



**MICHIGAN AIRPORT DEVELOPMENT
AID PROGRAM**

TEN-YEAR DEVELOPMENT PLAN
2012-2022

FOR

**ALPENA COUNTY REGIONAL AIRPORT
ALPENA, MICHIGAN**

REVISED NOVEMBER 21, 2011

Submitted by:

Cameron Habermehl, Chairman

Prepared by:
Reynolds, Smith & Hills, Inc.
G-3101 West Bristol Road
Flint, Michigan 48507

MICHIGAN STATE BLOCK GRANT PROGRAM

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

*ACIP includes current development year (2010 already programmed - minor changes acceptable)

Airport Name: Alpena County Regional Airport	Airport Identifier: APN	Date prepared: REVISED 11/9/20
Associated City: Alpena, Michigan		Prepared By: RS&H
Sponsor: County of Alpena	Airport Code: B	Sponsor email address & phone: billmroberts@alpenacounty.org 989-354-2907

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	Rehabilitation of RW by ANG										
2012	Repaint Airfield	Y	SA RW VI	80	\$77,710			\$2,045	\$2,045	\$81,800	Airfield is in need of repainting pavement markings per letter by certification inspector. RW 1-19 and part of TW C were painted in 2011 by other projects.
2012	New Terminal Conceptual Design	Y	CA TE CO	47	\$50,350			\$1,325	\$1,325	\$53,000	Present study indicates a need for new engery systems, more holdroom space, and more space for TSA security inspections and operations.
2012	Construct 10-Unit T-Hangar	Y	ST BD MS	32	\$361,000			\$9,500	\$9,500	\$380,000	Construct T-Hangar to accommodate demand and provide revenue
2013	Passenger Boarding Bridge	NA	ST TE IM	35	\$249,650	\$82,850		\$8,750	\$8,750	\$350,000	Airline has requested PBB for safety and convenience of passengers
2014	Terminal Construction Phase 1	Y	CA TE CO	47	\$1,000,000			\$25,640	\$25,640	\$1,025,600	See Above. Existing Terminal may have to be expanded/rehabilitated over a longer period if additional funding cannot be secured thru EDA
2015	Terminal Construction Phase 2	Y	CA TE CO	47	\$1,000,000			\$25,640	\$25,640	\$1,025,600	or other sources.
2016	Airfield Pavement Maintenance, Pavt Marking	NA	RE RW IM	70	\$85,500			\$2,250	\$2,250	\$90,000	
2017	LED Ligning on TWs C, E, G	Y	RE TW LI	66	\$150,000	\$18,624		\$4,438	\$4,438	\$177,500	Replace the existing lamps and fixtures with LEDs to reduce cost of operation
2018	Airfield Pavement Maintenance, Pavt Marking	NA	RE RW IM	70	\$85,500			\$2,250	\$2,250	\$90,000	
2019	LED lighting on RW 01-19	Y	RE RW LI	70	\$98,800			\$2,600	\$2,600	\$104,000	Replace the existing lamps and fixtures with LEDs to reduce cost of operation
2020	Taxiway D EA and Wildlife Area Wetland Evaluation	Y	EN PL MA	66	\$114,000			\$3,000	\$3,000	\$120,000	EA required for wetlands delineation prior to design
2021	Airfield Pavement Maintenance, Crack Seal, Pavt Marking	NA	RE RW IM	70	\$150,100			\$3,950	\$3,950	\$158,000	
TOTAL								\$91,388	\$91,388	\$3,655,500	

