

FIVE-YEAR AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP)

Airport Name: Muscatine Municipal Airport

Telephone: 319.377.4629

Prepared By: Jayne DeCoste, Anderson Bogert

Date Approved: _____

Date Prepared: 1/23/14

Project Description	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
Connector Road between Hangar Access Road and T-Hangars	Federal State Local Total	\$ 0 \$ 99,450 \$ 17,550 \$ 117,000	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$
Reconstruct Runway 6/24	Federal State Local Total	\$ 3,796,940 \$ 0 \$ 421,882 \$ 4,218,822	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$
Pavement Maintenance - Apron, Runway 12/30, and Taxiway B	Federal State Local Total	\$ \$ \$ \$	\$ 0 \$ 85,000 \$ 15,000 \$ 100,000	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$
Update Master Plan (ALP)	Federal State Local Total	\$ \$ \$ \$	\$ 166,500 \$ 0 \$ 18,500 \$ 185,000	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$
Taxiway A Design & Reconstruction	Federal State Local Total	\$ \$ \$ \$	\$ \$ \$ \$	\$ 1,910,479 \$ 0 \$ 212,275 \$ 2,122,754	\$ \$ \$ \$	\$ \$ \$ \$
Upgrade Fuel Facility (with submersible pump) - no self service included	Federal State Local Total	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$	\$ 0 \$ 157,250 \$ 27,750 \$ 185,000	\$ \$ \$ \$

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Project Description	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
Airfield Pavement Maintenance	Federal State Local Total	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$ 0 85,000 15,000 100,000
2018 & 2019 - Accrue Federal Funding for T-hangers (see LRNA FY 2021)	Federal State Local Total	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$
	Federal State Local Total	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$
	Federal State Local Total	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$
	Federal State Local Total	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$
	Federal State Local Total	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$	\$ \$ \$ \$

AIRPORT LONG RANGE NEEDS ASSESSMENT

FFY 2020 – FFY 2024

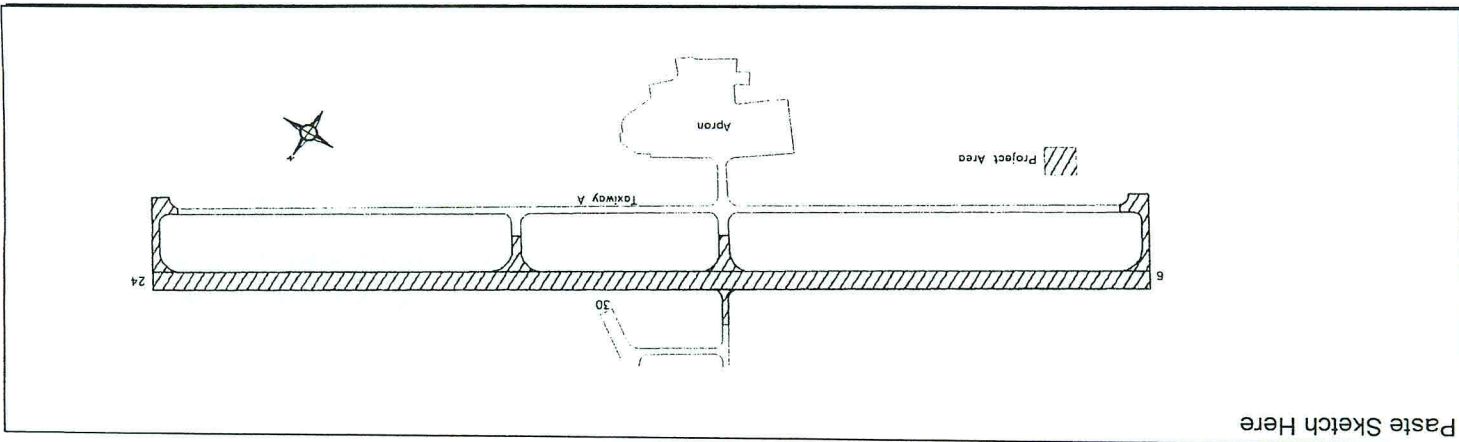
Airport Name: Muscatine Municipal Airport

