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal Equipment.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$150,000  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.  Preventative maintenance on existing pavements. Repair failed concrete joints. Markings will be faded. Remark all existing markings.
2020 2019 2	Fed \$1,264,450 - State \$33,275 - Local \$33,275 - To  Rehabilitate and Expand Apron with Lighting  SRE Equipment (Truck)  Fed \$1,784,100 - State \$46,950 - Local \$46,950 - To  Hangar Site Work  Rehabilitate Rwy and Txy Conc. Joint Seals and Remark	\$ 1,557,000 \$ 321,000 tal \$1,878,000 \$ 128,000 \$ 80,000	on the back side of the exisiting Box Hangars built in 2009.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$150,000  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.  Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal Equipment.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$150,000  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.  Preventative maintenance on existing pavements. Repair failed concrete joints. Markings will be faded. Remark all existing markings.
2020 2019 2	Rehabilitate and Expand Apron with Lighting  SRE Equipment (Truck)  Fed \$1,784,100 - State \$46,950 - Local \$46,950 - To  Hangar Site Work  Rehabilitate Rwy and Txy Conc. Joint Seals and Remark  Fed \$197,600 - State \$5,200 - Local \$5,200 - 1	\$ 1,557,000 \$ 1,557,000 \$ 321,000 tal \$1,878,000 \$ 128,000 \$ 80,000 otal \$208,000 \$ 353,000	on the back side of the exisiting Box Hangars built in 2009.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$150,000  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.  Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal Equipment.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$150,000  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.  Preventative maintenance on existing pavements. Repair failed concrete joints. Markings will be faded. Remark all existing markings.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$178,400  Road will provide better access for users of hangars. Will increase safety and security by providing them
2021 2020 2019 2	Rehabilitate and Expand Apron with Lighting  SRE Equipment (Truck)  Fed \$1,784,100 - State \$46,950 - Local \$46,950 - To  Hangar Site Work  Rehabilitate Rwy and Txy Conc. Joint Seals and Remark Fed \$197,600 - State \$5,200 - Local \$5,200 - To	\$ 1,557,000 \$ 1,557,000 \$ 321,000 tal \$1,878,000 \$ 128,000 \$ 80,000 otal \$208,000 \$ 353,000	on the back side of the exisiting Box Hangars built in 2009.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$150,000  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.  Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal Equipment.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$150,000  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.  Preventative maintenance on existing pavements. Repair failed concrete joints. Markings will be faded. Remark all existing markings.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$178,400  Road will provide better access for users of hangars. Will increase safety and security by providing them with separate access road.
2020 2019 2	Rehabilitate and Expand Apron with Lighting  SRE Equipment (Truck)  Fed \$1,784,100 - State \$46,950 - Local \$46,950 - To  Hangar Site Work  Rehabilitate Rwy and Txy Conc. Joint Seals and Remark Fed \$197,600 - State \$5,200 - Local \$5,200 - To	\$ 1,557,000 \$ 321,000 tal \$1,878,000 \$ 128,000 \$ 80,000 otal \$208,000 \$ 353,000	on the back side of the exisitng Box Hangars built in 2009.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$150,000  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.  Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal Equipment.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$150,000  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.  Preventative maintenance on existing pavements. Repair failed concrete joints. Markings will be faded. Remark all existing markings.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$178,400  Road will provide better access for users of hangars. Will increase safety and security by providing them with separate access road.  Funds in addition to NPE are needed for this year.  Available Federal Entitlements (NPE) \$150,000

