



1360 NW 121st Street
Clive, IA 50325
P 515.964.1229
F 515.964.2370

www.mecresults.com

November 27, 2018

Paul Moritz, PE
Assistant City Manager
Polk County Aviation Authority (PCAA)
410 West First Street
Ankeny, IA 50023

**RE: Federal FY 20 CIP Application Package
Ankeny Regional Airport
Ankeny, IA**

Dear Paul,

Enclosed for your review and comment is a copy of the Federal CIP application package. After your review and approval please print out one (1) copy and sign/date each ACIP data sheet then submit a scanned copy of the entire application package by **December 21, 2018**, to the following agencies in order for projects to be recommended for the Federal FY 2020 program.

Iowa DOT	Federal Aviation Administration
Shane Wright Program Manager Iowa Department of Transportation Office of Aviation 800 Lincoln Way Ames, Iowa 50010 shane.wright@dot.iowa.gov	Jeff Deitering, P.E. Airport Planning Engineer - Iowa Federal Aviation Administration jeff.deitering@faa.gov

In addition, I would greatly appreciate a scanned copy sent to me at jpudenz@mecresults.com for our records. Please contact me at your earliest convenience at 515.964.1229 if you have any questions on the information provided.

Sincerely,

McClure Engineering Company

Jay A. Pudenz, PE, LEED AP

Enclosures



Form 291111 (10-18)

Print Form

Ankeny Regional Airport
Airport

IKV
FAA Identifier

FEDERAL AIRPORT IMPROVEMENT PROGRAM (AIP) PREAPPLICATION FEDERAL FISCAL YEAR 2020 CHECKLIST

Please attach the following documents with your application.

- ☒ Sponsor Identification Sheet for the Airport
- ☒ Capital Improvement Program (CIP) Data Sheet (one for each project listed in the first three years of the CIP) and detailed cost estimate for each data sheet
- ☒ Five-Year CIP
- ☒ Long-Range Needs Assessment
- ☒ Verification of an updated airport layout plan (ALP) (when applying for new construction of buildings or airfield expansion)
- ☒ Verification of completed environmental processing in accordance with National Environmental Policy Act of 1969
- ☐ Verification of completed land acquisition or signed purchase agreement
- ☒ Verification of pavement maintenance program (when applying for pavement preservation or reconstruction)
- ☐ If requesting federal assistance for snow removal equipment, please include an inventory of the existing equipment and calculations based on Chapters 4 and 5 of the Airport Winter Safety and Operations Advisory Circular (AC) 150/5200-30 and the Airport Snow and Ice Control Equipment AC 150/5220-20 showing the minimum equipment needed, along with the Airport Capital Improvement Plan (ACIP) Data Sheet, include a copy of a completed Federal Aviation Administration's snow removal equipment spreadsheet.
- ☒ If requesting federal assistance for general aviation apron expansion, include a copy of a completed FAA apron design spreadsheet.
- ☒ If requesting pavement reconstruction, submit an engineering report showing the need for the reconstruction as part of the CIP justification.
- ☐ For revenue-producing facilities (i.e., fueling facilities and hangars), please submit:
 - 1) A statement that airside development needs are met or include a financial plan to fund airside needs over the next three years.
 - 2) A statement that runway approach surfaces are clear of obstructions (the FFA Airport 5010 should show at least a 20:1 clear approach).
 - 3) Justification for the project.
- ☒ System for Award Management (SAM) registration is up to date (www.sam.gov)

Please e-mail this form with supporting documents identified in the checklist to .

Attn.: Program Manager
Office of Aviation
Iowa Department of Transportation
800 Lincoln Way
Ames, IA 50010

E-mail:
FAX: 515-233-7983
Phone: 515-239-1048



Form 291111 (10-18)

AIRPORT SPONSOR IDENTIFICATION SHEET

*** PLEASE ONLY SUBMIT IT YOU HAVE CHANGES FROM PREVIOUS YEAR. ***

Airport Name: Ankeny Regional Airport

Airport ponsor(s) Name: Polk County Aviation Authority

Contact Person: Paul Moritz, P.E.

Title: Assistant City Manager

Email Address: pmoritz@ankenyiowa.gov

Physical Mailing

Address: 410 West First Street

P.O. Box (if applicable): _____

City: Ankeny

State: IA

ZIP Code: 50023

Phone: 515-965-6420

U.S. Congressional District Number: THREE (3)

Tax Identification Number: 42-1336150

Dun and Bradstreet Number

(DUNS): 1707269750000

You **must** have a current System for Award Management (SAM) registration to receive a grant.
Register at: .

Please email (PDF) your completed preapplication, Capital Improvement Program (CIP), long-range needs assessment, signed CIP data sheets, and all supporting documents to your state agency and Federal Aviation Administration planner at .

FIVE-YEAR AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP)

Attach additional sheets if necessary.

Airport Name, LOCID, City, State: Ankeny Regional Airport, IKV, Ankeny, Iowa	
Prepared By: City of Ankeny	Sponsor Email: pmoritz@ankenyiowa.gov
Date Prepared: November 2018	Sponsor Signature:
Sponsor Phone: 515-965-6420	Printed Name: Paul Moritz, P.E.

FY	Detailed Project/Scope Description	Fund Source	Amount
2020	Taxiway D Apron Grading and Paving (Phase 2)	Federal	\$524,745
		State	
		Local	\$58,305
		Total	\$583,050
2020	Taxiway D Access Road Relocation (Phases 2-4) and Utilities (Phase 2)	Federal	
		State	\$250,740
		Local	\$306,460
		Total	\$557,200
2020	Taxiway D Access Road Paving (Phase 2)	Federal	
		State	
		Local	\$209,600
		Total	\$209,600
2021	Environmental Assessment (Runway 18 Extension, South Corporate Access and Apron)	Federal	\$90,000
		State	
		Local	\$10,000
		Total	\$100,000
2021	Rehabilitate Maintenance Building Parking Lot	Federal	
		State	
		Local	\$184,750
		Total	\$184,750

FIVE-YEAR AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP)

Attach additional sheets if necessary.

Airport Name, LOCID, City, State: Ankeny Regional Airport, IKV, Ankeny, Iowa	
Prepared By: City of Ankeny	Sponsor Email: pmoritz@ankenyiowa.gov
Date Prepared: November 2018	Sponsor Signature:
Sponsor Phone: 515-965-6420	Printed Name: Paul Moritz, P.E.

FY	Detailed Project/Scope Description	Fund Source	Amount
2022	Strengthen and Extend Runway 18/36	Federal	\$4,027,252
		State	
		Local	\$447,473
		Total	\$4,474,725
2022	Taxiway D Apron Grading & Paving (Phase 3)	Federal	
		State	\$314,618
		Local	\$384,533
		Total	\$699,150
2023	South Corporate Access and Apron Grading, Drainage, and Demo	Federal	\$930,600
		State	
		Local	\$103,400
		Total	\$1,034,000
2023	Taxiway D Apron Grading and Paving (Phase 4)	Federal	
		State	\$316,935
		Local	\$387,365
		Total	\$704,300
2023	Taxiway D Access Road Paving and Utilities (Phase 3)	Federal	
		State	
		Local	\$429,100
		Total	\$429,100

**LONG-RANGE NEEDS ASSESSMENT
YEARS SIX TO 20**

Attach additional sheets if necessary.

