



MICHIGAN AIRPORT DEVELOPMENT PROGRAM PACKAGE

TEN YEAR AIRPORT CAPITAL IMPROVEMENT PLAN

Fiscal Years 2012 - 2022

Gratiot Community Airport

Alma, Michigan

Submitted By: Gratiot Community Airport Authority

Date: August 2, 2011

MAP Meeting Date: September 7, 2011

Revision Date: September 30, 2011

Prepared By:



MICHIGAN STATE BLOCK GRANT PROGRAM
TEN-YEAR AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2012* to FY-2022

*ACIP includes current development year (2012 already programmed - minor changes acceptable)

Airport Name: Gratiot Community Airport	Date prepared: 05/13/11
Associated City: Alma	Revised: 09/30/11
Sponsor: Gratiot Community Airport Authority	Prepared By: QoE Consulting
Airport Identifier: AMN	Sponsor email address & phone: aripley@ci.alma.mi.us
FINAL ACIP due to MDOT AERO: no later than 12/15/11	

Development Year	Project Description	Shown on ALP? (Yes or No)	ACIP Code**	NPIAS Priority Rating**	Federal Entitlements	Federal Apportionment	Federal Discretionary	State	Local	Total	Remarks/Item Justification - Provide as much detail as possible.
2011	Carry over funds to FY 2012				\$129,219						Carry over funds to FY 2012.
2012	Rehabilitate terminal apron	Yes	RE/AP/IM	58	\$104,500	\$0	\$0	\$2,750	\$2,750	\$110,000	The apron was last rehabilitated in 1978 and is in need of crack repair
2012	Install PAPI on R9 and R27	Yes	ST/RW/VI	47	\$156,750	\$0	\$0	\$4,125	\$4,125	\$165,000	VASI-4 systems don't work, parts unavailable; replacment with PAPI systems req'd.
	Carry over funds to 2013				\$17,969						
2013	Carry over funds to FY 2014				\$167,969						Carry over funds to FY 2014.
2014	Replace Corporate hangar doors	No	ST/BD/MS	31	\$190,000	\$0	\$0	\$5,000	\$5,000	\$200,000	Hangar doors are old and high maintenence
2014	Carry over funds to FY 2015				\$127,969						Carry over funds to FY 2015.
2015	Snow Removal Equipment	No	ST/EQ/SN	45	\$237,500	\$0	\$0	\$6,250	\$6,250	\$250,000	AMN does not own any SRE; obsolete equip. currently in use is owned by the FBO.
	Carry over funds to FY 2016				\$40,469						
2016	Carry over funds to FY 2017				\$190,469						Carry over funds to FY 2017.
2017	Rehabilitate taxistreets	Yes	RT/TW/IM	64	\$332,500	\$0	\$0	\$8,750	\$8,750	\$350,000	These pavements are approximately 30 years old and need reconstructing
	Carry over funds to FY 2018				\$7,969						Carry over funds to 2018
2018	Carry over funds to FY 2019				\$157,969						Carry over funds to FY 2019.
2019	Construct 6-unit T-hangar	Yes	ST/BD/MS	29	\$307,969	\$72,031	\$0	\$10,000	\$10,000	\$400,000	T-hangars are approximately 50 years old, door parts are unavailable, floors have deteriorated.
2020	Carry over funds to FY 2021				\$150,000						Carry over funds to FY 2021.
2021	Carry over funds to FY 2022				\$300,000						Carry over funds to 2022
2022	Construct W. Parallel Taxiway to Runway 9	Yes	CA/TW/CO	57	\$450,000	\$405,000	\$0	\$22,500	\$22,500	\$900,000	Completion of the parallel ty to rwy 9 is necessary to eliminate back-taxiing on rwy 9.
	Carry over funds to FY 2023										
2023	Install perimeter/security fence	Yes	ST/EQ/SE	40	\$128,250	\$0	\$0	\$3,375	\$3,375	\$135,000	Perimeter fence is necessary to prevent public vehicle access to runway 36 approach.
	Carry over funds to FY 2024				21,750						Carry over funds to FY 2024

*Proposed airport development must be shown on current FAA-approved ALP prior to funding project.

