

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

**TEN YEAR AIRPORT CAPITAL IMPROVEMENT PLAN
2012-2022**

Prepared for:

**Jerry Tyler Memorial Airport
Niles, Michigan**



**June 2011
Revised November 2011**

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MICHIGAN STATE BLOCK GRANT PROGRAM
TEN-YEAR AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2012* to FY-2022

*ACIP includes current development year (2011 already programmed - minor changes acceptable)

Airport Name: Jerry Tyler Memorial Airport	Date prepared: 6/9/2011, Revised 11/16/2011
Associated City: Niles, MI	Prepared By: GWS
Sponsor: City of Niles, MI	Sponsor email address & phone: jray@nilesmi.org ; 269-683-4700
Airport Identifier: 3TR (Airport code C)	FINAL ACIP due to MDOT AERO: no later than 12/01/11

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.
2012	ALP update	NA	PLPLMA	64	\$76,000	\$0	\$0	\$2,000	\$2,000	\$80,000	The last full ALP was completed in 1999. ALP update will be required to show acquisition of land located between runways on south side of airport and adjust approaches on Runways 15/33 and 4/22. Update will also show runway 15 location per Appendix 2 criteria, survey locations of any new hangars constructed since last update and show proposed fence locations.
	Purchase RPZ (7 acres) in fee.	No	STLASZ	42	\$57,000	\$0	\$0	\$1,500	\$1,500	\$60,000	The FAA has placed a higher emphasis on control of activities within the RPZ. Purchase of the RPZ will allow the airport to do this. The airport wishes to purchase land between runways for future development and line of sight concerns. Project will be shown on ALP after ALP update in 2012.
	Carry forward remainder of GA entitlement (\$17,000)	NA									
2013	Purchase land between runways (10 acres) in fee.	No	STLASZ	42	\$71,250	\$0	\$0	\$1,875	\$1,875	\$75,000	The FAA has placed a higher emphasis on control of activities within the RPZ. Purchase of the RPZ will allow the airport to do this. The airport wishes to purchase land between runways for future development and line of sight concerns. Project will be shown on ALP after ALP update in 2012.
	Carry forward remainder of GA entitlement (\$95,750)	NA									
2014	Purchase SRE	NA	STEQSN	45	\$190,000	\$0	\$0	\$5,000	\$5,000	\$200,000	The airport is located in an area that receives significant lake effect snowfall. This equipment will help airport personnel keep airport pavements clear of snow. This equipment is replacement equipment for an aging loader purchased with local only funds. No federal funding has previously been used to purchase SRE equipment at the Jerry Tyler Memorial Airport.
	Carry forward remainder of GA entitlement (\$55,750)	NA									
2015	Carry forward GA entitlement (\$150,000)	NA									
2016	Carry forward GA entitlement (\$150,000)	NA									
2017	Rehabilitate runway 15/33 - Design Only	Yes	RERWIM	68	\$71,250	\$0	\$0	\$1,875	\$1,875	\$75,000	The last PCI study showed runway 15/33 to have an index of 76. Some preventative maintenance was performed in 2008. It is expected that by 2018 full rehabilitation will be required.
	Carry forward remainder of GA entitlement (\$434,500)	NA									
2018	Rehabilitate Runway 15/33	Yes	RERWIM	68	\$584,500	\$531,750	\$0	\$29,375	\$29,375	\$1,175,000	The last PCI study showed runway 14/32 to have an index of 76. Some preventative maintenance was performed in 2008. It is expected that by 2018 full rehabilitation will be required.
2019	Carry forward GA entitlement (\$150,000)	NA									
2020	Rehabilitate east aircraft apron and automobile parking lot	Yes	REAPIM	58	\$218,500	\$0	\$0	\$5,750	\$5,750	\$230,000	Existing pavements are nearing the end of their useful life. The 2007 PCI study showed that the apron had two index's. The west 1/3 had an index of 0, and the remainder had an index of 32. Rehabilitation is warranted.
	Carry forward remainder of GA entitlement (\$81,500)	NA									
2021	Carry forward GA entitlement (\$150,000)	NA									
2022	Carry forward GA entitlement (\$150,000)	NA									


