

Aurora Municipal Airport

TRANSPORTATION IMPROVEMENT PROPOSAL – AIRPORTS
FFY 2019 – 2023 Final Submittal



Prepared By:



December 12, 2017



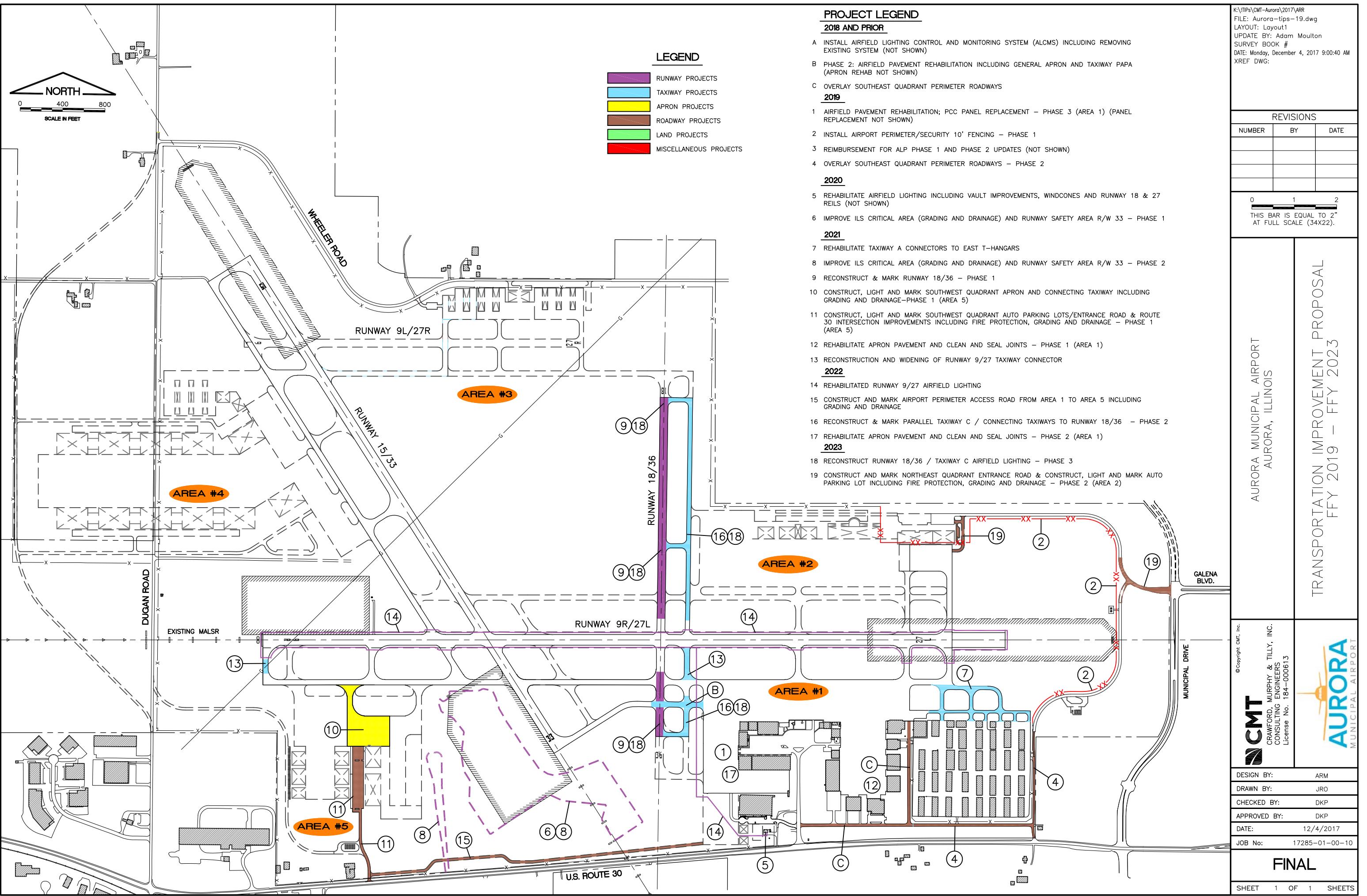
Transportation Improvement Program: Airports FFY 2019-2023

