

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: Ionia County Airport	Airport Identifier: Y70	Date prepared: 5/25/2011 Rev. 9/16/2011 RGN
Associated City: Ionia, Michigan		Prepared By: Mead & Hunt, Rodney Nettleton
Sponsor: Ionia County	NPIAS Airport Code: B	Sponsor email address & phone: Mari Droste, mdroste@ioniacounty.org, 616-527-5300

ACIP due to MDOT AERO: no later than 9/30/11

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.
	Carry Forward 2011										Carry forward from 2011 - \$95,151.00
2012	Terminal Expansion For ADA Compliance	Yes	CA TE IM	43	\$142,500	\$0	\$0	\$3,750	\$3,750	\$150,000	Modify existing terminal building to ADA requirements. The only access to the existing facility is by climbing steps at each of the three doors. Areas inside the existing facility that are restricted are restrooms and the pilot briefing room. The facility requires a ramp as a means of access to the facility, wider doors and accessible restrooms. The airport currently has tenants on the field who require accessible facilities.
2012	Pavement Marking and Crack Sealing	NA	RE RW IM	70	\$18,050	\$0	\$0	\$475	\$475	\$19,000	Improve safety with fresh paint on airport surfaces. Seal cracks to extend pavement life.
	Carry Forward 2012										Carry forward from 2012 - \$84,601.00
2013	Animal Control/Security Fence, Design	Yes	ST EQ SE	41	\$32,775	\$0	\$0	\$863	\$863	\$34,500	CAT-EX, Control access of deer and other wildlife to airfield. Improve safety. Design complete fence line.
	Carry Forward 2013										Carry forward from 2013 - \$201,826.00
2014	Animal Control/Security Fence, Phase-1	Yes	ST EQ SE	41	\$282,625	\$0	\$0	\$7,438	\$7,438	\$297,500	CAT-EX, Control access of deer and other wildlife to airfield. Improve safety. Installation of the woven wire wildlife fence.
2014	Pavement Marking and Crack Sealing	NA	RE RW IM	70	\$18,050	\$0	\$0	\$475	\$475	\$19,000	Improve safety with fresh paint on airport surfaces. Seal cracks to extend pavement life.
	Carry Forward 2014										Carry forward from 2014 - \$51,151.00
2015	Animal Control/Security Fence, Phase-2	Yes	ST EQ SE	41	\$201,151	\$31,599	\$0	\$6,125	\$6,125	\$245,000	CAT-EX, Control access of deer and other wildlife to airfield. Improve safety. Installation of the chain link fence and 3 gates
2016	Purchase S.R.E.	NA	ST EQ SN	47	\$71,250	\$0	\$0	\$1,875	\$1,875	\$75,000	Upgrade existing Snow Removal Equipment. An inventory of existing equipment is required.
2016	Pavement Marking and Crack Sealing	NA	RE RW IM	70	\$18,050	\$0	\$0	\$475	\$494	\$19,000	Improve safety with fresh paint on airport surfaces. Seal cracks to extend pavement life.
	Carry Forward 2016										Carry forward from 2016 - \$60,700
2017	Construct S.R.E. Storage Building	Yes	ST BD SN	39	\$150,000	\$0	\$0	\$3,947	\$3,947	\$157,895	CAT-EX, Design and construct building to get Snow Removal Equipment out of the weather.
2017	Drain Tiles for Runway 18/36	NA	RE RW IM	70	\$60,700	\$100,800	\$0	\$4,250	\$4,250	\$170,000	CAT-EX, Eliminate standing water on runway. Lengthen time runway can be used, improve safety.
2018	MITL on Parallel Taxiway	Yes	SP TW LI	77	\$150,000	\$106,500	\$0	\$6,750	\$6,750	\$270,000	CAT-EX, Improve safety during night operations on the Runway 9/27 parallel taxiway.
2018	Pavement Marking and Crack Sealing	NA	RE RW IM	70	\$0	\$18,050	\$0	\$475	\$475	\$19,000	Improve safety with fresh paint on airport surfaces. Seal cracks to extend pavement life.
2019	ALP Update	NA	PL PL MA	66	\$95,000	\$0	\$0	\$2,500	\$2,500	\$100,000	Update Airport Layout Plan
	Carry Forward 2019										Carry forward from 2019 - \$55,000
2020	EA for Runway 9/27 Extension	Yes	EN PL MA	66	\$118,750	\$0	\$0	\$3,125	\$3,125	\$125,000	Environmental Assessment for Rwy 9/27 extension. Assumed that E5 and E13 avigation easements will work for a 200' extension.
2020	Preliminary Engineering for Runway Ext.	Yes	CA RW EX	66	\$68,210	\$0	\$0	\$1,795	\$1,795	\$71,800	Preliminary engineering will be necessary to support the EA process for grading limits and general design considerations.
2020	Pavement Marking and Crack Sealing	NA	RE RW IM	70	\$18,050	\$0	\$0	\$475	\$475	\$19,000	Improve safety with fresh paint on airport surfaces. Seal cracks to extend pavement life.
2021	Design Runway Rehabilitation and Ext.	Yes	RE RW IM	70	\$142,500	\$0	\$0	\$3,750	\$3,750	\$150,000	Runway surface has reached the expected 20 year life and needs rehabilitation. Runway will be extended 200' at the same time as runway rehabilitation.
2022	Construct Runway Rehabilitation and Extension	Yes	RE RW IM	70	\$150,000	\$1,645,500	\$0	\$47,250	\$47,250	\$1,890,000	Runway surface has reached the expected 20 year life. Existing pavement removed, the aggregate base course fine graded, compacted and new bituminous pavement placed. Runway will be extended 200' at the same time as runway rehabilitation. Replace runway lights and signs.

