

**MICHIGAN STATE BLOCK GRANT PROGRAM
AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2012 to FY-2021**

Airport Name: Lakeview - Griffith Field										Airport Identifier: 13C		Date prepared: October 18, 2011
Associated City: Lakeview, Michigan										Prepared By: Village of Lakeview/Prein&Newhof		
Sponsor: Village of Lakeview										NPIAS Airport Code**: C		Sponsor contact info: james@jamesrfreed.com
Development Year	Project Description	On ALP*? (Y or N)	ACIP** Code	NPIAS** Priority Rating	Federal Entitlements	Federal Apportionment	Federal Discretionary	State	Local	Total	Remarks/Item Justification	
2012	No Project (Carry Over to 2013)	n.a.										
2013	Overlay Runway 9/27	yes	RE-RW-IM	68	\$273,600			\$7,200	\$7,200	\$288,000	A 3/4" layer of PFC will be applied to maintain and improve runway surface conditions. Runway was paved in 1991 and is showing signs of distress. Existing cracks will be repaired prior to overlay construction. The most recent PCI rating was 78.	
2014	Rehabilitate Terminal Apron	yes	RE-AP-IM	58	\$175,750			\$4,625	\$4,625	\$185,000	The existing apron is over 20 years old and show signs of distress. Pavement will be rubblized, graded, compacted and repaved. Current PCI rating is 85.	
2015	Rehabilitate Taxiway A (east end)	yes	RE-TW-IM	64	\$195,130		\$194,370	\$10,250	\$10,250	\$410,000	The existing eastern portion of the taxiway has severe settlement, heaving and ride quality issues. The condition of the pavement is such that the primary users of the airport, agricultural spraying aircraft, will not use it due to the undulations and potential for propeller or applicator strikes. The cause of uneven pavement will be investigated and remedy constructed. The current PCI for the entire taxiway (east and west ends) is 95.	
2016	Construct 6-Unit Tee Hangar	yes	ST-BD-MS	31	\$149,150			\$3,925	\$3,925	\$157,000	The additional hangers will provide revenue for the airport. Existing buildings have been a source of local funding for future projects. There is an existing list of tenants looking for hangar space on the airport. The hangars will be shown on the 2011 ALP update.	
2017	EA for Runway Extension	yes	EN-PL-MA	64	\$52,250			\$1,375	\$1,375	\$55,000	EA needed to study runway extension project.	

Development Year	Project Description	On ALP*? (Y or N)	ACIP** Code	NPIAS** Priority Rating	Federal Entitlements	Federal Apportionment	Federal Discretionary	State	Local	Total	Remarks/Item Justification
2018	Land Acquisition for Runway Extension	yes	ST-LA-SZ	42	\$90,250			\$2,375	\$2,375	\$95,000	Land Acquisition needed to clear approaches for runway extension.
2019	Design for Runway Extension	yes	CA-RW-EX	53	\$47,500			\$1,250	\$1,250	\$50,000	Design of runway extension. Justification for runway extension will be noted in ALP and based on a user survey.
2020	700' Runway Extension (4,200' Total)	yes	CA-RW-EX	53	\$410,850		\$288,350	\$18,400	\$18,400	\$736,000	Proposed extension of runway 9/27 to a full 4,200 feet to accommodate the anticipated increase in turboprop aircraft based at the airport. Several crop dusting operations are based at this airport. Newer agricultural aircraft are turboprops which carry significantly payloads and require more operational runway length.
2021	Fuel Farm (100 LL)	yes	OT-OT-FF	18	\$150,000	\$22,900		\$4,550	\$4,550	\$182,000	Existing Fuel Farm has limited capacity and does not provide self service operations. Project is to replace the existing above ground tank system with a standard above ground aviation fuel farm. A card reader will be installed to make it easier for pilots to obtain fuel when staff is not present.