Description of Project (include estimated Fiscal Year)		Funding Source	Total Estimated Cost
FY 2021 T-Hangar Apron Expansion & T-Hangar Construction		Federal:	\$ 600,000
		State:	\$ 0
		Local:	\$ 93,000
		Total:	\$ 693,000
FY 2022 Airfield Pavement Maintenance		Federal:	\$ 0
		State:	\$ 85,000
		Local:	\$ 15,000
		Total:	\$ 100,000
FY 2023 T-Hangar Apron Pavement Replacement		Federal:	\$ 0
		State:	\$ 212,500
		Local:	\$ 37,500
		Total:	\$ 250,000
FY 2024 T-Hangar Reconstruction		Federal:	\$ 405,000
		State:	\$ 0
		Local:	\$ 45,000
		Total:	\$ 450,000
FY 2025 Airfield Pavement Maintenance		Federal:	\$ 0
		State:	\$ 85,000
		Local:	\$ 15,000
		Total:	\$ 100,000
FY 2026 Snow Removal Equipment Building/Municipal Hangar		Federal:	\$ 150,000
		State:	\$ 270,000
		Local:	\$ 230,000
		Total:	\$ 650,000

CIP DATA SHEET

AIRPORT	PROJECT	DESCRIPTION	Identify FFY that you desire to construct (FFY: Oct. 1-Sept. 30)	2014
Muscatine Municipal	Design Only Runway 6/24	LOCAL PRIORITY	MUT	1

SKETCH:



JUSTIFICATION:

For the last five years, the airport has experienced six pavement blow-ups on the main runway and its parallel taxiway; these blow-ups have required emergency patching. According to the December 2010 Iowa DOT Pavement Management Report, the PCI of 85% of Runway 6/24 was listed as 70. In 2013, The City hired a consultant to perform a petrographic analysis, which concluded that ASR was causing expansion in the concrete that slowly caused the control and expansion joints in the pavement to close, making the pavement vulnerable to blow-ups in hot weather. The consultant expects these blow-ups to continue. Therefore, the City has decided to pursue an aggressive plan to fully reconstruct Runway 6/24 and its parallel and connecting taxiways.

COST ESTIMATE: (Attach detailed cost estimate)

Federal(90%)	State	Local (10%)	Total
\$487,181	\$0	\$54,132	\$541,313

SPONSOR'S VERIFICATION:	Date
For each and every project as applicable	4/23/02
- Date of approved ALP with project shown	1989
- Date of environmental determination (ROD, FONSI, CE), or cite CE paragraph # (307-312) in Order 1050.1E	N/A
- Date of land acquisition or signed purchase agreement	1/1995
- Date of pavement maintenance program	N/A
- Snow removal equipment inventory & sizing worksheet (for SRE acquisition)	N/A
- Apron sizing worksheet (for apron projects)	N/A
- Revenue producing facilities (for fuel farms, hangers, etc.)	N/A
- Date statement submitted for completed airside development	N/A
- Date statement submitted for runway approaches are clear of obstructions	N/A

SPONSOR'S SIGNATURE: _____

PRINTED NAME: Steve Boka TITLE: Director of Community Development

PHONE NUMBER: 563-262-4141

FAA USE ONLY

PREAPP NUMBER	GRANT NUMBER	NPIAS CODE	WORK CODE	FAA PRIORITY	FEDERAL \$
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AIRPORT	Muscatine Municipal			PROJECT DESCRIPTION	Identify FFY that you desire to construct (FFY: Oct. 1-Sept. 30)	2014
		LOCAL ID	MUT	Design Only Runway 6/24		1

Preliminary Cost Opinion

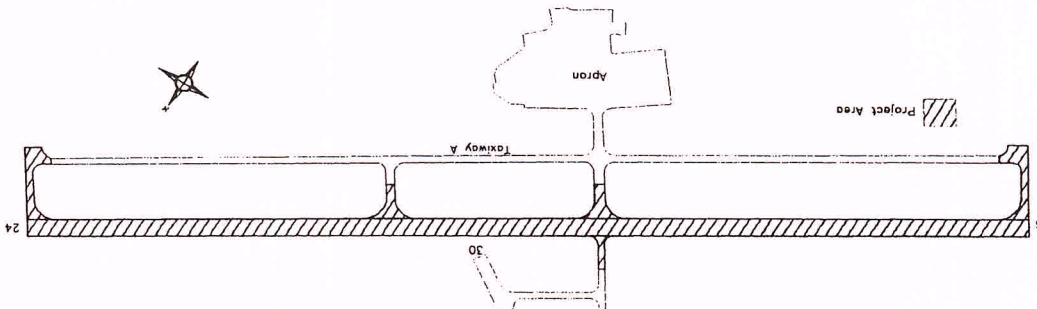
No. Item	Fee	
1	Petrographic Analysis	\$71,313
2	Engineer's Report	\$30,000
3	Design Survey	\$20,000
4	Design	\$250,000
5	Bidding	\$20,000
6	Construction Services	\$130,000
7	Special Services	\$20,000
TOTAL		\$541,313