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

PROPOSED PROJECTS

2012

- 1. TERMINAL EXPANSION AND ENERGY UPGRADE (NEW TERMINAL) PRELIMINARY DESIGN PHASE 1

- 1A. CONSTRUCT 10-UNIT T-HANGAR

2013

- 2. PASSENGER BOARDING BRIDGE

2014

- 3. TERMINAL CONSTRUCTION PHASE 1

2015

- 4. TERMINAL CONSTRUCTION PHASE 2

2016

- 5. AIRFIELD PAVEMENT MAINTENANCE, PAVEMENT MARKING

2017

- 6. LED LIGHTING ON TAXIWAYS C, E & G

2018

- 7. AIRFIELD PAVEMENT MAINTENANCE, PAVEMENT MARKING

2019

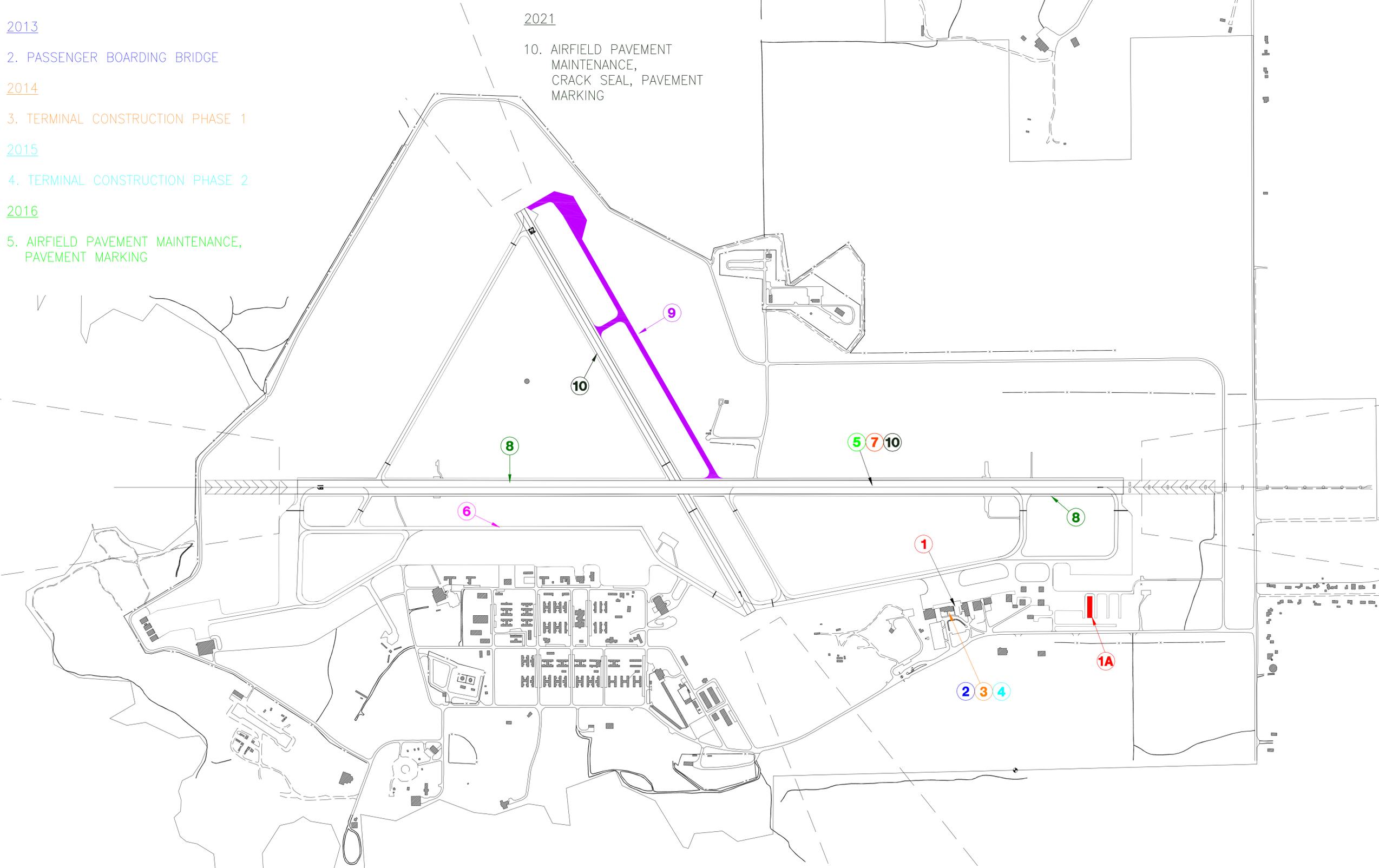
- 8. LED LIGHTING ON RUNWAY 01-19

2020

- 9. TAXIWAY D EA AND WILDLIFE AREA WETLAND EVALUATION

2021

- 10. AIRFIELD PAVEMENT MAINTENANCE, CRACK SEAL, PAVEMENT MARKING



RS&H Michigan, Inc.
 G-3101 West Bristol Road, Suite 300
 Flint, Michigan 48507
 810-232-6899 FAX 810-232-6840
 www.rsandh.com

ALPENA COUNTY REGIONAL AIRPORT

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 11-21-2011

REVIEWED BY: RTA

DRAWN BY: MDH

DESIGNED BY: MDH

© 2011 REYNOLDS, SMITH AND HILLS INC.

SHEET TITLE

**AIRPORT
 10 YEAR CIP**

SHEET NUMBER

PRELIMINARY ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

ALPENA COUNTY REGIONAL AIRPORT
ALPENA, MICHIGAN

NEW TERMINAL CONSTRUCTION

ITEM NO.	PAY ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	ESTIMATED UNIT COST	ESTIMATED TOTAL COST
1	New Terminal Construciton	SFT	10,000	\$200	\$ 2,000,000.00

TOTAL ESTIMATED CONSTRUTION COST \$ 2,000,000.00
ENGINEERING, ADMINISTRATION & CONTINGENCIES (+25%) \$ 500,000.00
TOTAL \$ 2,500,000.00

Justification: Present study indicates a need for new engery systems, more holdroom space, and more space for TSA security inspections and operations.

