

**MICHIGAN AIRPORT DEVELOPMENT
PROGRAM PACKAGE
MDOT Office of Aeronautics**

**Airport Capital Improvement Plan
2015-2020**

Prepared for:

**Fremont Municipal Airport
Fremont, Michigan**

October 15, 2014

Contact:
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Prepared by:

Mead&Hunt

MICHIGAN STATE BLOCK GRANT PROGRAM
MULTI-YEAR AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2016* to FY-2019

*ACIP includes current development year (2014 already programmed - minor changes acceptable)

Airport Name: Fremont Municipal Airport	Associated City: Fremont, MI	Date last revised: 6/17/2014	Prepared By: GWVS, JAK, SADW tblake@cityoffremont.net, (231) 924-2101
FINAL ACIP due to MDOT-AERO no later than 10/15/14			
Sponsor: City of Fremont, MI	Project Identifier: FFX	Shown on ALP? (Yes or No)	ACIP Code**
Development Year	Project Description	NP/S	Priority Rating**
	Carryover: \$108,335		Federal Entitlements
2015	Carryover Funds to 2016		Federal Apportionment
	Carryover: \$258,038		Federal Discretionary
	(Design) Rehabilitate Runway, 18/36 PFC	Yes	RE-RW-CO
	Replacement	72	\$80,000
2016	Carryover: \$316,938		\$5,000
	(Design) Rehabilitate Runway, 18/36 PFC	Yes	RE-RW-CO
	Replacement	72	\$468,938
2017	Carryover: \$0		\$608,064
	Rehabilitate Runway, 18/36 PFC	Yes	RE-RW-CO
	Replacement	72	\$76,500
2018	Carryover Funds to 2019		\$76,500
	Carryover: \$150,000		\$1,530,000
2019	(Design) Construct Building, 10-Unit T Hanger	Yes	ST-BD-MS
	Carryover: \$255,000	31	\$45,000
2020	Construct Building, 10-Unit T Hanger	Yes	ST-BD-MS
	Carryover: \$0	31	\$405,000
			\$27,000
			\$24,000
			\$24,000
			\$480,000

**In accordance with FAA Order 5100.39A, Appendix 6 - Fields need to be completed

ENGINEERING COST ESTIMATE

PROJECT: Rehabilitate Runway, 18/36 PFC Replacement
 LOCATION: Fremont Municipal Airport
 CITY: Fremont, MI
 DATE:
 PREPARED BY: JAK
 REVISED: 7/23/2014

FINAL DESIGN
 PROJECT PROGRAMMING
 FEASIBILITY STUDY
 STATE PLANNING
 BASED ON FY 2014 DOLLARS

WORK DESCRIPTION: Replacement of the original (1997) PFC on Runway 18/36 (5750' X 100') and relevant connectors; remaining airfield marking and crack sealing update

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Mobilization and General Conditions	LS	1	\$ 75,000.00	\$ 75,000
Safety and Security	LS	1	\$ 10,000.00	\$ 10,000
Permits	DLR	1,000	\$ 1.00	\$ 1,000
Cold Mill Existing Asphalt (2.75")	SYD	66,065	\$ 2.50	\$ 165,163
New Asphalt Leveling Course (2")	TON	8,175	\$ 75.00	\$ 613,125
Porous Friction Course (3/4" thickness)	TON	2,790	\$ 75.00	\$ 209,250
Runway Marking, Half-rate, White	SF	30,000	\$ 1.00	\$ 30,000
Runway Marking, White	SF	30,000	\$ 1.00	\$ 30,000
Taxiway Marking, Half-rate, Yellow	SF	2,500	\$ 2.00	\$ 5,000
Taxiway Marking, Yellow	SF	2,500	\$ 2.00	\$ 5,000
Additional Pavement Marking and Crack Sealing	LS	1	\$ 20,000.00	\$ 20,000
Shoulder Restoration/Topsoil	STA	125	\$ 250.00	\$ 31,250
Seed and Mulch	AC	3	\$ 4,000.00	\$ 12,000
<hr/>				
Mead & Hunt CONSTRUCTION TOTAL = \$ 1,206,788 CONSTRUCTION CONTINGENCIES (15%) = \$ 181,018 CONSTRUCTION TOTAL = \$ 1,387,806				
ENGINEERING DESIGN = \$ 97,146 CONSTRUCTION ADMIN = \$ 138,781 \$ 1,623,733				
PROJECT YEAR BUDGET ESTIMATE = \$ 1,630,000				

Note 1: 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.

