

Airport Advisory Committee Regular Meeting AGENDA

8:00AM, Thursday May 11 2023 In Person at 9 Presidential Lane, Sanford, Maine 04073 Via Zoom:

https://us02web.zoom.us/j/89096359891?pwd=LzlZRTFXVXByMmpTMHdHUFN4MFZYZz09

Meeting ID: 890 9635 9891 Passcode: 223470 Call: +1 312 626 6799

1. Attendance

- 2. Minutes of:
 - a. March 9, 2023 Regular Meeting

3. Fixed Base Operator Reports

- a. Southern Maine Aviation
 - i. Event: Veteran's Fundraiser & Open House
 - ii. Ground School Starting May 30th -August 10th
 - iii. Hosting Young Eagles on May 20th
 - iv. 150 4th graders coming May 11th for Aviation Introduction at 0900, small static display.

4. Airport Manager's Report

- a. Budget FY 23/24 approved
- b. Update Based Aircraft Inventory Underway
- c. Proposed development: Apartment Complex Addition
- d. SFM Hosting the next Maine Aeronautical Advisory Board meeting in June
- e. Ace Camp Seacoast 2023

5. Old Business:

- a. Airport Layout Plan Update from Laura Canham, McFarland Johnson
 - i. Review Chapter 3: Forecast
 - ii. Workshop for AAC and tenants May $17^{th} 1700-1900$
- b. Sealcoating Grant Application: BIL funding Request

6. New Business:

- a. Gatehouse Road Fencing Relocation out to bid
 - i. Closes May 18, 2023

7. Public Participation

- a.
- 8. Agenda items for next meeting July 13, 2023
- 9. Adjourn

Next regular meeting: July 13, 2023 8:00am Sanford Seacoast Regional Airport 9 Presidential Lane



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Airport Advisory Committee Attendance Sheet Regular Meeting 9 Presidential Lane, Sanford, Maine 04073 8:00 am May 11, 2023

NAME	ROLE	PRESENT/ ABSENT
Stuart Miller	AAC	Smith
Bill Grant	AAC	A
Linwood Dall	VICK Chair	4 mil 85
James Deyermond	AAC	Jun)
David Caswell	AAC	ABSENT
Geoff Howe	AAC	ABSENT
Becky Brink	Mayor, Council Rep.	ABSENT
Justin Richardson Greg Pargellis	Non-voting representative of the KKW Water District	Present
Allison Navia	Airport Manager	AN
Allison Navia MPRC BRUNEME	Airport Manager TENAM SF M	AN ZOOM
Allison Navia MPRC BRUNEME LAURA CAMERM	Airport Manager TENAM SF M MJ	AN 200M 200M
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Members present: See attendance sheet.

Meeting called to order at 0800, January 12,2023 minutes approved.

1. Fixed Base Operator Report

Mark discussed the upcoming "open house "planned for June 24,2023 as a fund-raising event for Veterans affairs. It will include honoring veterans, firefighters, police etc. The FBO is working with the Pilots Cove, the American legion and the Sanford police and fire departments to honor these individuals. Entry will be free but **Volunteer donations** will be gladly accepted.

- 2. Southern Maine Aviation (SMA) will begin offering its safety seminars again beginning April 8th 2023. Topics to be discussed will be announced.
- **3.** SMA will be sponsoring 2 for the Air Race Classic (woman's air race). The sponsorship will hopefully develop an interest in aviation for women. SMA is also looking for additional sponsors to assist with the costs.
- **4.** Jim Knowles discussed the building update for the new hangars that will be build this spring. Building E will include 10 spaces. He currently has a waiting list of about 60 persons interested in the spaces.

He also discussed the moving and repair of the existing fence line along Presidential Lane an environmental assessment still needs to be completed.

5. Airport Management Report

Allison mentioned that the winter has not been to difficult keeping the runways and the taxi ways clear due to the low snow amounts. Discussion around the Notams that close the airport during storms has an exception for life Flight. She reported Life Flight has a special contract with the airport to keep their apron area cleared so their operations would be able to continue.

Allison mentioned that the airport budget was still 4 or 5 weeks away from approval. The City Council has informed her that there will be cuts to the airport budget due to finances being more difficult. The main areas for the cuts will be looking at various pieces of airport equipment that needs replacing or purchasing.

6. Old Business

Airport update plan with McFarlan continues and will be discussed in future meetings. A workshop will be held in April or May to enlist recommendation from tenants and the public to seek recommendations.

Sanford (SFM) Airport Advisory Committee Minutes of March 9, 2023

The plan will also address future hangar development and traffic circulation around the airport.

Old Business cont.

Events: The aerobatic practice area was discussed, and it will continue to be as it has been in years past (see map). The city council has suggested having the FAA make it a "permanent box." This issue will be continued to be addressed by the City Counsel. Allison mentioned that there are the regulations that the FAA mandates and this will take time to explore and address.

Allison commented on the Airport Terminal Plan (ATP) request for funds was denied. She is still exploring other options for funding such as congressional earmarks.

7. New Business

No New business to discuss currently.

8. Public Participation

Kurt Woltershorf addressed the committee requesting the mowing in the back of the airport by Sam Everett Road be held off until mid-July due to the Grasshopper Sparrows breeding in the area. Allison commented that the midfield area is generally not mowed until the middle of August. She also discussed the "wildlife management" plan the airport has that address hazards to pilot and planes and that grass cannot be more than 6-10 inches high.

9. Agenda Items for the next meeting.

The fireworks festival for July was canceled due to a lack of sponsors. Discussion for the next meeting will look at the cost and the possibility or a reschedule for this summer if sponsors can be found.

Next meeting scheduled for May 11.2023

10. Adjourn

EAA 225 YOUNG EAGLE FLIGHT RALLY **FREE AIRPLANE RIPES** FOR KIPS AGE: 8 TO 17 Where: Sanford Regional Airport Date: Saturday, May 20, 2023 Time: 10:00 AM to 2:00 PM

A parent's or legal guardian's signature is required at the event

Walk-in Registration Will Be Held In The Big Blue Hangar, West Ramp

The Chapter will be serving a Pancake Breakfast throughout the event for a nominal donation during with proceeds to benefit our Aviation Scholarship

This event is solely provided by members of area & local EAA Chapters

All flights are provided by volunteer EAA Pilots

For more info about Young Eagle Flights visit: <u>www.youngeagles.org</u>



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) (3/22/2023)

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T C B R	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.									
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EA Sa	EAA 225 Spring 2023 Young Eagle Flight Rally Saturday, May 20, 2023 , Rain Date(s): Sunday, May 21, 2023									
CE	RTIFICATE HOLDER				CANC	ELLATION				
Cit 9 F Sa	City of Sanford 9 Presidential Lane Sanford, ME 04073				SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.				LED BEFORE LIVERED IN	
A				AUTHORIZED REPRESENTATIVE						

Manashi Mukherjee

Manaoni Mulcherjee

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ADDITIONAL REMARKS SCHEDULE

Page 2 of 2

AGENCY MARSH USA INC. POLICY NUMBER		NAMED INSURED Experimental Aircraft Association and EAA Aviation Foundation, Inc., et al. Attn: Karen Kryzaniak PO Box 3086 Oshkrash, WI, 54903-3086	
	 	EFFECTIVE DATE:	(3/22/2023)
ADDITIONAL REMARKS			

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 25 FORM TITLE: Certificate of Liability Insurance

The Insured Chapter named above is covered per the terms and conditions of Endorsement - SPM001 (12/2009) - ADDITIONAL INSURED - DESIGNATED PERSON OR ORGANIZATION (Activities Of And Events Sponsored Directly By A Chapter) attached to the Aviation Operations Liability policy evidenced above.

The Certificate Holder is included as an additional insured for use of facility but solely as respects the operations of the Insured and solely as respects the chapter sponsored event.

Experimental Aircraft Association and EAA Aviation Foundation, Inc. etal Schedule of Insurers for the period December 1, 2022 - December 1, 2023 under Insurer letter A.

Insurers:

AIG	10.00%
Air Centurion	2.50%
Applied Underwriters	2.50%
Global Aerospace	19.00%
Old Republic Aerospace	8.00%
Starr	8.50%
XL Catlin	13.00%
AIG London	5.00%
Chaucer	2.00%
Chubb	9.00%
Elseco	2.50%
LRA	10.00%
Swiss Re	8.00%

The insurance is provided by separate insurers. The liability of these is several and not joint.

This insurance applies to Experimental Aircraft Association Chapters, International Aerobatic Association Chapters, EAA Vintage Aircraft Association Chapters, EAA Ultralight Chapters and EAA Warbirds of America Squadrons in the US and Canada.



Sanford Open House Operation Screaming Eagle Fundraiser

Venue: 12 Presidential Lane, Sanford, Maine 04073 Date: June 24, 2023 Time: 11am-5pm Attendees: Approximately 2000

Linda Woodruff has reached out to Southern Maine Aviation to see if it would be possible to host an Open House Fundraiser for Veteran's and their families affected by suicide. We would like to host this event and partner with the City of Sanford Airport supporting Operation Screaming Eagle for the Navy Seal Foundation and Camp Kita at the hangar and surrounding areas near 12 Presidential Lane. (See attached Poster and proposed schedule)

Impact on Airport Operations: Minimal for Sky Divers at the beginning of the event

The event will be centered around the large hangar at 12 Presidential Lane. Attendees will arrive by car, Gatehouse Road to Presidential Lane, and will pass through the airport perimeter fence at the gate adjacent to the Airport Management and Maintenance Building. Parking will be on grass and asphalt, south of the venue hangar and north of the LifeFlight hangar. Volunteer parking will be in front of 12 Presidential Lane access road and ADA and motorcycle parking with be directly in front of the Hangar. (See Event Layout Map)

Markers will be placed to separate pedestrian and vehicle areas from Airport Operations areas – primarily taxiway C. Display Aircraft will be marked off so pedestrians will stay clear of taxi ways. Event personnel will be on ramp area monitoring and directing activities.

Display tables will be set up inside the hangar for informational services related to suicide. Inside the open door will be a seating area for 20 to have a shaded area to rest if needed.

