

MICHIGAN AIRPORT DEVELOPMENT PROGRAM

AIP CAPITAL IMPROVEMENT PLAN 2012-2022

FEDERAL/STATE/LOCAL



Dowagiac Municipal Airport

Dowagiac, MI



Date of Latest ALP - **1993**
ACIP Airport Code - **D**
Airport Identifier - C91
2008 PCI

As Built ALP 2007

MDOT-AERO
2700 E AIRPORT SERVICE DRIVE
LANSING, MICHIGAN 48906

Prepared by: URS Corporation
Sponsor: City of Dowagiac
Submitted by: Gary Carlile
Date: September 6, 2011

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

Dowagiac Municipal Airport C91

Year	Project Description	Cost*	Remarks/Item Justification
2012	Available Federal Entitlements (NPE) \$240,000 (\$90,000 Carryover from 2011)		
	Easement Acquisition for Approach Clearing	\$ 67,000	Clearing will likely be needed to obtain LPV approaches for Runway 9/27. Easements will be obtained and obstructions removed.
	Approach Clearing	\$ 57,000	Clearing will likely be needed to obtain LPV approaches for Runway 9/27. Easements will be obtained and obstructions removed.
	Terminal Building Study and Design	\$ 30,000	A new terminal building is needed to replace the aging existing building. Terminal location will be shown on the ALP update to be accomplished in 2011. A study will be done to determine hazardous material in the existing building.
	Remark Airport Paint Markings	\$ 14,000	Marking are faded. Remarking will be done as part of the Statewide marking program.
	Fed \$159,600 - State \$3,850 - Local \$3,850 - Total \$154,000		
2013	Available Federal Entitlements (NPE) \$272,200		
	Construct: Terminal Building	\$ 156,000	Existing building is aging. A new building will be constructed on the existing building footprint.
	Design: Box Hangars	\$ 15,000	Box hangars will be designed for following year construction.
	Fed \$162,450 - State \$4,275 - Local \$4,275 - Total \$171,000		
2014	Available Federal Entitlements (NPE) \$259,750		
	Construct: Box Hangars (Two 50'x50' Units)	\$ 204,000	Based on demand, one or two hangars will be built. Hangar construction will allow a source of revenue generating for operating the airport. Location will be shown on the ALP to be updated in 2011. Design will include a second and third unit that may be built at a later time.
	Fed \$193,800 - State \$5,100 - Local \$5,100 - Total \$204,000		
2015	Available Federal Entitlements (NPE) \$215,950		
	Carryover	\$ -	0
	Fed \$0 - State \$0 - Local \$0 - Total \$0		
2016	Available Federal Entitlements (NPE) \$365,950		
	User Study	\$ 10,000	User study will be done to determine need for parallel taxiway and runway extension.
	Design: Rehabilitate Existing Lighting & Signage	\$ 15,000	Existing Runway Lights will be replaced with LED MIRL. Existing Light transformers will also be replaced. Existing signs will be replaced with LED lamps. Windcone and REILs will be replaced with LED units.
	Fed \$23,750 - State \$625 - Local \$625 - Total \$25,000		
2017	Available Federal Entitlements (NPE) \$492,200		
	EA for Rwy Extension and Parallel Txy	\$ 75,000	An EA will be needed to determine environmental impacts of the runway extension and new taxiway.
	Construct: Rehabilitate Existing Lighting & Signage	\$ 132,000	Existing Runway Lights will be replaced with LED MIRL. Existing Light transformers will also be replaced. Existing signs will be replaced with LED lamps. Windcone and REILs will be replaced with LED units.
Fed \$196,650 - State \$5,175 - Local \$5,175 - Total \$207,000			Carryover \$295,550
2018	Available Federal Entitlements (NPE) \$570,950		
	Runway Resurfacing	\$ 436,000	Runway constructed in 2001 will likely need resurfacing at this time.
	Full Parallel Taxiway with Connectors	\$ 1,969,000	Parallel taxiway is needed to eliminate back taxing on the runway. This will improve safety and increase capacity. User study conducted in prior year is assumed to justify the construction.
Fed \$2,284,750 - State \$60,125 - Local \$60,125 - Total \$2,405,000			Funds in addition to NPE are needed for this year.
2019	Available Federal Entitlements (NPE) \$306,750		
	Carry over for T Hangar Project	\$ -	Carry over for hangar project
Fed \$0 - State \$0 - Local \$0 - Total \$0			Carryover \$0
2020	Available Federal Entitlements (NPE) \$456,750		
	8 Unit T-Hangar	\$ 353,000	Additional hangar space is needed to meet demand.
Fed \$335,350 - State \$8,825 - Local \$8,825 - Total \$353,000			Carryover \$121,400
2021	Available Federal Entitlements (NPE) \$271,400		
	Jet Fuel Tank	\$ 157,000	Jet fuel is not available at the airport. This will provide increased service and revenue for the airport. Longer runway will allow additional turbo prop and jet aircraft to use the airport.
Fed \$149,150 - State \$3,925 - Local \$3,925 - Total \$157,000			Carryover \$122,250
2022	Available Federal Entitlements (NPE) \$272,250		
	Runway Extension to 5,000'	\$ 436,000	A runway extension is needed to accommodate larger aircraft. User study will be done to determine justification.
Fed \$414,200 - State \$10,900 - Local \$10,900 - Total \$436,000			Funds in addition to NPE are needed for this year.