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

ENGINEERING COST ESTIMATE

PROJECT: Partial ALP Update
 LOCATION: Jerry Tyler Memorial Airport
 CITY: Niles, MI
 DATE: 1-Nov-11
 PREPARED BY: GWS, SDW

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

ALP update, show land acquisition, new runway approaches, fence and new hangars

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Aerial	LS	1	\$ 25,000.00	\$ 25,000
ALP	LS	1	\$ 55,000.00	\$ 55,000
				
PROJECT YEAR BUDGET ESTIMATE =				\$ 80,000

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: Land Acquisition - Rwy 33 RPZ
 LOCATION: Jerry Tyler Memorial Airport
 CITY: Niles, MI
 DATE: 11/15/11
 PREPARED BY: GWS

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

WORK DESCRIPTION: Acquisition of approximately 7 acres of vacant farm property in fee - 1 parcel

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Consultant costs - land services	EA	1	\$ 20,000.00	\$ 20,000
Consultant costs - land survey and property description	EA	1	\$ 8,000.00	\$ 8,000
Acquisition	AC	7	\$ 4,500.00	\$ 31,500
		0	\$ -	-
		0	\$ -	-
		0	\$ -	-
CONSTRUCTION TOTAL = \$				59,500
CONSTRUCTION CONTINGENCIES (15%) = \$				-
CONSTRUCTION TOTAL = \$				59,500
ENGINEERING DESIGN (7%) = \$				-
CONSTRUCTION ADMIN (10%) = \$				-
				\$ 59,500
PROJECT YEAR BUDGET ESTIMATE = \$				60,000



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: Land Acquisition for land between runways
 LOCATION: Jerry Tyler Memorial Airport
 CITY: Niles, MI
 DATE: 11/15/11
 PREPARED BY: GWS

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

WORK DESCRIPTION: Acquisition of approximately 10 acres of vacant property in fee - 1 parcel

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Consultant costs - land services	EA	1	\$ 20,000.00	\$ 20,000
Consultant costs - land survey and property description	EA	1	\$ 8,000.00	\$ 8,000
Acquisition	AC	10	\$ 4,500.00	\$ 45,000
		0	\$ -	-
		0	\$ -	-
		0	\$ -	-
CONSTRUCTION TOTAL = \$				73,000
CONSTRUCTION CONTINGENCIES (15%) = \$				-
CONSTRUCTION TOTAL = \$				73,000
ENGINEERING DESIGN (7%) = \$				-
CONSTRUCTION ADMIN (10%) = \$				-
				\$ 73,000
PROJECT YEAR BUDGET ESTIMATE = \$				75,000



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: Rehabilitate Rwy 15/33
 LOCATION: Jerry Tyler Memorial Airport
 CITY: Niles, MI
 DATE: 14-Jul-11
 PREPARED BY: GWS
 REVIEWED BY: SCT 6/9/2011

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

WORK DESCRIPTION: Reconstruct runway 15-33 (4100' x 75')

ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ITEM COST
Mobilization and General Conditions	LS	1	\$ 90,000.00	\$ 90,000
Safety and Security	LS	1	\$ 10,000.00	\$ 10,000
Subgrade Undercutting	CY	6,000	\$ 10.00	\$ 60,000
Aggregate Base Course	CY	1,000	\$ 40.00	\$ 40,000
Bituminous Surface (3")	TON	6,500	\$ 85.00	\$ 552,500
Pavement Removal	SY	4,200	\$ 2.00	\$ 8,400
Cold Mill/Pulverize Existing Pavement	SY	32,600	\$ 1.00	\$ 32,600
Geogrid/Geotextile Separator Fabric	SY	9,000	\$ 6.00	\$ 54,000
Salvage Pulverized Material	CY	1,900	\$ 5.00	\$ 9,500
Fine Grade & Compact Aggregate Base	SY	32,600	\$ 1.25	\$ 40,750
Pavement Marking (Runway)	LS	1	\$ 5,000.00	\$ 5,000
Reduced Rate Pavement Marking	LS	1	\$ 5,000.00	\$ 5,000
Underdrain	LF	8,000	\$ 4.00	\$ 32,000
Underdrain Cleanouts	EA	12	\$ 350.00	\$ 4,200
Underdrain End Sections	EA	8	\$ 350.00	\$ 2,800
Permit Fee Allowance	DLRS	1,000	\$ 1.00	\$ 1,000
Turfing and Mulching	AC	4	\$ 4,000.00	\$ 16,000



