

MICHIGAN AIRPORT DEVELOPMENT PROGRAM

AIP CAPITAL IMPROVEMENT PLAN 2012-2022

FEDERAL/STATE/LOCAL



Clare Municipal Airport

Clare, MI

Date of Latest ALP - **2008**
ACIP Airport Code - **C**
Airport Identifier - 48D



MDOT-AERO
2700 E AIRPORT SERVICE DRIVE
LANSING, MICHIGAN 48906

Prepared by: **URS Corporation**
Sponsor: City of Clare
Submitted by: Dick Acker
Date: December 6, 2011

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

48D Clare Municipal Airport

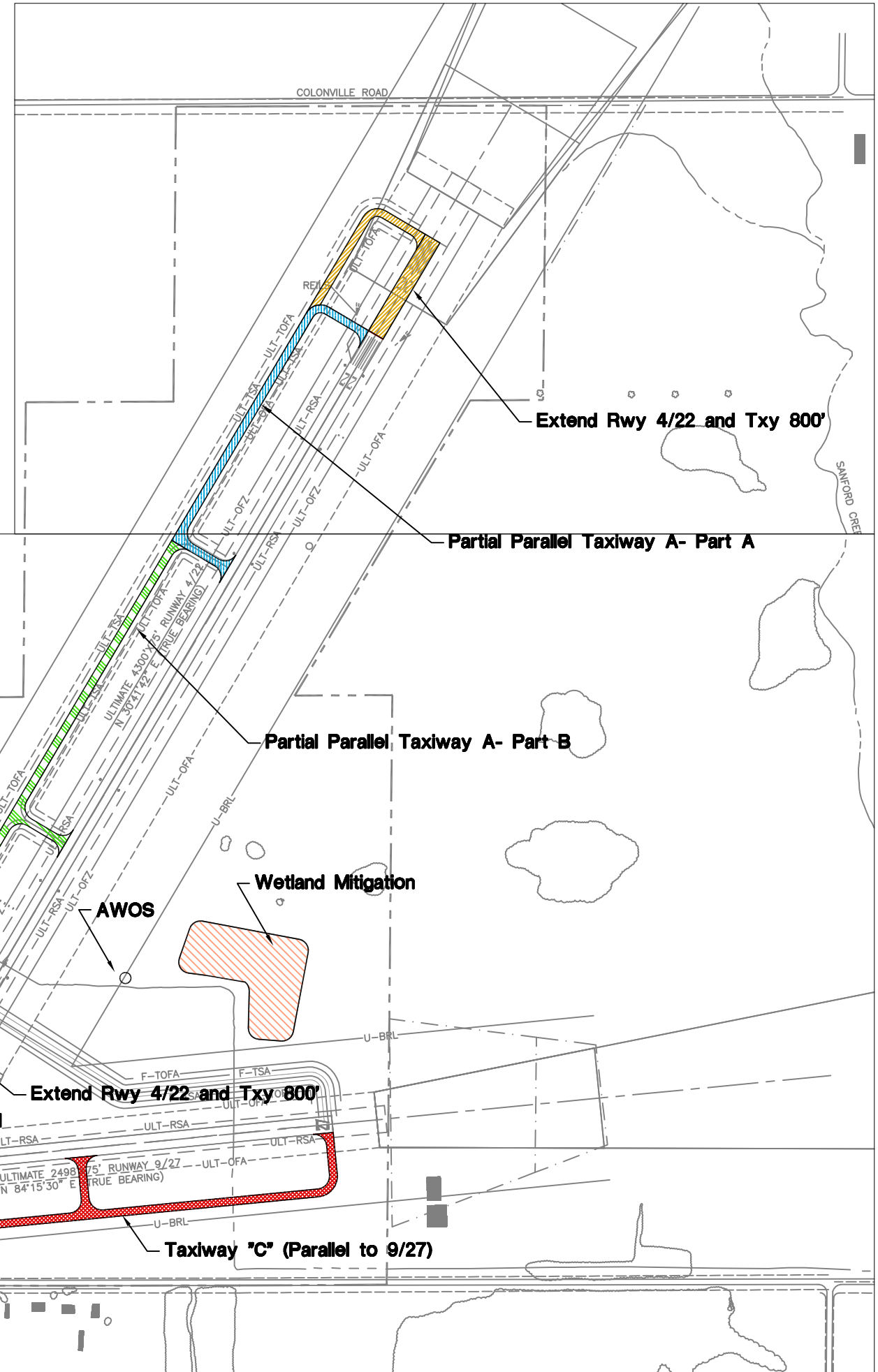
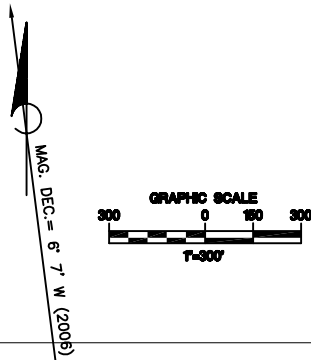
Year	Project Description	Cost*	Remarks/Item Justification
2012	<i>Available Federal Entitlements (NPE) \$259,475</i>		
	Final Design of Parallel Taxiway A - Part A	\$ 63,000	Construction drawings will be created for Part A of Taxiway A. Construction drawings for remaining portions of the taxiway will be done at a later date. Work includes MDNRE/USACE joint permit application and wetland design for Full Parallel Taxiway. Wetland design includes monitoring well to determine water level for wetland.
	Fed \$59,850 State \$1,575 Local \$1,575 Total \$63,000		<i>Carryover \$199,625</i>
2013	<i>Available Federal Entitlements (NPE) \$349,625</i>		
	Construct Partial Parallel Taxiway A- Part A (35'x1500')	\$ 368,000	1500' partial parallel taxiway including 1 connector and hold apron will be built on the north end of Runway 4/22 to allow planes to hold during other aircraft operations. This is the first of 3 phases to complete the full parallel taxiway. Reflectors will be installed to mark the pavement edge. A future project will add MITL to this taxiway.
	Fed \$349,600 State \$9,200 Local \$9,200 Total \$368,000		<i>Carryover \$25</i>
2014	<i>Available Federal Entitlements (NPE) \$150,025</i>		
	Construct Wetland Mitigation	\$ 114,000	Wetland mitigation will be constructed for taxiway construction.
	Final Design of Parallel Taxiway A - Part B	\$ 45,000	Construction drawings will be created for Part B of Taxiway A. Given the 5-year permit period for the MDEQ/USACE joint permit, no additional environmental permitting is anticipated.
	Fed \$151,050 State \$3,975 Local \$3,975 Total \$159,000		<i>Funds in addition to NPE are needed for this year.</i>
2015	<i>Available Federal Entitlements (NPE) \$150,000</i>		
	Construct Partial Parallel Taxiway A - Part B (35'x2500')	\$ 811,000	Remaining partial parallel taxiway with 1 connector will complete the parallel taxiway. This is the second of two phases to complete the full parallel taxiway. Operations are anticipated to be above the 20,000 required to justify a parallel taxiway. Lighting of the taxiway will be done in a separate airfield-wide project in a later year.
	Fed \$770,450 State \$20,275 Local \$20,275 Total \$811,000		<i>Funds in addition to NPE are needed for this year.</i>
2016	<i>Available Federal Entitlements (NPE) \$150,000</i>		
	AWOS	\$ 168,000	AWOS is needed to provide detailed local weather to pilots.