**In accordance with FAA Order 5100.39A, Appendix 6 - Fields need to be completed
(Refer to Airport Code spreadsheet provided on MDOT Aeronautics website under Block Grant Program for specific airport code)



QoE Consulting
 4100 CAPITAL CITY BLVD., FLR 2
 LANSING, MI 48906

P: 517-327-1980

F: 517-327-1982

ITEM SHEET

ITEM:	Rehabilitate terminal apron (crack repair)

FUNDING YEAR	
Local Plan:	2012
Mtg. Decision:	

ITEM IS ON ALP? YES
 NO

ESTIMATE COST	
Total:	\$110,000
Federal:	\$104,500
State:	\$2,750
Local:	\$2,750

FAA Approval Date:	5/21/1999
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Instructions:

List all reasons/need for this project, including detailed descriptions of existing conditions, i.e. pavement age, thickness, distresses, increase in aircraft/vehicle weight and/or usage, etc. Use additional sheets as needed.

The apron was last overlaid in 1979; the Sponsor has periodically performed crack sealing to maintain this pavement. However, random cracks have opened sufficiently wide to preclude normal crack sealing and are creating safety issues with taxiing aircraft; the PCI is listed as 73 (preventive maintenance required) per the 2007 survey. Crack repair is necessary to maintain the structural integrity of the apron and to provide a safe maneuvering surface for aircraft operations.



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ITEM SHEET

ITEM:	Install runway 9-27 visual guidance system [PAPI]

FUNDING YEAR	
Local Plan:	2012
Mtg. Decision:	

ESTIMATE COST	
Total:	\$165,000
Federal:	\$156,750
State:	\$4,125
Local:	\$4,125

ITEM IS ON ALP? YES
 NO

FAA Approval Date:	5/21/1999
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Instructions:

List all reasons/need for this project, including detailed descriptions of existing conditions, i.e. pavement age, thickness, distresses, increase in aircraft/vehicle weight and/or usage, etc. Use additional sheets as needed.

The airports existing VASI visual guidance system for runway 9-27 is obsolete and replacement parts are unavailable. The airport needs to replace the VASI system with a new PAPI system.



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ITEM SHEET

ITEM:	Replace corporate hangar doors

FUNDING YEAR	
Local Plan:	2014
Mtg. Decision:	

ESTIMATE COST	
Total:	\$200,000
Federal:	\$190,000
State:	\$5,000
Local:	\$5,000

ITEM IS ON ALP? YES
 NO

FAA Approval Date:	5/21/1999
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Instructions:

List all reasons/need for this project, including detailed descriptions of existing conditions, i.e. pavement age, thickness, distresses, increase in aircraft/vehicle weight and/or usage, etc. Use additional sheets as needed.

The corporate hangar is approximately 43 years old and the doors are worn out and don't function properly. Replacement of the 3 bifold doors is the most economical solution to keeping the hangar operational.



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P: 517-327-1980

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ITEM SHEET

ITEM:	Snow Removal Equipment

FUNDING YEAR	
Local Plan:	2015
Mtg. Decision:	

ESTIMATE COST	
Total:	\$250,000
Federal:	\$237,500
State:	\$6,250
Local:	\$6,250

ITEM IS ON ALP? YES
 NO

FAA Approval Date:	5/21/1999
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Instructions:

List all reasons/need for this project, including detailed descriptions of existing conditions, i.e. pavement age, thickness, distresses, increase in aircraft/vehicle weight and/or usage, etc. Use additional sheets as needed.

Gratiot Community Airport currently doesn't own any Snow Removal Equipment. The FBO owns equipment that is obsolete . A new front-end loader (with plow and blower) is necessary to efficiently remove snow from the pavement areas and from the RSAs adjacent to the runway pavements.