CIP DATA SHEET

AIRPORT	PROJECT	DESCRIPTION	Identify FFY that you desire to construct (FFY: Oct. 1-Sept. 30)	2015
Muscatine Municipal	LOCAL	Reconstruct Runway 6/24	LOCAL PRIORITY	1
	LOCAL		MUT	

SKETCH:

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JUSTIFICATION:

For the last five years, the airport has experienced six pavement blow-ups on the main runway and its parallel taxiway; these blow-ups have required emergency patching. These pavements are approximately twenty years old and were designed with a twenty year design life. According to the December 2010 Iowa DOT Pavement Management Report, the PCI of 85% of Runway 6/24 was listed as 70. In 2013, the City hired a consultant to perform a petrographic analysis, which concluded that ASR was causing expansion in the concrete that slowly caused the control and expansion joints in the pavement to close, making the pavement vulnerable to blowups in hot weather. The consultant expects these blowups to continue. Therefore, the City has decided to proceed with an aggressive plan for full reconstruction of Runway 6/24 and its parallel and connecting taxiways. The FAA has advised the City to break the project down into the following steps: Preliminary / Final Design (FY 2014), Runway Reconstruction (FY 2015), and Taxiway Design & Reconstruction (FY 2017). This project is the second step.

COST ESTIMATE: (Attach detailed cost estimate)

Federal(90%) \$3,796,940 State \$0 Local (10%) \$421,882 Total \$4,218,822

SPONSOR'S VERIFICATION:

For each and every project as applicable

FAA USE ONLY

FAA Verification: (initial/date)

- Date of approved ALP with project shown 4/23/02
- Date of environmental determination (ROD, FONSI, CE), or cite CE paragraph # (307-312) in Order 1050.1E 1989
- Date of land acquisition or signed purchase agreement N/A
- Date of pavement maintenance program 1/1995
- Snow removal equipment inventory & sizing worksheet (for SRE acquisition) N/A
- Apron sizing worksheet (for apron projects) N/A
- Revenue producing facilities (for fuel farms, hangers, etc.) N/A
- Date statement submitted for completed airside development N/A
- Date statement submitted for runway approaches are clear of obstructions N/A

SPONSOR'S SIGNATURE:

PRINTED NAME: Steve Boka TITLE: Director of Community Development

PHONE NUMBER: 563-262-4141

FAA USE ONLY

PREAPP NUMBER	GRANT NUMBER	NPIAS CODE	WORK CODE	FAA PRIORITY	FEDERAL \$
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AIRPORT		PROJECT DESCRIPTION	
Muscatine Municipal		Reconstruct Runway 6/24	
LOCAL PRIORITY		Identify FFY that you desire to construct (FFY: Oct. 1-Sept. 30)	
1		2015	

Preliminary Cost Opinion

No. Item	Quantity	Unit	Unit Price	Total Price
1 Remove Pavement	71,342	SY	\$5	\$356,711
2 Install Pavement	71,342	SY	\$50	\$3,567,111
3 Paint Pavement Markings	1	LS	\$100,000	\$100,000
4 Seeding	1	LS	\$30,000	\$30,000
5 Construction Surveying	1	LS	\$30,000	\$30,000
6 Mobilization	1	LS	\$115,000	\$115,000
7 Traffic Control	1	LS	\$20,000	\$20,000
TOTAL				\$4,218,822

CIP DATA SHEET

AIRPORT	PROJECT DESCRIPTION	SKETCH:
Muscataine Municipal	Update Master Plan (ALP)	
LOCAL PRIORITY	Identify FFY that you desire to construct (FFY: Oct. 1-Sept. 30)	
1	2016	

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JUSTIFICATION:

The last time the airport layout plan (ALP) was completely updated was in 2002. The FAA and IDOT typically recommend ALPs be updated every eight to ten years. This project will include the update of all eleven sheets of the ALP drawing set and the creation of an extensive accompanying narrative report. In addition, the project scope will include imagery acquisition, ground survey (to check runway ends, profile, length, width, and threshold location), planimetric mapping, and AGIS project documentation. This update will give the City a more complete picture of development needs and priorities at the airport and will help provide a long term comprehensive planning strategy.