**CONCEPT (PROJECT) NARRATIVE AND JUSTIFICATION SHEET FOR
AIRPORT CAPITAL IMPROVEMENT PROGRAM (ACIP)**

Airport and Associated City Fremont Municipal Airport	Concept(s) Development Year 2016 and 2017	
Concept(s) Description Rehabilitate Runway: 18/36 PFC Replacement		
Concept(s) Narrative/Justification (see guidance on preparing your project's justification) <p>The original porous friction course (PFC) on Runway 18/36 south of 9/27 was built in 1997 and is at the beginning stages of decline. The PFC may exhibit more rapid decline towards the end of its life and create a significant foreign object debris (FOD) issue. The runway appears to suffer only from weathering/age related distress as opposed to aircraft loading issues. As a PFC, this surface is not a candidate for typical crack sealing measures which would choke off the water dispersion. Other than deterioration from age, the airport is pleased with the drainage performance and functionality of the PFC.</p> <p>Currently, the City has implemented a regular schedule of sweeping to eliminate FOD issues stemming from the PFC.</p>		
PCI Information for pavement rehabilitation (Please provide PCI rating(s) and year surveyed for proposed project)		
Section RW1836FM-10	Date of PCI Survey 2010	PCI Rating 82
Section	Date of PCI Survey	PCI Rating
Section	Date of PCI Survey	PCI Rating
ALP Verification (Please provide date of approved ALP and applicable sheet number(s) where proposed project is located)		
Verify Project is on ALP <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	Date of Original FAA Approved ALP August 1994	Sheet Number(s) 3
Date(s) of Approved Update(s)		
Comments The Airport is currently in the process of completing an ALP update project.		

ALP Note: If not on Airport Layout Plan (ALP), project cannot be programmed until the proposed development, if applicable is on an approved ALP.

ENGINEERING COST ESTIMATE

PROJECT: Construct Building, 10-Unit T Hangar
 LOCATION: Fremont Municipal Airport
 CITY: Fremont, MI
 DATE: 7/28/09
 PREPARED BY: BJH
 REVISED: JAK 6-26-13

FINAL DESIGN
 PROJECT PROGRAMMING
 FEASIBILITY STUDY
 STATE PLANNING
 BASED ON FY 2013 DOLLARS

WORK DESCRIPTION: Construct 10 unit T-Hangar (prior to taxilanes)

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Mobilization and General Conditions	LS	1	\$ 10,000.00	\$ 10,000
Safety and Security	LS	1	\$ 10,000.00	\$ 10,000
Permit Allowance	DLR	2,000	\$ 1.00	\$ 2,000
Unclassified Excavation	CYD	830	\$ 6.00	\$ 4,980
Sand Subbase	CYD	630	\$ 12.00	\$ 7,560
10 Unit T-Hangar (includes foundation)	LS	1	\$ 400,000.00	\$ 400,000
Underdrain	LFT	500	\$ 5.00	\$ 2,500
Utility Allowance	DLR	5,000	\$ 1.00	\$ 5,000
CONSTRUCTION TOTAL = \$				442,040
CONSTRUCTION CONTINGENCIES (5%) = \$				22,102
CONSTRUCTION TOTAL = \$				464,142
ENGINEERING DESIGN (NOTE 2) = \$				50,000
CONSTRUCTION ADMIN (10%) = \$				15,000
				\$ 529,142
PROJECT YEAR BUDGET ESTIMATE = \$ 530,000				

Note 1: 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.

Note 2: Engineering design includes taxilane design which will be constructed in 2021. CA fee is split between the two projects.



**CONCEPT (PROJECT) NARRATIVE AND JUSTIFICATION SHEET FOR
AIRPORT CAPITAL IMPROVEMENT PROGRAM (ACIP)**

Airport and Associated City Fremont Municipal Airport	Concept(s) Development Year 2019 and 2020	
Concept(s) Description Construct Building, 10-Unit T Hangar		
Concept(s) Narrative/Justification (see guidance on preparing your project's justification) The sponsor has very few empty hangars and would like to develop a new T-hangar area. The design shall include the hangar building plus taxilanes to serve the tenants.		
PCI Information for pavement rehabilitation (Please provide PCI rating(s) and year surveyed for proposed project)		
Section	Date of PCI Survey	PCI Rating
Section	Date of PCI Survey	PCI Rating
Section	Date of PCI Survey	PCI Rating
ALP Verification (Please provide date of approved ALP and applicable sheet number(s) where proposed project is located)		
Verify Project is on ALP <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	Date of Original FAA Approved ALP	Sheet Number(s)
August 1994 4		
Date(s) of Approved Update(s)		
Comments The Airport is currently in the process of completing an ALP update project.		

ALP Note: If not on Airport Layout Plan (ALP), project cannot be programmed until the proposed development, if applicable is on an approved ALP.