	Fed \$159,600 State \$4,200 Local \$4,200 Total \$168,000		<i>Funds in addition to NPE are needed for this year.</i>
2017	<i>Available Federal Entitlements (NPE) \$150,000</i>		
	Airfield Lighting Rehabilitation (LED)	\$ 326,000	Replace existing REIL units and Windcone with new LED REIL units on existing bases. Existing units have outlived their useful life. Repair costs are high for existing units. LED unit has much lower operating voltage and can be serviced by lower cost electricians. New LED MITL system will be installed and existing MIRL will be replaced with LED units. The longer lasting bulb results in fewer burnt out lights with lower maintenance costs and fewer outages. Existing lighting system was installed in 1999.
	Update User Study	\$ -	Update will be done to determine current use of airport for Runway extension.
	Fed \$309,700 State \$8,150 Local \$8,150 Total \$326,000		<i>Funds in addition to NPE are needed for this year.</i>
2018	<i>Available Federal Entitlements (NPE) \$150,000</i>		
	Update EA Rwy 4/22 Extension	\$ 45,000	Existing EA done in 2002 needs to be updated for Runway extension project.
	Land Acquisition for Runway Extension RPZ	\$ 62,000	Land in the Rwy 22 RPZ for the Runway extension will need to be acquired to meet FAA requirements.
	Fed \$101,650 State \$2,675 Local \$2,675 Total \$107,000		<i>Carryover \$107,250</i>
2019	<i>Available Federal Entitlements (NPE) \$257,250</i>		
	Design Extension Rwy 4/22 and Txy 800'	\$ 70,000	Design for following year construction.
	Fed \$66,500 State \$1,750 Local \$1,750 Total \$70,000		<i>Carryover \$190,750</i>
2020	<i>Available Federal Entitlements (NPE) \$340,750</i>		
	Construct Extension Rwy 4/22 and Txy 800'	\$ 938,000	800' extension added to existing 3500'x75' Runway to obtain 4300' in length. This airport has seen an increase in aircraft use and demand for use by larger aircraft. This project includes the 800' extension of the parallel taxiway.
	Fed \$891,100 State \$23,450 Local \$23,450 Total \$938,000		<i>Funds in addition to NPE are needed for this year.</i>
2021	<i>Available Federal Entitlements (NPE) \$150,000</i>		
	2 - 50'x50' Box Hangars	\$ 302,000	Box Hangars will be constructed to meet demand for aircraft storage.
	Fed \$286,900 State \$7,550 Local \$7,550 Total \$302,000		<i>Funds in addition to NPE are needed for this year.</i>
2022	<i>Available Federal Entitlements (NPE) \$150,000</i>		
	SRE Equipment (High Speed Plow)	\$ 97,000	A plow is needed to clear snow from the runways and taxiways.
	Taxiway "C" (Parallel to 9/27)	\$ 1,055,000	A 35' wide parallel taxiway will be south of Runway 9/27. This will provide a parallel taxiway for Runway 9/27. This runway gets significant traffic and the current situation required aircraft to back taxi down the runway. This will also allow for future hangar development south of the runway along Washington Road. This will need to be updated on ALP.
	Fed \$1,094,400 State \$28,800 Local \$28,800 Total \$1,152,000		<i>Funds in addition to NPE are needed for this year.</i>

