MICHIGAN AIRPORT DEVELOPMENT PROGRAM

AIP CAPITAL IMPROVEMENT PLAN 2013-2023

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 6, 2012

Date: 8/7/2012

TEN-YEAR AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2013 to FY-2023

Ann Arbor Municipal Airport - ARB

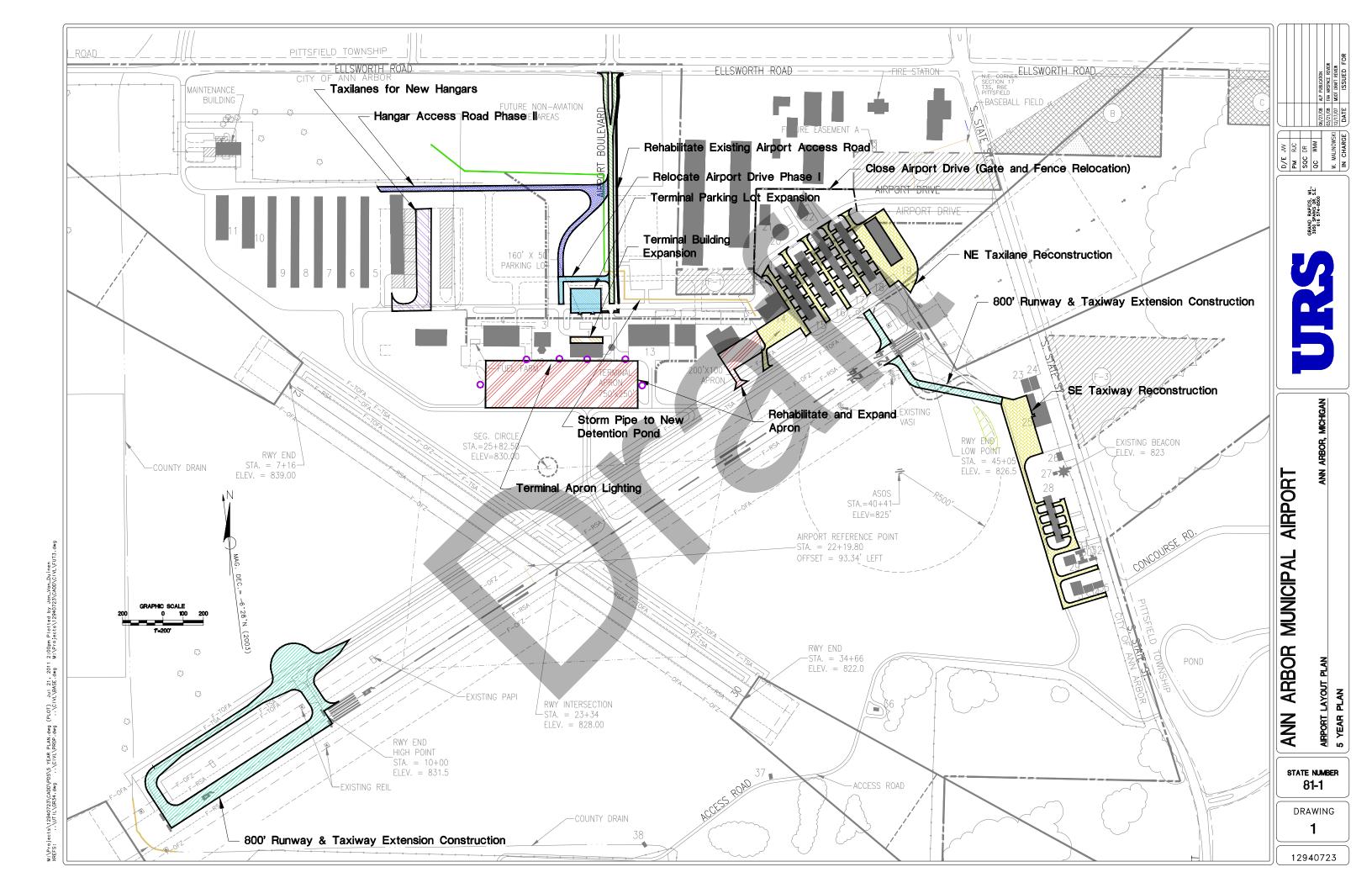
	Available Federal Entitlements (NPE) \$566,400 (\$416,400 Carryover from 2012)	
ന	Final Design and Approach Survey (Phase II) Runway Extension	\$215,000
2013	Terminal Parking Lot Expansion & Relocate Airport Drive Phase I	\$242,000
7	Communication 6455 400	// and 622 050\ Tatal 6457 000
	Carryover \$155,100 Available Federal Entitlements (NPE) \$305,100	(Local \$22,850) Total \$457,000
	Close Airport Drive (Gate and Fence Relocation)	\$111,000
14	800' Runway & Taxiway Extension Construction	\$1,920,000
2014	1000 Kuriway & Taxiway Exterision Construction	\$1,920,000
	\$1,522,800 in addition to NPE are needed for this year.	(Local \$101,550) Total \$2,031,000
	Available Federal Entitlements (NPE) \$150,000	
2	Rehabilitate Existing Airport Access Road	\$327,000
201	Airport Signage (Local Only)	\$5,000
7		
	\$144,300 in addition to NPE are needed for this year.	(Local \$16,600) Total \$332,000
	Available Federal Entitlements (NPE) \$150,000	
9	SRE Equipment (Tractor with Broom)	\$179,000
2016		
7	\$11,100 in addition to NPE are needed for this year.	(Local \$8,950) Total \$179,000
	Available Federal Entitlements (NPE) \$150,000	(Local \$8,930) Total \$179,000
	Carryover for Future Project	\$0
2017	i carryo veri ioni rattare i roject	
70		
	Carryover \$150,000	(Local \$0) Total \$0
•	Available Federal Entitlements (NPE) \$300,000	
2018	Terminal Building Expansion and Renovation	\$327,000
20	47.700	(
	Carryover \$5,700	(Local \$16,350) Total \$327,000
6	Available Federal Entitlements (NPE) \$155,700 Reconstruct SE and NE Taxiways	¢1 128 000
2019	Taxilanes for New Box Hangars	\$1,138,000 \$193,000
7	\$1,042,200 in addition to NPE are needed for this year.	(Local \$66,550) Total \$1,331,000
	Available Federal Entitlements (NPE) \$150,000	(2000) \$50,550, 1000 \$2,552,600
0	Rehabilitate and Expand Apron with Lighting	\$1,557,000
202	SRE Equipment	\$321,000
7	\$1,540,200 in addition to NPE are needed for this year.	(Local \$93,900) Total \$1,878,000
	Available Federal Entitlements (NPE) \$150,000	
2021	Hangar Site Work	\$128,000
20	Rehabilitate Rwy and Txy Conc. Joint Seals and Remark	\$80,000
	\$37,200 in addition to NPE are needed for this year.	(Local \$10,400) Total \$208,000
	Available Federal Entitlements (NPE) \$184,800	
2022	Hangar Access Road Phase II	\$353,000
7	\$122,000 in addition to NDE are needed for this year	(Local \$17,650) Total \$252,000
	\$132,900 in addition to NPE are needed for this year. Available Federal Entitlements (NPE) \$150,000	(Local \$17,650) Total \$353,000
m	Available reactal chancillents (INPE) \$150,000	
2023		
7	Carryover \$150,000	(Local \$0) Total \$0