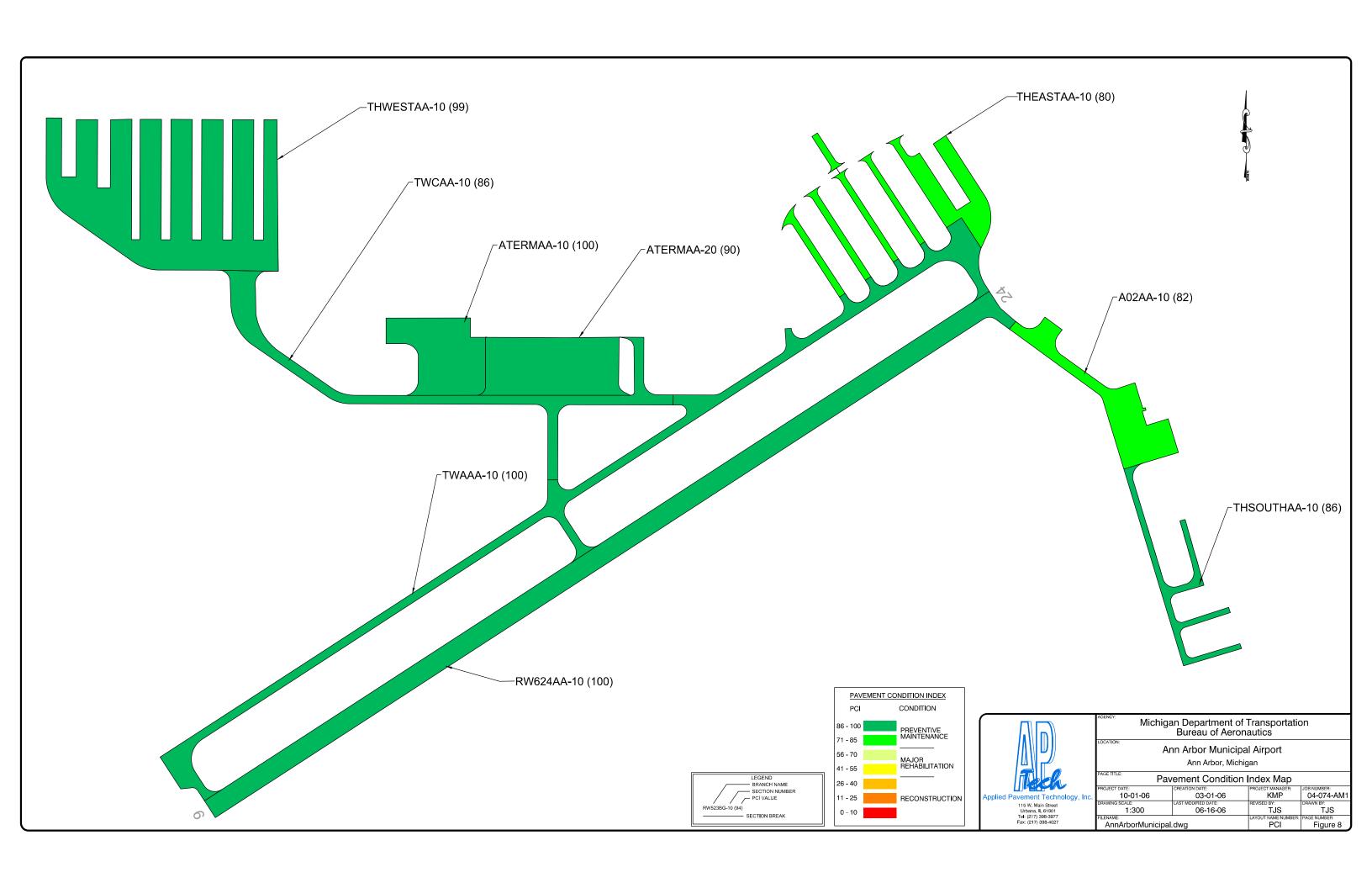
<sup>\*</sup> Includes Federal Cost of 95%, State Cost of 2.5%, and Local Cost of 2.5%. When costs excede available Federal Entitlements (NPE), additional funding will be needed from Federal Apportionment or Federal Discretionary funds.