CONSTRUCTION TOTAL =	\$	963,750
CONSTRUCTION CONTINGENCIES (15%) =	\$	96,375
CONSTRUCTION TOTAL =	\$	1,060,125
ENGINEERING DESIGN (7%) =	\$	75,000
CONSTRUCTION ADMIN (10%) =	\$	106,013
	\$	1,241,138

PROJECT YEAR BUDGET ESTIMATE = \$ 1,250,000

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: Rehabilitate East Apron and Automobile Parking Lot
 LOCATION: Jerry Tyler Memorial Airport
 CITY: Niles, MI
 DATE: 9/15/2009 (Reviewed 7/27/10)
 PREPARED BY: GWS
 REVIEWED BY: SCT 6/9/2011

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

WORK DESCRIPTION: Rehabilitate 47,000 square feet of aircraft parking apron and automobile parking.

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
Bituminous Surface (3")	TON	1,000	\$ 85.00	\$ 85,000
Pavement Removal	SY	5,250	\$ 5.00	\$ 26,250
Fine Grade & Compact Aggregate Base	SY	5,250	\$ 2.00	\$ 10,500
Pavement Marking	SF	2,000	\$ 0.50	\$ 1,000
Soil Erosion & Sedimentation Controls	LS	1	\$ 5,000.00	\$ 5,000
Topsoil (3")	CY	100	\$ 30.00	\$ 3,000
Turfing and Mulching	AC	1	\$ 4,000.00	\$ 4,000
CONSTRUCTION TOTAL = \$				154,750
CONSTRUCTION CONTINGENCIES (25%) = \$				38,688
CONSTRUCTION TOTAL = \$				193,438
ENGINEERING DESIGN (7%) = \$				13,541
CONSTRUCTION ADMIN (10%) = \$				19,344
				\$ 226,322
PROJECT YEAR BUDGET ESTIMATE = \$				230,000



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.

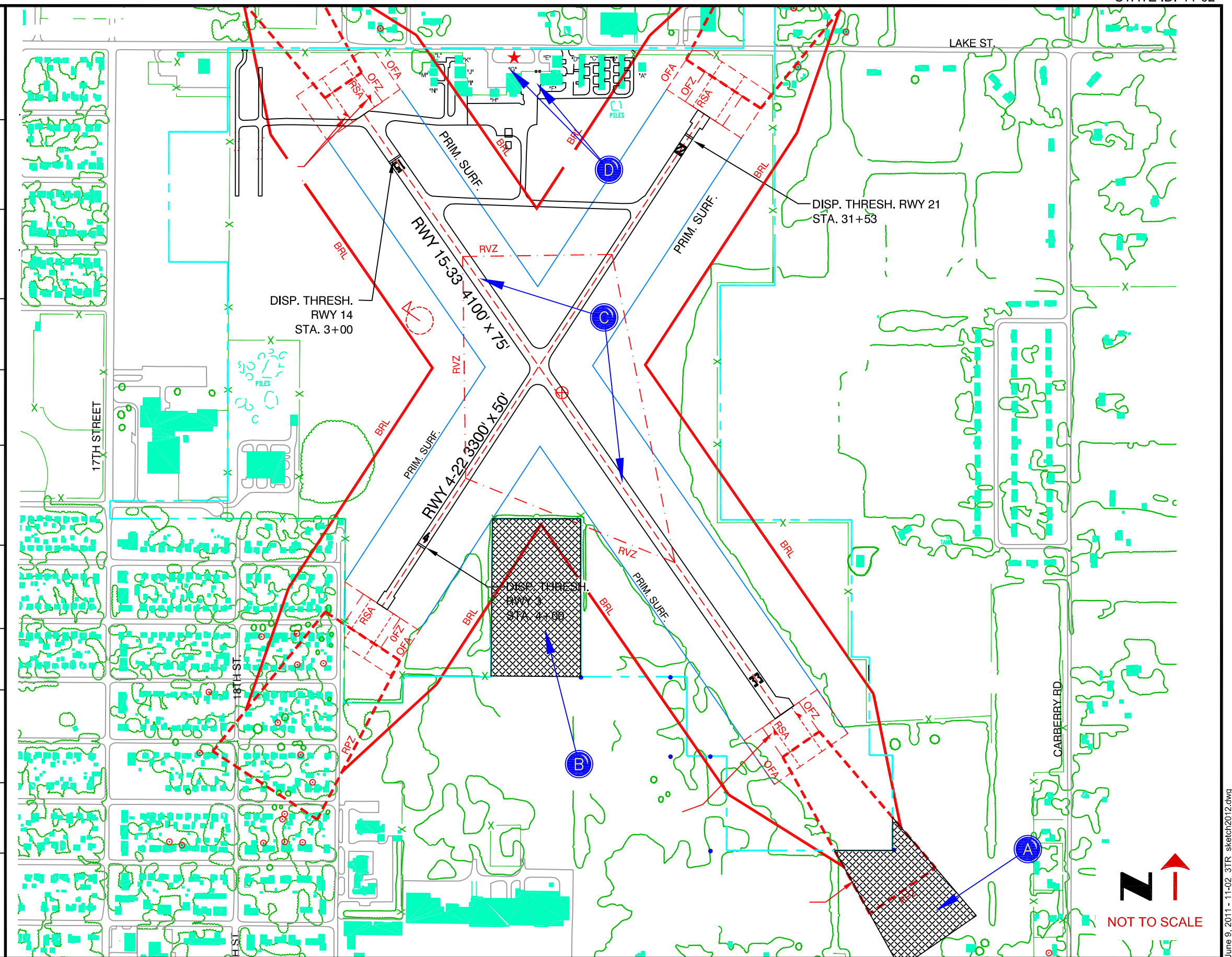
JERRY TYLER MEMORIAL AIRPORT NILES, MICHIGAN