*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 should be completed
(Refer to Airport Code spreadsheet provided on MDOT Aeronautics website under Block Grant Program for specific airport code)

MICHIGAN DEPARTMENT OF TRANSPORTATION
Bureau of Aeronautics - Airports Division

2014 Cost Estimate

Airport: Lakeview - Griffith Field

Development Item: Rehabilitate Terminal Apron

Prepared By: Prein&Newhof

Work Item Description	Estimated Quantity	Unit	Estimated Unit Price*	Amount
Mobilization & General Conditions	1	LSUM	\$15,000.00	\$15,000
Safety & Security	1	LSUM	\$7,250.00	\$7,250
Pulverize Bituminous Pavement, Less Than 6" Thickness	8,500	SYD	\$1.00	\$8,500
Fine Grade & Compact Aggregate Base Course/Pulverized Bituminous Pavement	8,500	SYD	\$1.00	\$8,500
Salvage Pulverized Material	700	CYD	\$5.00	\$3,500
Bituminous Aggregate Surface Course, 20AAX Composition	1,400	TON	\$75.00	\$105,000
Airport Pavement Marking, Solid, Yellow, With Reflective Beads	3,000	SFT	\$0.50	\$1,500
Pipe Underdrain 6", Type as Specified	700	LFT	\$5.00	\$3,500
Turfing With Standard Mixture B	1.0	ACRE	\$1,000	\$1,000
Topsoiling From Off-Site, Material Furnished By Contractor	525	CYD	\$10	\$5,250
Wood Fiber Mulch	1.0	ACRE	\$1,000	\$1,000

Construction Total = \$160,000
Engineering = \$25,000
Total = \$185,000

*Unit Prices based on F.Y. 2011 dollars

MICHIGAN DEPARTMENT OF TRANSPORTATION
Bureau of Aeronautics - Airports Division

2020 Cost Estimate

Airport: Lakeview - Griffith Field

Development Item: 700' Runway Extension (4,200' Total)

Prepared By: Prein&Newhof

Work Item Description	Estimated Quantity	Unit	Estimated Unit Price	Amount
Bituminous Aggregate Surface Course, 20AAX Composition	1,900	TON	\$70	\$133,000
Airport Pavement Marking, Solid, White, With Reflective Beads	15,000	SFT	\$0.25	\$3,750
Airport Pavement Marking, Solid, Yellow, With Reflective Beads	5,000	SFT	\$0.25	\$1,250
Concrete Culvert & Sewer Pipe 12", Reinforced, C76, Class IV	2,400	LFT	\$25.00	\$60,000
Precast Concrete End Section For 12" Pipe	4	EACH	\$750	\$3,000
Catch Basin 4' Diameter, Type 2, Through 8' Depth	4	EACH	\$1,500	\$6,000
Turfing With Standard Mixture B	9	ACRE	\$600	\$5,400
Topsoiling From Off-Site, Material Furnished By Contractor	4,800	CYD	\$12	\$57,600
Wood Fiber Mulch	9	ACRE	\$800	\$7,200

Construction Total = \$640,000
Construction Engineering = \$96,000
Total = \$736,000

*Unit Prices based on F.Y. 2011 dollars

MICHIGAN DEPARTMENT OF TRANSPORTATION
 Bureau of Aeronautics - Airports Division

2021 Cost Estimate

Airport: Lakeview - Griffith Field

Development Item: Fuel Farm (100LL)