*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

ENGINEERING COST ESTIMATE

PROJECT: Terminal Addition for ADA Requirements
 LOCATION: Ionia County Airport
 CITY: Ionia, MI
 DATE: 8/31/11
 PREPARED BY: RGN

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

WORK DESCRIPTION: Addition to the west end of the terminal building to accommodate handicap access into the terminal building, accessible restroom and accessible automobile parking.

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Mobilization and General Conditions	LS	1	\$5,000.00	\$5,000.00
Site Improvements	LS	1	\$10,500.00	\$10,500.00
Terminal Building Addition	LS	1	\$90,000.00	\$90,000.00
Utility Allowance	LS	1	\$4,000.00	\$4,000.00
Turfing and Mulching	AC	1	\$2,200.00	\$2,200.00
CONSTRUCTION TOTAL =				\$111,700
CONSTRUCTION CONTINGENCIES (10%) =				\$11,170
CONSTRUCTION TOTAL =				\$122,870
ENGINEERING DESIGN (12% of total project) =				\$14,744
CONSTRUCTION ADMIN (10%) =				\$12,287
				\$149,901
BUDGET ESTIMATE =				\$150,000



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: Animal Control Fencing
 LOCATION: Ionia County Airport
 CITY: Ionia, MI
 DATE: 5/25/11
 PREPARED BY: RGN
 Rev. 8/30/11 RGN

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

WORK DESCRIPTION: Perimeter Fence Design, Install Wildlife Control Fencing (approximately 13,000 L.F.)

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Mobilization and General Conditions	LS	1	\$11,000.00	\$11,000.00
10' Chain Link animal control fencing	LF	0	\$21.00	\$0.00
10' Wildlife control fencing	LF	13,000	\$15.00	\$195,000.00
Gates - 16' double leaf	EA	2	\$3,000.00	\$6,000.00
Gates - 16' double leaf Power	EA	1	\$8,000.00	\$8,000.00
Fence line clearing	STA	35	\$300.00	\$10,500.00
Turfing and Mulching	AC	2	\$2,000.00	\$4,000.00
CONSTRUCTION TOTAL =				\$234,500
CONSTRUCTION CONTINGENCIES (15%) =				\$35,175
CONSTRUCTION TOTAL =				\$269,675
ENGINEERING DESIGN (7% of total project) =				\$34,454
CONSTRUCTION ADMIN (10%) =				\$26,968
				\$331,097
BUDGET ESTIMATE =				\$332,000



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- 2013 - Design the airport perimeter fence.
- 2014 - Phase 1 installation of the wildlife fence and 3 gates
- 2015 - Phase 2 installation of chain link fence and 3 gates

ENGINEERING COST ESTIMATE

PROJECT: Animal Control Fencing
 LOCATION: Ionia County Airport
 CITY: Ionia, MI
 DATE: 6/11/10
 PREPARED BY: RGN
 Rev. 8/30/11 RGN

___ FINAL DESIGN
 ___ PROJECT PROGRAMMING
 ___ FEASIBILITY STUDY
x STATE PLANNING
 BASED ON FY 2011 Dollars

WORK DESCRIPTION: Install Chain Link Fencing (approximately 7,000 L.F.)