Process:

The Information was presented to the Airport Advisory Committee on March 9th, 2023. The Airport Manager has reviewed the event details and layout and I'm working with her to get approval and send to the City Manager. We request no application fees to be collected on behalf of this fundraiser event. Food truck vendors are Veteran owned and will be donating a portion of the proceeds to this. All gate donations will go to charities. Southern Maine Aviation is volunteering facilities, personnel and support. Pilot's Cove Café, Pine Tree Helicopters and Lifeflight of Maine are also volunteering support. I was briefed Sanford PD and Sanford Fire Department will be participating as well.

meDa

Mark C. Damuth General Manager Southern Maine Aviation



APPLICATION FOR SPECIAL EVENT PERMIT

Application is hereby made for operation of all exhibits and trade shows, to conduct a Special Event as per NFPA 1-10.15.1; 20.1.4.5.1 and local ordinance. This registration binds the applicant to conform to NFPA 1, NFPA 101, (editions as adopted by ME Fire Code) standards and local ordinances. This registration can be revoked by the Sanford Fire Department Office of the Fire Marshal for failure to follow the above mentioned Codes, Ordinances, and Permitting process. Completing this application confirms that the applicant understands the above mentioned.

INFORMATION NEEDED:

This application shall be filled out completely and returned to the Sanford Fire Marshal's Office at least 10 days PRIOR to the event.

Please attach a map of the facility or area and the layout of the event. This may be a printed map marked up, or a freehand drawing. Fee must be paid with application.

Date(s) of Event <u>6/24/23</u> Company Name <u>50-7400 MANE ANIANON</u> Company Phone <u>207 324 8919</u> Co. Fax <u>207 324 - 5417</u> Applicants Name (Individual) <u>MARE DAMETH</u> Applicants Phone <u>207 651-9308</u> Applicants Address (where permit will be mailed) <u>199 AIRPORT ROAD SANFORS NE 04073</u> Email Address <u>Manuth & Flying Sna</u>, com

EVENT INFORMATION:

Location (Street Address) of the

event: 12 PRESEDANTIAL LAWE SANFORS ME 04073

Estimate of how many persons will attend event: 2000 ? Chief Crowd

Manager: MARLDAMOL Number of Additional: 20 VOLUNTEERS

Please note: Crowd Management is required at a ratio of 1 Crowd Manager per every 250 persons Brief description of the

event: SEE ATTA WHED LETTLE AND MAD LAYINT

Live Music, Alcoholic Beverages, or other special considerations needed?: <u>NECONSEC</u>, <u>CONSE SPEAKERS</u> Cooking or food vendors to be present?: <u>FOOD TIMEKS</u> <u>BOTTLES</u> water Tents or portable structures to be used?: <u>E</u> <u>Z</u> <u>ItALO</u> <u>CANOPE</u> TOUTS THIS IS NOT A PERMIT. Fee of \$75.00 per event payable to City of Sanford.



*K9 Demonstrations *Antique Airplane Display *Skydivers

Veteran Owned Food Vendors *Gotta Be Frank *Fatboys * Fresh Squeezed Lemonade *SmokinLamps BBQ

Come out and enjoy a day of fun for the entire family & help raise money for 2 great causes.

Sanford Airport - 12 Presidential Lane, Sanford, ME Saturday, June 24th 11am to 5pm

Schedule of the day's events will be available in the coming weeks.



Operation Screaming Eagle 2023 Event Layout

OPEN HOUSE EVENT SCHEDULE (Proposal)

- 11:00 Open to Public
- 11:30 Sky Dive New England
- 12:00 Music and Announcements
- 12:30 FrogDogK9 Jump and Demo
- 13:00 Guest Speaker Joe Torillo NY Firefighter during 9/11
- 14:00 K9 to 5 Dogs Services Demo
- 14:30 Guest Speaker Scott Hyder from Hidden Battles
- 15:00 Sanford Tactical Demo (Repelling from Big Blue Hangar or Dog Demo)
- 16:00 Live Auction

Food Tucks 11-4 Static Airplanes on display Music and Announcements Support Group Information in Hangar Sanford Fire Department Sanford PD Southern Maine Aviation Pine Tree Helicopters Pilots Cove Café

Lifeflight of Maine



Airport Layout Plan Update Project Status

May 11, 2023





Project Purpose

- Planning tool for the airport and FAA that depicts existing and future facilities at an airport
- Used by the FAA to program future funding assistance and to monitor the airport's compliance with design standards and grant assurances
- A current FAA approved ALP showing the proposed airport development is a prerequisite for issuance of a grant









Airport Layout Plan Process









Forecasts – Based Aircraft





	Low (1.1%) - 2022 New England Market Share	Medium (3.3%) - 10-year Trend Analysis	High (3.8%) - 5-year Trend Analysis
2027	126	140	156
2032	133	165	183
2042	148	228	253





Forecasts - Operations











FAA TAF Comparison and Critical Aircraft



- FAA TAF Comparison
 - 10% in 5 years of FAA TAF
 - 15% in 10 years of FAA TAF
 - 10 t-hangar units this year, difference of 9% in 2027

	Baseline	2027	2032	2042			
FAA TAF							
Total Operations	36,738	36,738	36,738	36,738			
Based Aircraft	119	119	119	119			
	Mas	ter Plan Forecast					
Total Operations	36,738	41,295	46,573	60,118			
Based Aircraft	119	140	165	228			
	Percent	Difference from TA	F				
Total Operations		12.40%	26.77%	63.64%			
Based Aircraft		17.65%	38.37%	91.47%			

- Critical Aircraft 500+ annual operations
 - Existing: B-II Cessna Citation Excel/XLS
 - Proposed: C-II Bombardier Challenger 600







Next Steps







Tenant Meeting

Economic Development Council/Chamber of Commerce Meeting



Facility Requirements Chapter



Alternative Layout(s)





Thank You!











3. FORECASTS

3.1. Introduction and Forecast Methodologies

Forecasting future activity involves both analytical techniques and subjective considerations. The forecasting approach used in this analysis will be to identify several methodologies to project future aviation demand, apply those methodologies to each forecast area of interest, and identify a preferred forecast of activity growth at the Airport. The preferred forecast will be identified through detailed consideration of the forecast analyses presented in this chapter.

Forecast of aviation demand is presented in this chapter for a shortterm, 5-year planning period (2022-2027) and that growth percentage is applied to the full 20-year planning period (2022-2042). The projections of aviation activity provide a basis for determining the type, size, and timing of aviation facility development. As a result, the forecast will influence all subsequent chapters of this report.

The following forecasts and analysis will be developed and presented in this chapter:

- Based Aircraft •
- Annual Aircraft Operations
- GA (General Aviation) Passengers •
- Comparison to FAA TAF
- Critical Aircraft

3.1.1. Forecast Methodologies

The most reliable approach to estimating future aviation demand is to use a variety of analytical techniques. As such, the forecast prepared and described in this chapter were reviewed using several methodologies. Various methods of forecasting aviation demand exist and are widely used throughout the industry including, regression analysis, trend line analysis, market share analysis, the FAA's Terminal Area Forecast (TAF), and the FAA's Aerospace Forecasts Fiscal Year (FY) 2022-2042. These methods have been applied to develop the most accurate forecast possible for SFM and are described in more detail below. An accurate forecast also takes into consideration the role an airport plays in its region. SFM's role as a reliever airport for the region, its location near tourist destinations and other large/busy airports, and

accessibility to facilities (fuel, runway length, apron space, etc.) are drivers of its growth.

3.1.1.1. **Regression Analysis**

Regression analysis involves the use of historical data to identify the relationship between a selected dependent variable, such as based aircraft, and independent variables, such as population. When strong correlations exist between dependent and independent variables useful forecasts can be generated. For this forecast effort, however, no correlations were identified, and regression analysis was not used.

3.1.1.2. **Trend Analysis**

Trend analysis examines historical growth trends in activity at a specific airport and applies the historical trends to current demand levels to produce projections of future activity. Trend analysis assumes that activity, and the factors which have historically affected activity, will continue to influence demand levels at similar rates over an extended period. Linear time series trend projections are typically used to provide baseline forecasts that reflect stable market conditions. Based aircraft, operations, and fuel sales histories were reviewed using this trend analysis and results are shown in **Table 3-1**.

Table 3-1: Trend Analysis Results

	5-year CAGR ¹ percent	10-year CAGR ¹ percent
Total Based Aircraft	5.5	3.3
Total Operations (TAF)	-7.1	-7.4
Total Operations (TFMSC)	3.9	1.9
ADG II Operations	4.8	6.0
AAC C & D Operations	11.7	3.8
Fuel Sale (Total Gallons)	5.6	8.2 ²
Fuel Sale (Avgas/100LL)	2.0	4.9 ²
Fuel Sale (Jet A)	7.4	10.0 ²

¹ CAGR – compound annual growth rate

² Fuel sale history was calculated for an 8-year CAGR due to data provided through 2014.

Sources: FAA TAF, FAA Traffic Flow Management System Counts (TFMSC), Airport records, and McFarland Johnson analysis, 2023.

3.1.1.3. Market Share Analysis

Market share analysis is a method for projecting future aeronautical activity that can be applied to any measure for which a reliable higher-

level forecast is available. Using this methodology historical shares are calculated and used as a basis for projecting future shares. This approach is a "top-down" method of forecasting since forecasts of larger aggregates are used to derive forecasts for smaller elements of the system – in this case Sanford Seacoast Regional Airport. For the market share analysis for SFM, data relative to the State of Maine, the combined States of Maine and New Hampshire, and New England were reviewed for both GA operations and based aircraft. According to the FAA's TAF, SFM market share is shown the Table 3-2.

Table 3-2: Market Share Results Ratio of SFM to

Maine (based air Maine + New Ha (based aircraft) New England (ba Maine (operation Maine + New Ha (operations) New England (or Sources: FAA TAF, 2023.

3.1.1.4.

The FAA TAF is a basic forecast generated by the FAA that features national and regional growth attributes in its composition. While the local market considerations are minimal, it is a required benchmark in the development of new forecasts which are required to be within 10 percent of the 5-year TAF and 15 percent within the 10-year TAF. The current TAF published by the FAA shows no growth throughout the 20-year planning period. Considering Sanford's history of growth, the TAF does not provide an accurate forecast for the Airport.

3.1.1.5. FAA's National Aerospace Forecast

The FAA Aerospace Forecasts FY 2022-2042 provides national growth projections for the aviation industry. The FAA's Aerospace Forecasts identifies projected compound annual growth rates (CAGR) for GA aircraft through the end of its forecast period (2042). This study did not apply the FAA's Aerospace Forecasts as it shows both declining single engine GA operations and based aircraft on a national level, which is inconsistent with the operations and based aircraft at SFM. These national trends rates are identified in Table 3-3 and Table 3-4.