Aurora Municipal Airport

AURORA, IL

Reliever

Sponsor Project Priority	AIP Priority Number	Year Requested	Project Title	Project Description	ELEMENTS REQUIRED							Estimated Cost			Notes / Comments		
					Project on ALP	Environmental Determination EA / CAT X / EIS	Clear Approaches (From 5010 Inspection Results)	Land Acquired	Apron Sizing Calcs	RGFE Evaluation Form	Bldg Size Calcs / Equipment Inventory	Federal		State	Local	<u>Total</u>	
					Yes / No / NA	Pending/Approved	Yes / No	Yes / No / NA	Yes / No / NA	Yes / No / NA	Yes / No / NA	Discretionary / Apportionment	Entitlement				
1	68	2019	Airfield Pavement Rehab. - Ph. 3	Airfield Pavement Rehabilitation - Phase 3 (Area 1)	Yes	Pending	Yes	Yes	NA	NA	NA	\$180,300	\$150,000	\$18,350	\$18,350	\$367,000	Apron PCC panel removal and replacements
2	86	2019	Install Security Fencing	Install Perimeter/Security 10' Fencing	NA	Pending	Yes	Yes	NA	NA	NA	\$754,200		\$41,900	\$41,900	\$838,000	The project will address some of the recommendations from the USDA Wildlife Services Wildlife Hazard Assessment Report dated February 2016.
3	58	2019	Reimbursement for ALP	Reimbursement for ALP Phase 1 and Phase 2 Updates	NA	NA	Yes	Yes	NA	NA	NA	\$208,800		\$11,600 (Incurred to Date)	\$11,600 (Incurred to Date)	\$232,000	Original funding was 50/50 S/L. A total of \$200,000 has been paid to date (State \$100,000 / Local \$100,000). Reimbursement amount State: \$90,000 and Local: \$90,000. An amendment is to be submitted. Revised reimbursement with amendment is \$88,400 for State and \$88,400 for Local.
4	79	2019	Overlay SE Quadrant Perimeter Roadways- Ph. 2	Overlay Southeast Quadrant Perimeter Roadways - Phase 2	Yes	Pending	Yes	Yes	NA	NA	NA			\$247,500	\$27,500	\$275,000	Phase 2 overlay project cost includes Phase 1 Additive Alternative(s) estimated costs (design currently underway). Phase 1 overlay project is scheduled to be bid on April 27, 2018 IDOT Letting. Based on the outcome of the award the Additive Alternative(s), the project costs for Phase 2 may need to be revised.
5	72	2020	Rehabilitate Airfield Lighting	Rehabilitate Airfield Lighting Including Vault Improvements, Airfield Signage, Windcones and Runway 18 & 27 REILs	NA	Pending	Yes	Yes	NA	NA	NA	\$338,880	\$150,000	\$27,160	\$43,960	\$560,000	Project includes replacement of vault regulators/plugouts and airfield signage. Non Primary Entitlement shall be used for NAVAIDs including Rwy 27 & 18 REILs and wind socks (estimated cost = \$135,500.00).
6	50	2020	ILS Critical Area & RSA R/W 33 - Ph 1	Improve ILS Critical Area (Grading and Drainage) and Runway Safety Area - R/W 33 - Phase 1	Yes	Pending	Yes	Yes	NA	NA	NA	\$1,341,000		\$74,500	\$74,500	\$1,490,000	RSA improvements per USDA Wildlife Services Wildlife Hazard Assessment Report dated February 2016.