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Mobilization and General Conditions	LS	1	\$11,000.00	\$11,000.00
10' Chain Link animal control fencing	LF	7,000	\$21.00	\$147,000.00
10' Wildlife control fencing	LF	0	\$15.00	\$0.00
Gates - 16' double leaf	EA	3	\$3,000.00	\$9,000.00
Gates - 16' double leaf Power	EA	2	\$8,000.00	\$16,000.00
Fence line clearing	STA	15	\$300.00	\$4,500.00
Turfing and Mulching	AC	3	\$2,000.00	\$6,000.00
CONSTRUCTION TOTAL =				\$193,500
CONSTRUCTION CONTINGENCIES (15%) =				\$29,025
CONSTRUCTION TOTAL =				\$222,525
ENGINEERING DESIGN (7%) =				\$0
CONSTRUCTION ADMIN (10%) =				\$22,253
BUDGET ESTIMATE =				\$244,778
BUDGET ESTIMATE =				\$245,000



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- 2013 - Design the airport perimeter fence.
- 2014 - Phase 1 installation of the wildlife fence and 3 gates
- 2015 - Phase 2 installation of chain link fence and 3 gates

ENGINEERING COST ESTIMATE

PROJECT: Drain Tiles for Runway 18-36
 LOCATION: Ionia County Airport
 CITY: Ionia, MI
 DATE: 5/26/2011
 PREPARED BY: RGN

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

WORK DESCRIPTION: Install drain tiles on Runway 18-36

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Mobilization and General Conditions	LS	1	\$ 7,000.00	\$ 7,000
Safety and Security	LS	1	\$ 3,000.00	\$ 3,000
6" Underdrain	LFT	18,000	\$ 5.25	\$ 94,500
Underdrain Cleanout	EA	15	\$ 300.00	\$ 4,500
Drainage Structure, 4' with Cover	EA	4	\$ 2,200.00	\$ 8,800
RCCP	LFT	50	\$ 45.00	\$ 2,250
Turfing and Mulching	AC	2	\$ 3,000.00	\$ 6,000
CONSTRUCTION TOTAL = \$				126,050
CONSTRUCTION CONTINGENCIES (15%) = \$				18,908
CONSTRUCTION TOTAL = \$				144,958
ENGINEERING DESIGN (7%) = \$				10,147
CONSTRUCTION ADMIN (10%) = \$				14,496
\$				169,600
PROJECT YEAR BUDGET ESTIMATE = \$				170,000



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 Rehabilitation and Extension
 LOCATION: Ionia County Airport
 CITY: Ionia, MI
 DATE: 5/24/2011
 PREPARED BY: RGN

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

WORK DESCRIPTION: Construct runway rehabilitation and 200' extension to 4,500' x 75'

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Mobilization and General Conditions	LS	1	\$ 50,000.00	\$ 50,000
Safety and Security	LS	1	\$ 7,000.00	\$ 7,000
Unclassified Excavation (33")	CY	3,600	\$ 3.00	\$ 10,800
Sand Subbase (24")	CY	2,600	\$ 18.00	\$ 46,800
Gravel Base (6")	CY	650	\$ 35.00	\$ 22,750
Bituminous Surface (3")	TON	7,550	\$ 80.00	\$ 604,000
Cold Mill/Fine Grade & Compact	SYD	38,213	\$ 5.00	\$ 191,065
Electrical-MITL, MIRL, Signs, REIL	LS	1	\$ 214,000.00	\$ 214,000
Drainage	LS	1	\$ 20,000.00	\$ 20,000
Pavement Marking	SF	30,000	\$ 0.50	\$ 15,000
Turfing and Mulching	AC	2	\$ 3,000.00	\$ 6,000
CONSTRUCTION TOTAL = \$				1,187,415
CONSTRUCTION CONTINGENCIES (15%) = \$				178,112
CONSTRUCTION TOTAL = \$				1,365,527
ENGINEERING DESIGN (7%) = \$				95,587
CONSTRUCTION ADMIN (10%) = \$				136,553
\$				1,597,667
ANTICIPATED CONSTRUCTION YEAR =				2022
RATE OF INFLATION =				1.50%
PROJECT YEAR TOTAL COST = \$				1,881,970
PROJECT YEAR BUDGET ESTIMATE = \$				1,890,000