)	2012	2017	2022	
rcraft)	9.0%	9.8%	13.1%	
ampshire	4.4%	4.9%	6.4%	
ased aircraft)	1.5%	1.7%	2.4%	
ns)	12.9%	10.2%	7.7%	
ampshire	7.7%	6.1%	4.4%	
perations)	2.2%	1.7%	1.2%	
				1

FAA Terminal Area Forecast (TAF)



Table 3-3: National Operations by Aircraft Type

CAGR	GA Itinerant	GA Local	Air Taxi/Commuter
2010-2021	-0.7%	1.3%	-4.2%
2022-2032	0.8%	1.0%	0.5%
2022-2042	0.6%	0.7%	0.5%

Sources: FAA National Aerospace Forecast FY 2022-2042

Table 3-4: National Based Aircraft Trends by Aircraft Type

CAGR	Single	Multi	Turbo	Turbo	Total
	Engine	Engine	Prop	Jet	Rotorcraft
2010-2021	-1.1%	-2.6%	0.8%	2.9%	-0.3%
2022-2032	-1.0%	-0.6%	0.2%	2.9%	1.5%
2022-2042	-0.9%	-0.3%	0.6%	2.6%	1.5%
C EAA Martin			122 2042		

Sources: FAA National Aerospace Forecast FY 2022-2042

3.2. **Based Aircraft**

The number of based aircraft at an airport is an important factor for determining future activity levels and the need for expanding or improving airport facilities. Forecasts of based aircraft are used directly to estimate the need for certain types of facilities, such as hangars and aircraft aprons. At non-towered GA airports, such as SFM, projections of based aircraft also often serve as the basis for developing the forecasts of other components of demand, such as aircraft operations. There are 119 aircraft based at Sanford Seacoast Regional Airport, but the Airport consistently gets up to 132 based aircraft. Some of these 13 based aircraft may be splitting their time between airports and may not be counted toward either airport's based aircraft. The demand for additional hangars in recent years has led to additional hangars on the western portion of the airfield with the most recent T-hangar units. Though there has been recent development that was quickly filled up, the Airport still has a waiting list of about 65 individuals interested in basing their aircraft when hangar space becomes available. The Airport has 10 T-hangar units being designed and out to bid as this chapter is being written (January 2023). The Airport also plans for 36 additional units to be added within the next two to three years, including box hangars and T-hangars. Airports and developers generally have a good idea for true demand for short-term hangar need before construction (due to down payments, etc.).

It should also be noted that at the time this forecast was written. Twitchell Airport announced they would be closing and thus, the number of based aircraft at SFM may increase to accommodate the aircraft previously based at Twitchell Airport.

3.2.1. Historical Based Aircraft

Airport records are consistent with the FAA TAF for the total number of based aircraft. In the past 10 years, based aircraft have varied from a low of 86 (in 2012) to the current high of 119.

3.2.2. Forecast Based Aircraft

Utilizing the forecast methodologies outlined in the preceding sections, multiple forecast of based aircraft were developed for SFM. These based aircraft projections are depicted in Figure 3-1 and tabulated in Table 3-5.

Low Growth: The market share analysis of SFM and other airports in the New England Region shows that SFM's based aircraft market share have grown as a percentage of Maine, combined Maine and New Hampshire, and New England (shown in Table 3-1). If SFM maintains the current 2.2 percent based aircraft market share of New England based aircraft, the Airport will experience an approximately 1.1 percent CAGR of based aircraft within the 20year planning period.

Medium Growth: The medium forecast scenario represents the middle of forecast operations at SFM. This scenario takes into consideration the historical 10-year based aircraft CAGR of 3.3 percent SFM has experienced. This scenario also aligns with the organic growth the Airport is already experiencing. There are 10 additional T-hangar units that are out to bid as of Spring 2022 to be constructed in the Summer of 2022. There are additional hangar projects planned that would continue to provide space for people currently on the waitlist.

High Growth: The high forecast scenario represents the high end of forecast operations at SFM. This scenario considers the 5-year based aircraft CAGR of 5.5 percent (which also matches the 5-year total fuel sale CAGR). These forecast trends are also consistent with the current/short-term demand at the Airport, with recent hangar development, and a remaining demand for more development. This high growth rate is applied to the first five years of the forecast period after which the 10-year 3.3 percent CAGR is applied for the remainder of the planning period.

Table 3-5: Based Aircraft Forecast Summary						
	Low (1.1%) - 2022 New England Market Share	Medium (3.3%) - 10-year Trend Analysis	High (3.8%) - 5-year Trend Analysis			
2027	126	140	156			
2032	133	165	183			
2042	148	228	253			

Figure 3-1: Based Aircraft Forecast Summary



Based on the growth at SFM, it is anticipated that the medium-growth forecast is very likely to occur based on planned development at SFM (as described at the beginning of this section) and was chosen as the preferred alternative. Actual growth will occur based on demand.
Table 3-6 breaks down the preferred based aircraft by type of aircraft.
 It is anticipated that multi-engine, jet and other aircraft will increase their presence and single-engine based aircraft will grow but represent 68 percent of total based aircraft compared 81 percent in 2022.

able 5-6: based Allcraft Preferred Forecast Summary by Type						
	Single Engine	Multi Engine	Jet	Rotorcraft	Other	
2022	96	9	1	9	4	
2027	108	12	3	11	6	
2032	122	17	5	13	8	
2042	155	27	11	18	16	

Source: McFarland Johnson analysis, 2023

Airport Layout Plan Update

Sources: FAA TAF, Airport Records, and McFarland Johnson analysis, 2023

Sources: FAA TAF, Airport records, and McFarland Johnson analysis, 2023

Table 3-6: Based Aircraft Preferred Forecast Summary By Type



3.3. **Annual Aircraft Operations**

The FAA defines an aircraft operation as a takeoff or a landing and categorizes the operations by aircraft type and purpose. These categories include commercial (air taxi), GA (both recreational and corporate), and military. The forecasting of these operations by category is used in planning buildings, runways, taxiways, and other airport infrastructure.

3.3.1. Historical Operations by Type

It is common to collect aircraft operations records from airport control towers at airports for the most accurate historical data. However, SFM is a non-towered airport, which usually have inaccurately recorded operations counts. To address that, the state of Maine implemented a record collection effort through the General Audio Recording Device (GARD) system program, SFM has been recording operations using the GARD system that uses radio clicks to estimate aircraft operations counts. The GARD data was collected but this system does not accurately, nor consistently record the operation counts, and has resulted in incomplete data sets. It is likely that the GARD data accounts for approximately 50-60% of total aircraft operations.

Per FAA requirements, all aircraft operating in Class A, B, C, and Class E above 10,000 feet are required to have automatic dependent surveillance - broadcast (ADS-B) equipment and beginning in 2020 SFM has been equipped with an ADS-B system that has been recording traffic counts. Though the ADS-B data provides insight into the airport operations, the historical data does not provide more than a year of consistent data and is therefore insufficient to serve as historical data. In this case, the FAA TAF, is the only consistent source of aircraft operations at the Airport. This historical data for aircraft operations is presented in Table 3-7.

Table 3-7: Historical Aircraft Operations

Year	Military	ltinerant	GA Local	Total
2012	50	31,900	47,200	79,100
2013	50	31,900	47,200	79,100
2014	30	19,140	28,320	47,460
2015	30	19,140	28,320	47,460
2016	30	19,140	28,320	47,460
2017	100	21,112	32,000	53,112
2018	100	21,112	32,000	53,112

Year	Military	ltinerant	GA Local	Total
2019	100	21,112	32,000	53,112
2020	100	8,738	28,000	36,738
2021	100	8,738	28,000	36,738
2022	100	8,738	28,000	36,738

Source: FAA Terminal Area Forecast, 2023

Though the GARD system acts as a baseline to count operations, there unfortunately has been a lack of reliable GARD data with gaps in data over the past 5 years. Therefore, the historical operations trend analysis was not a good predictor of forecast operations. This study also analyzed the historical fuel sales data as an indicator of operations at the Airport. Figure 3-2 detailed a history of the total fuel sales at SFM. This historical data for aircraft operations is presented in Table **3-7**.

Figure 3-2: Historic Fuel Sales



Source: Airport fuel sales records, 2023

3.3.2. Forecast Operations by Type

The following forecast methodologies were used/developed to allow for a range of options for forecasted operations at SFM. The summary results are shown in Table 3-8 and Figure 3-3.

Low/No Growth – The FAA TAF is a basic forecast generated by the FAA that features national and regional growth attributes in its composition. The current TAF published by the FAA shows no growth

throughout the 20-year planning period. This methodology represents the low-end forecast operations at SFM.

Medium Growth – The medium forecast scenario represents the middle of forecast operations at SFM. This scenario is derived from a combination of FAA's Aerospace Forecasts, fuel sale growth, and the TFMSC 10-year total operations growth. The result of this forecast is a CAGR of 1.4 percent for the forecast years.

High Growth – The high forecast scenario represents the high end of forecast operations at SFM. This scenario considers the past five years of historical fuel sales growth. The 5-year CAGR of Avgas/100LL was applied to the GA local and itinerant operations and the 5-year CAGR of Jet A fuel sales was applied to the air taxi operations. This resulted in a total airport operations CAGR of 1.9 percent for forecast years.

Table 3-8: Operation

	Low (0.0%
	FAA TA
2027	36,738
2032	36,738
2042	36,738
C	TAF

Sources: FAA TAF and McFarland Johnson analysis, 2023



Source: McFarland Johnson analysis, 2023

While the 5-year CAGR of fuel sale growth was applied to the High Growth forecast, the 8-year CAGR is even higher, which could indicate a growth of operations above and beyond the High Growth Forecast

ations For	ecast Summary	
(0.0%) -	Medium (1.4%)	High (1.9%) – 5-Y
A TAF	- Combination	Fuel Sale Growt
6,738	40,590	41,295
6,738	44,912	46,573

60,118



53,891



and/or a higher frequency of larger aircraft operating at SFM. This also aligns with the TFMSC trend analysis for total operations, combined ADG II and larger operations, and combined AAC C and D operations. Therefore, the High Growth Forecast was chosen as the preferred operations forecast. The break-down of the preferred operations forecast by type is shown in **Table 3-9**. Air taxi and 10 percent of GA itinerant operations are forecast to grow at the 5-year CAGR of Jet A fuel sales growth and GA local and 90 percent of the GA itinerant operations are forecast to grow at the 5-year CAGR of Avgas/100LL fuel sales growth. Military operations are anticipated to remain constant.