COST ESTIMATE: (Attach detailed cost estimate)			
Federal(90%)	\$166,500	State	\$0
Local (10%)	\$18,500	Total	\$185,000

SPONSOR'S VERIFICATION:		Date	
For each and every project as applicable		4/23/02	- Date of approved ALP with project shown
		1989	- Date of environmental determination (ROD, FONSI, CE), or cite CE paragraph # (307-312) in Order 1050.1E
		N/A	- Date of land acquisition or signed purchase agreement
		1/1995	- Date of pavement maintenance program
FAA USE ONLY		N/A	- Snow removal equipment inventory & sizing worksheet (for SRE acquisition)
FAA Verification: (initial/date)		N/A	- Apron sizing worksheet (for apron projects)
		N/A	- Revenue producing facilities (for fuel farms, hangers, etc.)
		N/A	- Date statement submitted for completed airside development
		N/A	- Date statement submitted for runway approaches are clear of obstructions

SPONSOR'S SIGNATURE:

PRINTED NAME: Steve Boka TITLE: Director of Community Development

PHONE NUMBER: 563-262-4141

PREAPP NUMBER	GRANT NUMBER	NPIAS CODE	WORK CODE	FAA PRIORITY	FEDERAL \$

FAA USE ONLY

DATE: 11/21/14

AIRPORT		PROJECT DESCRIPTION		
2016	1	Muscatine Municipal		
		Update Master Plan (ALP)		
LOCAL PRIORITY		MUT	LOCID	Identify FFY that you desire to construct (FFY: Oct. 1-Sept. 30)

Preliminary Cost Opinion

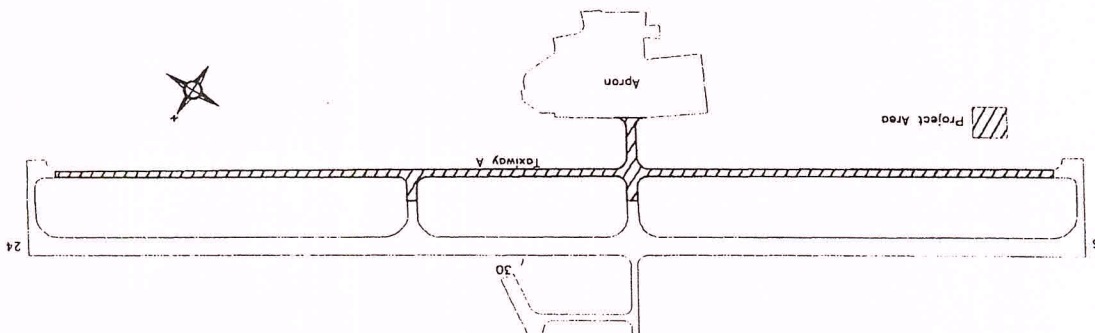
No. Item	Fee
1 Imagery Acquisition	\$15,000
2 Ground Survey	\$25,000
3 Planimetric Mapping	\$60,000
4 AGIS Project Documentation	\$15,000
5 Update ALP Drawing Set	\$45,000
6 Narrative Report	\$25,000
TOTAL	\$185,000

CIP DATA SHEET

AIRPORT	PROJECT DESCRIPTION	Design and Reconstruct Taxiway A	LOCAL	MUT	LOCAL PRIORITY	1
Identify FFY that you desire to construct (FFY: Oct. 1-Sept. 30)						
2017						

SKETCH:

Paste Sketch Here



JUSTIFICATION:

For the last five years, the airport has experienced six pavement blow-ups on the main runway and its parallel taxiway; these blow-ups have required emergency patching. These pavements are approximately twenty years old and were designed with a twenty year design life. According to the December 2010 Iowa DOT Pavement Management Report, the PCI of 85% of Runway 6/24 was listed as 70. In 2013, the City hired a consultant to perform a petrographic analysis, which concluded that ASR was causing expansion in the concrete that slowly caused the control and expansion joints in the pavement to close, making the pavement vulnerable to blowups in hot weather. The consultant expects these blowups to continue. Therefore, the City has decided to proceed with an aggressive plan for full reconstruction of Runway 6/24 and its parallel and connecting taxiways. The FAA has advised the City to break the project down into the following steps: Preliminary / Final Design (FY 2014), Runway Reconstruction (FY 2015), and Taxiway Design & Reconstruction (FY 2017). This project is the third step.

