

BVY AIRPORT MASTER PLAN

Town of Danvers Community Meeting

April 27, 2021





MEETING OBJECTIVES

Today we will leave with:

- As awareness of the public comments received to-date
- An understanding of steps undertaken by the Airport regarding noise issues
- Knowledge of the updated noise study and findings
- A review of the implementation elements of the Master Plan
- An awareness of next steps
- An understanding of comments, questions, concerns

VIRTUAL MEETING

- There will be a presentation with <u>3</u> intermittent Q&A sessions during the presentation <u>for clarifying</u> <u>questions</u>
- There will be a general Q&A and open comment session at the conclusion of the presentation
- The meeting will be recorded and posted to the project website
- Please mute your microphone when you are not speaking
- Please use the "Raise Your Hand" function at the bottom of the screen if you wish to speak during the Q&A sessions
- Please don't use the Chat for public comment
- We appreciate everyone's patience!

WE HEARD FROM CITIZENS!

- We appreciate all the comments and input that we have received to-date
- We heard from 54 citizens and the Danvers Board of Selectmen
- The project communication log includes comments heard during our community meetings in January and comments we received via email
- The communication log will be published tomorrow at <u>www.beverlyairport.com</u> (see the Master Plan tab)
- We have removed names and addresses for privacy purposes

PUBLIC COMMENT - THEMES

COMMUNITY COMMUNICATION

- Request for advance notification of anticipated events
- Request for routine communication to all surrounding communities about airport activities

ECONOMIC BENEFIT/PROPERTY VALUES

- Lack of economic benefit to all the communities
- Lack of economic benefit to communities other than Beverly
- Concern about property valuations decreasing due to airport activities

PUBLIC COMMENTS - THEMES

NOISE

- Overwhelming number of comments pertained to existing noise issues
- Additional comments expressed concern of increased noise related to proposed runway extension

SAFETY

- Concern of jet fuel odors
- Concerns regarding aircraft accidents
- Impact of LED lighting

AIRPORT ACTIONS - NOISE

- Formation of Airport Commission Noise Subcommittee
 - Routine review of complaints
 - Meet with airport operators
 - Provide updated voluntary noise abatement procedures for locally based pilots and transient pilots
 - Provide routine update at Airport Commission meetings
 - Enhance internal process for reviewing noise complaints
 - Requested municipalities to designate participants
- Significantly enhanced noise and safety webpage:
 - Voluntary Noise Abatement Procedures
 - FAA Noise Guidance link, FAA Noise Basics link and other resource links
 - FAA Noise Ombudsman contact information
 - <u>Airport Noise and Safety Information | Beverly Regional Airport</u> (beverlyairport.com)
- Ongoing discussions with FAA Air Traffic Control Tower, Flight Schools, and major operators
- Review of 2020 operation increase was likely related to the 3-month closure of all flight schools resulting in a pent-up training demand during a flight compressed season

AVIER FLIGHT SCHOOL

Newly introduced Good Neighbor Policy

- We encourage full length departures, at BVY which maximizes elevation when crossing the airport boundary.
- Patterns are flown at reduced RPM (within operational limits) once pattern altitude is achieved.
- Departures from the area will maintain Vy for as long as operationally feasible, to at least 2,000 feet.
- Touch and Go landings are only used rarely at our school. We favor full stop landings with taxi back for quality of training; but the additional benefit is that we are not departing from mid-field.
- We have implemented a curriculum that favors cross country scenariobased training which, in addition to the educational benefit, also serves to dilute our local operations.
- We have begun development of a carbon reduction initiative that is resulting in education of our clients in the area of reduced power settings and improved fuel leaning procedures. This reduction in power also results in a reduction of sound.

OTHER AIRPORT ACTIONS

- The Airport will continue to communicate operational issues to the FAA Air Traffic Control Tower
- The Airport will continue to meet all federal and state safety requirements
- The Airport's will ensure that the future airfield LED lighting project matches the existing airfield lighting brightness
- The Airport will work with Commission representatives to ensure routine communications with elected officials and municipalities
- The Airport will continue to post activities on their website and Facebook page and will develop a semi-annual community newsletter about airport activities
- The Airport will explore establishing a communication system to advise citizens of airport events
- The Airport has posted MassDOT Aeronautics Economic Impact Study to the airport's website for further information

CLARIFYING QUESTIONS - SESSION #1



- Please use the "Raise Your Hand" function at the bottom of the screen when you want to speak
- We will be keeping track of individuals who want to speak and will let you know when it is your turn
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NOISE STUDY