Table 3-9: Operations Forecast Summary by Type

Year	Air Taxi	GA Local	GA Itinerant	Military	Total Operations
2027	2,147	30,930	8,118	100	41,295
2032	3,072	34,168	9,233	100	46,573
2042	6,293	41,694	12,031	100	60,118

Source: McFarland Johnson analysis, 2023

3.3.3. Peaking Characteristics

Annual projections provide a good overview of activity at an airport but fail to reflect operational characteristics of the facility. In many cases, facility requirements are not driven by annual demand but rather by the capacity shortfalls and delays experienced during times of peak operational activity. Therefore, forecasts are developed for the peak month, the average day in the peak month (ADPM), and the peak hour of the ADPM. The values for these metrics were calculated using the methodology in FAA Advisory Circular 150/5360-13A, *Airport Terminal Planning*, with exception of the peak month calculation. Airport peaking characteristics were calculated using the following assumptions:

- Peak Month Operation: This level of activity is defined as the calendar month when peak aircraft operations occur. At SFM, the peak month is generally in the summer (July/August) with occasional September peaks. In the past ten years, the average peak month operations as a total of annual operations according to FAA's TFMSC is 18.1 percent.
- Average Day/Peak Month (ADPM): This level of operation is defined as the average day within the peak month

determined by dividing peak month operations by number of days within the peak month (in this case 30).

• **Design Hour Operation:** This level of operation is defined as the peak hour within the design day, assuming 12 percent of daily operations in the design hour.

The peaking characteristics for operations in the recommended forecast scenario is detailed in **Table 3-10**.

Table 3-10: Forecast Operations Peaking Characteristics

Year	Peak Month	ADPM	Peak Hou
2022	6,650	222	27
2027	7,474	249	30
2032	8,430	281	34
2042	10,881	363	44

Source: McFarland Johnson analysis, 2023

3.4. GA Passengers

GA passengers are defined as the boarding (enplaning) and getting off (deplaning) of an aircraft. For SFM, GA passengers consist of passengers traveling to/from the Airport (itinerant traffic) using GA facilities. Unlike commercial airline passengers and charters, the number of GA passengers are not recorded by either the FAA or the Airport.

To estimate GA passenger enplanements at the Airport, guidance pertaining to the sizing of GA Terminal Buildings contained in *ACRP Report 113*, *Guidebook on General Aviation Facility Planning* (ACRP 113) is utilized to establish a reasonable point of reference. ACRP 113 states that for planning purposes, a factor of 2.5 people (pilots and passengers) can be assumed. For this analysis, the planning factor of 2.5 people is applied to baseline GA itinerant operations to determine the reasonableness of the Airport's GA passenger and crew estimate. Additionally, as the intent of this analysis is to forecast passenger enplanement, the factor was also reduced to 1.5 people per GA itinerant operation. The results are presented in **Table 3-11**.

Table 3-11: Pass

Baseline GA Itinerant Operations Planning Factor Baseline GA Passengers 2042 GA Passengers Source: McFarland Johnson analysis, 2023

3.5. Comparison to FAA TAF

If an airport is included in the FAA TAF, any new aviation activity forecast needs to be reviewed and approved by the agency before they can be applied to further analyses. During this review the FAA looks to see if the based aircraft and annual operations forecast differ from the TAF by less than ten percent in the first five-year period and 15 percent in the first 10-year period. To express the relationship between the FAA forecast for SFM and that developed in this report **Table 3-12** compares each for both based aircraft and operations.

Table 3-12: Comparison to TAF Summary Table

Total Operations Based Aircraft

Total Operations Based Aircraft

Total Operations Based Aircraft

For GA and reliever airports, such as SFM, FAA AC 150/5070-7B, *Airport Master Plans*, identifies that "when the 5- and 10-year forecast is less than 100,000 annual operations or 100 based aircraft, the forecast does not need to be reviewed at FAA Headquarters." The forecast operations do not exceed 100,000 annual operations and the existing based aircraft already exceed 100 based aircraft. Given that 10 new Thangar units will be constructed in 2022, if the based aircraft increase

enger Enpla	enger Enplanements Summary						
	GA Passengers and Crew	GA Passengers					
ltinerant	7,138	7,138					
	2.5	1.5					
sengers	17,845	10,707					
gers	30,078	18,047					

parison to TF	AF Summary	lable		
Baseline	2027	2032	2042	
F	AA TAF			
36,738	36,738	36,738	36,738	
119	119	119	119	
Master	Plan Forecas	st		
36,738	41,295	46,573	60,118	
119	140	165	228	
Percent Dif	ference from	າ TAF		
	12.40%	26.77%	63.64%	
	17.65%	38.37%	91.47%	
Mar - da da la		2		

Sources: FAA TAF and McFarland Johnson analysis, 2023



to 129 by the end of the calendar year 2022, the 2027 based aircraft numbers are less than nine percent difference in 2027.

3.6. Critical Aircraft

The methodologies described in FAA AC 150/500-17, *Critical Aircraft and Regular Use Determination*, were used to determine the current and future critical aircraft for the Airport. Ten-year historical operations data from the FAA TFMSC was used to determine the critical aircraft for SFM. While this source does not capture 100 percent of all airport activity, particularly local operations not filing formal flight plans, the database does provide a reasonable understanding of airport activity and should be the most accurate with respect to the more complex aircraft as they are more likely to fly under IFR with a filed flight plan.

Table 3-13 reveals the level of airport activity by AAC and ADG for calendar year 2022. During this period, a significant number of combined AAC B and C aircraft and ADG II aircraft operations were identified through this database. Based on the 10-year CAGR of 3.8 percent of combined AAC C and D operations at SFM, it is anticipated that within the 20-year planning period, the combined C and D operations will exceed 500. This may be achieved earlier considering the 5-year CAGR for AAC C and D operations was 11.7 percent.

Table 3-13: 2022 Critical Aircraft Table

Airplane Design Group	Aircra	aft App	oroacł	n Cat	egory
	Α	В	С	D	Grand Total
I	669	110	41	3	823
П	40	438	149	34	661
111		4	12	18	34
IV	_		2		2
Grand Total	709	552	204	55	1,520

Source: FAA TFMSC, 2023

The operations data by AAC and ADG for the 2022 calendar year, determines that the existing critical aircraft for SFM is the Cessna Citation Excel/XLS. The proposed critical aircraft is anticipated to be a Bombardier Challenger 600-type aircraft as detailed in **Table 3-14**.

Based on 2021 and 2022 TFMSC data, SFM is a TDG 1B airport. Should the 10-year CAGR of combined TDG 2¹, 2A, and 2B aircraft continue for the next 10 years, SFM will become a TDG 2A airport.

Table 3-14: Critical Aircraft Characteristics

Characteristics	Existing: Cessna Citation Excel/XLS
Length	52.50′
Wingspan	56.33'
Tail Height	17.17′
MTOW	20,200 pounds
Approach Speed	117 knots
AAC	В
ADG	П
TDG	1B
Characteristics	Proposed: Bombardier Challenger 600
Characteristics Length	Proposed: Bombardier Challenger 600 68.42'
Characteristics Length Wingspan	Proposed: Bombardier Challenger 600 68.42' 64.33'
Characteristics Length Wingspan Tail Height	Proposed: Bombardier Challenger 600 68.42' 64.33' 20.67'
Characteristics Length Wingspan Tail Height MTOW	Proposed: Bombardier Challenger 600 68.42' 64.33' 20.67' 41,100 pounds
Characteristics Length Wingspan Tail Height MTOW Approach Speed	Proposed: Bombardier Challenger 600 68.42' 64.33' 20.67' 41,100 pounds 125 knots
Characteristics Length Wingspan Tail Height MTOW Approach Speed AAC	Proposed: Bombardier Challenger 600 68.42' 64.33' 20.67' 41,100 pounds 125 knots C
Characteristics Length Wingspan Tail Height MTOW Approach Speed AAC ADG	Proposed: Bombardier Challenger 600 68.42' 64.33' 20.67' 41,100 pounds 125 knots C II

Sources: FAA AC 150/5300-13B, https://bjtonline.com/business-jet-news/cessnacitation-xls, and https://commons.wikimedia.org/wiki/File:Canadair_CL500_ Challenger_604_(4826809923).jpg





P a g e | 3-5

¹ TDG 2 is included since the FAA's TFMSC still carries the old designation prior to FAA AC 150/5300-13B change of splitting out TDG 2 aircraft.

SANFORD SEACOAST REGIONAL AIRPORT SEAL EAST RAMP (APPROX. 36,000 SY) (BASE BID) AND MARK EAST RAMP (ADD ALT. #1) BID DOCUMENTS



PREPARED FOR:

PREPARED BY:

APRIL 5, 2023 FAA A.I.P. 3-23-0044-XXX-2023 199 AIRPORT RD. YORK COUNTY SANFORD, MAINE



CITY OF SANFORD 919 MAIN STREET SANFORD, ME (207) 324-9125 WWW.SANFORDMAINE.ORG



MJ PROJECT NO.: 18735.03



VICINITY MAP

- SEALED SYDNEY R. SENEY P.E.
- PE NO 17845

PE DATE 04/05/2023



IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. SEAL AND MARK EAST RAMP - SANFORD SEACOAST REGIONAL AIRPORT **GENERAL NOTES:**

1. CONTRACT DOCUMENTS

1.1 THE CONTRACT DOCUMENTS SHALL CONSIST OF THE CONFORMED CONTRACT PLANS, AND CONFORMED CONTRACT SPECIFICATIONS, THAT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- TABLE OF CONTENTS;
- INVITATION TO BID; INSTRUCTIONS TO BIDDERS:
- **BID PROPOSAL;** •
- BID BOND; •
- AWARD OF CONTRACT AND EXECUTION OF CONTRACT BONDS;
- CONTRACT AGREEMENT;
- PERFORMANCE BOND; •
- PAYMENT BOND: •
- NOTICE OF AWARD:
- NOTICE TO PROCEED •
- CONTRACTOR'S GUARANTY;
- SPECIAL PROVISIONS; • FAA – GENERAL PROVISIONS;
- FAA TECHNICAL SPECIFICATIONS;
- PLANS: •
- ADDENDUMS; and •

AND OTHER DOCUMENTS AS REFERENCED IN THE GENERAL PROVISIONS. •

1.2 THE BIDDER IS EXPECTED TO CAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PROPOSAL, FRONT END DOCUMENTS, BIDDING REQUIREMENTS, CONTRACT DOCUMENTS, GENERAL PROVISIONS, TECHNICAL SPECIFICATIONS, SUPPLEMENTAL PROVISIONS, AND CONTRACT PLANS, THE BIDDER SHALL BE SATISFIED AS TO THE CHARACTER, QUALITY, AND QUANTITIES OF WORK TO BE PERFORMED, MATERIALS TO BE FURNISHED, AND AS TO THE REQUIREMENTS OF THE PROPOSED CONTRACT. THE SUBMISSION OF A PROPOSAL SHALL BE PRIMA FACIE EVIDENCE THAT THE BIDDER HAS MADE SUCH EXAMINATION AND IS SATISFIED AS TO THE CONDITIONS TO BE ENCOUNTERED IN PERFORMING THE WORK AND AS TO THE REQUIREMENTS OF THE PROPOSED CONTRACT. PLANS. AND SPECIFICATIONS.