#### MICHIGAN STATE BLOCK GRANT PROGRAM

### TEN-YEAR AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2012\* to FY-2022

			*ACI	IP includes current	development ye	ar (2012 already	programmed -	minor changes a	cceptable)		
Airport Name:	Ann Arbor Municipal Airport										Date prepared: 07-26-11
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 12/1/11
Development		Shown on ALP?	ACIP	NPIAS	Federal	Federal	Federal	State	Local	Total	Remarks/Item Justification - Provide as much detail as possible.
Year <b>2012</b>	Project Description	(Yes or No)	Code**	Priority Rating**  Available Entitlements	Entitlements	Apportionment		arryover from 2011.			
2012	Terminal Parking Lot Expansion & Relocate Airport Drive Phase I  800' Runway & Taxiway Extension Construction	Yes Yes	OT-OT-PA	19	\$ 199,500 \$ 500	\ .	43 \$50,500 W E 0	\$ 5,250	\$ 5,250 \$		The current parking lot is too small for daily usage. It is frequently at full capacity. To accomidate 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 occuring in 2012 this project will be designed and built in 2012.  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.
	Soo Hamay a rawnay Extended Conditioned.		G71111		\$ -	\$ -		10,000	\$	-	in to the factor of the factor
2013				Available Entitlements	\$ - \$ 150,000						
2010	Close Airport Drive (Gate and Fence Relocation)	Yes	ST-EQ-SE	43	\$ 76,950 \$ -	\$ - \$ -		\$ 2,025	\$	-	The current layout of the road and gates in the northeast corner of the airport makes it difficult to control access to the airport. A portion of this road will be closed and the fence and gates relocated to improve the control of access to the airport.
				Carryover	\$ - \$ 73,050	\$ -			\$	-	
2014			<i>,</i>	Available Entitlements							Existing access road is over 20 years old and needs rehabilitation. Bulivard will be added at north
	Rehabilitate Existing Airport Access Road Airport Signage (Local Only)	Yes Yes	OT-GT-AC	23 23	\$ 223,050 \$ - \$ -	\$ 87,600 \$ - \$ -		\$ 8,175 \$ -	\$ 8,175 \$ \$ 5,000 \$	5,000	o 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.
2015				Available Entitlements	\$ - \$ 150,000						
	Carryover for Future Project	\$ -			\$ -	\$ -		\$ -	\$ - \$	-	0
					\$ - \$ -	\$ - \$ -			9	-	
0010		1		Carryover	. ,	,		1			
2016	Terminal Building Expansion and Renovation	Yes	CA-TE-IM	Available Entitlements 44	\$ 288,800 \$ -	\$ - \$ -		\$ 7,600	\$ 7,600 \$	-	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.
				Carryover	\$ - \$ 11,200	\$ -			3	-	
2017		1	,	Available Entitlements				1	1		Existing equipment from city is aging and will need to be replaced. No FAA funding has been used
	SRE Equipment (Tractor with Broom)	NA	ST-EQ-SN	48	\$ 161,200 \$ -	\$ 8,850 \$ -		\$ 4,475	\$ 4,475 \$ \$	179,000	of or existing Snow Removal Equipment.
2018		1	,	Available Entitlements	\$ 150,000			1			Downson to an arise and will an advantage of DOI was 00 and 00 for the analysis in
	Reconstruct SE and NE Taxiways	Yes	RE-TW-IM	68	\$ 150,000			\$ 28,450			Pavements are aging and will need replacement. PCI was 80 and 82 for these pavements in 2005.  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.
	Taxilanes for New Box Hangars	Yes	ST-PB-MS	40	\$ - \$ -	\$ 183,350		\$ 4,825	\$ 4,825 \$	193,000	) will be on the back side of the existing Box Hangars built in 2009.
2019	Rehabilitate and Expand Apron with Lighting	Yes	RE-AP-IM	Available Entitlements 62	\$ 150,000 \$ 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.
	1 1 0 0										Existing equipment from city is aging and will need to be replaced. No FAA funding has been used
	SRE Equipment (Truck)	NA	ST-EQ-SN	48	\$ - \$ -	\$ 304,950		\$ 8,025	\$ 8,025 \$	321,000	O for existing Snow Removal Equipment.
2020			,	Available Entitlements	\$ 150,000						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
	Hangar Site Work	Yes	ST-PB-MS	40	\$ 121,600	\$ -		\$ 3,200	\$ 3,200 \$	128,000	) 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 jaded. Remark all existing markings.
2021				Available Entitlements	\$ 150,000						Road will provide better access for users of hangars. Will increase safety and security by
	Hangar Access Road Phase II	Yes	OT-GT-AC	23	\$ 150,000 \$ -	\$ 185,350 \$ -		\$ 8,825	\$ 8,825 \$	353,000	providing them with separate access road.
2022				Available Entitlements	\$ - \$ 150,000						
LUZZ				Transio Enduernerits	\$ -	\$ -				-	
				Carryover	\$ - \$ 150,000	\$ -				-	
**!				Carryover	Ψ 100,000						7/00/0044 4/45 DM MVD





