

**MICHIGAN AIRPORT DEVELOPMENT
PROGRAM PACKAGE
MDOT Airports Division**

**Airport Capital Improvement Plan
2012-2020**

Prepared for:

**DuPont - Lapeer Airport
Lapeer, Michigan**

November 2011

Contact:

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MICHIGAN STATE BLOCK GRANT PROGRAM
AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2012* to FY-2020

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

Airport Name: Dupont Lapeer Airport	Airport Identifier: D95	Date prepared:6-20-11	Revised:
Associated City: Lapeer, MI		Prepared By: RAL	
Sponsor: Mayfield Township		Sponsor email address & phone: ftor@charter.net ; 810-614-9346	
Airport Identifier: D95	NPIAS Airport Code: C	FINAL ACIP due to MDOT AERO: no later than 8/03/10	

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.
	Carryover-\$134,890										
2012	Install AWOS PH II	Pending eALP	ST-EQ-WX	44	\$33,250			\$875	\$875	\$35,000	This project includes additional funding required for land acquisition, tree clearing, and site improvements for the new AWOS system.
	Carryover-\$251,640										
2013	Taxistreet, Entrance Road, and Parking Lot Rehabilitation	Yes	RE-TW-IM	64	\$401,640	\$25,860		\$11,250	\$11,250	\$450,000	This project includes the rehabilitation and drainage improvements of the existing taxistreets around the t-hangars and rehabilitation of the existing entrance road and parking lot. The existing pavements are approx. fifteen years old and are showing signs of distress and the FOD potential is high. (PCI 32-2010) (CAT Ex Complete)
	Carryover-\$0										
2014	Runway 9/27 Environmental Assessment	Pending eALP	CA-RW-CO	61	\$142,500			\$3,750	\$3,750	\$150,000	The airport has had an increase in demand for runway length, letters requesting this additional length were presented for project justification. The current 3800' north/south runway 18/36 is insufficient in length to support the jet traffic which will commit to using and be based the airport. The runway will serve as the primary runway in a east/west orientation. An EA to provide review for areas such as wetlands and land acquisition would be needed.
2014	Runway 9/27 Design Phase I	Pending eALP	CA-RW-CO	61		\$142,500		\$3,750	\$3,750	\$150,000	The extension of runway 9/27 will require survey, soil borings, and design engineering to develop grading limits for the project for wetland delineation or other environmental impacts associated with the EA. It will also develop the environmental permit for the project including wetland and other environmental impacts after the completion of the EA process.
	Carryover-\$										
2015	Wetland Mitigation	Pending eALP	CA-RW-CO	61			TBD			TBD	There will be wetland mitigation required for the runway 9-27 construction project. At this time an approximate acreage has not been determined, however, as part of the eALP process, a general area will be estimated and a final acreage determined as part of the preliminary design and EA process.
2015	Runway 9/27 Land Acquisition	Pending eALP	CA-RW-CO	61			TBD			TBD	A specific areage for land acquisition for the runway 9-27 construction has not been determined yet. As part of the eALP process, a more specific number will be generated and provided as part of the MAP meeting.
	Carryover-\$302,950										
2016	Runway 9/27 Design Phase II	Pending eALP	CA-RW-CO	61	\$150,000	\$154,000		\$8,000	\$8,000	\$320,000	This will include the final design for Runway 9/27 including electrical design and final plans and specifications.
	Carryover-\$0										
2017	Runway 9/27 (4000x75') Construction	Pending eALP	CA-RW-CO	61	\$150,000		\$5,236,500	\$141,750	\$141,750	\$5,670,000	The airport has had an increase in demand for runway length, letters requesting this additional length were presented for project justification. The current 3800' north/south runway 18/36 is insufficient in length to support the jet traffic which will commit to using and be based the airport. The runway will serve as the primary runway in a east/west orientation.
2017	ALP Update	Pending eALP	CA-RW-CO	61			\$71,250	\$1,875	\$1,875	\$75,000	A airport layout plan update will likely be required after the construction of the new runway to update areas that were affected by the project.
	Carryover- \$0										
2018	Advance Funding to 2020										This years entitlement funding will be advanced to 2020 to construct the site for new box hangars.
	Carryover- \$150,000										
2019	Advance Funding to 2020										This years entitlement funding will be advanced to 2020 to construct the site for new box hangars.
	Carryover- \$300,000										
2020	Box Hangar Site Development	Pending eALP	ST-BD-MS	31	\$446,500			\$11,750	\$11,750	\$470,000	This project includes the construction of a new entrance road, taxilanes, and aprons for future box hangars. There have been numerous requests for box hangars at the airport to support storage for larger aircraft. The project will allow for the development for three new hangars.
	Carryover-\$0										