1.3 THIS IS A UNIT PRICE PROJECT. REFER TO TECHNICAL SPECIFICATIONS FOR THE METHOD OF MEASUREMENT AND PAYMENT FOR INDIVIDUAL WORK ITEMS. ITEMS OF WORK REQUIRED BUT NOT COVERED BY SPECIFICATION SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.

2. AIRPORT OPERATIONS COORDINATION

2.1 THE OWNER WILL DESIGNATE AN AIRPORT OPERATIONS MANAGER. THE AIRPORT OPERATIONAL MANAGER SHALL HAVE THE SOLE AUTHORITY TO OPEN AND CLOSE FACILITIES, ISSUE AND CANCEL NOTAMS, AND TO COORDINATE WITH AIRPORT USERS. 2.2 THERE MAY BE MULTIPLE AIRFIELD CONSTRUCTION PROJECTS OCCURRING CONCURRENTLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING ALL WORK FOR THIS PROJECT WITH OTHER CONTRACTORS TO MINIMIZE IMPACTS TO AIRPORT **OPERATIONS**

AIRPORT SECURITY 3.

THIS PROJECT IS WITHIN THE SECURED AIRSIDE OF THE AIRPORT 3.1 3.2 THE CONTRACTOR SHALL COMPLY WITH ALL AIRPORT SECURITY REQUIREMENTS. THIS INCLUDES BUT IS NOT LIMITED TO; CONTROL OF ACCESS (GATES) ENTERING THE SECURE AREA (GATE GUARDS), RESTRICTING MOVEMENT WITHIN THE RESTRICTED AREA TO APPROVED HAUL ROUTES AND WORK AREAS, PROVIDING ESCORTS, CROSSING GUARDS, AND MEETING ALL AIRPORT SECURITY REQUIREMENTS AND PROTOCOLS. 3.3 THE FAA CAN IMPOSE FINES OF \$10,000 OR MORE FOR SECURITY VIOLATIONS AND INCURSIONS INTO ACTIVE AIRCRAFT OPERATION AREAS. THE CONTRACTOR SHALL PAY ALL FINES ASSESSED AGAINST THE AIRPORT DUE TO VIOLATIONS CAUSED BY THE CONTRACTOR AND HIS/HER PERSONNEL, SUBCONTRACTORS AND VENDORS. 3.4 WHERE CONTRACTOR'S ARE ENTERING INTO A SECURED AREA THROUGH A GATE,

EACH VEHICLE IS SUBJECT TO INSPECTION BY AIRPORT SECURITY STAFF. AIRPORT SECURITY WILL MAKE EVERY EFFORT FOR TIMELY INSPECTIONS; HOWEVER, DELAYS ARE LIKELY TO OCCUR.

3.5 CONTRACTOR SHALL INSTRUCT SUPPLIERS, AND SUBCONTRACTORS ON ACCESS PROCEDURES TO BE FOLLOWED.

3.6 ALL SECURITY ARRANGEMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, TSA, AND THE FAA. SEE CONSTRUCTION SAFETY AND PHASING PLAN.

AIRPORT OPERATIONS AND SAFETY REQUIREMENTS 4.

4.1 THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS SO AS TO AFFORD COMPLETE UNRESTRICTED ACCESS BY EMERGENCY EQUIPMENT AND PERSONNEL AT ALL TIMES.

4.2 NORMAL AIRPORT OPERATIONS WILL BE CONDUCTED DURING CONSTRUCTION. THE CONTRACTORS WORK SHALL BE CARRIED ON IN SUCH A MANNER AS NOT TO INTERFERE WITH AIRPORT OPERATIONS. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO ENSURE THE SAFETY OF OPERATING AIRCRAFT AS WELL AS THEIR OWN EQUIPMENT AND PERSONNEL.

4.3 THE CONTRACTOR SHALL FOLLOW FAA ADVISORY CIRCULAR 150/5370-2 "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION", LATEST VERSION, THE REQUIREMENTS SET FORTH IN THE PROJECT'S FAA APPROVED CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) AND THE CONTRACTOR'S APPROVED SAFETY PLAN COMPLIANCE DOCUMENT (SPCD).

4.4 DEVIATIONS FROM THE CSPP WILL REQUIRE A REVISION TO THE CSPP SUBJECT TO THE OWNER, FAA AND MAINEDOT-AD APPROVAL. THE CONTRACTOR IS ADVISED THAT APPROVALS FROM THE FAA IN REGARD TO CSPP REVISIONS CAN TAKE A SIGNIFICATE AMOUNT OF TIME WHICH MAY EFFECT THE PROJECT SCHEDULE.

2

4.5 PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD). THE SPCD WILL DETAIL HOW THE CSPP WILL BE COMPILED TO. WITHIN THE SPCD THE CONTRACTOR SHALL PROVIDE DETAILS INCLUDING BUT NOT LIMITED TO CONTACT NAMES AND NUMBERS, BARRICADES PROPOSED, RUNWAY CLOSED MARKERS PROPOSED, HAUL ROUTES TO WORK AREAS, COMMUNICATION PLAN, FUELING OF EQUIPMENT, FOREIGN OBJECT DEBRIS (FOD), DUST CONTROL, VERIFICATION OF HEIGHT RESTRICTION ON STOCKPILES AND EQUIPMENT, AND OTHER SAFETY PROCEDURES. APPROVAL OF THE SPCD BY THE OWNER AND ENGINEER WILL BE REQUIRED PRIOR TO THE START OF CONSTRUCTION. 4.6 NO CONSTRUCTION OPERATIONS SHALL BE PERFORMED ON ANY ACTIVE RUNWAYS, WITHIN THE TAXIWAY SAFETY AREAS, OR WITHIN THE LIMITS OF ACTIVE RUNWAYS UNLESS PRIOR PERMISSION HAS BEEN OBTAINED FROM AIRPORT OPERATIONS AND THE ENGINEER. NO OPEN FLAME, WELDING OR SPARKS OR BURNING IS PERMITTED WITH IN ANY OPEN/ACTIVE AREAS ON THE AIRPORT WITH OUT PRIOR

PERMISSION OF THE AIRPORT. 4.7 WHEN EQUIPMENT IS NOT ACTIVELY IN USE, IT SHALL BE RETURNED TO THE CONSTRUCTION STAGING AREA OR PARK IN AN AREA(S) APPROVED BY AIRPORT OPERATIONS AND THE ENGINEER. ALL BOOMS SHALL BE LOWERED. 4.8 ALL CONTRACTOR VEHICLES SHALL HAVE THE COMPANY IDENTIFICATION PLAINLY VISIBLE ON BOTH SIDES OF THE VEHICLE IN ORDER TO IDENTIFY THE VEHICLE AND A UNIQUE AND VISIBLE IDENTIFICATION NUMBER OR LETTER. 4.9 EACH CONTRACTOR'S MOTORIZED EQUIPMENT/VEHICLE OPERATING WITHIN THE AIRPORT SECURED AREA OR IN THE VICINITY OF AN ACTIVE RUNWAY APPROACH SHALL BE EQUIPPED WITH AN AMBER FLASHING LIGHT AND/OR A THREE FOOT (3) SQUARE FLAG CONSISTING OF INTERNATIONAL ORANGE AND WHITE SQUARES NOT LESS THAN ONE FOOT (1) DISPLAYED IN FULL VIEW ABOVE THE VEHICLE. ALL VEHICLES SHALL HAVE RELIABLE TWO-WAY RADIO COMMUNICATION. 4.10 THE CONTRACTOR SHALL PROVIDE TWO (2) POINTS OF CONTRACT TO THE AIRPORT AND ENGINEER THAT CAN BE CONTACT AT ANY TIME (24/7) AND ARE AUTHORIZED TO UNDERTAKE IMMEDIATE ACTION ON AIRPORT OPERATION SAFETY CONCERNS THAT ARE RELATED TO CONSTRUCTION ACTIVITY.

5. MINIMAL IMPACT TO AIRPORT OPERATION 5.1 THE CONTRACTORS WORK SHALL BE CARRIED ON IN SUCH A MANNER AS NOT TO INTERFERE WITH AIRPORT OPERATIONS. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO ENSURE THE SAFETY OF OPERATING AIRCRAFT AS WELL AS THEIR OWN EQUIPMENT AND PERSONNEL. 5.2 REFER TO CSPP REQUIREMENTS.

6. HAUL ROUTES

6.1 THE CONTRACTOR SHALL MAKE ALL IMPROVEMENTS TO DESIGNATED ON AIRPORT HAUL ROUTS SUBJECT TO THE APPROVAL OF THE OWNER AND ENGINEER REQUIRED FOR THE SAFE TRANSIT OF CONSTRUCTION VEHICLES AND EQUIPMENT TO AND FROM THE WORK AREA(S) AT NO ADDITIONAL COST TO THE OWNER. 6.2 ANY EXISTING PAVEMENTS USED FOR HAUL ROUTES SHALL BE VIDEOED INSPECTED BY THE CONTRACTOR TO DOCUMENT PRE-CONSTRUCTION CONDITION. ALL IMPROVEMENTS TO PAVED SURFACE AND RESTORATION OF THE PAVED SURFACE TO EQUAL OR BETTER CONDITION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. 6.3 THE CONTRACTOR SHALL DELINEATE ALL HAUL ROUTES WITH ANCHORED CHANNELIZER CONE OR OTHER MEANS THAT IS ACCEPTABLE TO THE OWNER AT NO ADDITIONAL COST TO THE OWNER.

6.4 THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TRAFFIC CONTROL DEVICES INCLUDING BUT NOT LIMITED TO; STOP SIGNS, CONSTRUCTION ENTRANCE SIGN, INFORMATIONAL SIGN, SPEED LIMIT SIGN AND OTHER AT NO ADDITIONAL COST TO THE OWNER.