(Preparer) William M. Malinowski, P.E.

#### **Ann Arbor Municipal Airport**

YEAR (PROJECT NUMBER): 2012(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
Mill Existing Pavement	2,000	SYD	\$ 2.00	\$ 4,000
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	800	Ton	\$ 85.00	\$ 68,000
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
				\$ =
				\$ =
				\$ =
				\$ -
<u>-</u>	_			\$ -
·				
	TOTAL CONSTI			\$ 168,060.00
	ENGINEERING			\$ 18,000.00
	CONSTRUCTIO			\$ 15,000.00
	CONTINGENCY	<b>,</b>	5%	\$ 8,403.00
	TOTAL*			\$ 210,000,00

 TOTAL\*
 \$ 210,000.00

 TOTAL FEDERAL DOLLARS
 95%
 \$ 199,500

 TOTAL STATE DOLLARS
 2.5%
 \$ 5,250

 TOTAL LOCAL DOLLARS
 2.5%
 \$ 5,250

#### **DESCRIPTION AND JUSTIFICATION:**

The current parking lot is too small for daily usage. It is frequently at full capacity. To accomidate 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 occuring in 2012 this project will be designed and built in 2012.

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

<sup>\*</sup> Amount rounded up to the nearest thousand dollars.

#### **Ann Arbor Municipal Airport**

YEAR (PROJECT NUMBER): 2012(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	\$ 2.50	\$ 9,500
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	\$ 42.00	\$ 630,000
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
				\$ -
				\$ 
		_		\$ =_
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TOTAL CONSTRUCTION \$ 1,520,450.00 **ENGINEERING FINAL DESIGN** CONSTRUCTION ADMIN. 135,000.00 CONTINGENCY 5% 76,022.50 TOTAL\* 1,732,000.00 TOTAL FEDERAL DOLLARS 95% \$ 1,645,400 TOTAL STATE DOLLARS 43,300 2.5% \$ TOTAL LOCAL DOLLARS 2.5% \$ 43,300 \* 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

(Preparer) William M. Malinowski, P.E.

#### **Ann Arbor Municipal Airport**

YEAR (PROJECT NUMBER): 2013(1)

**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	\$	25.00	\$	30,000
24' Motorized High Speed Vehicle Gate	1	Lump Sum	\$	20,000.00	\$	20,000
Signage	1	Lump Sum	\$	3,000.00	\$	3,000
Incidentals	1	Lump Sum	\$	4,000.00	\$	4,000
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	TOTAL CONSTR	RUCTION			\$	63,000.00
	ENGINEERING I	DESIGN			\$	5,000.00
	CONSTRUCTIO	N ADMIN.			\$	6,000.00
	CONTINGENCY			10%	\$	6,300.00
	TOTAL*				\$	81,000.00
	TOTAL FEDERA	L DOLLARS		95%	\$	76,950
	TOTAL STATE D		2.5%	\$ \$	2,025	
	TOTAL LOCAL D			2.5%	\$	2,025
	* Amount rounded up	-	sand de		Ψ	_,520

### DESCRIPTION AND JUSTIFICATION:

The current layout of the road and gates in the northeast corner of the airport makes it difficult to control access to the airport. A portion of this road will be closed and the fence and gates relocated to improve the control of access to the airport.