Costs Include Federal Cost of 90%, State Cost of 5%, and Local Cost of 5%. When costs excede available Federal Entitlements (NPE), additional funding will be needed from Federal Apportionment, Federal Discretionary, or other funds.

MICHIGAN STATE BLOCK GRANT PROGRAM

TEN-YEAR AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2013* to FY-2023

				*	ACIP includes	current develor	oment vear (2013	3 already programm	ed - minor chang	nes acceptable)
Airport Name:	Ann Arbor Municipal Airpo	ort			7.0			o anoual programm	<u></u>	Date prepared: 08-06-12
Associated City:										Prepared By: URS Corporation
Sponsor:	City of Ann Arbor									Sponsor email address & phone: mjkulhanek@a2gov.org 734-994-2841
Airport Identifier:										FINAL ACIP due to MDOT AERO: no later than 12/1/12
Development		Shown on ALP?	ACIP	NPIAS	Federal	Federal	Federal	State	Local	Total
Year	Project Description	(Yes or No)		Priority Rating**		Apportionment		(00(1)		Remarks/Item Justification - Provide as much detail as possible.
2013			Ava	allable Entitlements	\$ 566,400	(\$150,000 NPE p	IUS \$416,400 NPE C	carryover from 2011.)		Final design will be done for the runway and taxiway extension project. An approach survey will also be completed to provide
	Final Design and Approach Survey (Phase II) Runway Extension	Yes	CA-RW-EX	56	\$ 193,500	¢		\$ 10,750 \$	10,750 \$	approach procedures for the new runway ends. An approach survey was started in 2009, but the data does not meet current 215,000 standards.
	Runway Extension	res	CA-RW-EX	56	\$ 193,500	Ф -		\$ 10,750 \$	10,750 \$	The current parking lot is too small for daily usage. It is frequently at full capacity. To accomodate current demand, additional
	Terminal Parking Lot Expansion & Relocate Airport Drive Phase I	Yes	CA-TE-IM	44	\$ 217,800	\$ -		\$ 12,100 \$	12,100 \$	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 242,000 EA prevents the runway construction from occurring in 2012 this project will be designed and built in 2012.
	Dilve Filase I	165	CA-TL-IIVI		\$ -	\$ -		\$ 12,100 \$	\$	- LA prevents the funway construction from occurring in 2012 this project will be designed and built in 2012.
2014			A14	Carryover ailable Entitlements	\$ 155,100					
2014			Ave	aliable Entitlements	φ 300,100					
	Close Airport Drive (Gate and Fence Relocation)	Yes	ST-EQ-SE	43	\$ 99,900	\$ -		\$ 5,550 \$	5,550 \$	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 111,000 portion of this road will be closed and the fence and gates relocated to improve the control of access to the airport.
	Close Aliport Drive (Gate and Ferice Relocation)	165	31-LQ-3L	43	φ 99,900	у -		\$ 5,550 \$	3,330 \$	
										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
	800' Runway & Taxiway Extension Construction	Yes	CA-RW-EX	56	\$ 205,200	\$ 1,522,800		\$ 96,000 \$	96,000 \$	1,920,000 side will be relocated to the new runway end. All taxiway and runway edge lights will be replaced with LED fixtures.
					\$ - \$ -	\$ -			\$	-
2015			Ava	ailable Entitlements	7					
	Rehabilitate Existing Airport Access Road	Yes	OT-GT-AC	23	\$ 150,000	\$ 144,300		\$ 16,350 \$	16,350 \$	Existing access road is over 20 years old and needs rehabilitation. Bulivard will be added at north end for better visibility and 327,000 signage. Signage will be a local only item.
	Airport Signage (Local Only)	Yes	OT-GT-AC	23	\$ 130,000	\$ -		\$ - \$	5,000 \$	5,000 Signage will be added at north end of access road to increase visibility.
					\$ - \$ -	\$ -			\$	
2016			Ava	ailable Entitlements	Ψ					
	SRE Equipment (Tractor with Broom)	NA	ST-EQ-SN	48	\$ 150,000	\$ 11,100		\$ 8,950 \$	8,950 \$	Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal 179,000 Equipment.
	SKE Equipment (Tractor with Broom)	INA	31-LQ-3N	40		\$ -		\$ 6,930 \$	\$	- Equipment.
					\$ - \$ -	\$ -			\$	-
2017			Δν	ailable Entitlements	¢ 450,000			$\overline{}$	_	
-			7170	aliable Entitlements	1		` _			
	Carryover for Future Project	\$ -		aliable Entitlements	\$ 150,000	\$ -		\$ - \$	- \$ \$	- 0 -
	Carryover for Future Project	-			\$ - \$ - \$ -	\$ - \$ - \$ -		\$ - \$	Ψ	•
	Carryover for Future Project	\$ -		Carryover	\$ - \$ - \$ 150,000	\$ - \$ - \$ -		\$ - \$	Ψ	- 1
2018			Ava	Carryover ailable Entitlements	\$ - \$ - \$ - \$ 150,000 \$ 300,000	\$ - \$ - \$ -			\$ \$	Existing terminal building is too small to meet current needs. Additional insulation will be added to existing building to conserve
	Carryover for Future Project Terminal Building Expansion and Renovation	\$ -		Carryover	\$ - \$ - \$ 150,000	\$ - \$ - \$ - \$ -		\$ - \$ \$ 16,350 \$	Ψ	
2018			Ava	Carryover ailable Entitlements 44 Carryover	\$ - \$ - \$ 150,000 \$ 300,000 \$ 294,300 \$ - \$ 5,700	\$ - \$ - \$ - \$ -			16,350 \$	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.
			Ava	Carryover ailable Entitlements 44	\$ - \$ - \$ 150,000 \$ 300,000 \$ 294,300 \$ - \$ 5,700 \$ 155,700	\$ - \$ - \$ - \$ - \$ -			16,350 \$	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.
2018	Terminal Building Expansion and Renovation Reconstruct SE and NE Taxiways	Yes	Av. CA-TE-IM Av. RE-TW-IM	Carryover ailable Entitlements 44 Carryover ailable Entitlements 68	\$ - \$ - \$ 150,000 \$ 300,000 \$ 294,300 \$ - \$ 5,700 \$ 155,700 \$ 155,700	\$ 868,500		\$ 16,350 \$ \$ 56,900 \$	16,350 \$ \$ 56,900 \$	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. 1,138,000 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
2018	Terminal Building Expansion and Renovation	Yes	Ava	Carryover ailable Entitlements 44 Carryover ailable Entitlements	\$ - \$ - \$ 150,000 \$ 300,000 \$ 294,300 \$ - \$ 5,700 \$ 155,700			\$ 16,350 \$	16,350 \$ \$	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. 1,138,000 Pavements are aging and will need replacement. PCI was 80 and 82 for these pavements in 2005.