6.5 UNLESS OTHERWIZED SPECIFIED ON THE PLANS THE SPEED LIMIT FOR ALL ON AIRPORT HAUL ROADS IS 15 MPH.

6.6 ALL VECHICLES EITHER ENTERING OR EXITING THE WORK SITE SHALL BE INSPECTED AND CLEANED/CLEARED OF FOREIGN OJECT DERIS (FOD). 6.7 WHERE PUBLIC ROADS ARE USED FOR HAUL ROUTES THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED, COMPLY WITH ALL LAWS, RULES, REGULATIONS AND ORDINANCES AS APPLICABLE AT NO ADDITIONAL COST TO THE OWNER.

7. SCHEDULES REQUIRED

7.1 EACH MORNING A TAILGATE MEETING SHALL OCCUR BETWEEN THE CONTRACTOR, THE ENGINEER, AND THE OWNER'S PROJECT REPRESENTATIVE. THE INTENT OF THIS MEETING IS TO VERBALLY REVIEW THE WORK AND ACTIVITIES PROPOSED FOR THAT DAY.

CONTRACTORS STAGING AERA AND EMPLOYEE PARKING 8. 8.1 THE CONTRACTOR SHALL USE THE AREA(S) SHOWN ON THE PLANS FOR THEIR STAGING AREA. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL IMPROVEMENTS AND RESTORATION OF THE DESIGNATED AREA(S), SUCH AS CLEARING AND GRUBBING, GRADING. AND CONSTRUCTION OF GRAVEL ACCESS ROADS AND STORAGE AREAS. SECURITY FENCING AND OTHER WORK THAT ARE NECESSARY FOR THE UTILIZATION OF THE AREA AT NO ADDITIONAL COST TO THE OWNER. 8.2 THE CONTRACTOR IS RESPONSIBLE FOR ALL TRASH PICK UP GENERATED BY THE PROJECT. TRASH RECEPTACLES SHALL BE COVERED AND SECURED. 8.3 RESTROOMS FACILITIES ARE TO BE PROVIDED AND MAINTAINED BY THE CONTRACTOR WITHIN THE STAGING AREA()S) AND WITHIN THE ACTIVE WORK AERA(S) WITH THE PERMISSION OF THE OWNER. 8.4 AT THE COMPLETION OF THE PROJECT, THE STAGING AREA SHALL BE RESTORED TO A CONDITION EQUAL OR BETTER THAT PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO THE OWNER.

8.5 NO CONTRACTOR WORKERS WILL BE ALLOWED TO PARK PERSONAL CARS WITHIN THE RESTRICTED AREA (INSIDE THE AIRPORT FENCE). CONTRACTOR WORKS ARE REQUIRED TO USE THE DESIGNATED EMPLOYEE PARKING AREA

9. CONSTRUCTION LAYOUT AND ASSISTANCE TO THE OWNER 9.1 THE CONTRACTOR SHALL FURNISH ASSISTANCE TO THE OWNER AS REQUESTED TO CHECK THE LAYOUT OR WORK IN PROGRESS. SUCH ASSISTANCE SHALL BE UNDERSTOOD TO INCLUDE THE PROVISION OF SUITABLE MANPOWER TO ASSIST THE OWNER IN TAPING MEASUREMENTS, SURVEY FOR CHECKING GRADES AND THE LIKE. THE CONTRACTOR'S OBLIGATIONS FOR LAYOUT, SURVEY AND FURNISHING ASSISTANCE TO THE OWNER SHALL BE DEEMED INCIDENTAL TO THE COMPLETION OF VARIOUS WORK ITEMS AND NO SEPARATE PAYMENT WILL BE MADE FOR SUCH LAYOUT, SURVEY AND ASSISTANCE.

3

10. CONTRACTOR QUALITY CONTROL.

10.1 THE CONTRACTOR SHALL ESTABLISH A QUALITY CONTROL PROGRAM TO PERFORM INSPECTION AND TESTING OF ALL ITEMS OF WORK REQUIRED BY TECHNICAL SPECIFICATIONS, INCLUDING THOSE PERFORMED BY THE SUBCONTRACTORS. THIS QUALITY CONTROL PROGRAM SHALL ENSURE CONFORMANCE TO APPLICABLE SPECIFICATION AND PLANS WITH RESPECT TO MATERIALS, WORKMANSHIP CONSTRUCTION, FINISH, AND FUNCTIONAL PERFORMANCE. THE QUALITY CONTROL PROGRAM SHALL BE EFFECTIVE FOR CONTROL OF ALL CONSTRUCTION WORK PERFORMED UNDER THIS CONTRACT AND SHALL SPECIFICALLY INCLUDE SURVEILLANCE AND TESTS REQUIRED BY THE TECHNICAL SPECIFICATIONS. IN ADDITION TO OTHER REQUIREMENTS OF THIS SECTION AND ANY OTHER ACTIVITIES DEEMED NECESSARY BY THE CONTRACTOR TO ESTABLISH AN EFFECTIVE LEVEL OF QUALITY CONTROL. REFER TO TECHINICAL SPECIFICATION SECTION C-100 FOR REQUIREMENTS.

11. ENVIRONMENTAL PROTECTIONS AND REQUIREMENTS.

11.1 THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS AND ORDINANCES IN REGARD TO THE PROTECTION OF THE ENVIRONMENT AND NATURAL RESOURCES. THE CONTRACTOR SHALL PAY ALL FINES ASSESSED AGAINST THE AIRPORT AND RELATED EXPENSES DUE TO VIOLATIONS CAUSED BY THE CONTRACTOR AND THEIR PERSONNEL, SUBCONTRACTORS, AND VENDORS.

11.2 DISTURBANCE OF WETLANDS IS A POTENTIAL VIOLATION OF FEDERAL, STATE AND LOCAL REGULATIONS. NO DISTURBANCE OF WETLANDS IS INTENDED AS PART OF THE PROJECT EXCEPT WERE INDICATED ON THE PLANS. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID ANY UNAUTHORIZED DISTURBANCE OF WETLANDS AS PART OF THEIR WORK.

11.3 THE CONTRACTOR SHALL LIMIT GROUND DISTURBANCE TO THE AREA WITHIN THE LIMITS OF SEALING, HAUL ROUTES, STAGING AREA(S) AND SURPLUS MATERIAL DISPOSAL SITES. ANY INADVERTENT GROUND DISTURBANCE BEYOND THE PROJECTS LIMITS CAUSED BY THE CONTRACTOR AND THEIR PERSONNEL, SUBCONTRACTORS, AND VENDORS SHALL BE REPORTED TO THE OWNER.

11.4 MATERIALS AND EQUIPMENT USED ON THIS PROJECT SHALL BE CLEANED PRIOR TO SITE WORK TO MINIMIZE THE SPREADING OF INVASIVE SPECIES.

BASE BID

SUMMARY OF QUANTITIES					
BID ITEM	DESCRIPTION OF ITEM	UNIT	QUANTITY		
C-105a	Mobilization	LS	1		
M-100a	Maintenance and Protection of Traffic	LS	1		
P-608-8.1	Emulsified Asphalt Seal Coat	SY	36,000		
P-620-5.1a	Surface Preparation	SF	3,400		

ADD ALT. #1

SUMMARY OF QUANTITIES							
BID ITEM	DESCRIPTION OF ITEM	UNIT	QUANT				
C-105b	Mobilization	LS	1				
M-100b	Maintenance and Protection of Traffic	LS	1				
P-620-5.2b	Marking	SF	5,400				
P-620-5.3c	Reflective Media	LB	40				

QUANTITY NOTES:

- 1. WORK AREA 1 AND WORK AREA 2 EACH REQUIRE ONE (1)
- COAT OF PAVEMENT MARKINGS WITHOUT REFLECTIVE MEDIA. 2. WORK AREA 3 REQUIRES ONE COAT OF PAVEMENT
- MARKINGS WITH REFLECTIVE MEDIA AS REQUIRED PER SHEET MP-01 AND SHEET DT-01.
- 3. ITEM P-620-5.2b INCLUDES QUANTITY FOR ONE (1) COAT IN WORK AREA 1, ONE (1) COAT IN WORK AREA 2, AND (1) COAT IN WORK AREA 3.

4. BLACK PAINT SHALL BE USED IN WORK AREA 3 ONLY.

BID D



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Sheet List Table							
Sheet Number	Sheet Title						
CV-01	COVER SHEET						
GN-01	GENERAL NOTES AND INDEX SHEET						
EX-01	EXISTING CONDITIONS AND MARKING REMOVAL PLAN						
SP-01	CONSTRUCTION SAFETY AND PHASING PLAN						
SC-01	SEAL COATING AREA PLAN						
MP-01	MARKING PLAN						
DT-01	PROJECT DETAILS						

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	SC-01	SEAL COATING AREA PLAN
	MP-01	MARKING PLAN
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ΓΙΤΥ

Submission Table 60% Preliminary Design March 17, 2023 April 03, 2023 Final Design **Bid Documents** April 05, 2023 Issued for Construction As-Built



<u>LEGEND</u>

1

EXISTING TRENCH DRAIN

NOTES:

2

1. ALL PAVEMENT MARKINGS WITHIN SEAL COAT LIMITS SHALL BE REMOVED (BASE BID ITEM P-620-5.1a).

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CONTRACT TIME: BASE BID: SIX (6) CALENDAR DAYS ADD. ALT #1: THREE (3) CALENDAR DAYS

SFM CTAF/UNICOM: 123.075

WORK AREA 1 - WEST PORTION OF EAST RAMP DESCRIPTION

- INSTALL SAFETY EQUIPMENT AND BARRICADES FOR AREA CLOSURE AND MOBILIZE ON SITE (BASE BID)
- REMOVE PAVEMENT MARKINGS WITHIN WORK AREA 1 (BASE BID)
- APPLY SEAL COAT TEST STRIP (BASE BID)
- CLEAN SURFACE PRIOR TO SEAL COAT, INCLUDED SWEEPING THE SEALANT SURFACE (BASE BID) PROTECT SURFACES FROM SEAL COAT AS SHOWN ON PLAN (BASE BID)
- INSTALL SEAL COAT (BASE BID)
- ALLOW ONE CALENDAR DAY FOR SEAL COAT CURING TIME (BASE BID)
- INSTALL ONE (1) COAT OF PAVEMENT MARKINGS, NO REFLECTIVE MEDIA (ADD. ALT #1)
- **OPERATIONAL IMPACTS**
- CLOSURE OF WEST PORTION OF EAST RAMP
- CLOSURE OF FUEL FARM AREA
- CLOSURE EAST RAMP ACCESS FROM TAXIWAY 'B' WORK AREA VISUAL AIDS

NONE

WORK AREA LIMITATIONS

• WORK AREA 1 CANNOT BE COMPLETED CONCURRENTLY WITH OTHER PHASES.