ALP STATUS	ENV.	PURPOSE:	Standards	6
	Categorical Ex.	COMPONENT:	Equipment	8
	Expected	TYPE:	Security Improvement	6
			PRIORITY NUMBER	43

#### **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
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	TOTAL CONSTR			\$ 268,300.00
	ENGINEERING			\$ 25,000.00
	CONSTRUCTIO			\$ 20,000.00
	CONTINGENCY		5%	\$ 13,415.00
	TOTAL*			\$ 327,000.00

TOTAL LOCAL DOLLARS 2.5% \* Amount rounded up to the nearest thousand dollars.

TOTAL FEDERAL DOLLARS

TOTAL STATE 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.	COMPONENT:	Gnd Transp	4
	Expected	TYPE:	Access	7
			PRIORITY NUMBER	23

\$

\$

\$

95%

2.5%

310,650

8,175

8,175

#### **Ann Arbor Municipal Airport**

YEAR (PROJECT NUMBER): 2014(2)
DESCRIPTION: Airport Signage (Local Only)

Work Item Description	Quantity	Unit	Price	Am	ount
Airport Signage	1	Lump Sum	\$ 5,000.00	\$	5,000
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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 5,000 100.0% \$ \* Amount rounded up to the nearest thousand dollars.

IPTION AND JUSTIFICAT will be added at north end of acce			

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

Ann Arbor Municipal Airport
YEAR (PROJECT NUMBER): 2015(1) **DESCRIPTION: Carryover for Future Project** 

Nork Item Description	Quantity	Unit	Price	Am	ount
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	TOTAL CONSTF ENGINEERING CONSTRUCTIO CONTINGENCY	DESIGN N ADMIN.		\$ \$	
	TOTAL*			\$	
	TOTAL 555.5		0=0/	•	
	TOTAL FEDERA		95%	\$ \$ \$	-
	TOTAL STATE [ TOTAL LOCAL [		2.5% 2.5%	\$	-
		p to the nearest thous		Ф	-
	Amount founded a	p to the healest thousa	ariu uoliais.		
DESCRIPTION AND JUSTIFICATION:					
ALP STATUS	ENV.	PURPOSE:		#	N/A

TYPE:

PRIORITY NUMBER

#N/A

#N/A

#### **Ann Arbor Municipal Airport**

YEAR (PROJECT NUMBER): 2016(1)

**DESCRIPTION: Terminal Building Expansion and Renovation** 

	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	\$	25.00	\$	75,000
Sitework (Sidewalks, Lawn, etc.)	1	LS	\$	12,000.00	\$	12,000
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		TOTAL CONSTRUCTION			\$	227,000.00
	ENGINEERING [				\$	30,000.00
	CONSTRUCTION	N ADMIN.			\$	35,000.00
	CONTINGENCY			5%	\$	11,350.00
	TOTAL*				\$	304,000.00

<sup>\*</sup> Amount rounded up to the nearest thousand dollars.

TOTAL FEDERAL DOLLARS

TOTAL STATE DOLLARS

TOTAL LOCAL 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:	Capacity	7
	Categorical Ex.	COMPONENT:	Terminal	1
	Expected	TYPE:	Improvements	8
		PRIORITY NUMBER		44

\$

\$

\$

95%

2.5%

2.5%

288,800

7,600 7,600

#### **Ann Arbor Municipal Airport**

YEAR (PROJECT NUMBER): 2017(1)

DESCRIPTION: SRE Equipment (Tractor with Broom)

Work Item Description	Quantity	Unit		Price		Amount
Tractor with Broom and Blower	1	LS	\$	165,000.00	\$	165,000
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	TOTAL CONSTR	TOTAL CONSTRUCTION			\$	165,000.00
	ENGINEERING DESIGN				\$	5,000.00
	CONSTRUCTION	I ADMIN.				
	CONTINGENCY			5%	\$	8,250.00
	TOTAL*				\$	179,000.00
	TOTAL FEDERAL	DOLLARS		95%	\$	170,050
		TOTAL FEDERAL DOLLARS TOTAL STATE DOLLARS			\$ \$ \$	4,475
	TOTAL STATE D			2.5% 2.5%	Φ	4,475

#### **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.

\* Amount rounded up to the nearest thousand dollars.

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