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IONIA COUNTY AIRPORT

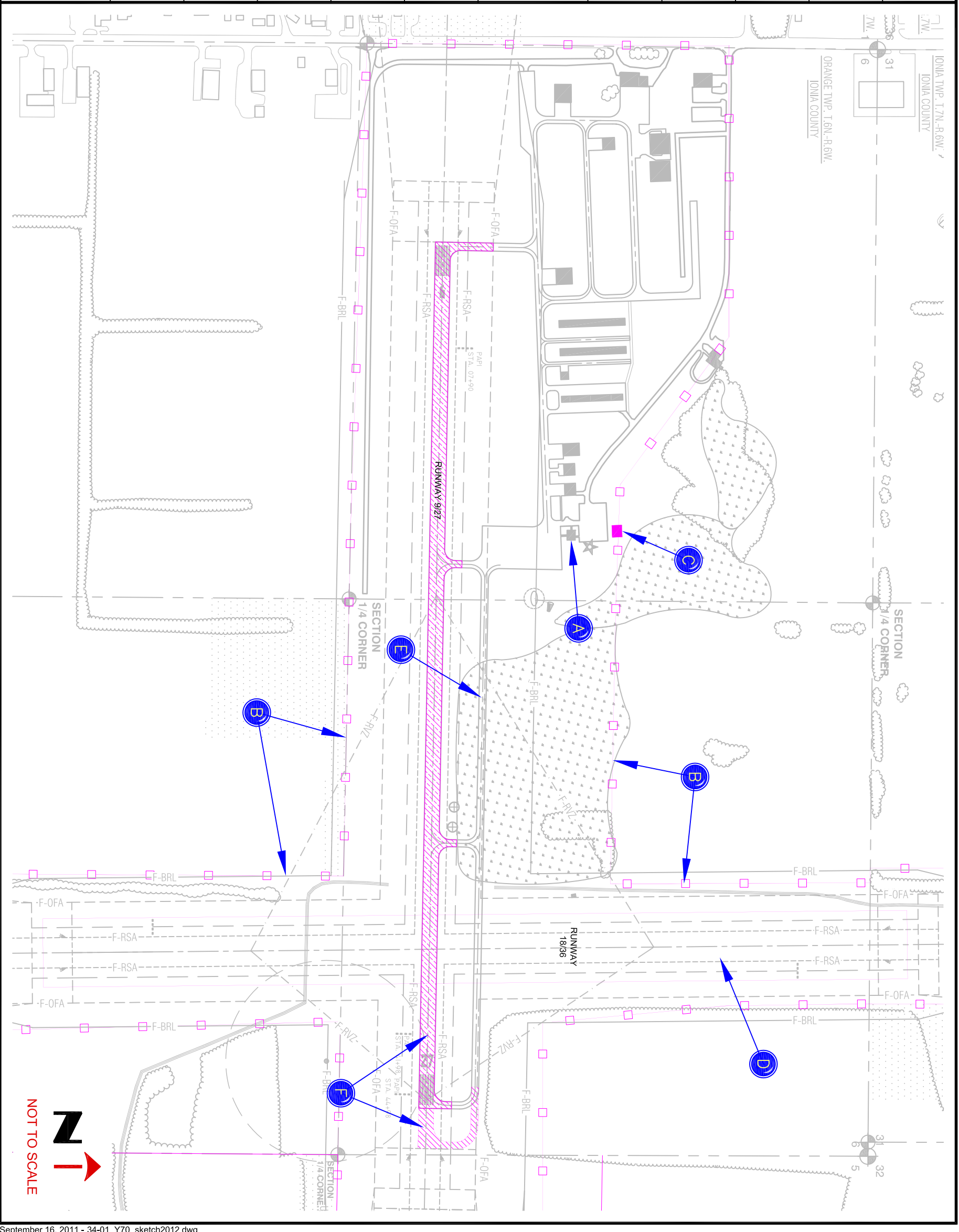
IONIA, MICHIGAN



TEN-YEAR DEVELOPMENT PLAN - YEARS 2012 TO 2022

FAA IDENTIFIER: Y70
STATE ID: 34-01

YEAR - 2012	A	TERMINAL EXPANSION FOR ADA COMPLIANCE PAVEMENT MARKING AND CRACK SEALING
YEAR - 2013	B	ANIMAL CONTROL/SECURITY FENCE DESIGN
YEAR - 2014	B	ANIMAL CONTROL/SECURITY FENCE PHASE 1 PAVEMENT MARKING AND CRACK SEALING
YEAR - 2015	B	ANIMAL CONTROL/SECURITY FENCE PHASE 2
YEAR - 2016		PURCHASE SRE PAVEMENT MARKING AND CRACK SEALING
YEAR - 2017	C	CONSTRUCT SRE BUILDING
	D	DRAIN TILES FOR RUNWAY 18/36
YEAR - 2018	E	MITL FOR PARALLEL TAXIWAY PAVEMENT MARKING AND CRACK SEALING
YEAR - 2019		ALP UPDATE
YEAR - 2020	F	EA FOR RUNWAY 9/27 EXTENSION PRELIMINARY ENGINEERING FOR RUNWAY EXTENSION PAVEMENT MARKING AND CRACK SEALING
YEAR - 2021	F	DESIGN RUNWAY REHABILITATION AND EXTENSION
YEAR - 2022	F	CONSTRUCT RUNWAY REHABILITATION AND EXTENSION



Design By: RGN
Drawn By: BJH
Approved By: RGN