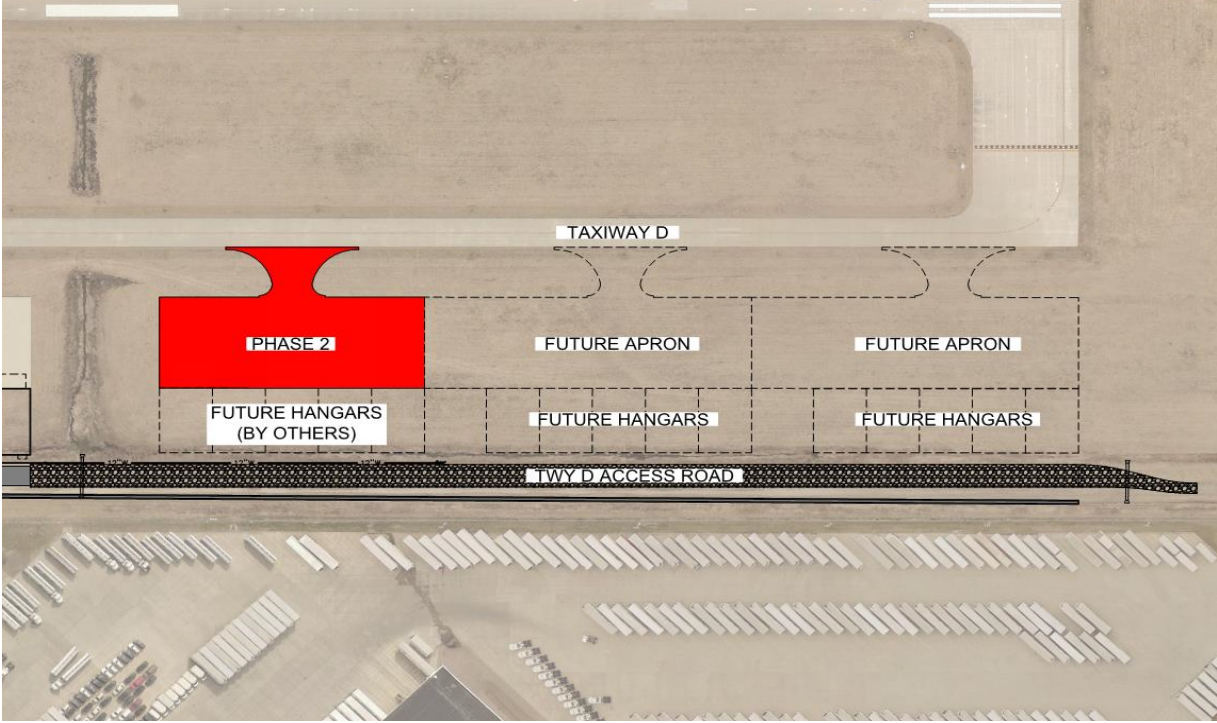
Airport Name, LOCID, City, State:	Ankeny Regional Airport, IKV, Ankeny, Iowa		
Prepared By:	City of Ankeny	Sponsor Email:	pmoritz@ankenyiowa.gov
Date Prepared:	November 2018	Sponsor Signature:	
Sponsor Phone:	515-965-6420	Printed Name:	Paul Moritz, P.E.

Estimated FY	Project Description	Fund Source	Amount
2024	South Corporate Access and Apron Paving	Federal	\$1,020,600
		State	
		Local	\$113,400
		Total	\$1,134,000
2024	Taxiway D Access Road Paving and Utilities (Phase 4)	Federal	
		State	
		Local	\$433,200
		Total	\$433,200
2025	Runway 4/22 and Taxiway D & E Lighting	Federal	\$342,000
		State	
		Local	\$38,000
		Total	\$380,000
2025	Acquire Snow Removal Equipment	Federal	\$135,000
		State	
		Local	\$15,000
		Total	\$150,000
2025	MALSR for Runway 36	Federal	
		State	
		Local	\$654,000
		Total	\$654,000

FEDERAL AVIATION ADMINISTRATION

CIP DATA SHEET

CAPITAL IMPROVEMENT PROGRAM (CIP)
AIRPORTS DIVISION - CENTRAL REGION

SEE INSTRUCTIONS TO COMPLETE THIS INFORMATION			
Airport Name, LOCID, City, State:	Ankeny Regional Airport, IKV, Ankeny, Iowa		
AIP Project Type:	Taxiway D Apron Grading and Paving (Phase 2)		
Local Priority:	1	Federal Share:	\$524,745
FFY Requested:	2020	State Share	
Provide Detailed Project Scope and Justification Below. You must attach a sketch/drawing that clearly identifies the scope of the project.		Local Share:	\$58,305
		Total Project Cost:	\$583,050
Scope: 			
Justification: There is an urgent need for hangars as the Airport has over 40 aircraft on a waiting list. Hangars will be built to accommodate cabin class aircraft. Project includes grading and paving of Phase 2 Apron.			
Date of approved ALP with project shown 5/2/2016 Date of environmental determination 9/27/2016			
SPONSOR SIGNATURE BLOCK			
Signature:		Date:	
Printed Name:	Jeff Wangsness	Title:	Chair-PCAA Board
Phone Number:	515-262-3021	Email:	jwangness@citruking.com

OPINION OF PROBABLE PROJECT COST**PROJECT:** Taxiway D Apron Grading and Paving (Phase 2)**AIRPORT** Ankeny Regional Airport**DATE:** November 2018

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	COST/UNIT	COST
GP-50-1	CONSTRUCTION STAKING	1	LS	\$ 5,000.00	\$5,000
GP-105-1	MOBILIZATION	1	LS	\$ 40,000.00	\$40,000
GP-105-2	TRAFFIC CONTROL	1	LS	\$ 5,000.00	\$5,000
P-152-1	UNCLASSIFIED EXCAVATION	2,000	CY	\$ 10.00	\$20,000
P-152-2	TRIM, SHAPE, AND COMPACT SUBGRADE	4,800	SY	\$ 2.50	\$12,000
P-156-1	SILT FENCE, INSTALL AND REMOVE	1,000	LF	\$ 5.00	\$5,000
P-156-2	STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARATION AND MANAGEMENT	1	LS	\$ 5,000.00	\$5,000
P-219-1	6" AGGREGATE BASE COURSE	4,600	SY	\$ 10.00	\$46,000
P-501-1	7" PCC PAVEMENT	4,300	SY	\$ 46.00	\$197,800
SP-1	ENGINEERING FABRIC	5,000	SY	\$ 2.00	\$10,000
P-620-1	PAVEMENT MARKINGS	1	LS	\$ 7,500.00	\$7,500
D-705-1	SUBDRAIN, 4" PERFORATED	1,800	LF	\$ 25.00	\$45,000
D-705-2	SUBDRAIN CLEANOUTS, 4"	6	EA	\$ 750.00	\$4,500
D-705-3	SUBDRAIN OUTLETS, 4"	4	EA	\$ 1,000.00	\$4,000
D-705-4	CONNECTION TO EXISTING CLEANOUT STRUCTURE OR PIPE	4	EA	\$ 1,000.00	\$4,000
T-901-1	SEEDING, FERTILIZING, AND MULCHING	2	AC	\$ 4,000.00	\$8,000
T-905-1	TOPSOIL, STRIP, SALVAGE, AND RESPREAD	1,500	CY	\$ 5.00	\$7,500
L-105-1	REMOVE TAXIWAY LIGHTS	6	EA	\$ 250.00	\$1,500
L-108-1	CABLE, IN CONDUIT, TRENCHED	1,200	LF	\$ 5.00	\$6,000
L-108-2	#6 AWG BARE COUNTERPOISE CONDUCTOR	750	LF	\$ 3.00	\$2,250
L-108-3	CABLE TESTING	1	LS	\$ 1,500.00	\$1,500
L-110-1	2" SCHEDULE 40 PVC CONDUIT	1,100	LF	\$ 6.00	\$6,600
L-115-1	ELECTRICAL HANDHOLE	2	EA	\$ 750.00	\$1,500
L-125-1	LIGHTS	12	EA	\$ 1,000.00	\$12,000
L-125-2	LOCATION AND PROTECTION OF EXISTING ELECTRICAL EQUIPMENT	1	LS	\$ 5,000.00	\$5,000
L-125-3	RETROREFLECTIVE MARKERS	12	EA	\$ 200.00	\$2,400
TOTAL ESTIMATE OF PROBABLE CONSTRUCTION COST					\$465,050
GEOTECHNICAL INVESTIGATION					\$5,000
TOPOGRAPHIC SURVEY					\$10,000
DESIGN PHASE ENGINEERING					\$40,000
BIDDING SERVICES					\$7,500
CONSTRUCTION SERVICES					\$50,000
SPONSOR ADMINISTRATION					\$500
QA MATERIAL TESTING (EST.)					\$5,000
FAA INSTRUMENT APPROACH PROCEDURE DEVELOPMENT					N/A
FAA FLIGHT INSPECTION					N/A
TOTAL ESTIMATE OF PROBABLE PROJECT COST					\$583,050