COST ESTIMATE: (Attach detailed cost estimate)			
Federal(90%)	\$1,910,479	State	\$0
Local (10%)	\$212,275	Total	\$2,122,754

SPONSOR'S VERIFICATION: For each and every project as applicable		Date	(see instruction sheet or point mouse over each date box for more information)
FAA USE ONLY	FAA Verification: (initial/date)	4/23/02	- Date of approved ALP with project shown
		1989	- Date of environmental determination (ROD, FONSI, CE), or cite CE paragraph # (307-312) in Order 1050.1E
FAA USE ONLY		N/A	- Date of land acquisition or signed purchase agreement
		1/1995	- Date of pavement maintenance program
FAA USE ONLY		N/A	- Snow removal equipment inventory & sizing worksheet (for SRE acquisition)
		N/A	- Apron sizing worksheet (for apron projects)
FAA USE ONLY		N/A	- Revenue producing facilities (for fuel farms, hangers, etc.)
		N/A	- Date statement submitted for completed airside development
FAA USE ONLY		N/A	- Date statement submitted for runway approaches are clear of obstructions

SPONSOR'S SIGNATURE: _____

PRINTED NAME: Steve Boka TITLE: Director of Community Development

PHONE NUMBER: 563-262-4141

PREAPP NUMBER	GRANT NUMBER	NPIAS CODE	WORK CODE	FAA PRIORITY	FEDERAL \$
FAA USE ONLY					

AIRPORT	Muscatine Municipal	LOCID	MUT	LOCAL PRIORITY	1
PROJECT DESCRIPTION	Design and Reconstruct Taxiway A				
	Identify FFY that you desire to construct (FFY: Oct. 1-Sept. 30)				2017

Preliminary Cost Opinion

No. Item	Quantity	Unit	Unit Price	Total Price
1 Remove Pavement	25,269	SY	\$6	\$151,614
2 Install Pavement	25,269	SY	\$60	\$1,516,140
3 Paint Pavement Markings	1	LS	\$35,000	\$35,000
4 Seeding	1	LS	\$20,000	\$20,000
5 Construction Surveying	1	LS	\$25,000	\$25,000
6 Mobilization	1	LS	\$85,000	\$85,000
7 Traffic Control	1	LS	\$15,000	\$15,000
SUBTOTAL				\$1,847,754

Engineering Services

\$275,000

GRAND TOTAL

\$2,122,754

Missions at the Airport

The Experience

Missions at the Airport is a specifically designed educational and informative event showcasing the work and technology of Wycliffe Bible Translators and JAARS.

Bible translators working around the world, some located in very remote places, depend on modern technologies to accomplish certain aspects of their work. For over fifty years, JAARS has served Wycliffe Bible Translators in the task of Bible translation by providing people, training, and technological services. The *Missions at the Airport* program brings to the public some of these technological helps and provides an opportunity to experience first hand how they are being used in missions, particularly in Bible translation.

You will have the opportunity to:

- ◆ Ride in a missionary aircraft
- ◆ Observe a Helio Courier aircraft flight demonstration of short take-off and landing (STOL)
- ◆ flight techniques (weather and conditions permitting)
- ◆ Meet and interact with missionaries and JAARS pilots
- ◆ See demonstrations of the computer's use in the translation process
- ◆ View displays and hear about a number of technologies used in missions, including:
 - a special design of aircraft safety seats.
 - a non-electric, non-battery audio tape machine.
 - special computer programs used by Bible translators, including language analysis programs
 - a "zapper" to detoxify insect and snake bites.
 - solar powered equipment used on the mission field.
 - and more.

Missions at the Airport contact:

Director:

Mike Mower

704-843-6109 (office)

704-576-1248 (cell)

mike_mower@jaars.org

JAARS Public Relations Department
704-843-6095 (office)
704-843-6385 (fax)
JAARS Website: www.jaars.org

HOSPITALITY

- ◆ Arrange for housing and meals for the *Missions at the Airport* team.
- ◆ Arrange for local airport pickup and local area transportation as needed for the *Missions at the Airport* team.

SITE AND FACILITIES

- have a local pilot on the organizing committee. Factors to keep in mind are:
- ◆ A small airport is preferred to a large control tower airport.
 - ◆ One "T" hangar is the minimum space required to put everything under one roof. More space is better.
 - ◆ Talk with the airport manager. Is a permit required by the City? County? State? This is important to know as soon as possible.
 - ◆ Does the airport need to have a certificate of our insurance?

PARKING AND SECURITY

- ◆ Organize a crew to help with parking and/or directions to the event site as needed.
- ◆ Prepare and position signs for direction of traffic from access roads to the site and to parking. Signs should be readable from 100 feet away.
- ◆ Organize a crew to assist with crowd control to help keep people in designated and safe areas. This crew will work with the loading team.
- ◆ Organize a crew to help with passenger loading and unloading; *Missions at the Airport* staff will provide on-site instructions for these volunteers. This is a fast pace and safety related job and volunteers must be at least 18 years old.

AUDIO AND ELECTRICAL

- ◆ Public Address system (if needed at your site).
- ◆ Plenty of extension cords and power strip (required).
- ◆ Duct tape (required -- for taping down electrical cords to avoid tripping and injury).