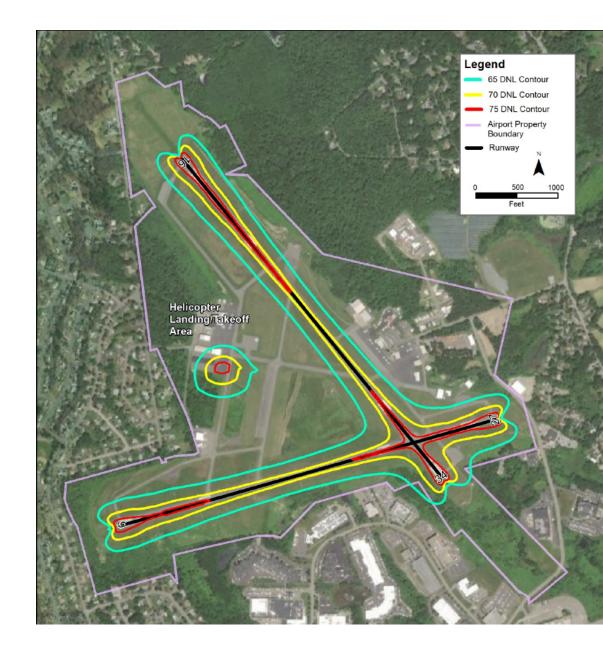
Photo Credit: gbouillon

FAA LAND USE COMPATIBILITY GUIDELINES Table 1-Land Use Compatibility*

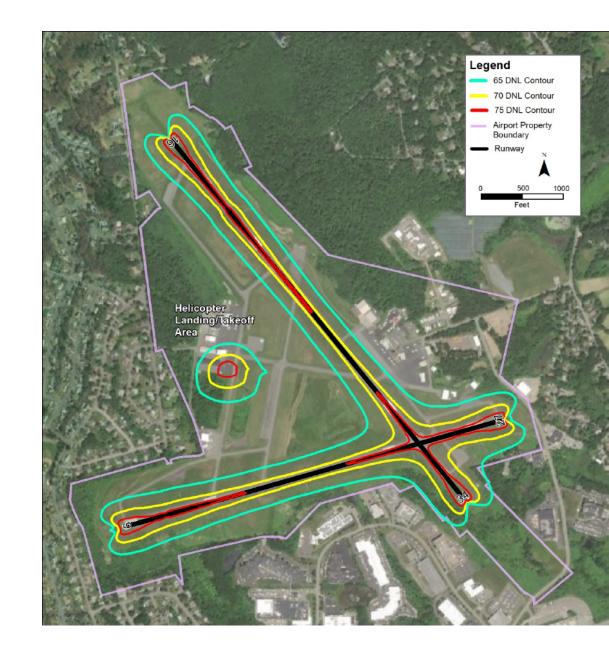
- FAA guidance identifies uses within designated noise contours based on Yearly Day-Night Levels (DNL) decibels
 - The FAA methodology annualizes single noise events
- Identified land uses include:
 - Residential
 - Public Use (schools, churches, etc.)
 - Commercial Use
 - Manufacturing and Production
 - Recreational
- In most instances, residential in areas of 65 DNL and up should be prohibited
- Residential uses in areas below 65 DNL are compatible
- The complete noise study will be posted at <u>www.beverlyairport.com</u> (see Master Plan tab)

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| Amusements, parks, resorts and camps Y Y Y N N | Nature exhibits and zoos | Y | Y | N | N | N | Ν |
| | Amusements, parks, resorts and camps | Y | Y | Y | N | N | Ν |
| Golf courses, riding stables and water Y Y 25 30 N recreation | | Y | Y | 25 | 30 | Ν | Ν |