Apron Size Calculations for Transient Aircraft

Airport
Location

Existing Apron
 # square yards →

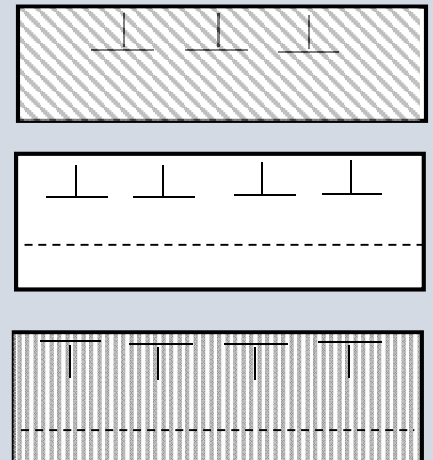
Calculations are based upon guidance established within Appendix 5 to AC 150/5300-13. User may calculate size of apron based upon total annual ops or user may develop an estimate of annual operations

	<u>Based Aircraft</u>	OR	<u>Total Annual Ops</u>
1. Calculate the total annual operations			
Enter number of based aircraft →	<input type="text" value="114"/>		
Enter number of operations per aircraft ¹ →	<input type="text" value="450"/>		
Total Annual Operations →	<input type="text" value="51,300"/>		<input type="text" value="50,000"/>
2. Busiest Month (% of Annual Ops) ²			
Enter % of Annual Ops that occur in busiest month →	<input type="text" value="10"/>		
Busiest Month Operations →	<input type="text" value="5,130"/>		<input type="text" value="5,000"/>
3. Busiest Day (10% > Avg Day)			
Enter Busiest Month (e.g. August) →	<input type="text" value="Apr"/>		
Avg Day Busy Month →	<input type="text" value="171"/>		<input type="text" value="167"/>
Busiest Day 10% > avg. day →	<input type="text" value="188"/>		<input type="text" value="183"/>
4. # Itinerant Aircraft			
Enter % of Itinerant Operations ³ →	<input type="text" value="60"/>		
# Itinerant Aircraft operations →	<input type="text" value="113"/>		<input type="text" value="110"/>
# Itinerant Aircraft Landing Operations →	<input type="text" value="56"/>		<input type="text" value="55"/>
Enter % of Itinerant Operations on ground →	<input type="text" value="50"/>		
# Itinerant AC on ground (assume 50%) →	<input type="text" value="28"/>		<input type="text" value="28"/>
5. Apron area			
# square yards per aircraft ⁴ →	<input type="text" value="1075"/>		
Apron Area (sq yds) →	<input type="text" value="30,331"/>		<input type="text" value="29,563"/>
6. Planned Apron (10% >)			
# square yards →	<input type="text" value="33,364"/>		<input type="text" value="32,519"/>

NOTES:

1. Ops/Based Aircraft:
 Small GA-250 Med GA-350 Reliever-450 Busy Reliever-750
2. Amount of activity can be determined from fuel sales or from actual operations counts. For example if month with highest fuel sales accounts for 20% of annual sales, use 20% of annual as busy month. If actual traffic counts available, use those.
3. Assume 50% of operations are itinerant if no records are available.
4. Planning areas shown assume 10' clearance between wingtips. Taxilane @ edge places taxilane on edge of apron.
5. Users requiring assistance or reasonable accommodation may contact the FAA Central Region at 816-329-2600.

Apron Area	w/o Taxilane	w/Taxilane @ edge	w/Taxilane
Group I	360	755	960
Group II	490	1,075	1,385



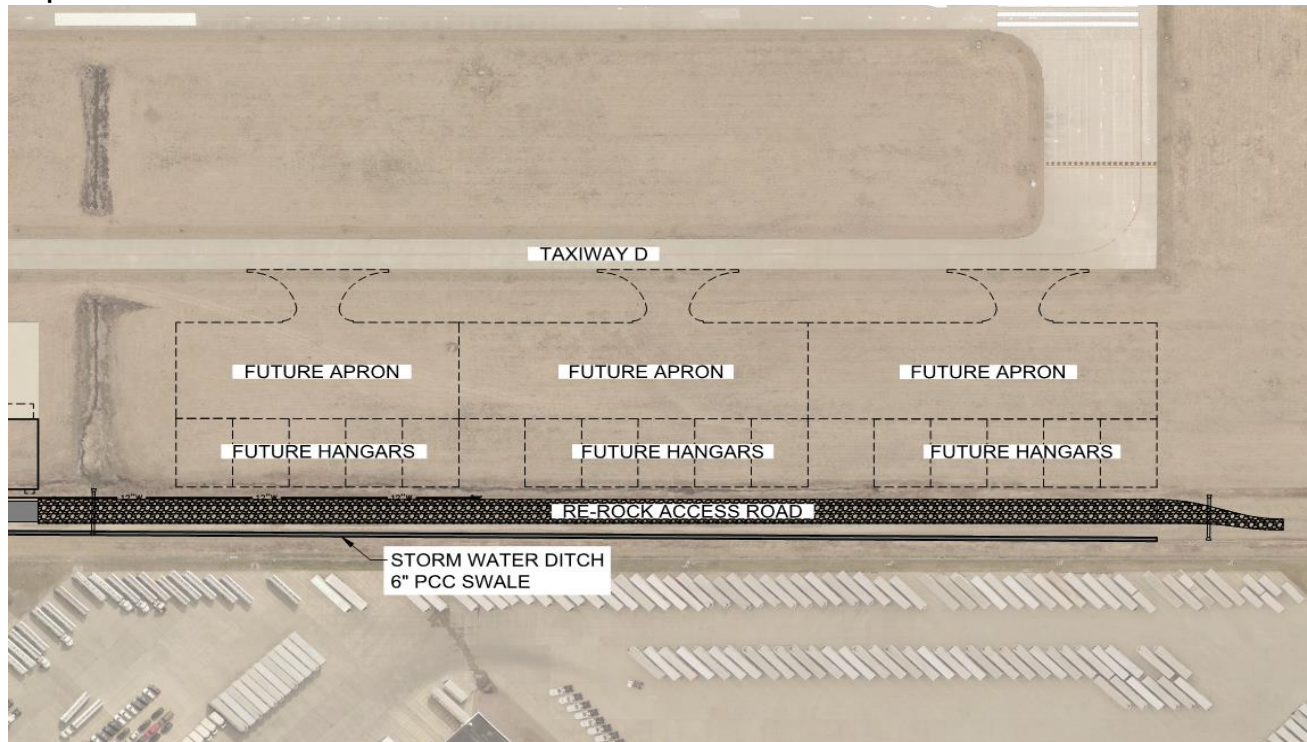
FEDERAL AVIATION ADMINISTRATION**CIP DATA SHEET**

CAPITAL IMPROVEMENT PROGRAM (CIP)

AIRPORTS DIVISION - CENTRAL REGION

SEE INSTRUCTIONS TO COMPLETE THIS INFORMATION

Airport Name, LOCID, City, State:	Ankeny Regional Airport, IKV, Ankeny, Iowa		
AIP Project Type:	Taxiway D Access Road Relocation (Phases 2-4) and Utilities (Phase 2)		
Local Priority:	2	Federal Share:	
FFY Requested:	2020	State Share	\$250,740
Provide Detailed Project Scope and Justification Below. You must attach a sketch/drawing that clearly identifies the scope of the project.		Local Share:	\$306,460
		Total Project Cost:	\$557,200