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2018	Terminal Building Expansion and Renovation Reconstruct SE and NE Taxiways Taxilanes for New Box Hangars	Yes Yes Yes	Ava CA-TE-IM RE-TW-IM ST-PB-MS	Carryover ailable Entitlements 44 Carryover ailable Entitlements 68 40 ailable Entitlements	\$ - \$ - \$ 150,000 \$ 300,000 \$ 294,300 \$ - \$ 5,700 \$ 155,700 \$ 155,700 \$ - \$ - \$ -	\$ 868,500 \$ 173,700		\$ 16,350 \$ \$ 56,900 \$ \$ 9,650 \$	16,350 \$ \$ 56,900 \$ 9,650 \$	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. 1,138,000 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. 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 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
2018	Terminal Building Expansion and Renovation Reconstruct SE and NE Taxiways Taxilanes for New Box Hangars Rehabilitate and Expand Apron with Lighting	Yes Yes Yes Yes	Ava CA-TE-IM Ava RE-TW-IM ST-PB-MS Ava RE-AP-IM ST-EQ-SN	Carryover ailable Entitlements 44 Carryover ailable Entitlements 68 40 ailable Entitlements 62 48	\$ - \$ - \$ 150,000 \$ 300,000 \$ 294,300 \$ - \$ 5,700 \$ 155,700 \$ 155,700 \$ 155,700 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 868,500 \$ 173,700 \$ 1,251,300		\$ 16,350 \$ \$ 56,900 \$ \$ 9,650 \$	16,350 \$ \$ 56,900 \$ 9,650 \$	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. 1,138,000 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. 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
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2018	Terminal Building Expansion and Renovation Reconstruct SE and NE Taxiways Taxilanes for New Box Hangars Rehabilitate and Expand Apron with Lighting SRE Equipment	Yes Yes Yes NA	Ava CA-TE-IM RE-TW-IM ST-PB-MS Ava RE-AP-IM ST-EQ-SN	Carryover ailable Entitlements 44 Carryover ailable Entitlements 68 40 ailable Entitlements 62 48 ailable Entitlements	\$ - \$ - \$ 150,000 \$ 300,000 \$ 294,300 \$ - \$ 5,700 \$ 155,700 \$ 155,700 \$ - \$ - \$ 150,000 \$ - \$ 150,000	\$ 868,500 \$ 173,700 \$ 1,251,300		\$ 16,350 \$ \$ \$ 56,900 \$ \$ 9,650 \$ \$ \$ 16,050 \$	16,350 \$ \$ 56,900 \$ 9,650 \$ 77,850 \$ 16,050 \$	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. 1,138,000 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. 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. 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.
2018 2019 2020	Terminal Building Expansion and Renovation Reconstruct SE and NE Taxiways Taxilanes for New Box Hangars Rehabilitate and Expand Apron with Lighting SRE Equipment Hangar Site Work Rehabilitate Rwy and Txy Conc. Joint Seals and	Yes Yes Yes Yes	Ava CA-TE-IM Ava RE-TW-IM ST-PB-MS Ava RE-AP-IM ST-EQ-SN Ava	Carryover ailable Entitlements 44 Carryover ailable Entitlements 68 40 ailable Entitlements 62 48	\$ - \$ - \$ 150,000 \$ 300,000 \$ 294,300 \$ - \$ 5,700 \$ 155,700 \$ 155,700 \$ 155,700 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 868,500 \$ 173,700 \$ 1,251,300		\$ 16,350 \$ \$ 56,900 \$ \$ 9,650 \$ \$ 16,050 \$ \$ \$ 6,400 \$	16,350 \$ 16,350 \$ \$ 56,900 \$ 9,650 \$ 77,850 \$ 16,050 \$	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. 1,138,000 Pavements are aging and will need replacement. PCI was 80 and 82 for these pavements in 2005. New taxilianes 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. 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.
2018 2019 2020	Terminal Building Expansion and Renovation Reconstruct SE and NE Taxiways Taxilanes for New Box Hangars Rehabilitate and Expand Apron with Lighting SRE Equipment Hangar Site Work	Yes Yes Yes NA	Ava CA-TE-IM RE-TW-IM ST-PB-MS Ava RE-AP-IM ST-EQ-SN	Carryover ailable Entitlements 44 Carryover ailable Entitlements 68 40 ailable Entitlements 62 48 ailable Entitlements	\$ - \$ - \$ 150,000 \$ 300,000 \$ 294,300 \$ - \$ 5,700 \$ 155,700 \$ 155,700 \$ - \$ - \$ 150,000 \$ - \$ 150,000	\$ 868,500 \$ 173,700 \$ 1,251,300		\$ 16,350 \$ \$ \$ 56,900 \$ \$ 9,650 \$ \$ \$ 16,050 \$	16,350 \$ \$ 56,900 \$ 9,650 \$ 77,850 \$ 16,050 \$	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. 1,138,000 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. 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 321,000 Equipment. 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.
2018 2019 2020	Terminal Building Expansion and Renovation Reconstruct SE and NE Taxiways Taxilanes for New Box Hangars Rehabilitate and Expand Apron with Lighting SRE Equipment Hangar Site Work Rehabilitate Rwy and Txy Conc. Joint Seals and	Yes Yes Yes NA Yes	Ava CA-TE-IM Ava RE-TW-IM ST-PB-MS Ava RE-AP-IM ST-EQ-SN Ava ST-PB-MS RE-RW-IM	Carryover ailable Entitlements 44 Carryover ailable Entitlements 68 40 ailable Entitlements 62 48 ailable Entitlements 40	\$ - \$ 150,000 \$ 300,000 \$ 294,300 \$ 5,700 \$ 155,700 \$ 155,700 \$ 155,700 \$ 155,700 \$ - \$ - \$ 150,000 \$ - \$ 34,800 \$ -	\$ 868,500 \$ 173,700 \$ 1,251,300 \$ 288,900 \$ -		\$ 16,350 \$ \$ 56,900 \$ \$ 9,650 \$ \$ 16,050 \$ \$ \$ 6,400 \$	16,350 \$ 16,350 \$ \$ 56,900 \$ 9,650 \$ 77,850 \$ 16,050 \$	Existing terminal building is too small to meet current needs. Additional insulation will be added to existing building to conserve agr, which is a specific property. Renovations will be necessary to meet current ADA and other codes. 1,138,000 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. 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. 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