- DURATION
- 3 CONSECUTIVE CALENDAR DAYS (BASE BID)
- 4 CONSECUTIVE CALENDAR DAYS (BASE BID + ADD ALT. #1)
- SPECIAL RESTRICTIONS AND COORDINATION
- HAUL ROUTE TO WORK AREA 1 IS THROUGH ACTIVE RAMP AREA. CONTRACTOR TO GIVE RIGHT OF WAY TO ALL AIRCRAFT AND BE AWARE OF SURROUNDINGS.
- MARKING REMOVAL OF LEAD-IN LINE TO TAXIWAY 'B'/TAXIWAY 'E' WILL REQUIRE AIRPORT COORDINATION. OWNER WILL BE REQUIRED TO BE PRESENT DURING MARKING REMOVAL
- PAVEMENT MARKING REMOVAL OUTSIDE OF THE WORK AREA WILL BE REQUIRED TO BE SWEPT CLEAN TO THE APPROVAL OF THE OWNER.
- DURING WORK AREA 1, ALL AIRCRAFT WILL BE REDIRECTED TO TAXIWAY 'A' TO GAIN ACCESS TO THE RAMP. CONTRACTOR WILL BE REQUIRED TO PULL BACK DURING PAVEMENT MARKING (ADD ALT. #1) OUTSIDE OF WORK AREA IN CASE OF AIRCRAFT TAXIING UP TAXIWAY 'A' AND TURNING ONTO TAXIWAY 'E'.
- BARRICADES SHALL REMAIN IN PLACE UNTIL END OF THE CALENDAR DAYS FOR THIS WORK AREA.

WORK AREA 2 - EAST PORTION OF EAST RAMP

DESCRIPTION

- INSTALL SAFETY EQUIPMENT AND BARRICADES FOR AREA CLOSURE AND MOBILIZE ON SITE (BASE BID)
- REMOVE PAVEMENT MARKINGS WITHIN WORK AREA 2 (BASE B ID) • CLEAN SURFACE PRIOR TO SEAL COAT, INCLUDED SWEEPING THE SEALANT SURFACE (BASE BID) •
- PROTECT SURFACES FROM SEAL COAT AS SHOWN ON PLAN (BASE BID)
- INSTALL SEAL COAT (BASE BID)
- ALLOW ONE CALENDAR DAY FOR SEAL COAT CURING TIME (BASE BID)
- INSTALL ONE (1) COAT PAVEMENT MARKINGS, NO REFLECTIVE MEDIA (ADD. ALT #1)
- **OPERATIONAL IMPACTS**
- CLOSURE OF EAST PORTION OF EAST RAMP
- CLOSURE OF EAST RAMP ACCESS FROM TAXIWAY 'A'
- WORK AREA VISUAL AIDS

NONE

WORK AREA LIMITATIONS

WORK AREA 2 CANNOT BE COMPLETED CONCURRENTLY WITH OTHER PHASES.

DURATION

D

- 3 CONSECUTIVE CALENDAR DAYS (BASE BID)
- 4 CONSECUTIVE CALENDAR DAYS (BASE BID + ADD ALT. #1)
- SPECIAL RESTRICTIONS AND COORDINATION
- MARKING REMOVAL OF LEAD-IN LINE TO TAXIWAY 'A' HOLD POSITION MARKINGS WILL REQUIRE AIRPORT COORDINATION. OWNER WILL BE REQUIRED TO BE PRESENT DURING MARKING REMOVAL.
- PAVEMENT MARKING REMOVAL OUTSIDE OF THE WORK AREA WILL BE REQUIRED TO BE SWEPT CLEAN TO THE APPROVAL OF THE OWNER.
- DURING WORK AREA 2, ALL AIRCRAFT WILL BE REDIRECTED TO TAXIWAY 'B' TO GAIN ACCESS TO THE RAMP. CONTRACTOR WILL BE REQUIRED TO PULL BACK DURING FIRST COAT OF PAVEMENT MARKINGS (ADD ALT. #1) IN CASE OF AIRCRAFT TAXIING UP TAXIWAY 'A' AND TURNING ONTO TAXIWAY 'E'.
- BARRICADES SHALL REMAIN IN PLACE UNTIL END OF THE CALENDAR DAYS FOR THIS WORK AREA.

WORK AREA 3 - SECOND COAT OF MARKINGS (NOT DEPICTED IN PLAN) -COMPRISED OF WORK AREA 1 AND WORK AREA 2 (ADD ALT. #1 ONLY) DESCRIPTION

- WORK AREA 3 IS COMPRISED OF WORK AREA 1 AND 2
- INSTALL (1) COAT OF PAVEMENT MARKINGS ON EAST RAMP INCLUDING REFLECTIVE MEDIA AS REQUIRED
- WORK AREA 3 NOT SHOWN IN PLAN

OPERATIONAL IMPACTS

NO CLOSURES

WORK AREA VISUAL AIDS

- NONE WORK AREA LIMITATIONS
- NONE

DURATION

- 1 CALENDAR DAYS AT LEAST 90 DAYS AFTER COMPLETION OF WORK AREA 1 AND WORK AREA 2. A WORK STOPPAGE WILL BE GIVEN FOR THIS ADDITIONAL DAY.
- SPECIAL RESTRICTIONS AND COORDINATION
- MARKINGS WILL BE COMPLETED WITHOUT CLOSURE OF THE EAST RAMP. OWNER WILL COORDINATE RELOCATION OF PARKED AIRCRAFT TO PROVIDE ACCESS TO ALL AIRCRAFT PARKING SPACES FOR THE
- CONTRACTOR. PAVEMENT MARKINGS FOR LEAD-IN LINES OUTSIDE OF THE EAST RAMP AREA WILL BE DONE THROUGH A 15 MINUTE PPR.
- CONTRACTOR TO NOTIFY OWNER A MINIMUM OF 30 DAYS PRIOR TO THE START OF WORK AREA 3.

NOTES:

- 1. ALL WORK MUST COMPLY WITH THE REQUIREMENTS OF FAA AC 150/5370-2G, OPERATIONAL SAFETY DURING CONSTRUCTION.
- 2. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF THIRTY (30) DAYS NOTICE TO THE OWNER AND ENGINEER PRIOR TO THE CLOSURE OF ANY WORK AREA.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUOUS REMOVAL OF FOREIGN OBJECT DEBRIS (FOD) FROM AIRFIELD PAVEMENTS. A VACUUM SWEEPER SHALL BE ON-SITE DURING ALL CONSTRUCTION WORK PERIODS. THE SWEEPER SHALL BE CONSIDERED INCIDENTAL TO M-001 ITEMS.
- 4. PRIOR TO OPENING THE APRON TO AIRCRAFT, THE APRON WILL BE INSPECTED BY THE OWNER. ANY DEFICIENCIES NOTED SHALL BE CORRECTED BY THE CONTRACTOR
- 5. PAYMENT FOR WORK ASSOCIATED WITH THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) SHALL BE MADE UNDER M-100 MAINTENANCE AND PROTECTION OF TRAFFIC.
- 6. AT NO POINT SHALL CONSTRUCTION PERSONNEL OR EQUIPMENT LEAVE THE BARRICADED WORK AREAS WITHOUT PRIOR COORDINATION WITH THE AIRPORT. ANY WORK REQUIRED BEYOND THE WORK AREAS MUST BE COMPLETED WITH THE PRESENCE OF THE OWNER.



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T EXISTING SERVICE 3HOULDER MARKING	
— GROUP 1 TAXILANE (TYP.)	
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BASIN TO BE PROTI SEALANT PROCESS (INCIDENTAL TO BA	ECTED DURING 3 NSE BID ITEM
P-608-8.1)	
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	AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
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<u>LEGEND</u>

PROPOSED PAVEMENT MARKING

2

FUELING AREA MARKING

NOTES:

- PAINTED IN THEIR EXISTING LOCATION.

- MARKINGS WITHOUT REFLECTIVE MEDIA.

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CITY OF SANFORD ADVERTISEMENT FOR BIDS AIRPORT FENCING

The City of Sanford, Maine is seeking sealed Proposals for installation of approximately 1,127 feet of airport security fencing along Gatehouse Road. One bid alternate is also requested in the proposal: removal of approximately 1,077' of existing airport security fencing.

Sealed bids, which meet the delivery format specified in the City's Request for Proposals (RFP), shall be received <u>at the Airport Manager's Office at 9 Presidential Lane, Sanford Maine 04073,</u> **by 10:00am on Thursday May 18, 2023,** at which time and place all proposals will be publicly opened and read aloud.

The RFP, Specifications, and Proposal Form may be obtained on the City of Sanford's Website > Business > Bid Opportunities:

https://www.sanfordmaine.org/business/bid_opportunities/index.php

City of Sanford Airport, Maine

April 19, 2023

CITY OF SANFORD REQUEST FOR PROPOSALS: INSTALL APPROX. 1,127 LF OF AIRPORT FENCING

INTRODUCTION

The City of Sanford, Maine (hereinafter, the "City", "Airport" or "Owner") is seeking sealed Proposals for installation of approximately 1,127 linear feet of airport security fencing along Gatehouse Road in Sanford, Maine. One additive alternate to remove approximately 1,077 linear feet of existing fence is included in the project as well. Proposers must submit one hard copy of its Proposal. All hard copies of the Proposal are to be submitted in a sealed envelope clearly marked on the outside "AIRPORT FENCING 2023".

Completed proposals must be received at the Airport Manager's Office at 9 Presidential Lane, Sanford Maine 04073, by 10:00am on Thursday May 18, 2023 and will be opened at that time and publicly read aloud. The Proposal must be signed by the Proposer with its full name and address and included in the sealed envelope. Any Proposal received after the deadline stated above shall not be considered.

Questions regarding this Request for Proposals should be directed to Joseph Ridley, Airport Maintenance Supervisor, in writing at the address above or by email at: jtridley@sanfordmaine.org with a Cc to <u>anavia@sanfordmaine.org</u>.

Addenda, if any, will be posted on the City website: <u>https://www.sanfordmaine.org</u> under Business> Bid Opportunities. Proposers shall acknowledge receipt of any Addenda in the space provided therefore in the Proposal Form, whether the Addenda are in response to questions or otherwise issued by the City. If no Addenda are issued, the number to enter on the proposal form is 0. Addenda will not be issued later than May 4, 2023.