Scope:

Justification: There is an urgent need for hangars as the Airport has over 40 aircraft on a waiting list. Hangars will be built to accommodate cabin class aircraft. Project includes:

- Ditch Relocation for Phases 2-4
- Grading for Phases 2-4
- Granular Access Road for Phases 2-4
- Utility Extensions for Phase 2

Date of approved ALP with project shown 5/2/2016
Date of environmental determination 9/27/2016

SPONSOR SIGNATURE BLOCK

Signature:		Date:	
Printed Name:	Jeff Wangsness	Title:	Chair-PCAA Board
Phone Number:	515-262-3021	Email:	jwangness@citruking.com

OPINION OF PROBABLE PROJECT COST**PROJECT:** Taxiway D Access Road Relocation (Phases 2-4) and Utilities (Phase 2)**AIRPORT:** Ankeny Regional Airport**DATE:** November 2018

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	COST/UNIT	COST
SECTION 2010 - EARTHWORK, SUBGRADE, AND SUBBASE					
2010-108-C-0	CLEARING AND GRUBBING	LS	1	\$ 10,000.00	\$10,000
2010-108-D-1	TOPSOIL, ON-SITE	CY	2500	\$ 10.00	\$25,000
2010-108-E-0	EXCAVATION, CLASS 10, CLASS 12, OR CLASS 13	CY	4600	\$ 10.00	\$46,000
2010-108-0-0	REMOVAL AND DISPOSAL OF EXISTING GRANULAR SURFACING	SY	3100	\$ 6.00	\$18,600
SECTION 4010 - SANITARY SEWERS					
4010-108-A-1	SANITARY SEWER GRAVITY MAIN, TRENCHED, SDR 35 PVC, 8 IN. DIA.	LF	450	\$ 60.00	\$27,000
4010-108-E-0	SANITARY SEWER SERVICE STUB, 6 IN. DIA.	LF	50	\$ 60.00	\$3,000
4010-108-J-0	CONNECTION TO EXISTING MANHOLE	EA	1	\$ 500.00	\$500
SECTION 4030 - PIPE CULVERTS					
4030-108-A-1	PIPE CULVERT, TRENCHED, RCP, 18 IN. DIA.	LF	50	\$ 70.00	\$3,500
4030-108-A-1	PIPE CULVERT, TRENCHED, CMAP, 35 IN. X 24 IN.	LF	50	\$ 70.00	\$3,500
SECTION 4040 - SUBDRAINS AND FOOTING DRAIN COLLECTORS					
4040-108-B-0	ROOF DRAIN COLLECTOR, PVC, 12 IN. DIA.	LF	750	\$ 60.00	\$45,000
4040-108-C-0	ROOF DRAIN COLLECTOR CLEANOUT, TYPE A-2, 12 IN. DIA.	EA	3	\$ 1,500.00	\$4,500
SECTION 5010 - PIPE AND FITTINGS					
5010-108-A-1	WATER MAIN, TRENCHED, PVC, 12 IN. DIA.	LF	450	\$ 70.00	\$31,500
SECTION 5020 - VALVES, FIRE HYDRANTS, AND APPURTENANCES					
5020-108-A-0	VALVE, GATE, 6 IN. DIA.	EA	1	\$ 2,000.00	\$2,000
5020-108-A-0	VALVE, GATE, 12 IN. DIA.	EA	1	\$ 3,500.00	\$3,500
5020-108-C-0	FIRE HYDRANT ASSEMBLY	EA	1	\$ 5,000.00	\$5,000
5020-108-J-0	VALVE REMOVAL	EA	1	\$ 500.00	\$500
5020-108-J-0	METER PIT REMOVAL	EA	1	\$ 500.00	\$500
SECTION 6010 - STRUCTURES FOR SANITARY AND STORM SEWERS					
6010-108-A-0	MANHOLE TYPE SW-301, 48 IN. DI.A	EA	1	\$ 4,000.00	\$4,000
6010-108-A-0	MANHOLE TYPE SW-303, 60 IN. DI.A	EA	1	\$ 6,000.00	\$6,000
SECTION 7030 - SIDEWALKS, SHARED USED PATHS, AND DRIVEWAYS					
7030-108-E-0	PAVED SWALE, PCC, 6 IN.	SY	700	\$ 50.00	\$35,000
7030-108-0-0	SHOULDER, GRANULAR	TON	200	\$ 40.00	\$8,000
7030-108-0-0	GRANULAR SURFACING	TON	2400	\$ 40.00	\$96,000
SECTION 9010 - SEEDING					
9010-108-B-0	HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND MULCHING, TYPE 1	AC	6	\$ 2,500.00	\$15,000
SECTION 9040 - EROSION AND SEDIMENT CONTROL					
9040-108-A-1	SWPPP PREPARATION	LS	1	\$ 2,000.00	\$2,000
9040-108-A-2	SWPPP MANAGEMENT	LS	1	\$ 3,000.00	\$3,000
9040-108-N-1	SILT FENCE OR SILT FENCE DITCH CHECK	LF	3000	\$ 3.00	\$9,000
9040-108-O-2	STABILIZED CONSTRUCTION ENTRANCE	TON	100	\$ 50.00	\$5,000
SECTION 11020 - MOBILIZATION					
11020-108-A-0	MOBILIZATION	LS	1	\$ 37,700.00	\$37,700
MISCELLANEOUS					
SPECIAL	ELECTRICAL WIRING/CONDUIT	LF	450	\$ 12.00	\$5,400
TOTAL ESTIMATE OF PROBABLE CONSTRUCTION COST					\$455,700
GEOTECHNICAL INVESTIGATION					\$5,000
TOPOGRAPHIC SURVEY					\$7,500
DESIGN PHASE ENGINEERING					\$40,000
BIDDING SERVICES					\$7,500
CONSTRUCTION SERVICES					\$40,000
SPONSOR ADMINISTRATION					N/A
QA MATERIAL TESTING (EST.)					\$1,500
FAA INSTRUMENT APPROACH PROCEDURE DEVELOPMENT					N/A
FAA FLIGHT INSPECTION					N/A
TOTAL ESTIMATE OF PROBABLE PROJECT COST					\$557,200

FEDERAL AVIATION ADMINISTRATION

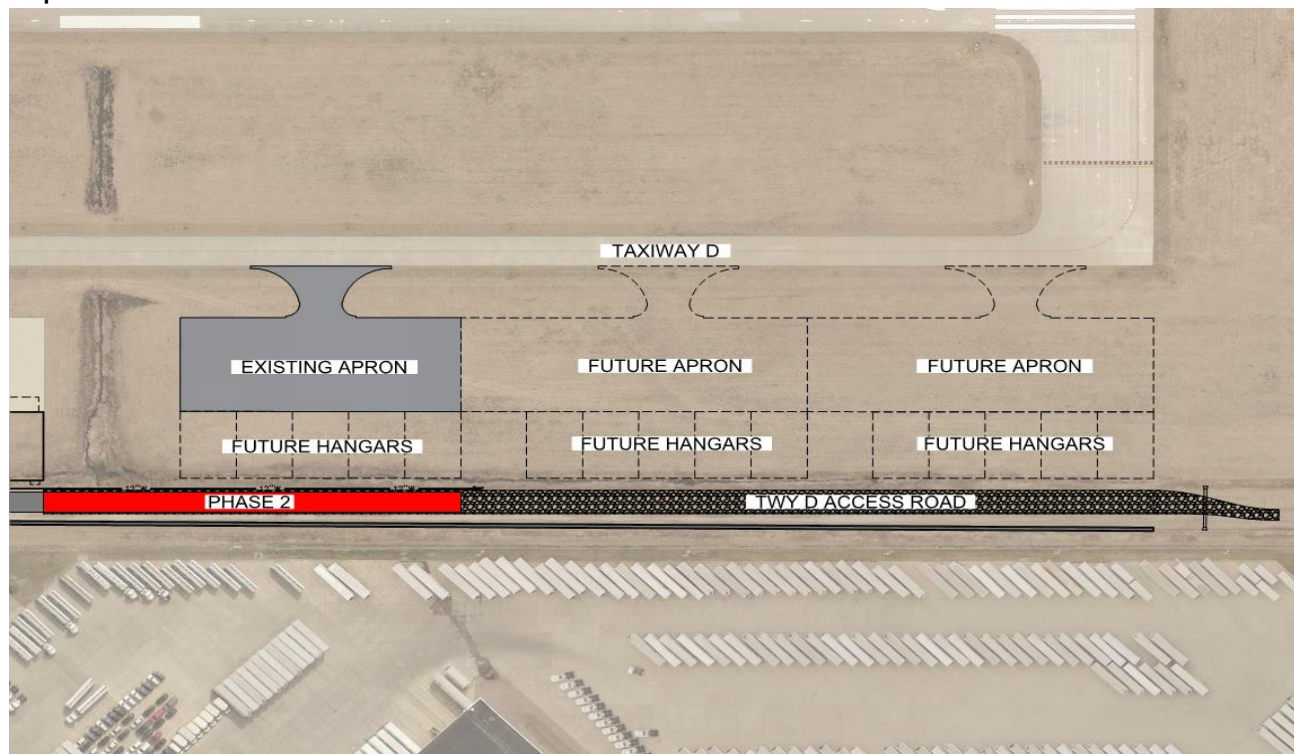
CAPITAL IMPROVEMENT PROGRAM (CIP)