* Includes Federal Cost of 95%, State Cost of 2.5%, and Local Cost of 2.5%. When costs exceed available Federal Entitlements (NPE), additional funding will be needed from Federal Apportionment or Federal Discretionary funds.

TAXIWAY INFORMATION	
TAXIWAY	A
WIDTH	35'
EDGE SAFETY MARGIN	7.5'
SHOULDER WIDTH	10'
SAFETY AREA WIDTH	79'
OBJECT FREE AREA	131'
CL TO FIXED OR MOVEABLE OBJECT	57.5'

RUNWAY INFORMATION		
RUNWAY	4/22	9/27
SHOULDER WIDTH	10'	10'
SAFETY AREA	150'x300'	120'x240'
OBSTACLE FREE ZONE	250'x200'	120'x200'
OBJECT FREE AREA	500'x300'	250'x240'
BUILDING RESTRICTION LINE	495'	370'
CL TO HOLD LINE	200'	125'
CL TO TAXIWAY CL	300'	225'
CL TO AIRCRAFT PARKING LINE	250'	200'

BUILDING ELEVATION TABLE		
NO.	DESCRIPTION	ELEVATION
1	TERMINAL BUILDING	854
2	EXISTING BOX HANGAR	858
3	EXISTING BOX HANGAR	862
4	EXISTING BOX HANGAR	854
5	EXISTING BOX HANGAR	853
6	EXISTING BOX HANGAR	852
7	EXISTING BOX HANGAR	854
8	EXISTING BOX HANGAR	855
9	EXISTING BOX HANGAR	850
10	EXISTING BOX HANGAR	850
11	EXISTING BOX HANGAR	859
12	EXISTING BOX HANGAR	851
13	EXISTING BOX HANGAR	852
14	EXISTING BOX HANGAR	851
15	EXISTING BOX HANGAR	853
16	EXISTING T-HANGAR	848
17	EXISTING BOX HANGAR	842
18	EXISTING BOX HANGAR	838
19	EXISTING BOX HANGAR	838
20	OLD TERMINAL BUILDING	851
21	HOUSE	844
22	HOUSE	843
23	HOUSE	843
24	HOUSE	852
25	EXISTING T-HANGAR WITH BOX	850.5