7	68	2021	Rehabilitate Taxiway A Connectors to East T-Hangars	Rehabilitate Taxiway A Connectors to East T-Hangars	Yes	Pending	Yes	Yes	NA	NA	NA	\$352,200	\$150,000	\$27,900	\$27,900	\$558,000	2016 PCI Taxiway A Connectors: 64 & 78
8	50	2021	ILS Critical Area & RSA R/W 33 - Ph 2	Improve ILS Critical Area (Grading and Drainage) and Runway Safety Area - R/W 33 - Phase 2	Yes	Pending	Yes	Yes	NA	NA	NA	\$2,637,000		\$146,500	\$146,500	\$2,930,000	Phase 2 - GS Improvements
9	72	2021	Recon. RWY 18/36 / TXY C - Phase 1	Reconstruct & Mark Runway 18/36 - Phase 1	Yes	Pending	Yes	Yes	NA	NA	NA	\$1,791,000		\$99,500	\$99,500	\$1,990,000	2016 PCI: 22-42
10	61	2021	SW Quad. Apron and TXY - Ph. 1 (Area 5)	Construct, Light and Mark Southwest Quadrant Apron and Connecting Taxiway Including Grading and Drainage - Phase 1 (Area 5)	Yes	Pending	Yes	Yes	Pending	NA	NA	\$2,790,000		\$155,000	\$155,000	\$3,100,000	
11	19	2021	SW Quad. Entr. Rd. & Parking Lot - Ph. 1 (Area 5)	Construct, Light and Mark Southwest Quadrant Auto Parking Lots/Entrance Road & Route 30 Intersection Improvements Including Fire Protection, Grading and Drainage - Phase 1 (Area 5)	Yes	Pending	Yes	Yes	NA	NA	NA			\$1,638,000	\$182,000	\$1,820,000	
12	62	2021	Rehabilitate Apron Pavement Ph. 1	Rehabilitate Apron Pavement and Clean and Seal Joints - Phase 1 (Area 1)	Yes	Pending	Yes	Yes	NA	NA	NA	\$1,170,000		\$65,000	\$65,000	\$1,300,000	2016 PCI : 78 & 85
13	68	2021	Reconstruct & Widen Runway 9/27 Connectors	Reconstruct and Widen Runway 9/27 Taxiway Connectors	Yes	Pending	Yes	Yes	NA	NA	NA	\$1,260,000		\$70,000	\$70,000	\$1,400,000	2016 PCI : 61-81
14	72	2022	Rehabilitate Runway 9/27 Airfield Lighting	Rehabilitate Runway 9/27 Airfield Lighting	Yes	Pending	Yes	Yes	NA	NA	NA	\$1,380,000	\$150,000	\$85,000	\$85,000	\$1,700,000	
15	86	2022	Airport Perimeter Road from Area 1 to Area 5	Construct and Mark Airport Perimeter Access Road from Area 1 to Area 5 Including Grading and Drainage	Yes	Pending	Yes	Yes	NA	NA	NA	\$1,026,900		\$57,050	\$57,050	\$1,141,000	
16	72	2022	Recon. RWY 18/36 / TXY C - Phase 2	Reconstruct & Mark Parallel Taxiway C / Connecting Taxiways to Runway 18/36 - Phase 2	Yes	Pending	Yes	Yes	NA	NA	NA	\$1,332,000		\$74,000	\$74,000	\$1,480,000	2016 PCI: 22-42
17	62	2022	Rehabilitate Apron Pavement Ph. 2	Rehabilitate Apron Pavement and Clean and Seal Joints - Phase 2 (Area 1)	Yes	Pending	Yes	Yes	NA	NA	NA	\$1,305,000		\$72,500	\$72,500	\$1,450,000	2016 PCI : 76
18	72	2023	Recon. RWY 18/36 / TXY C - Phase 3	Reconstruct Runway 18/36 / Taxiway C Airfield Lighting - Phase 3	Yes	Pending	Yes	Yes	NA	NA	NA	\$210,000	\$150,000	\$20,000	\$20,000	\$400,000	
19	23	2023	NE Quad. Entr. Rd. & Parking Lot - Ph. 2 (Area 2)	Construct and Mark Northeast Quadrant Entrance Road & Construct, Light and Mark Auto Parking Lot Including Fire Protection, Grading and Drainage - Phase 2 (Area 2)	Yes	Approved	Yes	Yes	NA	NA	NA			\$1,778,600	\$411,400	\$2,190,000	NE Quad in support of hanger development