AIRPORTS DIVISION - CENTRAL REGION

CIP DATA SHEET

SEE INSTRUCTIONS TO COMPLETE THIS INFORMATION			
Airport Name, LOCID, City, State:	Ankeny Regional Airport, IKV, Ankeny, Iowa		
AIP Project Type:	Taxiway D Access Road Paving (Phase 2)		
Local Priority:	3	Federal Share:	
FFY Requested:	2020	State Share:	
Provide Detailed Project Scope and Justification Below. You must attach a sketch/drawing that clearly identifies the scope of the project.		Local Share:	\$209,600
		Total Project Cost:	\$209,600

Scope:



Justification: There is an urgent need for hangars as the Airport has over 40 aircraft on a waiting list. Hangars will be built to accommodate cabin class aircraft. Project includes PCC paving and installation of lights for Phase 2.

Date of approved ALP with project shown 5/2/2016
 Date of environmental determination 9/27/2016

SPONSOR SIGNATURE BLOCK

Signature:		Date:	
Printed Name:	Jeff Wangsness	Title:	Chair-PCAA Board
Phone Number:	515-262-3021	Email:	jwangsness@citruking.com

OPINION OF PROBABLE PROJECT COST**PROJECT:** Taxiway D Access Road Paving (Phase 2)**AIRPORT:** Ankeny Regional Airport**DATE:** November 2018

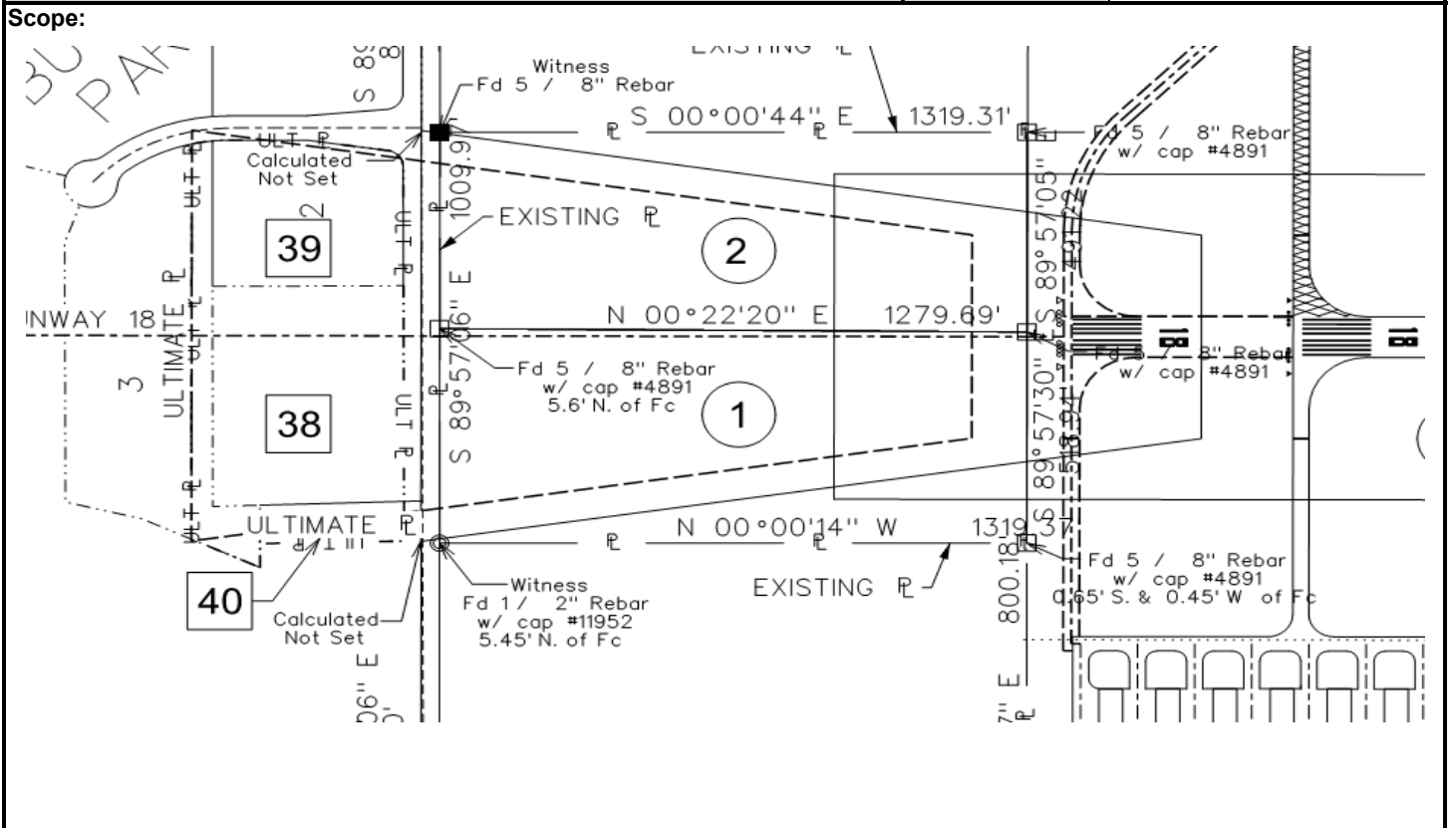
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	COST/UNIT	COST
SECTION 2010 - EARTHWORK, SUBGRADE, AND SUBBASE					
2010-108-D-1	TOPSOIL, ON-SITE	CY	800	\$ 10.00	\$8,000
2010-108-E-0	EXCAVATION, CLASS 10, CLASS 12, OR CLASS 13	CY	1500	\$ 10.00	\$15,000
SECTION 7010 - PORTLAND CEMENT CONCRETE PAVEMENT					
7010-108-A-0	PAVEMENT, PCC, 7 IN.	SY	1600	\$ 48.00	\$76,800
7010-108-I-0	PCC PAVEMENT SAMPLES AND TESTING	LS	1	\$ 3,000.00	\$3,000
SECTION 9010 - SEEDING					
9010-108-B-0	HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND MULCHING, TYPE 1	AC	2	\$ 2,500.00	\$5,000
SECTION 9040 - EROSION AND SEDIMENT CONTROL					
9040-108-A-1	SWPPP PREPARATION	LS	1	\$ 2,000.00	\$2,000
9040-108-A-2	SWPPP MANAGEMENT	LS	1	\$ 3,000.00	\$3,000
9040-108-N-1	SILT FENCE OR SILT FENCE DITCH CHECK	LF	1000	\$ 3.00	\$3,000
9040-108-O-2	STABILIZED CONSTRUCTION ENTRANCE	TON	100	\$ 50.00	\$5,000
SECTION 11020 - MOBILIZATION					
11020-108-A-0	MOBILIZATION	LS	1	\$ 11,800.00	\$11,800
MISCELLANEOUS					
SPECIAL	STREET LIGHTING	LF	1	\$ 10,000.00	\$10,000
TOTAL ESTIMATE OF PROBABLE CONSTRUCTION COST					\$142,600
GEOTECHNICAL INVESTIGATION					PHASE 2
TOPOGRAPHIC SURVEY					\$5,000
DESIGN PHASE ENGINEERING					\$20,000
BIDDING SERVICES					\$6,500
CONSTRUCTION SERVICES					\$30,000
SPONSOR ADMINISTRATION					\$500
QA MATERIAL TESTING (EST.)					\$5,000
FAA INSTRUMENT APPROACH PROCEDURE DEVELOPMENT					N/A
FAA FLIGHT INSPECTION					N/A
TOTAL ESTIMATE OF PROBABLE PROJECT COST					\$209,600