2018 2019 2020	Terminal Building Expansion and Renovation Reconstruct SE and NE Taxiways Taxilanes for New Box Hangars Rehabilitate and Expand Apron with Lighting SRE Equipment Hangar Site Work Rehabilitate Rwy and Txy Conc. Joint Seals and Remark	Yes Yes Yes NA Yes Yes	Ava CA-TE-IM RE-TW-IM ST-PB-MS Ava RE-AP-IM ST-EQ-SN Ava Ava Ava Ava	Carryover ailable Entitlements 44 Carryover ailable Entitlements 68 40 ailable Entitlements 40 72 ailable Entitlements	\$ - \$ - \$ 150,000 \$ 300,000 \$ 294,300 \$ 155,700 \$ 155,700 \$ 155,700 \$ 155,700 \$ - \$ - \$ 150,000 \$ - \$ 150,000 \$ 115,200 \$ 115,200	\$ 868,500 \$ 173,700 \$ 1,251,300 \$ 288,900 \$ - \$ 37,200		\$ 16,350 \$ \$ 56,900 \$ \$ 9,650 \$ \$ 16,050 \$ \$ 4,000 \$	16,350 \$ 16,350 \$ \$ 56,900 \$ 9,650 \$ 77,850 \$ 16,050 \$ 4,000 \$	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. 1,138,000 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. 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 the-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 plo 2005. Existing equipment from city is aging and will need to be replaced. No FAA funding has been used for existing Snow Removal Equipment. 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. Preventative maintenance on existing pavements. Repair failed concrete joints. Markings will be faded. Remark all existing markings. Road will provide better access for users of hangars. Will increase safety and security by providing them with separate access
2018 2019 2020	Terminal Building Expansion and Renovation Reconstruct SE and NE Taxiways Taxilanes for New Box Hangars Rehabilitate and Expand Apron with Lighting SRE Equipment Hangar Site Work Rehabilitate Rwy and Txy Conc. Joint Seals and	Yes Yes Yes NA Yes	Ava CA-TE-IM Ava RE-TW-IM ST-PB-MS Ava RE-AP-IM ST-EQ-SN Ava ST-PB-MS RE-RW-IM	Carryover ailable Entitlements 44 Carryover ailable Entitlements 68 40 ailable Entitlements 48 ailable Entitlements 40 72	\$ - \$ 150,000 \$ 300,000 \$ 294,300 \$ 5,700 \$ 155,700 \$ 155,700 \$ 155,700 \$ 155,700 \$ - \$ - \$ 150,000 \$ - \$ 34,800 \$ -	\$ 868,500 \$ 173,700 \$ 1,251,300 \$ 288,900 \$ -		\$ 16,350 \$ \$ 56,900 \$ \$ 9,650 \$ \$ 16,050 \$ \$ \$ 6,400 \$	16,350 \$ 16,350 \$ \$ 56,900 \$ 9,650 \$ 77,850 \$ 16,050 \$	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. 1,138,000 Pavements are aging and will need replacement. PCI was 80 and 82 for these pavements in 2005. New taxilianes 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. 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 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. 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. Preventative maintenance on existing pavements. Repair failed concrete joints. Markings will be faded. Remark all existing markings.
2018 2019 2020 2021	Terminal Building Expansion and Renovation Reconstruct SE and NE Taxiways Taxilanes for New Box Hangars Rehabilitate and Expand Apron with Lighting SRE Equipment Hangar Site Work Rehabilitate Rwy and Txy Conc. Joint Seals and Remark	Yes Yes Yes NA Yes Yes	AVA CA-TE-IM AVA RE-TW-IM ST-PB-MS AVA RE-AP-IM ST-EQ-SN AVA ST-PB-MS RE-RW-IM AVA OT-GT-AC	Carryover ailable Entitlements 44 Carryover ailable Entitlements 68 40 ailable Entitlements 40 72 ailable Entitlements 23	\$ - \$ 150,000 \$ 300,000 \$ 294,300 \$ 155,700 \$ 155,700 \$ 155,700 \$ 150,000 \$ - \$ - \$ 150,000 \$ 115,200 \$ 34,800 \$ - \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000	\$ 868,500 \$ 173,700 \$ 1,251,300 \$ 288,900 \$ - \$ 37,200 \$ 167,700		\$ 16,350 \$ \$ 56,900 \$ \$ 9,650 \$ \$ 16,050 \$ \$ 4,000 \$	16,350 \$ 16,350 \$ \$ 56,900 \$ 9,650 \$ 77,850 \$ 16,050 \$ 4,000 \$	Existing terminal building is too small to meet current needs. Additional insulation will be added to existing building to conserve 327,000 energy. Renovations will be necessary to meet current ADA and other codes. 1,138,000 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. 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 sers. 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 321,000 [Equipment. 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.
2018 2019 2020	Terminal Building Expansion and Renovation Reconstruct SE and NE Taxiways Taxilanes for New Box Hangars Rehabilitate and Expand Apron with Lighting SRE Equipment Hangar Site Work Rehabilitate Rwy and Txy Conc. Joint Seals and Remark	Yes Yes Yes NA Yes Yes	AVA CA-TE-IM AVA RE-TW-IM ST-PB-MS AVA RE-AP-IM ST-EQ-SN AVA ST-PB-MS RE-RW-IM AVA OT-GT-AC	Carryover ailable Entitlements 44 Carryover ailable Entitlements 68 40 ailable Entitlements 40 72 ailable Entitlements	\$ - \$ 150,000 \$ 300,000 \$ 294,300 \$ 155,700 \$ 155,700 \$ 155,700 \$ 150,000 \$ - \$ - \$ 150,000 \$ 115,200 \$ 34,800 \$ - \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000	\$ 868,500 \$ 173,700 \$ 1,251,300 \$ 288,900 \$ - \$ 37,200 \$ 167,700		\$ 16,350 \$ \$ 56,900 \$ \$ 9,650 \$ \$ 16,050 \$ \$ 4,000 \$	16,350 \$ 16,350 \$ \$ 56,900 \$ 9,650 \$ 77,850 \$ 16,050 \$ 4,000 \$	Existing terminal building is too small to meet current needs. Additional insulation will be added to existing building to conserve 327,000 energy. Renovations will be necessary to meet current ADA and other codes. 1,138,000 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. 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 sers. 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 321,000 [Equipment. 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.
2018 2019 2020 2021	Terminal Building Expansion and Renovation Reconstruct SE and NE Taxiways Taxilanes for New Box Hangars Rehabilitate and Expand Apron with Lighting SRE Equipment Hangar Site Work Rehabilitate Rwy and Txy Conc. Joint Seals and Remark	Yes Yes Yes NA Yes Yes	AVA CA-TE-IM AVA RE-TW-IM ST-PB-MS AVA RE-AP-IM ST-EQ-SN AVA ST-PB-MS RE-RW-IM AVA OT-GT-AC	Carryover ailable Entitlements 44 Carryover ailable Entitlements 68 40 ailable Entitlements 40 72 ailable Entitlements 23 ailable Entitlements	\$ - \$ 150,000 \$ 300,000 \$ 294,300 \$ 155,700 \$ 155,700 \$ 155,700 \$ 150,000 \$ - \$ - \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000	\$ 868,500 \$ 173,700 \$ 1,251,300 \$ 288,900 \$ - \$ 37,200 \$ 167,700 \$ -		\$ 16,350 \$ \$ 56,900 \$ \$ 9,650 \$ \$ 16,050 \$ \$ 4,000 \$	16,350 \$ 16,350 \$ \$ 56,900 \$ 9,650 \$ 77,850 \$ 16,050 \$ 4,000 \$	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. 1,138,000 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. 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 the 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. 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.