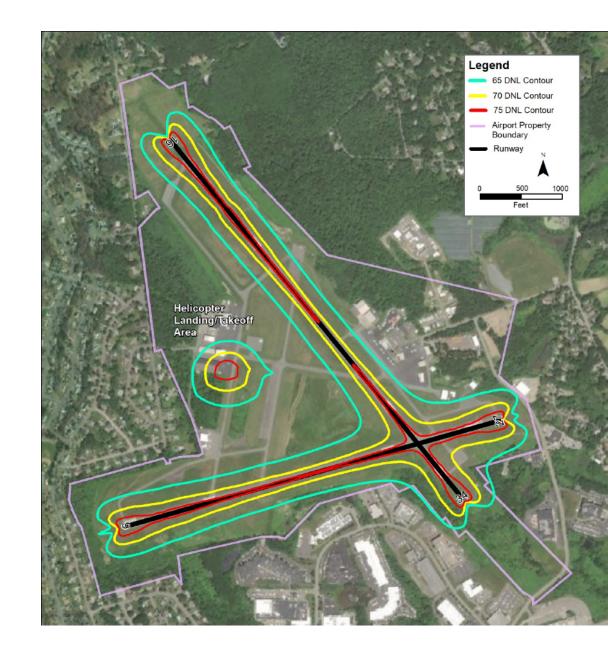
2019 DNL CONTOUR Existing Airfield



2029 DNL CONTOUR Includes Runway 16/34 Extension



2039 DNL CONTOUR Includes Runway 16/34 Extension



CLARIFYING QUESTIONS - SESSION #2



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- Please mute your microphone when you are not speaking

MASTER PLAN PROCESS



Photo Credit: gbouillon

WHY DO WE MASTER PLAN AIRPORTS?

The Master Plan is a **20-year plan** to understand the needs of current and future users of the airport. It is important to ensure:

- safe and orderly development
- reflective of the community's values and goals
- through a purposeful, inclusive, and educational process

The Plan must be based on current conditions, community input, and forecasts

• The Master Plan process cannot have a pre-determined outcome



| AIRPORT MASTER PLAN | | 20 |)19 | | | | | | | 20 | 20 | | | | | | | | 20 | 21 | | |
|----------------------------------|---|----|-----|---|---|---|---|---|---|----|----|---|---|---|---|---|-----------|---|----|----|---|---|
| PROJECT SCHEDULE | S | 0 | N | D | J | F | М | А | М | J | J | А | S | 0 | Ν | D | J | F | М | А | М | J |
| STUDY DESIGN | | | | | | | | | | | | | | | | | | | | | | |
| PUBLIC ENGAGEMENT | | | | | | | | | | | | | | | | | | | | | | |
| PMT MEETINGS | | | | | ٠ | | | | | | | | | ٠ | | | | | | | | |
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| AIRPORT COMMISSION MEETINGS | | | | | |) | | | | | | | | | | | ightarrow | | | • | | |
| COMMUNITY MEETINGS | | | | | | | | | | | | | | | | | 0 | | | • | | |
| INVENTORY OF EXISTING CONDITIONS | | | | | | | 1 | | | | | | | | | | | | | | | |
| AVIATION ACTIVITY FORECASTS | | | | | | | 1 | | | | | | | | | | | | | | | |
| FACILITY REQUIREMENTS | | | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT ALTS & REC PLAN | | | | | | | | | | | | | | | | | 1 | | | | | |
| AIRPORT LAYOUT PLAN (ALP) | | | | | 1 | | | | | | | | _ | | | | _ | _ | | | | |
| PROGRAM IMPLEMENTATION PLAN | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT DOCUMENTATION | | | | | | | | _ | | | | | _ | | | | | | | | _ | |
| PROJECT MGMT/CONTRACT ADMIN | | | | | | | | | | | | | | | | | | | | | | |

IMPLEMENTATION PLAN



Photo Credit: gbouillon

CONSIDERATIONS FOR RECOMMENDATIONS

• Goals

- Meet FAA/MassDOT airport design safety standards which are based on upon the weight, size and frequency of aircraft that typically use BVY
- Support or enhance BVY's existing operational safety and efficiency
- Address needs of aircraft operators and tenants
- Maximize airport business development opportunities
- Minimize impacts to neighbors and environment



| Forecast | 2019* | 2020** | 2024 | 2029 | 2039 |
|------------------------|--------|--------|--------|------------|------------------------|
| Based Aircraft | 100 | 105 | 106 | 112 | 125 |
| Aircraft Operations | 66,949 | 69,117 | 70,765 | 74,800 | 83,571 |
| | | | * | Forecast I | Base Year ** Actual |

AVIATION DEMAND FORECASTS

At BVY, B-II remains the current airport reference code represented by the Cessna Citation Latitude