PRELIMINARY ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

ALPENA COUNTY REGIONAL AIRPORT
ALPENA, MICHIGAN

PASSENGER BOARDING BRIDGE

ITEM NO.	PAY ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	ESTIMATED UNIT COST	ESTIMATED TOTAL COST
1	Passenger Boarding Bridge	LSUM	1	\$350,000	\$ 350,000.00

TOTAL ESTIMATED CONSTRUCTION COST \$ 350,000.00
TOTAL \$ 350,000.00

Justification: Airline has requested PBB for safety and convenience of passengers

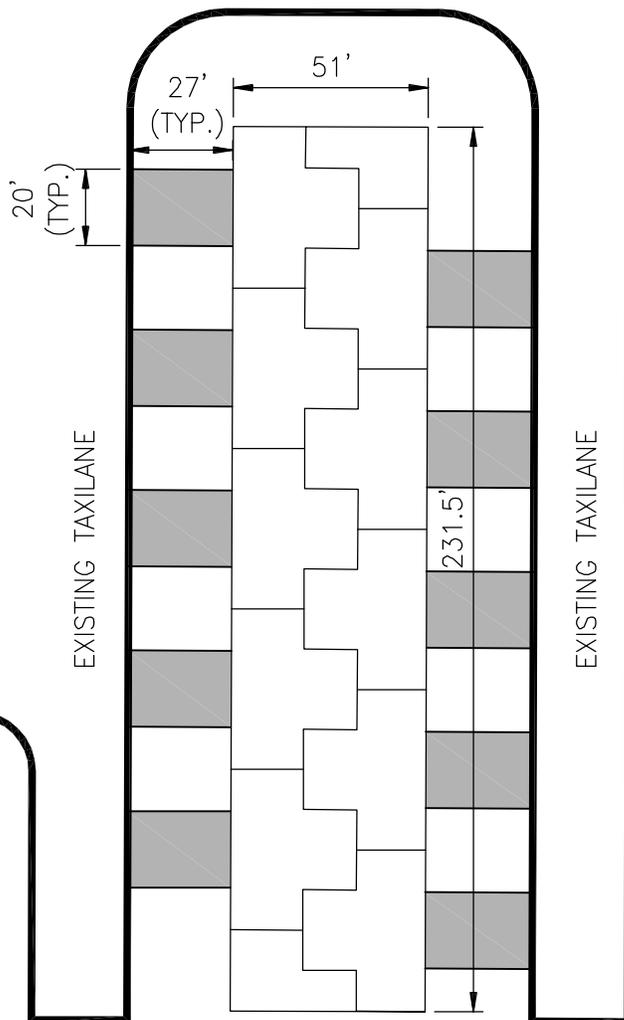
PROPOSED CONSULTANT BUDGET - PERSONNEL MAN-HOUR ASSIGNMENTS AND COSTS

TASK	PERSONNEL TITLES / HOURS							SUMMARY OF COSTS		
	Project Officer	Project Manager	Staff A/E	A/E Associate	Technician	Support	Total	TOTAL PERSONNEL EXPENSES	TOTAL OUT OF POCKET EXPENSES	TOTAL AMOUNT BY TASK
Task 1 - Existing Conditions Assessment	0	12	12	8	0	0	32	\$4,239.26	\$1,265	\$5,504
Task 2 - Preliminary Programming	0	16	20	0	0	0	36	\$5,272.84	\$0	\$5,273
Task 3 - Conceptual Terminal Alternatives	0	24	20	40	0	0	84	\$9,928.71	\$0	\$9,929
Task 4 - Conceptual Design Report	0	16	8	40	0	4	68	\$7,347.63	\$800	\$8,148
Task 5 - Conceptual Funding Report	0	20	4	2	0	4	30	\$4,541.06	\$300	\$4,841
Task 6 - Meetings/Presentations	4	16	8	16	0	0	44	\$6,225.00	\$2,302	\$8,527
Task 7 - Project Management and Coordination	4	20	8	0	0	4	36	\$5,478.92	\$0	\$5,479
Total Hours	8	124	80	106	0	12	330			
Hourly Rate	\$86.35	\$56.75	\$37.50	\$25.25	\$22.84	\$23.10				
Personnel Subtotal (Hrs. x Rate)	\$691	\$7,037	\$3,000	\$2,677	\$0	\$277	\$13,682			
Overhead (Personnel x 183.950%)	\$1,271	\$12,945	\$5,519	\$4,923	\$0	\$510	\$25,167			
Profit (Personnel x 12%)	\$235	\$2,398	\$1,022	\$912	\$0	\$94	\$4,662			
TOTAL	\$2,197	\$22,379	\$9,541	\$8,512	\$0	\$882	\$43,510	\$43,033		\$47,700
									ROUNDED	\$47,700

OTHER EXPENSES:

OUT OF POCKET EXPENSES	TASK 1	TASK 2	TASK 3	TASK 4	TASK 5	TASK 4	TASK 5	TOTAL
RS&H Expenses	\$1,265	\$0	\$0	\$800	\$300	\$2,302	\$0	\$4,667
TOTAL	\$1,265.00	\$0.00	\$0	\$800	\$300	\$2,302	\$0	\$4,667

EXISTING TAXILANE



PROPOSED 10 BAY
T-HANGAR

EXISTING TAXILANE

**ALPENA COUNTY
REGIONAL AIRPORT**

RS&H[®]
IMPROVING YOUR WORLD

**AIRPORT T-HANGAR
FIGURE**