Consultant **URS Corporation**

(Preparer) William M. Malinowski, P.E

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2013(1)

DESCRIPTION: Final Design and Approach Survey (Phase II) Runway Extension

Work Item Description	Quantity	Unit	Price	mount
Approach Survey Final Design	1	Lump Sum	\$ 115,000.00	\$ 115,000
Final Design	1	Lump Sum	\$ 100,000.00	\$ 100,000
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	TOTAL CONSTR	RUCTION		\$ 215,000.00

TOTAL CONSTRUCTION ENGINEERING FINAL DESIGN CONSTRUCTION ADMIN. CONTINGENCY TOTAL*

215,000.00

TOTAL FEDERAL DOLLARS \$ 90% 193,500 TOTAL STATE DOLLARS 5.0% 10,750 \$ TOTAL LOCAL DOLLARS 5.0% \$ 10,750

DESCRIPTION AND JUSTIFICATION:

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.

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

^{*} Amount rounded up to the nearest thousand dollars.

YEAR (PROJECT NUMBER): 2013(2)

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

Work Item Description	Quantity	Unit	Price	Aı	mount
Mobilization	1	Lump Sum	\$ 15,000.00	\$	15,000
Safety & Security	1	Lump Sum	\$ 3,000.00	\$	3,000
Saw Cut and Seal pavemen	200	LFT.	\$ 5.00	\$	1,000
Mill Existing Pavemen	2,000	SYD	\$ 2.00	\$	4,000
Unclassified Excavatior	1,600	CYD.	\$ 5.00	\$	8,000
Granular Sub-base 12'	800	CYD.	\$ 14.00	\$	11,200
Aggregate Base Course	400	CYD.	\$ 30.00	\$	12,000
Curb & Gutter	500	LFT.	\$ 22.00	\$	11,000
Bituminous Pavement	800	Ton	\$ 95.00	\$	76,000
Marking	1	Lump Sum	\$ 2,500.00	\$	2,500
Underdrain	1,250	LFT.	\$ 8.50	\$	10,625
Restoration	1	LS	\$ 5,000.00	\$	5,000
Ditch/curb Work	1,680	LFT.	\$ 12.00	\$	20,160
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	TOTAL CONSTE	DUCTION	/	\$	179 485 00

TOTAL CONSTRUCTION		\$ 179,485.00
ENGINEERING DESIGN		\$ 23,000.00
CONSTRUCTION ADMIN.		\$ 30,000.00
CONTINGENCY	5%	\$ 8,974.25
TOTAL*		\$ 242,000.00
TOTAL FEDERAL DOLLARS	90%	\$ 217,800
TOTAL STATE DOLLARS	5.0%	\$ 12 100

5.0%

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 occuring in 2012 this project will be designed and built in 2012.