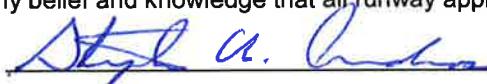


Transportation Improvement Program (TIP) Data Sheet

Airport:	Aurora Municipal	LOCID:	ARR	Local Priority:	1
Project Description:	Airfield Pavement Rehabilitation – Phase 3 (Area 1)			FFY 2019	
					
Justification:	<p>The Aurora Municipal Airport is a general aviation reliever facility which currently serves the general and corporate aviation demands of Chicago's western suburbs and the City of Aurora. As a reliever to Chicago O'Hare International Airport and Chicago Midway International Airport, Aurora Municipal Airport will reduce air carrier congestion by providing facilities and services suitable for attracting and diverting general aviation and corporate business aviation away from major air carrier airports. According to the Illinois Statewide Aviation Economic Impact Study (IDOT Aeronautics 2012 study), the Airport has a total economic impact of \$101.8 million to the community.</p> <p>Per the pavement condition index (PCI) surveyed and performed in 2016, the main apron areas showed PCI values ranging from 76 to 84. Some areas along the apron have experienced differential elevations, cracking and edge spalling. The Project will be an "Other Category" related project per FAA Order 5100.39A.</p> <p>The proposed improvements include: apron panel removal and replacement, PCC joint cleaning and sealing and other improvements.</p> <p>The required funding for the project is being requested from the FY 2019 AIP program. The checklist to support an environmental finding of Categorical Exclusion (CATEX) will be submitted as a portion of the project development.</p>				
Cost Estimate: (Attach detailed cost estimate)					
Federal (90%) \$330,300	State (5%) \$18,350		Local (5%) \$18,350	Total: \$367,000	
Sponsor Verification		Date: (see instruction sheet)			
For each and every project as applicable		8/17/1998	Date of approved ALP with project drawn		
		To Be Submitted	Date of environmental determination (ROD, FONSI, CE) or cite CE paragraph # (307-312) in Order 1050.1E, determination to accompany submittal		
		N/A	Date of land acquisition or signed purchase agreement		
		N/A	Snow removal equipment inventory & sizing worksheet (for SRE acquisition)		
		N/A	Apron sizing worksheet (for apron projects)		
		7/21/2016	5010 Inspection Compliance (Attach copy of letter from Bureau of Aviation Safety)		
		N/A	Revenue producing facilities (for fuel farms, hangars, etc.)		

I certify to the best of my belief and knowledge that all runway approaches are clear of obstructions.

Sponsor's Signature:



Date:

12/1/17

Printed Name:

Stephen K. Andras, P.E.

Title: Interim Airport Manager

Phone Number

(630) 264-3041

Division of Aeronautics use only

Preapp Number	Grant Number	NPIAS Code	Work Code	FAA Priority	Federal \$



Illinois Department of Transportation
Division of Aeronautics

e-TIPS '19

2019 TRANSPORTATION IMPROVEMENT PROGRAM
ESTIMATE OF WORK

Airport Name: Aurora Municipal
Associated City: Aurora
Year Requested: 2019
Sponsor Priority: 1