* 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

ENGINEERING COST ESTIMATE

PROJECT: Rehabilitate Taxistreets, Entrance Road, and Parking Lot
 LOCATION: Dupont Lapeer Airport
 CITY: Lapeer, MI
 DATE: 7/13/10
 PREPARED BY: BJH/RAL
 REVISED BY: RAL

FINAL DESIGN
 PROJECT PROGRAMMING
 FEASIBILITY STUDY
 STATE PLANNING
 BASED ON FY 2011 DOLLARS

WORK DESCRIPTION: Rehabilitate Taxistreets around Mid Field T-hangar area (8370 SY), Rehabilitate Taxistreets around North T Hangar Area (2813 SY), Rehabilitate Parking Lot and Entrance Road (3888 SY) Taxistreets include connectors to T Hangars, Improve Drainage in MidField T Hangar area, Improve Slopes along North T- hangar Taxistreets

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Mobilization and General Conditions	LS	1	\$ 15,000.00	\$ 15,000
Safety and Security	LS	1	\$ 5,000.00	\$ 5,000
Unclassified Excavation	CYD	1,500	\$ 5.00	\$ 7,500
Bituminous Surface (3")	TON	2,700	\$ 85.00	\$ 229,500
Cold Mill Existing Pavement	SY	15,071	\$ 1.50	\$ 22,607
Fine Grade & Compact Aggregate Base	SY	15,071	\$ 1.50	\$ 22,607
Pavement Marking	LS	1	\$ 2,000.00	\$ 2,000
Drainage Structure (incl cover)	EA	3	\$ 2,500.00	\$ 7,500
Drainage Pipe	LF	700	\$ 40.00	\$ 28,000
Underdrain	LF	2,000	\$ 5.00	\$ 10,000
Turfing and Mulching	AC	2	\$ 3,000.00	\$ 6,000
CONSTRUCTION TOTAL = \$				355,713
CONSTRUCTION CONTINGENCIES (15%) = \$				53,357
CONSTRUCTION TOTAL = \$				409,070
ENGINEERING DESIGN = -				
CONSTRUCTION ADMIN (10%) = \$				40,907
				\$ 449,977
PROJECT YEAR BUDGET ESTIMATE = \$				450,000



Note: These costs were developed without the benefit of field surveys or soils investigation.
 A final cost estimate will be dependent upon development of these items and further design.

ENGINEERING COST ESTIMATE

PROJECT: Runway 9/27 & Parrallel Taxiway
 LOCATION: Dupont Lapeer Airport
 CITY: Lapeer, MI
 DATE: 7/6/11
 PREPARED BY: BJH/RAL

FINAL DESIGN
 PROJECT PROGRAMMING
 FEASIBILITY STUDY
 STATE PLANNING
 BASED ON FY 2011 DOLLARS

WORK DESCRIPTION: Construct new crosswind runway 9/27 (4,000x75) and parallel taxiway. Construct new electrical system with MIRL, MITL, PAPI, and REIL.

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Mobilization and General Conditions	LS	1	\$200,000.00	\$200,000
Safety and Security	LS	1	\$50,000.00	\$50,000
Utility Allowance	DLR	2,500	\$1.00	\$2,500
5KV Cable w/ Counterpoise	LF	26,000	\$3.00	\$78,000
600V Cable w/ Counterpoise	LF	32,000	\$2.00	\$64,000
New Electrical Vault Building	LS	1	\$20,000.00	\$20,000
New Electrical Vault Equipment	LS	1	\$25,000.00	\$25,000
Relocate Existing Vault Equipment	LS	1	\$30,000.00	\$30,000
MIRL w/lens	EA	56	\$700.00	\$39,200
MITL w/lens	EA	96	\$700.00	\$67,200
Taxiway guidance signs	EA	12	\$3,000.00	\$36,000
REIL	SET	2	\$15,000.00	\$30,000
PAPI	SET	2	\$20,000.00	\$40,000
Electrical Ducts (5@70'each)	LF	350	\$50.00	\$17,500
Directional Bore Ducts	LF	250	\$45.00	\$11,250
Clear & Grub	AC	45	\$2,500.00	\$112,500
Unclassified Excavation	CY	205,000	\$3.00	\$615,000
Offsite Borrow	CY	50,000	\$7.00	\$350,000
Sand Subbase (24")	CY	36,700	\$15.00	\$550,500
Gravel Base (8")	CY	12,300	\$33.00	\$405,900
Bituminous Surface (4")	TON	13,200	\$60.00	\$792,000
Drainage Structures	EA	15	\$2,500.00	\$37,500
Drainage Pipe	LF	4,000	\$50.00	\$200,000
Underdrain	LF	20,000	\$5.00	\$100,000
County Drain Enclosure (Size TBD)	LF	400	\$1,000.00	\$400,000
Pavement Marking	LS	1	\$20,000.00	\$20,000
Turfing and Mulching	AC	60	\$3,000.00	\$180,000
				CONSTRUCTION TOTAL = \$ 4,474,050
				CONSTRUCTION CONTINGENCIES (15%) = \$ 671,108
				CONSTRUCTION TOTAL = \$ 5,145,158
				ENGINEERING DESIGN+PERMIT (9%) = \$ 463,064
				CONSTRUCTION ADMIN (10%) = \$ 514,516
				\$ 6,122,737
				PROJECT YEAR BUDGET ESTIMATE = \$ 6,130,000