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

12,100

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

Consultant **URS Corporation**

(Preparer) William M. Malinowski, P.E

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2014(1)

DESCRIPTION: Close Airport Drive (Gate and Fence Relocation

Work Item Description	Quantity	Unit	Price	Α	mount
Mobilization	1	Lump Sum	\$ 5,000.00	\$	5,000
Safety & Security	1	Lump Sum	\$ 1,000.00	\$	1,000
Relocate/New Fence	1,400	LFT	\$ 24.00	\$	33,600
24' Motorized High Speed Vehicle Gat	2	Lump Sum	\$ 20,000.00	\$	40,000
Signage	1	Lump Sum	\$ 3,000.00	\$	3,000
Incidentals	1	Lump Sum	\$ 5,000.00	\$	5,000
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	TOTAL CONSTI	RUCTION	7	\$	87,600.00

TOTAL CONSTRUCTION	<u> </u>	\$ 87,600.00
ENGINEERING DESIGN		\$ 6,000.00
CONSTRUCTION ADMIN.		\$ 8,000.00
CONTINGENCY	10%	\$ 8,760.00
TOTAL*		\$ 111,000.00
TOTAL FEDERAL DOLLARS	90%	\$ 99,900
TOTAL STATE DOLLARS	5.0%	\$ 5.550

5.0%

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. COMPONEN		Equipment	8
	Expected	TYPE:	Security Improvement	6
			PRIORITY NUMBER	43

5,550

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

YEAR (PROJECT NUMBER): 2014(2)

DESCRIPTION: 800' Runway & Taxiway Extension Construction

Work Item Description	Quantity	Unit	Price	Amount
Mobilization and Safety Security	1	Lump Sum	\$ 170,000.00	\$ 170,000
Pavement Remova	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	\$ 3.25	\$ 12,350
#6 Solid Counterpoise Wire	3,800	LFT	\$ 2.75	\$ 10,450
Replace Existing Txy Lights with LED Lamp	218	Each	\$ 650.00	\$ 141,700
Replace Existing Rwy Lights with LED Lamp	40	Each	\$ 650.00	\$ 26,000
Relocate Existing VAS	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 Excavatior	40,000	CYD	\$ 4.50	\$ 180,000
Drainage	1	Lump Sum	\$ 40,000.00	\$ 40,000
Underdrains	3,800	LFT	\$ 8.50	\$ 32,300
12 Inch Subbase	5,400	CYD	\$ 14.75	\$ 79,650
6 Inch Aggregate Base Course	2,700	CYD	\$ 32.00	\$ 86,400
6 Inch Concrete Pavemen	15,000	SYD	\$ 46.00	\$ 690,000
Runway Grooving	12,000	SYD	\$ 2.00	\$ 24,000
Turfing & Mulching	5	Acres	\$ 2,500.00	\$ 12,500
Marking	1	Lump Sum	\$ 50,000.00	\$ 50,000
Approach Markers	8	Each	\$ 450.00	\$ 3,600
Centerline monumen	2	Each	\$ 1,200.00	\$ 2,400
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TOTAL CONSTRUCTION \$ 1,698,350.00
ENGINEERING FINAL DESIGN
CONSTRUCTION ADMIN. \$ 140,000.00
CONTINGENCY 5% \$ 81,000.00
TOTAL*

 TOTAL FEDERAL DOLLARS
 90%
 \$ 1,728,000

 TOTAL STATE DOLLARS
 5.0%
 \$ 96,000

 TOTAL LOCAL DOLLARS
 5.0%
 \$ 96,000

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

 $^{^{\}star}$ Amount rounded up to the nearest thousand dollars.

YEAR (PROJECT NUMBER): 2015(1)

DESCRIPTION: Rehabilitate Existing Airport Access Road

Work Item Description	Quantity	Unit	Price	Α	mount
Mobilization	1	Lump Sum	\$ 20,000.00		20,000
Safety & Security	1	Lump Sum	\$ 3,500.00		3,500
Mill Existing Pavemen	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 ditcl	2,000	CYD	\$ 4.00		8,000
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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	90%	\$ 294,300

TOTAL FEDERAL DOLLARS
 90%
 \$ 294,300

 TOTAL STATE DOLLARS
 5.0%
 \$ 16,350

 TOTAL LOCAL DOLLARS
 5.0%
 \$ 16,350

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
	Categorical Ex.	COMPONENT:	Gnd Transp	4
	Expected	TYPE:	Access	7
			PRIORITY NUMBER	23

^{*} Amount rounded up to the nearest thousand dollars.

YEAR (PROJECT NUMBER): 2015(2)
DESCRIPTION: Airport Signage (Local Only)

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

TOTAL CONSTRUCTION ENGINEERING DESIGN 5,000.00 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.

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

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

YEAR (PROJECT NUMBER): 2016(1)

DESCRIPTION: SRE Equipment (Tractor with Broom)

Work Item Description	Quantity	Unit	Price	Δ	Mount
Tractor with Broom and Blowe	1	LS	\$ 165,000.00	\$	165,000
Tractor with broom and blowe	'	LO	φ 105,000.00	\$	103,000
				\$	-
				\$	
				\$	_
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				\$	-
	TOTAL CONST	PLICTION		Φ.	165 000 00
	ENGINEERING	DESIGN		\$ \$	165,000.00 5,000.00

5,000.00 CONSTRUCTION ADMIN. CONTINGENCY 5% 8,250.00 TOTAL* 179,000.00 TOTAL FEDERAL DOLLARS \$ 90% 161,100 TOTAL STATE DOLLARS 5.0% \$ 8,950 TOTAL LOCAL DOLLARS 5.0% \$ 8,950

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
	Categorical Ex.	COMPONENT:	Equipment	8
	Expected	TYPE:	Snow Removal Eq	9
			PRIORITY NUMBER	48

^{*} Amount rounded up to the nearest thousand dollars.