FEDERAL AVIATION ADMINISTRATION

CIP DATA SHEET

CAPITAL IMPROVEMENT PROGRAM (CIP)
AIRPORTS DIVISION - CENTRAL REGION

SEE INSTRUCTIONS TO COMPLETE THIS INFORMATION			
Airport Name, LOCID, City, State:		Ankeny Regional Airport, IKV, Ankeny, Iowa	
AIP Project Type:		Environmental Assessment (Runway 18 Extension, South Corporate Access and Apron)	
Local Priority:	4	Federal Share:	\$90,000
FFY Requested:	2021	State Share:	
Provide Detailed Project Scope and Justification Below. You must attach a sketch/drawing that clearly identifies the scope of the project.		Local Share:	\$10,000
		Total Project Cost:	\$100,000



Justification: Environmental work was originally cleared in 2006, and an update is required to extend Runway 18/36 to 6,000 feet. Also to be included in the environmental assessment will be tree removal as part of Parcel #40 and the development of the South Corporate Access Road and Apron.

Date of approved ALP with project shown 5/2/2016
Date of environmental determination Proposed

SPONSOR SIGNATURE BLOCK

Signature:		Date:	
Printed Name:	Jeff Wangsness	Title:	Chair-PCAA Board
Phone Number:	515-262-3021	Email:	jwangness@citruking.com

FEDERAL AVIATION ADMINISTRATION**CIP DATA SHEET**

CAPITAL IMPROVEMENT PROGRAM (CIP)

AIRPORTS DIVISION - CENTRAL REGION

SEE INSTRUCTIONS TO COMPLETE THIS INFORMATION

Airport Name, LOCID, City, State:	Ankeny Regional Airport, IKV, Ankeny, Iowa		
AIP Project Type:	Rehabilitate Maintenance Building Parking Lot		
Local Priority:	5	Federal Share:	
FFY Requested:	2021	State Share	
Provide Detailed Project Scope and Justification Below. You must attach a sketch/drawing that clearly identifies the scope of the project.		Local Share:	\$184,750
		Total Project Cost:	\$184,750

Scope:

Justification: The parking lot currently experiences poor drainage and continued pavement deterioration including shattered slabs and high severity linear cracking. The Airport completed emergency patching in 2017, but it is no longer cost effective for the Airport to continue funding annual pavement maintenance.

Date of approved ALP with project shown 5/2/2016
Date of environmental determination 9/27/2016

SPONSOR SIGNATURE BLOCK

Signature:		Date:	
Printed Name:	Jeff Wangsness	Title:	Chair-PCAA Board
Phone Number:	515-262-3021	Email:	jwangness@citruucking.com

PROJECT: Rehabilitate Maintenance Building Parking Lot
AIRPORT Ankeny Regional Airport
DATE: November 2018

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	COST/UNIT	COST
GP-50-1	CONSTRUCTION STAKING	1	LS	\$ 2,500.00	\$2,500
GP-105-1	MOBILIZATION	1	LS	\$ 10,000.00	\$10,000
GP-105-2	TRAFFIC CONTROL	1	LS	\$ 2,500.00	\$2,500
P-219-1	GRANULAR SUBBASE	250	TN	\$ 35.00	\$8,750
P-501-1	6" NON-REINFORCED PCC FULL-DEPTH PATCHING	1,000	SY	\$ 85.00	\$85,000
P-501-2	PCC PARTIAL-DEPTH PATCHING	200	SF	\$ 50.00	\$10,000
P-501-3	CURB REMOVAL AND REPAIR	50	LF	\$ 50.00	\$2,500
P-605-1	ROUT AND SEALING	800	LF	\$ 2.50	\$2,000
P-620-1	PAVEMENT MARKINGS	1	LS	\$ 5,000.00	\$5,000
D-751-1	STORM SEWER IMPROVEMENTS	1	LS	\$ 25,000.00	\$25,000
TOTAL ESTIMATE OF PROBABLE CONSTRUCTION COST					\$153,250
GEOTECHNICAL INVESTIGATION					N/A
TOPOGRAPHIC SURVEY					N/A
DESIGN PHASE ENGINEERING					\$10,000
BIDDING SERVICES					\$5,000
CONSTRUCTION SERVICES					\$15,000
SPONSOR ADMINISTRATION					N/A
QA MATERIAL TESTING (EST.)					\$1,500
FAA INSTRUMENT APPROACH PROCEDURE DEVELOPMENT					N/A
FAA FLIGHT INSPECTION					N/A
TOTAL ESTIMATE OF PROBABLE PROJECT COST					\$184,750