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ITEM SHEET

ITEM:	Rehabilitate taxistreets

FUNDING YEAR	
Local Plan:	2017
Mtg. Decision:	

ESTIMATE COST	
Total:	\$350,000
Federal:	\$332,500
State:	\$8,750
Local:	\$8,750

ITEM IS ON ALP? YES
 NO

FAA Approval Date:	5/21/1999
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Instructions:

List all reasons/need for this project, including detailed descriptions of existing conditions, i.e. pavement age, thickness, distresses, increase in aircraft/vehicle weight and/or usage, etc. Use additional sheets as needed.

This project will rehabilitate three taxistreets in the airports' hangar area and the main access taxistreet to the hangar area. These pavements have been in place more than 30 years and are severely deteriorated; reconstruction is necessary to restore the structural integrity of the pavements. The PCI is listed as 66 (major rehabilitation required) per the 2007 pavement condition survey.



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P: 517-327-1980

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ITEM SHEET

ITEM:	Construct 6-Unit T-hangar and Taxistreets

FUNDING YEAR	
Local Plan:	2019
Mtg. Decision:	

ESTIMATE COST	
Total:	\$400,000
Federal:	\$380,000
State:	\$10,000
Local:	\$10,000

ITEM IS ON ALP? YES
 NO

FAA Approval Date:	5/21/1999
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Instructions:

List all reasons/need for this project, including detailed descriptions of existing conditions, i.e. pavement age, thickness, distresses, increase in aircraft/vehicle weight and/or usage, etc. Use additional sheets as needed.

The Gratiot Community Airport Authority needs to construct 6-unit T-hangar to meet future demand for aircraft storage at Gratiot Community Airport. Access taxistreets will also be required on each side of the t-hangar.



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ITEM SHEET

ITEM:	West parallel taxiway to Runway 9

FUNDING YEAR	
Local Plan:	2022
Mtg. Decision:	

ESTIMATE COST	
Total:	\$900,000
Federal:	\$855,000
State:	\$22,500
Local:	\$22,500

ITEM IS ON ALP? YES
 NO

FAA Approval Date:	5/21/1999
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Instructions:

List all reasons/need for this project, including detailed descriptions of existing conditions, i.e. pavement age, thickness, distresses, increase in aircraft/vehicle weight and/or usage, etc. Use additional sheets as needed.

Air traffic has increased at the airport resulting in the need for a parallel taxiway to improve operational safety by eliminating the need for backtaxiing on runway 9-27. The eastern portion of the parallel taxiway was constructed in 2005 as an AIP project. This project will complete the parallel taxiway west of runway 18-36.



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ITEM SHEET

ITEM:	Perimeter/security fence (south approach)

FUNDING YEAR	
Local Plan:	2023
Mtg. Decision:	