Consultant URS Corporation (Preparer) William M. Malinowski, P.E

Ann Arbor Municipal Airport
YEAR (PROJECT NUMBER): 2017(1)
DESCRIPTION: Carryover for Future Project

Work Item Description	Quantity	Unit	Price	Am	ount
				\$	-
				\$	-
				\$	-
				\$	
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	TOTAL CONST ENGINEERING CONSTRUCTIO CONTINGENCY	DESIGN ON ADMIN.		\$ \$	
	TOTAL*			\$	
	TOTAL FEDER	AL DOLLADO	000/	Φ.	
	TOTAL FEDERATOTAL STATE	DOLLARS	90% 5.0%	Φ	-
	TOTAL LOCAL	DOLLARS up to the nearest thousa	5.0%	\$ \$ \$	-
DESCRIPTION AND JUSTIFICATION:					
ALP STATUS	ENV.	PURPOSE:		#1	N/A
		COMPONENT:			V/A
		TYPE:			N/A N/A

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

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2018(1)

DESCRIPTION: Terminal Building Expansion and Renovation

	Quantity	Unit	Price	A	mount
Building Expansior New Green Root	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 CONST				

TOTAL CONSTRUCTION		\$	227,000.00
ENGINEERING DESIGN		\$	30,000.00
CONSTRUCTION ADMIN.		\$	35,000.00
CONTINGENCY	15%	\$	34,050.00
TOTAL*		\$	327,000.00
TOTAL*		\$	327,000.00
TOTAL* TOTAL FEDERAL DOLLARS	90%	\$ \$	327,000.00 294,300
	90% 5.0%	\$ \$ \$,

TOTAL LOCAL DOLLARS \$ 5.0% * 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:	Capacity	7
	Categorical Ex.	COMPONENT:	Terminal	1
	Expected	TYPE:	Improvements	8
			PRIORITY NUMBER	44

16,350

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2019(1)

DESCRIPTION: Reconstruct SE and NE Taxiways

Work Item Description	Quantity	Unit	Price	Α	mount
•					
Mobilization	1	Lump Sum	\$ 80,000.00	\$	80,000
Safety & Security	1	Lump Sum	\$ 10,000.00	\$	10,000
Unclassified Excavatior	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 Pavemen	25,388	SYD	\$ 1.50	\$	38,082
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	TOTAL CONSTE			\$	936 082 32

 TOTAL CONSTRUCTION
 \$ 936,082.32

 ENGINEERING DESIGN
 \$ 75,000.00

 CONSTRUCTION ADMIN.
 \$ 80,000.00

 CONTINGENCY
 5%
 \$ 46,804.12

 TOTAL*
 \$ 1,138,000.00

 TOTAL FEDERAL DOLLARS
 90%
 \$ 1,024,200

 TOTAL STATE DOLLARS
 5.0%
 \$ 56,900

 TOTAL LOCAL DOLLARS
 5.0%
 \$ 56,900

* 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
	Categorical Ex.	COMPONENT:	Taxiway	8
Expected	Expected	TYPE:	Improvements	8
			PRIORITY NUMBER	68

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2019(2)

DESCRIPTION: Taxilanes for New Box Hangars

Quantity	Unit	Price	Α	mount
1	Lump Sum			10,000
1				1,500
2,400				9,600
1,600	CYD.		\$	19,200
800	CYD.			22,400
900	Ton	\$ 85.00	\$	76,500
1				1,000
1,800		\$ 8.00		14,400
1	LS	\$ 3,000.00	\$	3,000
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	1 1 2,400 1,600 800 900 1 1 1,800 1	1 Lump Sum 1 Lump Sum 2,400 CYD. 1,600 CYD. 800 CYD. 900 Ton 1 Lump Sum	1	1

TOTAL CONSTRUC	CTION		\$ 157,600.00
ENGINEERING DES	SIGN		\$ 12,000.00
CONSTRUCTION A	DMIN.		\$ 15,000.00
CONTINGENCY		5%	\$ 7,880.00
TOTAL*			\$ 193,000.00

TOTAL FEDERAL DOLLARS
 90%
 \$ 173,700

 TOTAL STATE DOLLARS
 5.0%
 \$ 9,650

 TOTAL LOCAL DOLLARS
 5.0%
 \$ 9,650

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 exisiting Box Hangars built in 2009.

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

 $^{^{\}star}$ Amount rounded up to the nearest thousand dollars.

YEAR (PROJECT NUMBER): 2020(1)

DESCRIPTION: Rehabilitate and Expand Apron with Lighting

Quantity	Unit		Price	-	Amount
				\$	-
1			15,000.00	\$	15,000
1			5,000.00	\$	5,000
21,000	SYD	\$	1.50	\$	31,500
21,000	SYD	\$	40.00	\$	840,000
				\$	-
				\$	-
3,200	CYD.	\$	4.00	\$	12,800
1,500	CYD.	\$	30.00	\$	45,000
1,700	Tons	\$	90.00	\$	153,000
800	LFT.	\$	1.00	\$	800
2,400	LFT.	\$	2.00	\$	4,800
800	LFT.	\$	3.00	\$	2,400
100	LFT.	\$	35.00	\$	3,500
6	Each	\$	7,000.00	\$	42,000
1,200	SFT.	\$	0.50	\$	600
2	Acres	\$	2,000.00	\$	3,700
60	Each	\$	600.00	\$	36,000
				\$	
				\$	-
2,000	LFT.	\$	2.00	\$	4,000
600	LFT.	\$	2.00	\$	1,200
8	Each	\$	9,000.00	\$	72,000
				\$	=
				\$	-
				\$	-
				\$	-
	1 1 21,000 21,000 3,200 1,500 1,700 800 2,400 800 100 6 1,200 2 60	1 Lump Sum 1 Lump Sum 21,000 SYD 21,000 SYD 21,000 SYD 3,200 CYD. 1,500 CYD. 1,700 Tons 800 LFT. 2,400 LFT. 800 LFT. 6 Each 1,200 SFT. 2 Acres 60 Each 2,000 LFT. 600 LFT.	1 Lump Sum \$ 1 Lump Sum \$ 21,000 SYD \$ 21,000 SYD \$ 21,000 CYD. \$ 1,500 CYD. \$ 1,700 Tons \$ 800 LFT. \$ 2,400 LFT. \$ 800 LFT. \$ 100 LFT. \$ 6 Each \$ 1,200 SFT. \$ 2 Acres \$ 60 Each \$ \$ 2,000 LFT. \$ 8 Each \$ \$ 600 LFT. \$ 8 Each \$ \$ 600 LFT. \$ 8 Each \$ 8 Each \$ 8 Each \$	1 Lump Sum \$ 15,000.00 1 Lump Sum \$ 5,000.00 21,000 SYD \$ 1.50 21,000 SYD \$ 40.00 3,200 CYD. \$ 4.00 1,500 CYD. \$ 30.00 1,700 Tons \$ 90.00 800 LFT. \$ 1.00 2,400 LFT. \$ 2.00 800 LFT. \$ 3.00 100 LFT. \$ 35.00 6 Each \$ 7,000.00 1,200 SFT. \$ 0.50 2 Acres \$ 2,000.00 60 Each \$ 600.00 2,000 LFT. \$ 2.00 600 LFT. \$ 2.00 600 LFT. \$ 2.00 600 Each \$ 9,000.00	1 Lump Sum \$ 15,000.00 \$ 1 Lump Sum \$ 5,000.00 \$ 21,000 SYD \$ 1.50 \$ 21,000 SYD \$ 40.00 \$ 3,200 CYD. \$ 4.00 \$ 1,500 CYD. \$ 30.00 \$ 1,700 Tons \$ 90.00 \$ 800 LFT. \$ 1.00 \$ 2,400 LFT. \$ 2.00 \$ 800 LFT. \$ 35.00 \$ 100 LFT. \$ 35.00 \$ 6 Each \$ 7,000.00 \$ 1,200 SFT. \$ 0.50 \$ 2 Acres \$ 2,000.00 \$ 60 Each \$ 600.00 \$ 2,000 LFT. \$ 2.00 \$ 61 Each \$ 600.00 \$ 62 Each \$ 600.00 \$ 63 Each \$ 600.00 \$ 64 Each \$ 600.00 \$ 55 Each \$ 600.00 \$ 65 Each \$ 600.00 \$ 66 Each \$ 600.00 \$ 67 Each \$ 600.00 \$ 68 Each \$ 600.00 \$ 69 Each \$ 600.00 \$ 80 Each \$ 9,000.00 \$ 80