PROJECT TITLE:					
Airfield Pavement Rehab. - Ph. 3					

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	ESTIMATE OF WORK	
					\$	%
AR150510	ENGINEER'S FIELD OFFICE	LS	1	\$18,000.00	\$18,000.00	
AR150520	MOBILIZATION	LS	1	\$14,600.00	\$14,600.00	
AR152410	UNCLASSIFIED EXCAVATION	CY	130	\$115.00	\$14,950.00	
AR208515	POROUS GRANULAR EMBANKMENT	CY	130	\$42.00	\$5,460.00	
AR209604	CRUSHED AGG. BASE COURSE - 4"	SY	100	\$14.00	\$1,400.00	
AR501910	REMOVE & REPLACE PCC PAVEMENT	SY	1,150	\$150.00	\$172,500.00	
AR605542	CLEAN & SEAL EXPANSION JOINT	LF	250	\$20.00	\$5,000.00	
AR620520	PAVEMENT MARKING - WATERBORNE	SF	500	\$8.00	\$4,000.00	
AR620525	PAVEMENT MARKING - BLACK BORDER	SF	500	\$8.00	\$4,000.00	
AR800009	SPALL REPAIR	SF	75	\$250.00	\$18,750.00	
AR800153	CONCRETE WASHOUT	LS	1	\$7,000.00	\$7,000.00	
ESTIMATED CONSTRUCTION COST =					\$265,660.00	
ENGINEERING / ADMINISTRATION =					\$60,600.00	
CONTINGENCY (15%) =					\$39,849.00	
TOTAL ESTIMATED PROJECT COST =					\$366,109.00	

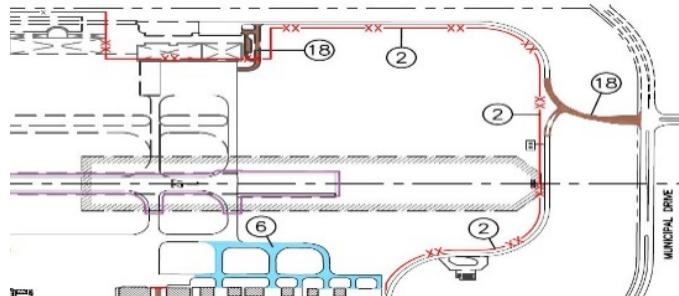
TOTAL ESTIMATED PROJECT COST: USE \$367,000



**Illinois Department
of Transportation**

**Transportation Improvement
Program (TIP) Data Sheet**

Airport:	Aurora Municipal	LOCID:	ARR	Local Priority:	2
Project Description:	Install Airport Perimeter/Security 10' Fencing			FFY 2019	



Justification:	<p>The Aurora Municipal Airport is a general aviation reliever facility which currently serves the general and corporate aviation demands of Chicago's western suburbs and the City of Aurora. As a reliever to Chicago O'Hare International Airport and Chicago Midway International Airport, Aurora Municipal Airport will reduce air carrier congestion by providing facilities and services suitable for attracting and diverting general aviation and corporate business aviation away from major air carrier airports. According to the Illinois Statewide Aviation Economic Impact Study (IDOT Aeronautics 2012 study), the Airport has a total economic impact of \$101.8 million to the community. Proposed east quadrant fencing is a continuation of previous fencing projects. The new fences and gates shall be 10' high, per recommendations from the Wildlife Hazard Assessment report dated February 2016. Wildlife Services recommends that any AOA fencing be a minimum height of 10' chain link with 3 strands of barbed/razor wire installed at the top and a buried fence skirt to prevent animals from digging under the fence and to protect the airport from any wildlife in general. This work will greatly enhance the airport security, reduce unwarranted runway incursions and reduce the potential for wildlife incursions. The Project will be a Safety/Security related project per FAA Order 5100.39A.</p> <p>The required funding for the project is being requested from the FFY 2019 AIP program. The Checklist to Support an Environmental Finding of Categorical Exclusion (CATEX) will be submitted as a portion of the project development.</p>				
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Cost Estimate: (Attach detailed cost estimate)

Federal (90%) \$754,200	State (5%) \$41,900	Local (5%) \$41,900	Total: \$838,000
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Sponsor Verification	Date:	(see instruction sheet)
	8/17/1998	Date of approved ALP with project drawn
	To Be Submitted	Date of environmental determination (ROD, FONSI, CE) or cite CE paragraph # (307-312) in Order 1050.1E, determination to accompany submittal
For each and every project as applicable	N/A	Date of land acquisition or signed purchase agreement
	N/A	Snow removal equipment inventory & sizing worksheet (for SRE acquisition)
	N/A	Apron sizing worksheet (for apron projects)
	7/21/2016	5010 Inspection Compliance (Attach copy of letter from Bureau of Aviation Safety)
	N/A	Revenue producing facilities (for fuel farms, hangars, etc.)