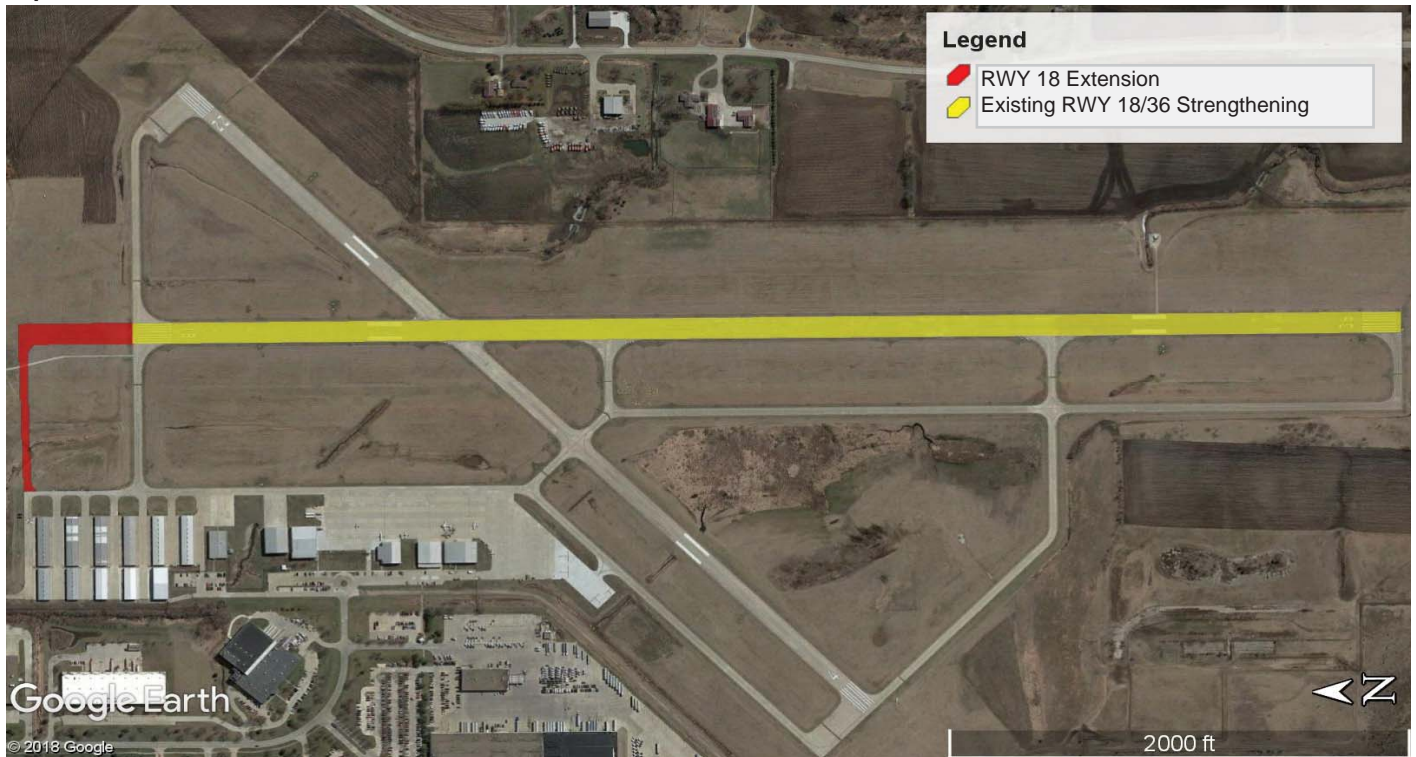
FEDERAL AVIATION ADMINISTRATION

CIP DATA SHEET

CAPITAL IMPROVEMENT PROGRAM (CIP)
AIRPORTS DIVISION - CENTRAL REGION

SEE INSTRUCTIONS TO COMPLETE THIS INFORMATION			
Airport Name, LOCID, City, State:	Ankeny Regional Airport, IKV, Ankeny, Iowa		
AIP Project Type:	Strengthen and Extend Runway 18/36		
Local Priority:	6	Federal Share:	\$4,027,252
FFY Requested:	2022	State Share	
Provide Detailed Project Scope and Justification Below. You must attach a sketch/drawing that clearly identifies the scope of the project.		Local Share:	\$447,473
		Total Project Cost:	\$4,474,725

Scope:



Justification: It is proposed to extend Runway 18/36 by 500-ft to its ultimate length of 6,000-ft to accommodate increased aeronautical demand. A 35-ft wide connector taxiway from the proposed Runway 15 End to the T-Hangar Taxilanes is also proposed. In addition, it is proposed to strengthen the existing 5,500 ft of Runway 18/36 to handle the increased aircraft loads.

Date of approved ALP with project shown 5/2/2016
Date of environmental determination Anticipated in FY21

SPONSOR SIGNATURE BLOCK

Signature:		Date:	
Printed Name:	Jeff Wangsness	Title:	Chair-PCAA Board
Phone Number:	515-262-3021	Email:	jwangness@citruking.com

OPINION OF PROBABLE PROJECT COST

PROJECT: Strengthen and Extend Runway 18/36

AIRPORT: Ankeny Regional Airport

DATE: November 2018

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	COST/UNIT	COST
GP-50-1	CONSTRUCTION STAKING	1	LS	\$ 15,000.00	\$15,000.00
GP-105-1	MOBILIZATION	1	LS	\$ 200,000.00	\$200,000.00
GP-105-2	TRAFFIC CONTROL	1	LS	\$ 10,000.00	\$10,000.00
P-101-1	6" PCC PAVEMENT & 4" AGGREGATE BASE REMOVAL	62,000	SY	\$ 6.00	\$372,000.00
P-101-2	PAVEMENT REMOVAL (ACCESS ROAD)	20	SY	\$ 5.00	\$100.00
P-152-1	UNCLASSIFIED EXCAVATION	1	LS	\$ 100,000.00	\$100,000.00
P-152-2	TRIM, SHAPE, AND COMPACT SUBGRADE	20,000	SY	\$ 1.50	\$30,000.00
P-156-1	SILT FENCE INSTALLATION AND REMOVAL	7,500	LF	\$ 2.50	\$18,750.00
P-156-2	EROSION CONTROL MATERIAL	1,000	SY	\$ 15.00	\$15,000.00
SP-1	ENGINEERING FABRIC	66,340	SY	\$ 1.25	\$82,925.00
P-208-1	6-INCH GRANULAR SUBBASE	9,450	SY	\$ 8.00	\$75,600.00
P-501-1	9-INCH PCC PAVEMENT (EXTENSION)	9,000	SY	\$ 39.00	\$351,000.00
P-501-2	10-INCH PCC PAVEMENT (RWY 18/36)	62,000	SY	\$ 37.00	\$2,294,000.00
P-620-1	PAVEMENT MARKING (EXTENSION)	1	LS	\$ 25,000.00	\$25,000.00
D-701-1	CULVERT, 24", RCP	100	LF	\$ 70.00	\$7,000.00
D-701-2	APRON, 24", RCP	2	EA	\$ 2,000.00	\$4,000.00
D-701-3	TRENCH STABILIZATION MATERIAL (RIP-RAP)	50	TN	\$ 60.00	\$3,000.00
D-705-1	6-INCH PERFORATED SUBDRAIN	2,500	LF	\$ 10.00	\$25,000.00
D-705-2	6-INCH SUBDRAIN CLEANOUT STRUCTURE	5	EA	\$ 500.00	\$2,500.00
D-705-3	6-INCH SUBDRAIN OUTLET	2	EA	\$ 1,200.00	\$2,400.00
T-901-1	SEEDING, FERTILIZING, AND MULCHING	8	AC	\$ 3,000.00	\$24,000.00
T-905-1	TOPSOIL (STRIPPING, STOCKPILING, AND RESPREADING)	8	AC	\$ 2,500.00	\$20,000.00
L-108-1	#8 AWG, 5KV CABLE, INSTALLED IN TRENCH, DUCT, OR CONDUIT	2,500	LF	\$ 3.00	\$7,500.00
L-108-2	#6 AWG, 600V CABLE, INSTALLED IN TRENCH, DUCT, OR CONUIT	1,500	LF	\$ 3.00	\$4,500.00
L-108-3	BARE COUNTERPOISE WIRE WITH GROUND ROD CONNECTORS	2,500	LF	\$ 1.50	\$3,750.00
L-108-4	SPLICE AND CONNECTORS TO EXISTING CIRCUITS	1	LS	\$ 1,000.00	\$1,000.00
L-110-1	SCHEDULE 40 DUCT BANK, INSTALLED IN TRENCH	60	LF	\$ 40.00	\$2,400.00
L-120-1	MEDIUM INTENSITY TAXIWAY EDGE LIGHTS, LED, BASE MOUNTED	16	EA	\$ 1,100.00	\$17,600.00
L-120-2	HIGH INTENSITY RUNWAY EDGE LIGHTS, LED, BASE MOUNTED	7	EA	\$ 1,100.00	\$7,700.00
L-120-3	RELOCATE LOCALIZER	1	LS	\$ 150,000.00	\$150,000.00
L-120-4	RELOCATE REILS AND THRESHOLD LIGHTS	1	LS	\$ 15,000.00	\$15,000.00
L-120-5	GUIDANCE SIGN	2	EA	\$ 2,500.00	\$5,000.00
L-120-6	PAPI 18 INSTALLATION	1	EA	\$ 25,000.00	\$25,000.00
L-120-7	LOCATION AND PROTECTION OF EXISTING CABLES AND EQUIPMENT	1	LS	\$ 15,000.00	\$15,000.00
TOTAL ESTIMATE OF PROBABLE CONSTRUCTION COST					\$3,931,725
GEOTECHNICAL INVESTIGATION					\$10,000
TOPOGRAPHIC SURVEY					\$15,000
DESIGN PHASE ENGINEERING					\$225,000
BIDDING SERVICES					\$12,000
CONSTRUCTION SERVICES					\$255,000
SPONSOR ADMINISTRATION					\$1,000
QA MATERIAL TESTING (EST.)					\$5,000
FAA INSTRUMENT APPROACH PROCEDURE DEVELOPMENT					\$10,000
FAA FLIGHT INSPECTION					\$10,000
TOTAL ESTIMATE OF PROBABLE PROJECT COST					\$4,474,725