 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
 90%
 \$ 1,401,300

 TOTAL STATE DOLLARS
 5.0%
 \$ 77,850

 TOTAL LOCAL DOLLARS
 5.0%
 \$ 77,850

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

^{*} Amount rounded up to the nearest thousand dollars.

YEAR (PROJECT NUMBER): 2020(2)

DESCRIPTION: SRE Equipment

Work Item Description	Quantity	Unit	Price		Amount
				\$	-
SRE Equipment	1	LS	\$ 300,000.00	\$	300,000
				\$	-
				\$	=
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	TOTAL CONICTE	PUCTION		L ¢	300,000.00
	TOTAL CONSTR ENGINEERING	DESIGN		\$ \$	6,000.00
	CONSTRUCTIO	N ADMIN		Ф	0,000.00
	CONTINGENCY	IN ADIVIIN.	5%	\$	15,000.00
	CONTINGENCE		J /0	Þ	13,000.00

TOTAL FEDERAL DOLLARS 90% \$ 288,900 TOTAL STATE DOLLARS 5.0% \$ 16,050 TOTAL LOCAL DOLLARS 5.0% \$ 16,050 * 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.

TOTAL*

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

321,000.00

Ann Arbor Municipal Airport

YEAR (PROJECT NUMBER): 2021(1)

DESCRIPTION: Hangar Site Work

Work Item Description	Quantity	Unit	Price	Α	mount
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
Orainage Structures	3	Lump Sum	\$ 2,000.00	\$	6,000
24" Storm Pipe	1,000	LFT	\$ 38.00	\$	38,000
Pavement Restoratior	1	Lump Sum	\$ 20,000.00	\$	20,000
				\$	-
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	TOTAL CONSTI	RUCTION		\$	97,600.0
	ENGINEERING		15%	\$	15,000.0

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	90%	\$ 115,200
TOTAL STATE DOLLARS	5.0%	\$ 6,400
TOTAL LOCAL DOLLARS	5.0%	\$ 6,400

^{*} 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	ENV.	PURPOSE:	Standards	6
Yes	Categorical Ex.	COMPONENT:	Public Bldg	7
	Expected	TYPE:	Misc.	5
			PRIORITY NUMBER	40

YEAR (PROJECT NUMBER): 2021(2)

DESCRIPTION: Rehabilitate Rwy and Txy Conc. Joint Seals and Remarl

Work Item Description	Quantity	Unit	Price	Ar	nount
Mobilization & Safety Security	1	Lump Sum	\$ 3,000.00	\$	3,000
Joint Seal	5,000	LFT	\$ 5.00	\$	25,000
Paint Marking	1	LS	\$ 40,000.00	\$	40,000
				\$	-
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	TOTAL CONST				

TOTAL CONSTRUCTION		\$	68,000.00
ENGINEERING DESIGN		\$	5,000.00
CONSTRUCTION ADMIN.		\$	3,000.00
CONTINGENCY	5%	\$	3,400.00
TOTAL*		\$	80,000.00
TOTAL FEDERAL DOLLARS	90%	\$	72,000
TOTAL OTATE DOLLARD			
TOTAL STATE DOLLARS	5.0%	\$	4,000
TOTAL STATE DOLLARS	5.0% 5.0%	\$ \$	4,000 4,000

^{*} Amount rounded up to the nearest thousand dollars.

DESCRIPTION AND JUSTIFICATION:

Preventative maintenance on existing pavements. Repair failed concrete joints. Markings will be faded. Remark all existing markings.

ALP STATUS	ENV.	PURPOSE:	Reconstruction	8
Yes	Categorical Ex. Expected	COMPONENT:	Runway	10
		TYPE:	Improvements	8
			PRIORITY NUMBER	72

YEAR (PROJECT NUMBER): 2022(1)

DESCRIPTION: Hangar Access Road Phase I

Work Item Description	Quantity	Unit	Price	Α	mount
Mobilization	1	Lump Sum	\$ 25,000.00	\$	25,000
Safety & Security	1	Lump Sum	\$ 8,000.00	\$	8,000
Saw Cut and Seal Pavemen	216	LFT	\$ 5.00	\$	1,080
Unclassified Excavatior	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
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	TOTAL CONSTE			\$	249 700 00

TOTAL CONSTRUCTION 249,700.00 ENGINEERING DESIGN \$ 45,000.00 CONSTRUCTION ADMIN. CONTINGENCY 45,000.00 5% 12,485.00 TOTAL* 353,000.00 TOTAL FEDERAL DOLLARS \$ 90% 317,700 TOTAL STATE DOLLARS 5.0% \$ 17,650 TOTAL LOCAL DOLLARS 5.0% \$ 17,650

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	23

^{*} Amount rounded up to the nearest thousand dollars.