FREMONT MUNICIPAL AIRPORT
FREMONT, MICHIGAN

MULTI-YEAR DEVELOPMENT PLAN - YEARS 2015 TO 2020

YEAR - 2015

Carryover Funds to 2016

YEAR - 2016 **A** — (Design) Rehabilitate Runway, 18/36 PFC Replacement

YEAR - 2017 **A'** — Rehabilitate Runway, 18/36 PFC Replacement

YEAR - 2018 Carryover Funds to 2019

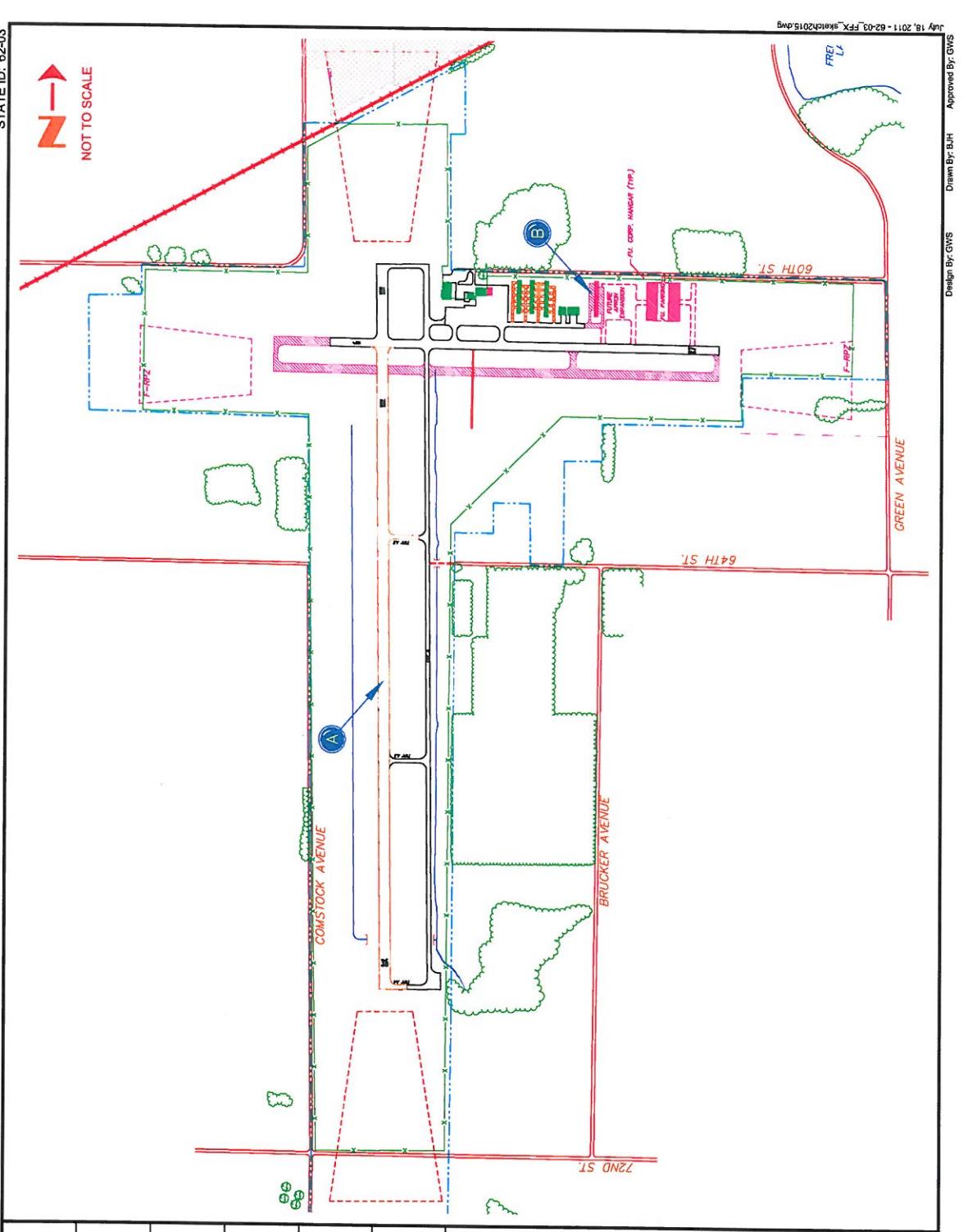
YEAR - 2019 **B** — (Design) Construct Building, 10-Unit T Hangar

YEAR - 2020 **B** — Construct Building, 10-Unit T Hangar

FAA IDENTIFIER: FFX

STATE ID: 62-03

NOT TO SCALE



18-18-2011-62-03-FPX-sketch2015.dwg

Design By: GWS Drawn By: BWH Approved By: GWS