TEN-YEAR DEVELOPMENT PLAN - YEARS 2011 TO 2021

FAA IDENTIFIER: 3TR
STATE ID: 11-02

<p>YEAR - 2012</p> <p>A ALP UPDATE PURCHASE RWY 33 RPZ (7 ACRES) IN FEE CARRY FORWARD REMAINDER OF GA ENTITLEMENTS (\$17,000)</p>
<p>YEAR - 2013</p> <p>B PURCHASE LAND BETWEEN RWY'S (10 ACRES) IN FEE CARRY FORWARD REMAINDER OF GA ENTITLEMENTS (\$95,750)</p>
<p>YEAR - 2014</p> <p>PURCHASE SRE CARRY FORWARD REMAINDER OF GA ENTITLEMENTS (\$55,750)</p>
<p>YEAR - 2015</p> <p>CARRY FORWARD GA ENTITLEMENTS (\$150,000)</p>
<p>YEAR - 2016</p> <p>CARRY FORWARD GA ENTITLEMENTS (\$150,000)</p>
<p>YEAR - 2017</p> <p>C REHABILITATE RWY 15/33 - DESIGN ONLY CARRY FORWARD REMAINDER OF GA ENTITLEMENTS (\$434,500)</p>
<p>YEAR - 2018</p> <p>C REHABILITATE RWY 5/33 - CONSTRUCTION</p>
<p>YEAR - 2019</p> <p>CARRY FORWARD GA ENTITLEMENTS (\$150,000)</p>
<p>YEAR - 2020</p> <p>D REHABILITATE EAST AIRCRAFT APRON AND AUTOMOBILE PARKING LOT CARRY FORWARD REMAINDER OF GA ENTITLEMENTS (\$81,500)</p>
<p>YEAR - 2021</p> <p>CARRY FORWARD GA ENTITLEMENTS (\$150,000)</p>
<p>YEAR - 2022</p> <p>CARRY FORWARD GA ENTITLEMENTS (\$150,000)</p>



June 9, 2011 - 11-02_3TR_sketch2012.dwg

MICHIGAN AIRPORT PROGRAM (MAP) MEETINGS

Attendance Sheet

Airport: Niles

Date: August 31, 2011

PLEASE PRINT

<u>Name</u>	<u>Representing</u>	<u>Phone</u>	<u>E-mail</u>
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