I certify to the best of my belief and knowledge that all runway approaches are clear of obstructions.

Sponsor's Signature: Stephen K. Andras Date: 12/1/17

Printed Name: Stephen K. Andras, P.E. Title: Interim Airport Manager

Phone Number (630) 264-3041

Division of Aeronautics use only

Preapp Number	Grant Number	NPIAS Code	Work Code	FAA Priority	Federal \$



Illinois Department of Transportation
Division of Aeronautics

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2019 - 2023 TRANSPORTATION IMPROVEMENT PROGRAM
ESTIMATE OF WORK

Airport Name: Aurora Municipal

Associated City: Aurora

Year Requested: 2019

Sponsor Priority: 2

PROJECT TITLE:

INSTALL AIRPORT PERIMETER/SECURITY 10' FENCING - Phase 1

ESTIMATE OF WORK						
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	PRICE	POTENTIAL DBE
AR150510	ENGINEER'S FIELD OFFICE	LS	1	\$20,000.00	\$20,000.00	
AR150520	MOBILIZATION	LS	1	\$38,500.00	\$38,500.00	
AR151420	CLEARING TREES 0-2.5' BUTT DIA.	EACH	10	\$1,250.00	\$12,500.00	\$12,500.00
AR162216	CLASS E MANUAL SLIDE GATE - 16'	EACH	1	\$12,500.00	\$12,500.00	
AR162624	CLASS E MANUAL SLIDE GATE - 24'	EACH	1	\$14,500.00	\$14,500.00	
AR800157	CLASS E FENCE 10' W/ 2' BURY	LF	6,100	\$94.00	\$573,400.00	
AR162920	REMOVAL MANUAL SLIDE GATE	EACH	2	\$900.00	\$1,800.00	
AR800153	CONCRETE WASHOUT	LS	1	\$7,500.00	\$7,500.00	
ESTIMATED CONSTRUCTION COST =						\$680,700.00
ENGINEERING / ADMINISTRATION =						\$123,000.00
CONTINGENCY (5%) =						\$34,035.00
TOTAL ESTIMATED PROJECT COST =						\$837,735.00

TOTAL ESTIMATED PROJECT COST: USE **\$838,000**



Transportation Improvement
Program (TIP) Data Sheet

Airport:	Aurora Municipal	LOCID:	ARR	Local Priority:	3
Project Description:	Reimbursement for ALP Phase 1 and Phase 2 Updates			FFY 2019	
Sketch N/A					
Justification:	<p>The Aurora Municipal Airport is a general aviation reliever facility which currently serves the general and corporate aviation demands of Chicago's western suburbs and the City of Aurora. As a reliever to Chicago O'Hare International Airport and Chicago Midway International Airport, Aurora Municipal Airport will reduce air carrier congestion by providing facilities and services suitable for attracting and diverting general aviation and corporate business aviation away from major air carrier airports. According to the Illinois Statewide Aviation Economic Impact Study (IDOT Aeronautics 2012 study), the Airport has a total economic impact of \$101.8 million to the community.</p> <p>The Airport Layout Plan was updated to reflect future needs of the Airport, to conform to current airport design standards, update existing features and changes in land use. The Project will be a planning related project per FAA Order 5100.39A.</p> <p>The required funding for the project is being requested as apportionment from the FFY 2019 federal/state/local program. Environmental approvals are not applicable.</p>				
Cost Estimate: (Attach detailed cost estimate)					
Federal (90%) \$208,800	State (5%) \$11,600		Local (5%) \$11,600	Total: \$232,000	
Sponsor Verification		Date: (see instruction sheet)			
For each and every project as applicable	8/17/1998	Date of approved ALP with project drawn			
	N/A	Date of environmental determination (ROD, FONSI, CE) or cite CE paragraph # (307-312) in Order 1050.1E, determination to accompany submittal			
	N/A	Date of land acquisition or signed purchase agreement			
	N/A	Snow removal equipment inventory & sizing worksheet (for SRE acquisition)			
	N/A	Apron sizing worksheet (for apron projects)			
	7/21/2016	5010 Inspection Compliance (Attach copy of letter from Bureau of Aviation Safety)			
	N/A	Revenue producing facilities (for fuel farms, hangars, etc.)			