Prepared By: Prein&Newhof

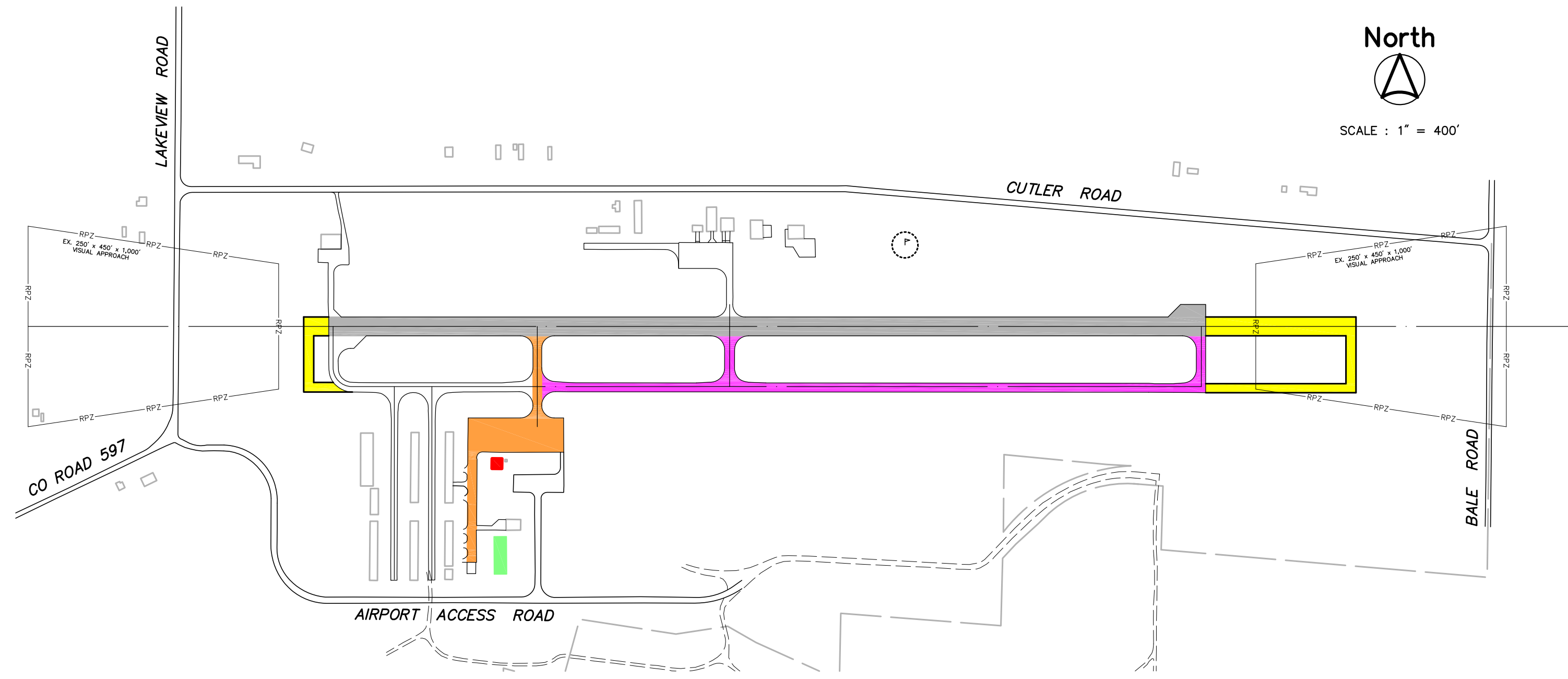
Work Item Description	Estimated Quantity	Unit	Estimated Unit Price	Amount
Mobilization and General Conditions	1	LSUM	\$8,300	\$8,300
Aviation Fuel Tank including appurtenances	1	EACH	\$75,000	\$75,000
Fuel Dispensors, Cabinets, Pumps and accessories	1	EACH	\$34,000	\$34,000
Fuel Piping	50	LFT	\$120	\$6,000
Self Serve Fuel System (Credit Card reader)	1	EACH	\$14,500	\$14,500
Alarm and Emergency Stop System	1	EACH	\$15,500	\$15,500
Site Work	1	LSUM	\$5,000	\$5,000

Construction Total = \$158,300
 Engineering = \$23,700
 Total = \$182,000




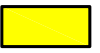


*Unit Prices based on F.Y. 2011 dollars



SCALE : 1" = 400'



LEGEND

	2013 RUNWAY OVERLAY		2016 6-UNIT TEE HANGAR
	2014 TERMINAL APRON REHAB		2020 700' RUNWAY EXTENSION
	2015 TAXIWAY REHAB		2021 FUEL FARM UPGRADE

LAKEVIEW-GRIFFITH FIELD
LAKEVIEW, MICHIGAN
2012-2021 ACIP PROGRAM

Prein&Newhof
2100649
OCTOBER, 2011