ESTIMATE COST	
Total:	\$135,000
Federal:	\$128,250
State:	\$3,375
Local:	\$3,375

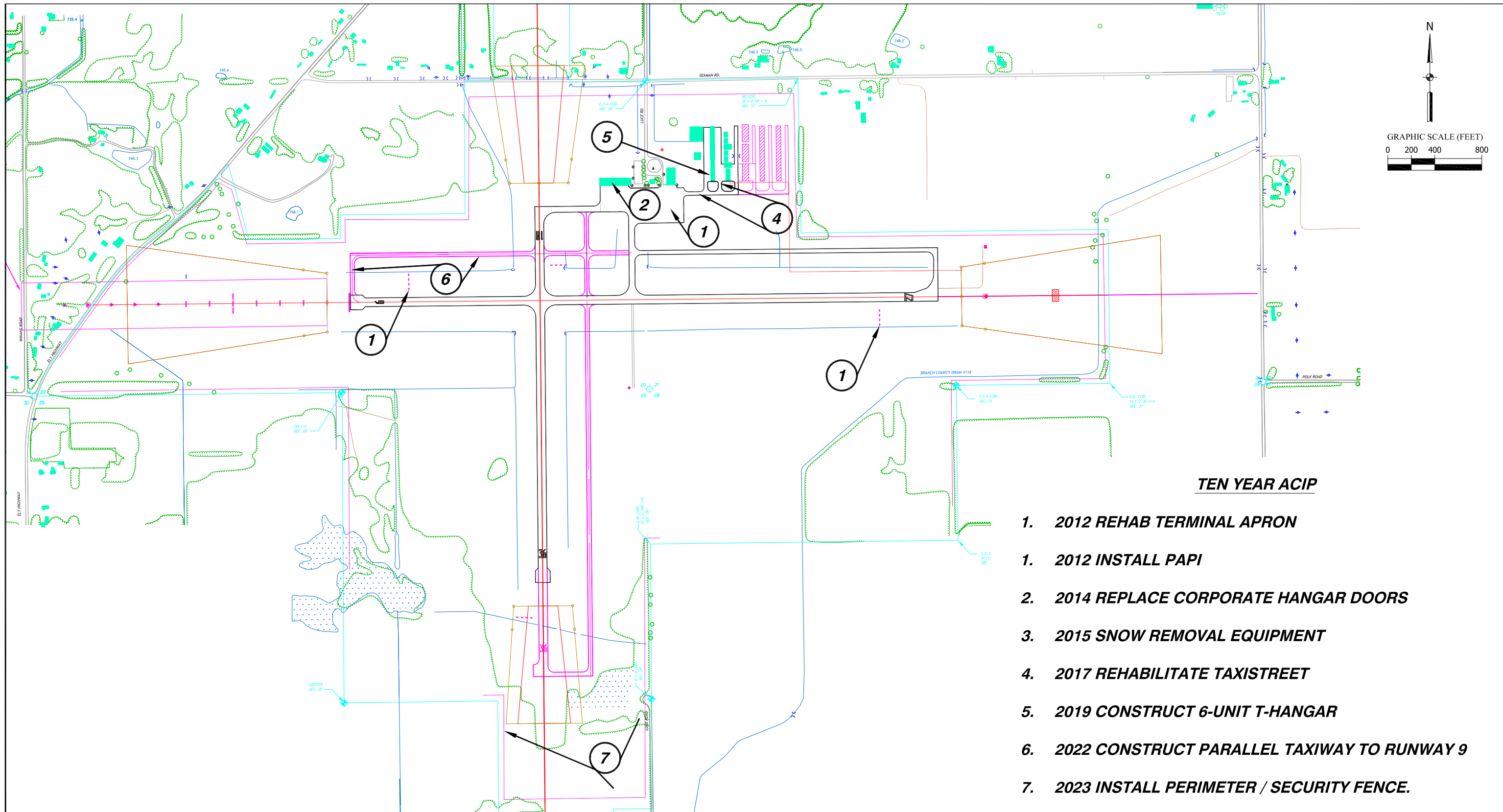
ITEM IS ON ALP? YES
 NO

FAA Approval Date:	5/21/1999
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Instructions:

List all reasons/need for this project, including detailed descriptions of existing conditions, i.e. pavement age, thickness, distresses, increase in aircraft/vehicle weight and/or usage, etc. Use additional sheets as needed.

Vehicles can access airport property from the south which could lead to runway incursions. Perimeter fencing is necessary to eliminate vehicle access and deer entering the approach area of runway 18-36.



TEN YEAR ACIP

- 1. 2012 REHAB TERMINAL APRON**
- 1. 2012 INSTALL PAPI**
- 2. 2014 REPLACE CORPORATE HANGAR DOORS**
- 3. 2015 SNOW REMOVAL EQUIPMENT**
- 4. 2017 REHABILITATE TAXIWAY**
- 5. 2019 CONSTRUCT 6-UNIT T-HANGAR**
- 6. 2022 CONSTRUCT PARALLEL TAXIWAY TO RUNWAY 9**
- 7. 2023 INSTALL PERIMETER / SECURITY FENCE.**

File Name: McAlmaACIP/2012012012 Sketch.dwg - 101011
 Modified / By: October 10, 2011 11:55:08 AM / ssmith
 Plotted / By: October 10, 2011 11:55:00 AM / Scott Smith



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GRATIOT COMMUNITY AIRPORT

TEN YEAR ACIP SKETCH

AUGUST 2, 2011
 REVISED OCTOBER 10, 2011