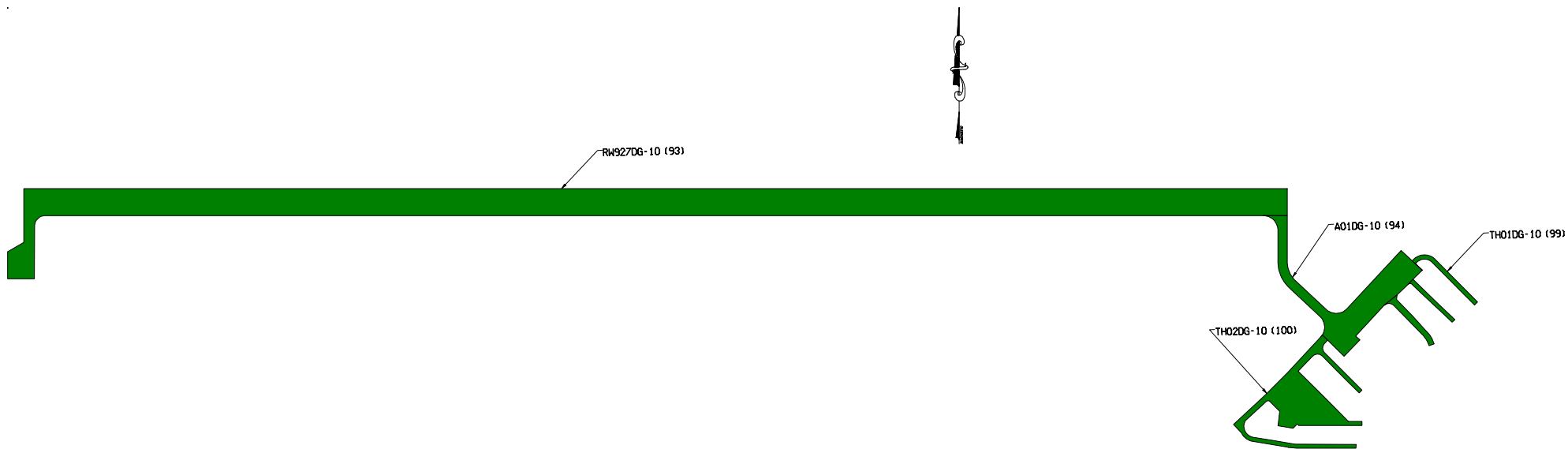
* Includes Federal Cost of 95%, State Cost of 2.5%, and Local Cost of 2.5%. When costs exceed available Federal Entitlements (NPE), additional funding will be needed from Federal Apportionment or Federal Discretionary funds.

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

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

Airport Name: Dowagiac Municipal Airport	Date prepared: 09-06-11
Associated City: Dowagiac, MI	Prepared By: URS Corporation
Sponsor: City of Dowagiac	Sponsor email address & phone: carlilehome@yahoo.com
Airport Identifier: C91	FINAL ACIP due to MDOT AERO: no later than 12/1/11