I certify to the best of my belief and knowledge that all runway approaches are clear of obstructions.

Sponsor's Signature:

Date:

12/1/17

Printed Name:

Stephen K. Andras, P.E.

Title: Interim Airport Manager

Phone Number

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Preapp Number	Grant Number	NPIAS Code	Work Code	FAA Priority	Federal \$



Illinois Department of Transportation
Division of Aeronautics

e-TIPS '19

**2019-2023 TRANSPORTATION IMPROVEMENT PROGRAM
ESTIMATE OF WORK**

Airport Name:	Aurora Municipal		
Associated City:	Aurora, Illinois		
Year Requested:	2019	Sponsor Priority:	3

PROJECT TITLE:			
Reimbursement for ALP			

Estimate of Work						
ITEM	QUANTITY		UNIT PRICE		POTENTIAL DBE	
	#	Unit(s)	\$	/	Unit	\$

EXCAVATION

Clearing/Grubbing	.....	/		
Earthwork	.....	/		

DRAINAGE

Underdrains	.....	/		
Pipe	.....	/		
Curb and Gutter	.....	/		
Special Structures	.....	/		

PAVING

Subbase Preparation	.....	/		
401	.....	/		
501	.....	/		
Seal Coat	.....	/		
Crack Filling	.....	/		
Panel Replacement	.....	/		
Pavement Removal	.....	/		
Grooving	.....	/		
Special	.....	/		

LIGHTING

Fixtures, Signs (New/Relocated)	.....	/		
Cable & Transformers	.....	/		
Regulators	.....	/		
Vault Rehabilitation/Work	.....	/		
Special	.....	/		

LANDSCAPING

Seeding/Mulching/Blanket	.....	/		
Sodding	.....	/		
Watering	.....	/		
Special (Wetlands)	.....	/		

FENCING

Class C	.....	/		
Class E	.....	/		
Gates (Manual/Electric)	.....	/		

OTHER / MISC.

Reimbursement of ALP Ph 1 & 2	1 LS	\$232,000.00 / LS	\$232,000.00		
Demolition	.....	/		
Other Specialty Items	.....	/		
Engineering/Contingency/Admin.	.....	/		
Studies (ALP/Exhibit 'A')	.....	/		
Land Acquisition	.....	/		

TOTAL COST:	Potential DBE	
	\$	%
\$232,000.00		



**Illinois Department
of Transportation**

**Transportation Improvement
Program (TIP) Data Sheet**

Airport:	Aurora Municipal	LOCID:	ARR	Local Priority:	4
Project Description:	Overlay SE Quadrant Perimeter Road – Phase 2			FFY 2019	
Justification:	<p>The Aurora Municipal Airport is a general aviation reliever facility which currently serves the general and corporate aviation demands of Chicago's western suburbs and the City of Aurora. As a reliever to Chicago O'Hare International Airport and Chicago Midway International Airport, Aurora Municipal Airport will reduce air carrier congestion by providing facilities and services suitable for attracting and diverting general aviation and corporate business aviation away from major air carrier airports. According to the Illinois Statewide Aviation Economic Impact Study (IDOT Division of Aeronautics 2012 study), the Airport has a total economic impact of \$101.8 million to the community.</p> <p>The project consists of an overlay, crack repair, and pavement reconstruction for the SE Quadrant Perimeter Road. The SE Quadrant Perimeter Road serves as an entrance to the T-hangar site development, corporate hangars, and allows access to the area 2 apron. Pavement is near its service life and is in need of repair.</p> <p>The required funding for the project is being requested from the FFY 2019 AIP program. The Checklist to Support an Environmental Finding of Categorical Exclusion (CATEX) has been submitted as a portion of the project development.</p>				
Cost Estimate:	See attach detailed cost estimate				
Federal (0%) \$0	State (90%) \$247,500	Local (10%) \$27,500	Total: \$275,000		
Sponsor Verification		Date: (see instruction sheet)			
For each and every project as applicable		8/17/1998	Date of approved ALP with project drawn		
		Submitted 11/28/2017	Date of environmental determination (ROD, FONSI, CE) or cite CE paragraph # (307-312) in Order 1050.1E, determination to accompany submittal		
		N/A	Date of land acquisition or signed purchase agreement		
		N/A	Snow removal equipment inventory & sizing worksheet (for SRE acquisition)		
		N/A	Apron sizing worksheet (for apron projects)		
		7/21/2016	5010 Inspection Compliance (Attach copy of letter from Bureau of Aviation Safety)		
		N/A	Revenue producing facilities (for fuel farms, hangars, etc.)		