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DATE	ISSUED FOR
12/07/08	AS BUILT PER AND THRESHOLD
03/27/08	APPROVAL ALP
08/07/08	ISSUE REVIEW

DA/E	IN CHARGE
DR	
CK	
APP	
W. MALINOWSKI	

GRAND PLANNING, INC.
 2000 S. HAWK CREEK BLVD.
 SUITE 100
 CLARE, MI 49729-1000
 PH: 517-374-8800

CLARE MUNICIPAL AIRPORT
 CLARE, MICHIGAN

CLARE MUNICIPAL AIRPORT
 PROJECT DESCRIPTION
 CAPITAL IMPROVEMENT PLAN DRAWING

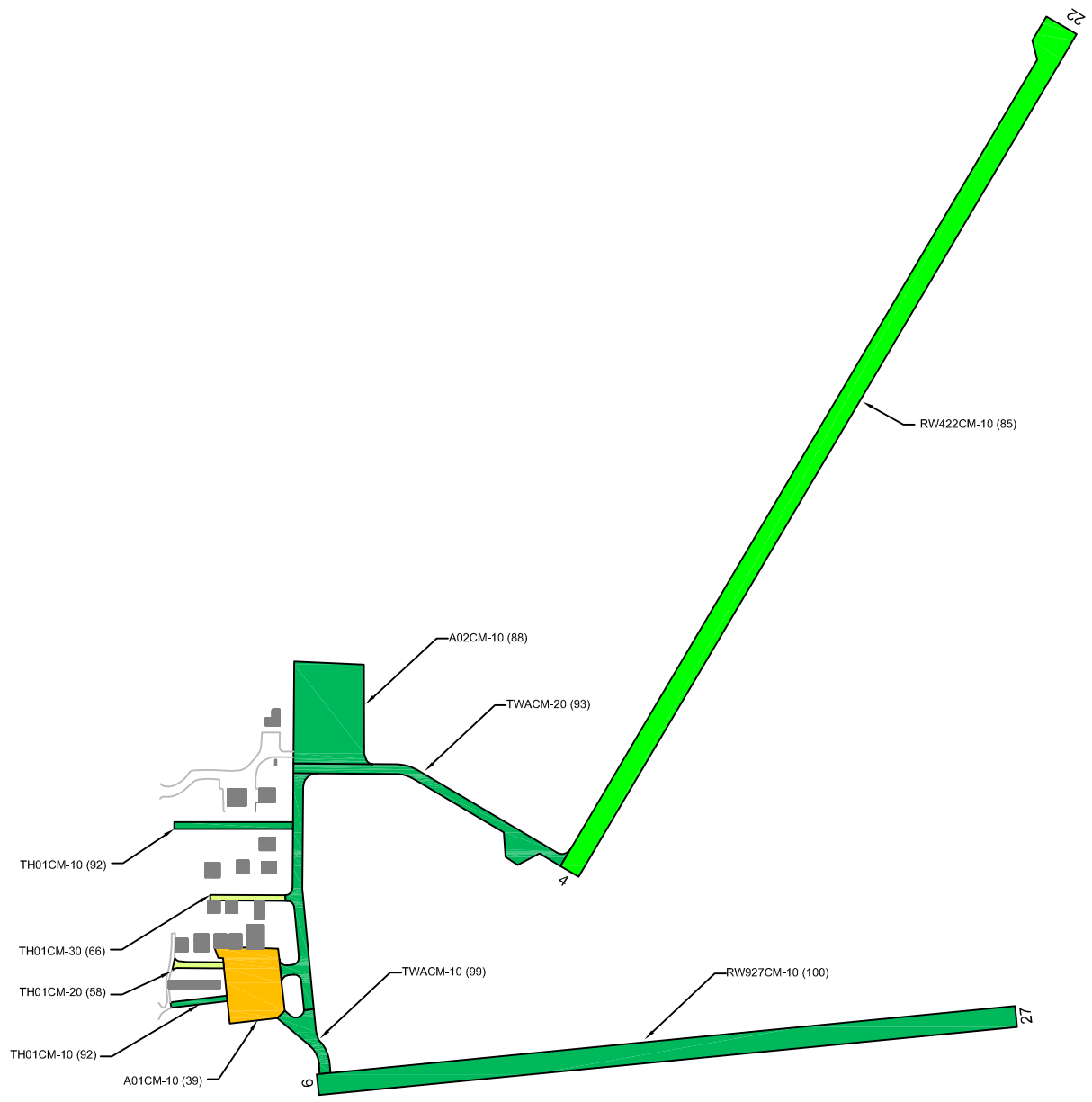
18-2
DRAWING
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MICHIGAN STATE BLOCK GRANT PROGRAM
TEN-YEAR AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2012* to FY-2022