FEDERAL AVIATION ADMINISTRATION

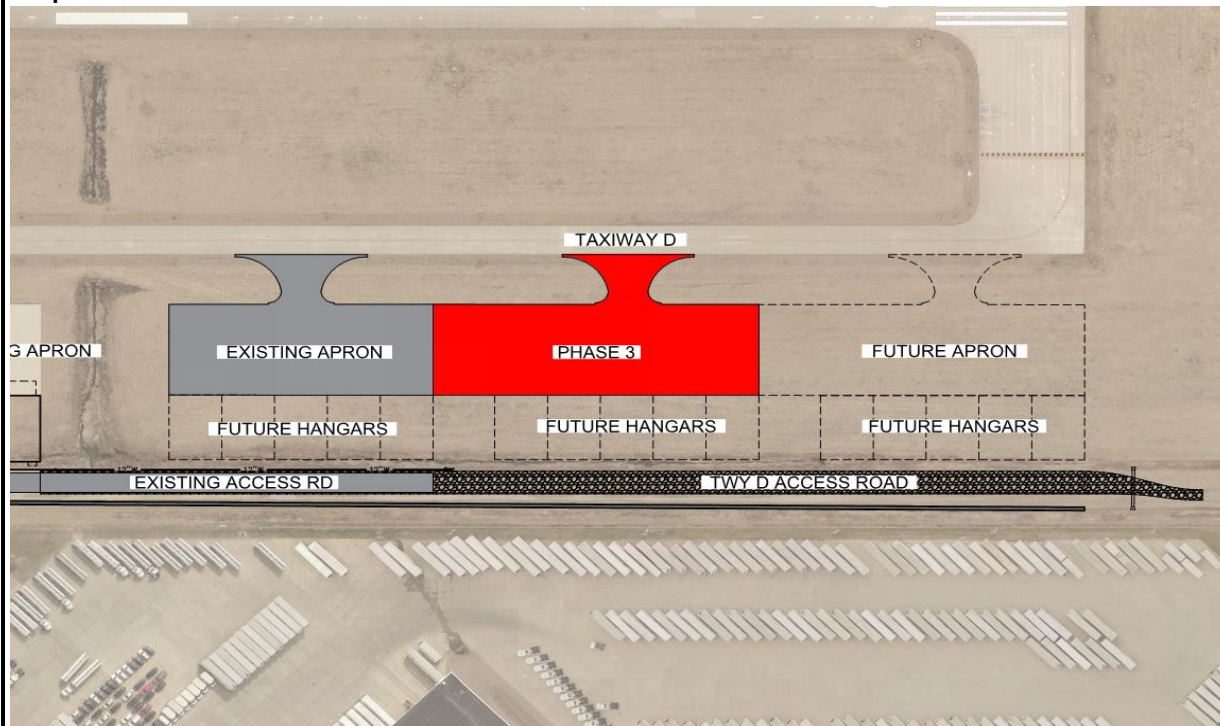
CIP DATA SHEET

CAPITAL IMPROVEMENT PROGRAM (CIP)

AIRPORTS DIVISION - CENTRAL REGION

SEE INSTRUCTIONS TO COMPLETE THIS INFORMATION			
Airport Name, LOCID, City, State:	Ankeny Regional Airport, IKV, Ankeny, Iowa		
AIP Project Type:	Taxiway D Apron Grading & Paving (Phase 3)		
Local Priority:	7	Federal Share:	
FFY Requested:	2022	State Share	\$314,618
Provide Detailed Project Scope and Justification Below. You must attach a sketch/drawing that clearly identifies the scope of the project.		Local Share:	\$384,533
		Total Project Cost:	\$699,150

Scope:



Justification: There is an urgent need for hangars as the Airport has over 40 aircraft on a waiting list. Hangars will be built to accommodate cabin class aircraft. Project includes grading and paving of Phase 3 Apron.

Date of approved ALP with project shown 5/2/2016
Date of environmental determination 9/27/2016

SPONSOR SIGNATURE BLOCK

Signature:		Date:	
Printed Name:	Jeff Wangsness	Title:	Chair-PCAA Board
Phone Number:	515-262-3021	Email:	jwangness@citruking.com

OPINION OF PROBABLE PROJECT COST**PROJECT:** Taxiway D Apron Grading & Paving (Phase 3)**AIRPORT** Ankeny Regional Airport**DATE:** November 2018

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	COST/UNIT	COST
GP-50-1	CONSTRUCTION STAKING	1	LS	\$ 10,000.00	\$10,000
GP-105-1	MOBILIZATION	1	LS	\$ 43,000.00	\$43,000
GP-105-2	TRAFFIC CONTROL	1	LS	\$ 5,000.00	\$5,000
P-152-1	UNCLASSIFIED EXCAVATION	4,500	CY	\$ 10.00	\$45,000
P-152-2	TRIM, SHAPE, AND COMPACT SUBGRADE	5,800	SY	\$ 1.50	\$8,700
P-156-1	SILT FENCE, INSTALL AND REMOVE	1,000	SY	\$ 5.00	\$5,000
P-156-2	STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARATION AND MANAGEMENT	1	LS	\$ 5,000.00	\$5,000
P-157-1	12" CEMENT TREATED SUBGRADE	5,800	SY	\$ 6.00	\$34,800
P-157-2	CEMENT	5	TN	\$ 150.00	\$750
P-219-1	6" AGGREGATE BASE COURSE	5,500	SY	\$ 10.00	\$55,000
P-501-1	7" PCC PAVEMENT	5,200	SY	\$ 46.00	\$239,200
SP-1	ENGINEERING FABRIC	5,900	SY	\$ 2.00	\$11,800
P-620-1	PAVEMENT MARKINGS	1	LS	\$ 10,000.00	\$10,000
D-705-1	SUBDRAIN, 6" PERFORATED	2,100	LF	\$ 25.00	\$52,500
D-705-2	SUBDRAIN CLEANOUTS, 6"	6	EA	\$ 400.00	\$2,400
D-705-3	SUBDRAIN OUTLETS, 6"	4	EA	\$ 1,000.00	\$4,000
D-705-4	CONNECTION TO EXISTING CLEANOUT STRUCTURE OR PIPE	4	EA	\$ 1,000.00	\$4,000
T-901-1	SEEDING, FERTILIZING, AND MULCHING	2	AC	\$ 4,000.00	\$8,000
T-905-1	TOPSOIL, STRIP, SALVAGE, AND RESPREAD	600	CY	\$ 7.00	\$4,200
L-108-1	CABLE, IN CONDUIT, TRENCHED	1,400	LF	\$ 5.00	\$7,000
L-110-1	2" SCHEDULE 40 PVC CONDUIT	1,300	LF	\$ 6.00	\$7,800
L-115-1	ELECTRICAL HANDHOLE	2	EA	\$ 750.00	\$1,500
L-125-1	LIGHTS	14	EA	\$ 1,000.00	\$14,000
L-125-2	LOCATION AND PROTECTION OF EXISTING ELECTRICAL EQUIPMENT	1	LS	\$ 5,000.00	\$5,000
TOTAL ESTIMATE OF PROBABLE CONSTRUCTION COST					\$583,650
GEOTECHNICAL INVESTIGATION					\$10,000
TOPOGRAPHIC SURVEY					\$10,000
DESIGN PHASE ENGINEERING					\$40,000
BIDDING SERVICES					\$5,000
CONSTRUCTION SERVICES					\$45,000
SPONSOR ADMINISTRATION					\$500
QA MATERIAL TESTING (EST.)					\$5,000
FAA INSTRUMENT APPROACH PROCEDURE DEVELOPMENT					N/A
FAA FLIGHT INSPECTION					N/A
TOTAL ESTIMATE OF PROBABLE PROJECT COST					\$699,150