I certify to the best of my belief and knowledge that all runway approaches are clear of obstructions.

Sponsor's Signature:

Date:

02/11/17

Printed Name:

Stephen K. Andras, P.E.

Title: Interim Airport Manager

Phone Number

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Preapp Number	Grant Number	NPIAS Code	Work Code	FAA Priority	Federal \$



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Division of Aeronautics

e-TIPS '19

2019 TRANSPORTATION IMPROVEMENT PROGRAM
ESTIMATE OF WORK

Airport Name: Aurora Municipal

Associated City: Aurora

Year Requested: 2019

Sponsor Priority: 4

PROJECT TITLE:

Overlay SE Quadrant Perimeter Road - Phase 2

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	PRICE	POTENTIAL DBE	
						\$	%
AR150510	ENGINEER'S FIELD OFFICE	LS	1	\$6,000.00	\$6,000.00		
AR150520	MOBILIZATION	LS	1	\$12,096.90	\$12,096.90		
AR150530	TRAFFIC MAINTENANCE	LS	1	\$2,000.00	\$2,000.00		
AR152610	UNCLASSIFIED EXCAVATION	CY	290	\$36.00	\$10,440.00		
AR201661	CLEAN AND SEAL BITUMINOUS CRACKS	LF	500	\$2.50	\$1,250.00	\$1,250.00	100%
AR201663	SAND MIX CRACK REPAIR	LF	125	\$15.00	\$1,875.00	\$1,875.00	100%
AR208515	POOROUS GRANULAR EMBANKMENT	CY	205	\$45.00	\$9,225.00		
AR208910	REMOVE AND REPLACE AGGREGATE BASE	SY	670	\$34.00	\$22,780.00		
AR209700	CRUSHED AGG. SHOULDER	SY	1,055	\$9.00	\$9,495.00		
AR401610	BITUMINOUS SURFACE COURSE	TON	580	\$100.00	\$58,000.00		
AR401650	BITUMINOUS PAVEMENT MILLING (2-INCH)	SY	3,365	\$10.00	\$33,650.00		
AR401900	REMOVE BITUMINOUS PAVEMENT (5.5-INCH)	SY	610	\$20.00	\$12,200.00		
AR401915	REM & REP BIT PAVEMENT-TYPE A (3.5-INCH)	SY	360	\$85.00	\$30,600.00		
AR602510	BITUMINOUS PRIME COAT	GAL	100	\$3.00	\$300.00	\$300.00	100%
AR603510	BITUMINOUS TACK COAT	GAL	600	\$3.00	\$1,800.00	\$1,800.00	100%
AR620520	PAVEMENT MARKING - WATERBORNE	SF	200	\$10.00	\$2,000.00	\$2,000.00	100%
TOTAL ESTIMATED CONSTRUCTION COST =						\$213,711.90	\$7,225.00
CONTINGENCY (10%) =						\$21,371.19	
DESIGN/CONSTRUCTION ESTIMATED ENGINEERING =						\$40,000.00	
TOTAL ESTIMATED PROJECT COST =						\$275,083.09	

TOTAL ESTIMATED PROJECT COST: USE **\$275,000**