Each Proposer is required to state in the Proposal:

1. its name, principals, mailing address, and telephone number;

2. the name, telephone number, and email address for its Contact Person;

3. a statement that no person acting for or employed by the City is directly or indirectly interested in the Proposal or any agreement which may be entered into to which the Proposal relates or in any portion of the profits herefrom.

II. PROPOSAL SUBMISSION REQUIREMENTS

The Proposal must include the following items: 1. Proposal Form.

DESCRIPTION

162-1.1 This item shall consist of furnishing and erecting a chain-link fence in accordance with these specifications.

MATERIALS

162-2.1 Fabric. The fabric shall be woven with a 9-gauge galvanized steel wire in a 2-inch (50 mm) mesh and shall conform to the requirements of ASTM A491.

162-2.2 Barbed wire. Barbed wire shall be 2-strand 12-1/2 gauge zinc-coated -**or-** aluminum-coated wire with 4-point barbs.

162-2.3 Posts, rails, and braces. Line posts, rails, and braces shall conform to the requirements of ASTM F1043 or ASTM F1083 as follows:

1. Galvanized tubular steel pipe shall conform to the requirements of Group IA, (Schedule 40) coatings conforming to Type A, or Group IC (High Strength Pipe), External coating Type B, and internal coating Type B or D.

CITY OF SANFORD

REQUEST FOR PROPOSALS: INSTALL APPROX. 1,127 LF OF AIRPORT FENCING

- 2. Roll Formed Steel Shapes (C-Sections) shall conform to the requirements of Group IIA, and be galvanized in accordance with the requirements of ASTM F1043, Type A.
- 3. Hot-Rolled Shapes (H Beams) shall meet the requirements of Group III, and be galvanized in accordance with the requirements of ASTM F1043, Type A.
- 4. Aluminum Pipe shall conform to the requirements of Group IB.

162-2.5 Wire ties and tension wires. Wire ties for use in conjunction with a given type of fabric shall be of the same material and coating weight identified with the fabric type. Tension wire shall be 7-gauge marcelled steel wire with the same coating as the fabric type and shall conform to ASTM A824.

162-2.6 Miscellaneous fittings and hardware. Miscellaneous steel fittings and hardware for use with zinc-coated steel fabric shall be of commercial grade steel or better quality, wrought or cast as appropriate to the article, and sufficient in strength to provide a balanced design when used in conjunction with fabric posts, and wires of the quality specified herein. All steel fittings and hardware shall be protected with a zinc coating applied in conformance with ASTM A153. Miscellaneous aluminum fittings for use with aluminum alloy fabric shall be wrought or cast aluminum alloy. Barbed wire support arms shall withstand a load of 250 pounds (113 kg) applied vertically to the outermost end of the arm.

162-2.7 Concrete. Concrete shall have a minimum 28-day compressive strength of 3000 psi (2670 kPa). **162-2.8 Marking.** Each roll of fabric shall carry a tag showing the kind of base metal (steel, aluminum, or aluminum alloy number), kind of coating, the gauge of the wire, the length of fencing in the roll, and the name of the manufacturer. Posts, wire, and other fittings shall be identified as to manufacturer, kind of base metal (steel, aluminum, or aluminum alloy number), and kind of coating.

CONSTRUCTION METHODS

162-3.1 General. The fence shall be constructed as specified here using new materials. All work shall be performed in a workmanlike manner satisfactory to the Airport. Airport personnel shall establish and mark the property line or fence line for the work. The new fence shall be permanently tied to the terminals of existing fences.

The Contractor shall arrange the work so that construction of the new fence will immediately follow the removal of existing fences. The length of unfenced section at any time shall not exceed 300 feet (90 m). The work shall progress in this manner and at the close of the working day the newly constructed fence shall be tied to the existing fence.

162-3.2 Clearing fence line. Clearing shall consist of the removal of all stumps, brush, rocks, trees, or other obstructions that will interfere with proper construction of the fence. Stumps within the cleared area of the fence shall be grubbed or excavated. The bottom of the fence shall be placed a uniform distance above ground, but never greater than 4 inches above grade. All holes remaining after post and stump removal shall be refilled with suitable soil, gravel, or other suitable material and compacted with tampers. The cost of removing and disposing of the material shall not constitute a pay item and shall be considered incidental to fence construction.

162-3.3 Installing posts. Posts should be spaced not more than 10 feet (3 m) apart and should be set a minimum of 36 inches in concrete footings. The posts holes shall be in proper alignment so that there is a minimum of 3 inches (75 mm) of concrete on all sides of the posts.

The concrete shall be thoroughly compacted around the posts by tamping or vibrating and shall have a smooth finish slightly higher than the ground and sloped to drain away from the posts. All posts shall be set plumb and to the required grade and alignment.

In lieu of drilling, the rock may be excavated to the required footing depth. No extra compensation shall be made for rock excavation.

162-3.4 Installing top rails. The top rail shall be continuous and shall pass through the post tops. The coupling used to join the top rail lengths shall allow for expansion.

162-3.5 Installing braces. Horizontal brace rails, with diagonal truss rods and turnbuckles, shall be installed at all terminal posts.

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162-3.6 Installing fabric. The wire fabric shall be firmly attached to the posts. All wire shall be stretched taut and shall be installed to the required elevations. The fence shall generally follow the contour of the ground, with the bottom of the fence fabric no less than one inch (25 mm) or more than 4 inches from the ground surface. Grading shall be performed where necessary to provide a neat appearance.

At locations of small natural swales or drainage ditches and where it is not practical to have the fence conform to the general contour of the ground surface, longer posts may be used and multiple strands of barbed wire stretched to span the opening below the fence. The vertical clearance between strands of barbed wire shall be 6 inches (150 mm) or less.

162-3.7 Electrical grounds. Electrical grounds shall be constructed at 500 feet (150 m) intervals. The ground shall be accomplished with a copper clad rod 8 feet (2.4 m) long and a minimum of 5/8 inches (16 mm) in diameter driven vertically until the top is 6 inches (150 mm) below the ground surface. A No. 6 solid copper conductor shall be clamped to the rod and to the fence in such a manner that each element of the fence is grounded. Installation of ground rods shall not constitute a pay item and shall be considered incidental to fence construction.

162-3.8 Cleaning up. The Contractor shall remove from the vicinity of the completed work all tools, buildings, equipment, etc., used during construction.

162-3.9 Additive Alternate, Existing Fence Removal. Approximately 1,077 linear feet of existing fence, posts, braces, top rails, barbed wire and other existing materials to be removed will be marked by Airport Personnel. All removed components will be stockpiled in an area adjacent to the project area as shown on the Plan included in these Specifications. The Contractor is responsible for the uninstallation of the existing fence, filling and compacting of holes, and stockpiling of the fencing and components. Airport Personnel will be responsible for the disposal of the removed fencing and components.

METHOD OF MEASUREMENT

162-4.1 Chain-link fence will be measured for payment by the linear foot (meter) for both installation (base bid) and removal (additive alternate 1). Measurement will be along the top of the fence from center to center of end posts.

BASIS OF PAYMENT

162-5.1 Payment for chain-link fence will be made at the contract unit price per linear foot (LF). The price shall be full compensation for furnishing all materials, and for all preparation, erection, and installation of these materials, and for all labor equipment, tools, and incidentals necessary to complete the item.

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

Federal Aviation Advisory Circular 150-5370-10H Standard Specifications for Construction of Airports, Item F-162

ASTM International (ASTM)

ASTM A121 Standard Specification for Metallic-Coated Carbon Steel Barbed Wire

ASTM A153 Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware

ASTM A392 Standard Specification for Zinc-Coated Steel Chain-Link Fence Fabric

ASTM A491 Standard Specification for Aluminum-Coated Steel Chain-Link Fence Fabric

ASTM A824 Standard Specification for Metallic-Coated Steel Marcelled Tension Wire for Use with Chain Link Fence

ASTM B117 Standard Practice for Operating Salt Spray (Fog) Apparatus

ASTM F668 Standard Specification for Polyvinyl Chloride (PVC), Polyolefin and other Organic Polymer Coated Steel Chain-Link Fence Fabric

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ASTM F1043 Standard Specification for Strength and Protective Coatings on Steel Industrial Fence Framework

ASTM F1083 Standard Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures

ASTM F1183 Standard Specification for Aluminum Alloy Chain Link Fence Fabric

ASTM F1345 Standard Specification for Zinc 5% Aluminum-Mischmetal Alloy Coated Steel Chain-Link Fence Fabric

ASTM G152 Standard Practice for Operating Open Flame Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials

ASTM G153 Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials

ASTM G154 Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials

ASTM G155 Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Nonmetallic Materials

Federal Specifications (FED SPEC)

FED SPEC RR-F-191/3 Fencing, Wire and Post, Metal (Chain-Link Fence Posts, Top Rails and Braces) FED SPEC RR-F-191/4 Fencing, Wire and Post, Metal (Chain-Link Fence Accessories)

ACCEPTANCE/REJECTION

The City reserves the right to waive any informalities in Proposals, to accept any Proposal, and to reject any or all Proposals, should it be deemed in the best interest of the City to do so.

Proposals may be held by the City for a period not to exceed thirty (30) days from the date of the opening of Proposals for the purpose of reviewing proposals to the award of a contract. Please note the City of Sanford is a tax exempt municipality in the State of Maine.

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PLAN



END OF SPECIFICATIONS



Do you know a child, ages 12 – 16, who is interested in aviation? Please share this information!

Aviation Day Camp: Maine ACE Camp Seacoast this August right here at SFM. More information can be found at <u>www.maineacecamp.org</u>

א עואד ↔

Maine ACE Camp Seacoast a day camp in which campers are introduced to many different fun aspects of aviation, both military and civilian. They learn through classroom instruction, hands on activities, and many field trips. Weather permitting; campers will get to fly in at least one general aviation airplane during the week.

→ WHERE

Sanford Seacoast Regional Airport

→ WHO

Campers ages 12-16 interested in all things aviation!

→ WHEN

Wednesday, August 9 - August 12, 2023 7:30am - 6:00pm daily

→ COST

\$500; scholarships available!

Pre-printed registration forms, scholarship forms, and pre-addressed envelopes are available any time of day in the vestibule at the Airport Maintenance and Administration Building at 9 Presidential Lane. Stop by and pick one up!

Don't know a potential camper but want to help? Your donation to benefit Maine ACE Camp (a qualified 501(c)(3) organization) helps with the scholarship program and the future of aviation as we work to get kids involved.

Contact Darcy LeSiege, <u>darcy.lesiege@gmail.com</u>, 207-620-0139.