Note: These costs were developed without the benefit of field surveys or soils investigation. A final cost estimate will be dependent upon development of these items and further design.

ENGINEERING COST ESTIMATE

PROJECT: Box Hangar Site Development
 LOCATION: Dupont Lapeer Airport
 CITY: Lapeer, MI
 DATE: 7/13/11
 PREPARED BY: BJH/RAL

FINAL DESIGN
 PROJECT PROGRAMMING
 FEASIBILITY STUDY
 STATE PLANNING
 BASED ON FY 2011 DOLLARS

WORK DESCRIPTION: Construct access road, taxilanes, and aprons for proposed box hangar locations

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Mobilization and General Conditions	LS	1	\$ 20,000.00	\$ 20,000
Safety and Security	LS	1	\$ 10,000.00	\$ 10,000
Clear & Grub	AC	5	\$ 3,500.00	\$ 17,500
Unclassified Excavation	CY	5,913	\$ 4.00	\$ 23,650
Sand Subbase	CY	4,300	\$ 20.00	\$ 86,000
Gravel Base	CY	1,075	\$ 37.00	\$ 39,775
Bituminous Surface (3")	TON	1,161	\$ 100.00	\$ 116,100
Pavement Removal	SY	1,450	\$ 2.00	\$ 2,900
Pavement Marking (Taxiway)	LS	1	\$ 2,000.00	\$ 2,000
Drainage Pipe	LF	300	\$ 50.00	\$ 15,000
Drainage Structure (incl cover)	EA	2	\$ 2,500.00	\$ 5,000
Soil Erosion & Sedimentation Controls	LS	1	\$ 4,000.00	\$ 4,000
Turfing and Mulching	AC	2	\$ 3,000.00	\$ 6,000
CONSTRUCTION TOTAL = \$				347,925
CONSTRUCTION CONTINGENCIES (15%) = \$				52,189
CONSTRUCTION TOTAL = \$				400,114
ENGINEERING DESIGN (7%) = \$				28,008
CONSTRUCTION ADMIN (10%) = \$				40,011
\$				468,133
PROJECT YEAR BUDGET ESTIMATE = \$				470,000



Note: These costs were developed without the benefit of field surveys or soils investigation.
 A final cost estimate will be dependent upon development of these items and further design.

DUPONT LAPEER AIRPORT

LAPEER, MICHIGAN



FAA IDENTIFIER: D95
STATE ID: 44-01

AIRPORT DEVELOPMENT PLAN - YEARS 2012 TO 2020

<p>YEAR - 2012</p> <p>① — INSTALL AWOS PH II</p>
<p>YEAR - 2013</p> <p>Ⓐ — TAXISTREET, ENTRANCE ROAD, AND PARKING LOT REHABILITATION</p>
<p>YEAR - 2014</p> <p>Ⓑ — RUNWAY 9/27 ENVIRONMENTAL ASSESSMENT</p> <p>Ⓑ — RUNWAY 9/27 DESIGN PHASE I</p>
<p>YEAR - 2015</p> <p>Ⓑ — WETLAND MITIGATION</p> <p>Ⓑ — RUNWAY 9/27 LAND ACQUISITION</p>
<p>YEAR - 2016</p> <p>Ⓑ — RUNWAY 9/27 DESIGN PHASE II</p>
<p>YEAR - 2017</p> <p>Ⓑ — RUNWAY 9/27 CONSTRUCTION</p>
<p>YEAR - 2018</p> <p>CARRY FORWARD TO 2020</p>
<p>YEAR - 2019</p> <p>CARRY FORWARD TO 2020</p>
<p>YEAR - 2020</p> <p>Ⓒ — BOX HANGAR SITE DEVELOPMENT</p>