*ACIP includes current development year (2012 already programmed - minor changes acceptable)

Airport Name: Clare Municipal Airport	Date prepared: 12-06-11
Associated City: Clare, MI	Prepared By: URS Corporation
Sponsor: City of Clare	Sponsor email address & phone: dacker@cityofclare.org 989-386-0445
Airport Identifier: 48D	FINAL ACIP due to MDOT AERO: no later than 12/1/11

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.
<i>Available Entitlements</i>					\$ 259,475	(\$150,000 NPE plus \$109,475 NPE carryover from 2011.)					
2012	Final Design of Parallel Taxiway A - Part A	Yes	CA-TW-CO	57	\$ 59,850	\$ -		\$ 1,575	\$ 1,575	\$ 63,000	Construction drawings will be created for Part A of Taxiway A. Construction drawings for remaining portions of the taxiway will be done at a later date. Work includes MDNRE/USACE joint permit application and wetland design for Full Parallel Taxiway. Wetland design includes monitoring well to determine water level for wetland.
<i>Carryover</i>					\$ 199,625						
<i>Available Entitlements</i>					\$ 349,625						
2013	Construct Partial Parallel Taxiway A- Part A (35'x1500')	Yes	CA-TW-CO	57	\$ 349,600	\$ -		\$ 9,200	\$ 9,200	\$ 368,000	1500' partial parallel taxiway including 1 connector and hold apron will be built on the north end of Runway 4/22 to allow planes to hold during other aircraft operations. This is the first of 3 phases to complete the full parallel taxiway. Reflectors will be installed to mark the pavement edge. A future project will add MITL to this taxiway.
<i>Carryover</i>					\$ 25						
<i>Available Entitlements</i>					\$ 150,025						
2014	Construct Wetland Mitigation	Yes	CA-TW-CO	57	\$ 108,300	\$ -		\$ 2,850	\$ 2,850	\$ 114,000	Wetland mitigation will be constructed for taxiway construction.
	Final Design of Parallel Taxiway A - Part B	Yes	CA-TW-CO	57	\$ 41,725	\$ 1,025		\$ 1,125	\$ 1,125	\$ 45,000	Construction drawings will be created for Part B of Taxiway A. Given the 5-year permit period for the MDEQ/USACE joint permit, no additional environmental permitting is anticipated.
<i>Carryover</i>					\$ -						
<i>Available Entitlements</i>					\$ 150,000						
2015	Construct Partial Parallel Taxiway A - Part B (35'x2500')	Yes	CA-TW-CO	57	\$ 150,000	\$ 620,450		\$ 20,275	\$ 20,275	\$ 811,000	Remaining partial parallel taxiway with 1 connector will complete the parallel taxiway. This is the second of two phases to complete the full parallel taxiway. Operations are anticipated to be above the 20,000 required to justify a parallel taxiway. Lighting of the taxiway will be done in a separate airfield-wide project in a later year.
<i>Carryover</i>					\$ -						
<i>Available Entitlements</i>					\$ 150,000						
2016	AWOS	ALP Update will be needed	ST-EQ-WX	44	\$ 150,000	\$ 9,600		\$ 4,200	\$ 4,200	\$ 168,000	AWOS is needed to provide detailed local weather to pilots.
<i>Carryover</i>					\$ -						
<i>Available Entitlements</i>					\$ 150,000						
2017	Airfield Lighting Rehabilitation (LED)	NA rehab	RE-RW-LI	68	\$ 150,000	\$ 159,700		\$ 8,150	\$ 8,150	\$ 326,000	Replace existing REIL units and Windcone with new LED REIL units on existing bases. Existing units have outlived their useful life. Repair costs are high for existing units. LED unit has much lower operating voltage and can be serviced by lower cost electricians. New LED MITL system will be installed and existing MIRL will be replaced with LED units. The longer lasting bulb results in fewer burnt out lights with lower maintenance costs and fewer outages. Existing lighting system was installed in 1999.