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. (See detail sheets for extended information.)
2012	<i>Available Entitlements</i>				\$ 240,000	(\$150,000 NPE plus \$90,000 NPE carryover from 2011.)					
	Easement Acquisition for Approach Clearing	Yes	ST-LA-SZ	41	\$ 63,650	\$ -		\$ 1,675	\$ 1,675	\$ 67,000	Clearing will likely be needed to obtain LPV approaches for Runway 9/27. Easements will be obtained and obstructions removed.
	Approach Clearing	Yes	ST-LA-SZ	41	\$ 54,150	\$ -		\$ 1,425	\$ 1,425	\$ 57,000	Clearing will likely be needed to obtain LPV approaches for Runway 9/27. Easements will be obtained and obstructions removed.
	Terminal Building Study and Design	Yes	CA-TE-CO	43	\$ 28,500	\$ -		\$ 750	\$ 750	\$ 30,000	A new terminal building is needed to replace the aging existing building. Terminal location will be shown on the ALP update to be accomplished in 2011. A study will be done to determine hazardous material in the existing building.
	Remark Airport Paint Markings	Yes	RE-RW-IM	66	\$ 13,300	\$ -		\$ 350	\$ 350	\$ 14,000	Marking are faded. Remarking will be done as part of the Statewide marking
					<i>Carryover</i>					\$ 80,400	
2013	<i>Available Entitlements</i>				\$ 230,400						
	Construct: Terminal Building	Yes	CA-TE-CO	43	\$ 148,200	\$ -		\$ 3,900	\$ 3,900	\$ 156,000	Existing building is aging. A new building will be constructed on the existing building footprint.
	Design: Box Hangars	Yes	ST-BD-MS	29	\$ 14,250	\$ -		\$ 375	\$ 375	\$ 15,000	Box hangars will be designed for following year construction
					\$ -	\$ -				\$ -	
					<i>Carryover</i>					\$ 67,950	
2014	<i>Available Entitlements</i>				\$ 217,950						
	Construct: Box Hangars (Two 50'x50' Units)	Yes	ST-BD-MS	29	\$ 193,800	\$ -		\$ 5,100	\$ 5,100	\$ 204,000	Based on demand, one or two hangars will be built. Hangar construction will allow a source of revenue generating for operating the airport. Location will be shown on the ALP to be updated in 2011. Design will include a second and third unit that may be built at a later time.
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
					<i>Carryover</i>					\$ 24,150	
2015	<i>Available Entitlements</i>				\$ 174,150						
	Carryover	Yes			\$ -	\$ -		\$ -	\$ -	\$ -	0
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
					<i>Carryover</i>					\$ 174,150	
2016	<i>Available Entitlements</i>				\$ 324,150						
	User Study	Yes	PL-PL-MA	62	\$ 9,500	\$ -		\$ 250	\$ 250	\$ 10,000	User study will be done to determine need for parallel taxiway and runway extension
	Design: Rehabilitate Existing Lighting & Signage	Yes	RE-RW-LI	66	\$ 14,250	\$ -		\$ 375	\$ 375	\$ 15,000	Existing Runway Lights will be replaced with LED MIRL. Existing Light transformers will also be replaced. Existing signs will be replaced with LED lamps. Windcone and REILs will be replaced with LED units.
					\$ -	\$ -				\$ -	
					<i>Carryover</i>					\$ 300,400	
2017	<i>Available Entitlements</i>				\$ 450,400						
	EA for Rwy Extension and Parallel Txy	Yes	EN-RW-EX	61	\$ 71,250	\$ -		\$ 1,875	\$ 1,875	\$ 75,000	An EA will be needed to determine environmental impacts of the runway extension and new taxiway.
	Construct: Rehabilitate Existing Lighting & Signage	Yes	RE-RW-LI	66	\$ 125,400	\$ -		\$ 3,300	\$ 3,300	\$ 132,000	Existing Runway Lights will be replaced with LED MIRL. Existing Light transformers will also be replaced. Existing signs will be replaced with LED lamps. Windcone and REILs will be replaced with LED units.
					\$ -	\$ -				\$ -	
					<i>Carryover</i>					\$ 253,750	
2018	<i>Available Entitlements</i>				\$ 403,750						
	Runway Resurfacing	Yes	RE-RW-IM	66	\$ 403,750	\$ 10,450		\$ 10,900	\$ 10,900	\$ 436,000	Runway constructed in 2001 will likely need resurfacing at this time.
	Full Parallel Taxiway with Connectors	Yes	CA-TW-EX	47	\$ -	\$ 1,870,550		\$ 49,225	\$ 49,225	\$ 1,969,000	Parallel taxiway is needed to eliminate back taxiing on the runway. This will improve safety and increase capacity. User study conducted in prior year is assumed to justify the construction.
					\$ -	\$ -				\$ -	
2019	<i>Available Entitlements</i>				\$ 150,000						
	Carry over for T Hangar Project	No	CA-BD-EX	39	\$ -	\$ -		\$ -	\$ -	\$ -	Carry over for hangar project
					\$ -	\$ -				\$ -	
					<i>Carryover</i>					\$ 150,000	
2020	<i>Available Entitlements</i>				\$ 300,000						
	8 Unit T-Hangar	Yes	CA-BD-EX	39	\$ 300,000	\$ 35,350		\$ 8,825	\$ 8,825	\$ 353,000	Additional hangar space is needed to meet demand
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	
2021	<i>Available Entitlements</i>				\$ 150,000						
	Jet Fuel Tank	Yes	CA-AP-EX	42	\$ 149,150	\$ -		\$ 3,925	\$ 3,925	\$ 157,000	Jet fuel is not available at the airport. This will provide increased service and revenue for the airport. Longer runway will allow additional turbo prop and jet aircraft to use the airport.
					\$ -	\$ -				\$ -	
					<i>Carryover</i>					\$ 850	
2022	<i>Available Entitlements</i>				\$ 150,850						
	Runway Extension to 5,000'	Yes	CA-RW-EX	51	\$ 150,850	\$ 263,350		\$ 10,900	\$ 10,900	\$ 436,000	A runway extension is needed to accommodate larger aircraft. User study will be done to determine justification.
					\$ -	\$ -				\$ -	
					\$ -	\$ -				\$ -	



86-100

71-85

56-70

41-55

26-40

11-25

0-10