	Update User Study	NA	PL-PL-MA	64	\$ -	\$ -		\$ -	\$ -	\$ -	Update will be done to determine current use of airport for Runway extension
<i>Carryover</i>					\$ -						
<i>Available Entitlements</i>					\$ 150,000						
2018	Update EA Rwy 4/22 Extension		EN-TW-EX	59	\$ 42,750	\$ -		\$ 1,125	\$ 1,125	\$ 45,000	Existing EA done in 2002 needs to be updated for Runway extension project
	Land Acquisition for Runway Extension RPZ		CA-RW-EX	53	\$ 58,900	\$ -		\$ 1,550	\$ 1,550	\$ 62,000	Land in the Rwy 22 RPZ for the Runway extension will need to be acquired to meet FAA requirements.
<i>Carryover</i>					\$ 48,350						
<i>Available Entitlements</i>					\$ 198,350						
2019	Design Extension Rwy 4/22 and Txy 800'	Yes	CA-RW-EX	53	\$ 66,500	\$ -		\$ 1,750	\$ 1,750	\$ 70,000	Design for following year construction.
<i>Carryover</i>					\$ -						
<i>Available Entitlements</i>					\$ 131,850						
2020	Construct Extension Rwy 4/22 and Txy 800'	Yes	CA-RW-EX	53	\$ 281,850	\$ 609,250		\$ 23,450	\$ 23,450	\$ 938,000	800' extension added to existing 3500'x75' Runway to obtain 4300' in length. This airport has seen an increase in aircraft use and demand for use by larger aircraft. This project includes the 800' extension of the parallel taxiway.
<i>Carryover</i>					\$ -						
<i>Available Entitlements</i>					\$ 281,850						
2021	2 - 50'x50' Box Hangars	Terminal area will need to be updated	ST-BD-MS	31	\$ 150,000	\$ 136,900		\$ 7,550	\$ 7,550	\$ 302,000	Box Hangars will be constructed to meet demand for aircraft storage
<i>Carryover</i>					\$ -						
<i>Available Entitlements</i>					\$ 150,000						
2022	SRE Equipment (High Speed Plow)	NA	ST-EQ-SN	45	\$ 92,150	\$ -		\$ 2,425	\$ 2,425	\$ 97,000	A plow is needed to clear snow from the runways and taxiways.
	Taxiway "C" (Parallel to 9/27)	ALP update will be done to add project.	CA-TW-CO	57	\$ 57,850	\$ 944,400		\$ 26,375	\$ 26,375	\$ 1,055,000	A 35' wide parallel taxiway will be south of Runway 9/27. This will provide a parallel taxiway for Runway 9/27. This runway gets significant traffic and the current situation required aircraft to back taxi down the runway. This will also allow for future hangar development south of the runway along Washington Road. This will need to be updated on ALP.
<i>Carryover</i>					\$ -						
<i>Available Entitlements</i>					\$ 150,000						



PAVEMENT CONDITION INDEX	
PCI	CONDITION
86 - 100	PREVENTIVE MAINTENANCE
71 - 85	MAJOR REHABILITATION
56 - 70	RECONSTRUCTION
41 - 55	
26 - 40	
11 - 25	
0 - 10	

LEGEND	
	BRANCH NAME
	SECTION NUMBER
	POI VALUE
	RW523BG-10 (84)
	SECTION BREAK

 Applied Pavement Technology, Inc. 115 W. Main Street, Suite 400 Lincoln, IL 61801 Tel: (217) 586-8877 Fax: (217) 586-4027	AGENCY: Michigan Department of Transportation Bureau of Aeronautics			
	LOCATION: Clare Municipal Airport Clare, Michigan			
PAGE TITLE: Pavement Condition Index Map				
PROJECT DATE: 6/15/2005	CREATION DATE: 8/15/2007	PROJECT MANAGER: KMP	JOB NUMBER: 04-074-AM1	
DRAWING SCALE: 1" = 400'	LAST MODIFIED DATE: 01/04/2008	REVIEWED BY: TJS	DRAWN BY: TJS	
FILENAME: Clare Municipal.dwg	LAYOUT NUMBER: PCI	FIGURE: 8		