PROPOSED AIRPORT PROJECTS

| Кеу | Key Points |
|--|--|
| Increased RWY 16-34 Length for Departures | Enhances aircraft operational safety factors Promotes effectiveness and benefits of newer GA aircraft |
| Narrowing width for RWY 9-27 | Reduce pavement width per FAA design standards |
| Taxiway Realignments | Increases operational safety and efficiency for aircraft |
| Impervious Surfaces (Includes Vehicle Service Road) | Existing airfield pavement to be removed: 701,835 s.f. Future airfield pavement to be added: 782,533 s.f. |
| Landside Development | Maximizes financial sustainability for BVY and development potential for area businesses Constructed only if and when demand occurs |
| Vehicle Service Road | Enhanced operational safety and security as well as increased efficiency Utilization of recycled mill material from runway project |
| Environmental | Wetlands: Minimal impacts Noise: No significant change anticipated; study underway Lighting: Progressive upgrade to LEDs (incl. RWs & TWs) Waste: Recycling/reuse program |

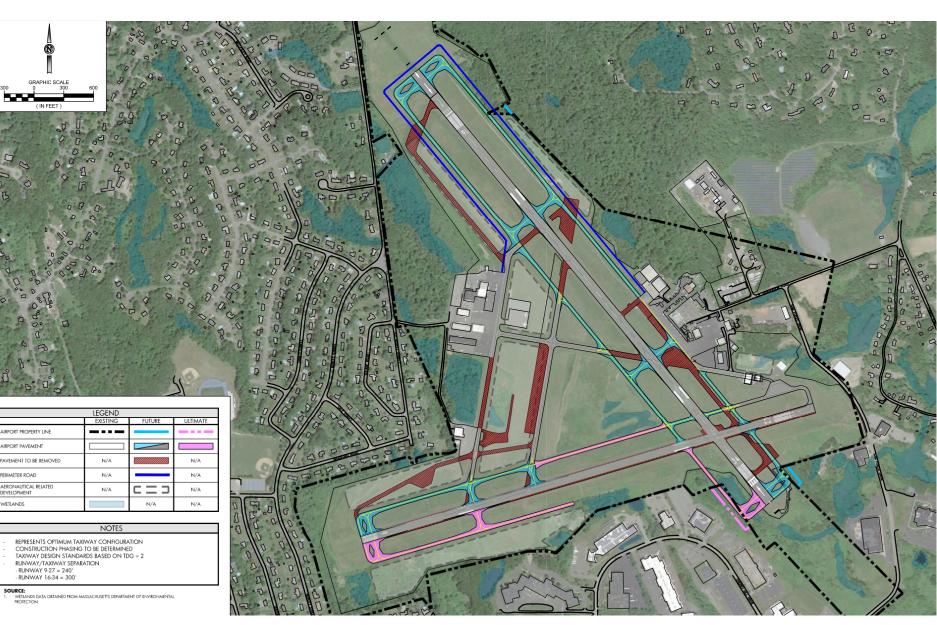
Recommended Plan

| CRAPHIC SCALE 250 250 500 (IN FEET) | | ROFA(F) | NCFAIP RCFAIP |
|---|---|---|--|
| LEC AIRPORT PROPERTY LINE AIRPORT PAVEMENT * RUNWAY OBJECT FREE AREA (ROA) 1 - MILE VISIBILITY APPROACH RUNWAY PROTECTION ZONE (RPZ) 1 - MILE VISIBILITY DEPARTURE RUNWAY PROTECTION ZONE (RPZ) | 300' 300' | NOTES MAINTAINS EXISTING RUNWAY, BUT PAVES RSAS (300') ON BOTH ENDS USABLE FOR DEPARTURE ONLY. EXISTING/FUTURE RUNWAY CONDITIONS BASED DAY. RDC P EII WITH A 1-MULE VISIBILTY POFA WIDTH = 500' RSA WIDTH = 150' RSA WIDTH = 150' RZ DIMENSIONS = 500' X 700' X 1000' EXISTING/FUTURE RSA/ROFA MEET STANDAPDS | Price of the second s |
| WETLANDS 2-FOOT CONTOURS | SAME SAME | RESIDENCE). PER FAA INTERIM GUIDANCE, CONDITIONS ARE CURRENTLY ACCEPTABLE. RUNWAY WIDTH = 100' (BASED ON ULTIMATE RDC OF C-II) | Supported by FAA and MassDOT with accompanying grant offers |

Recommended Plan

| | | | NUNWAY = LENGH 4,75° CHARACTER CONTRACTOR C |
|---|---------|----------------|--|
| AIRPORT PROPERTY LINE | | FUTURE SAME | REPRESENTS EXISTING CONDITIONS EXISTING/FUTURE RUNWAY CONDITIONS |
| AIRPORT PAVEMENT | | N/A | BASED ON RDC OF B-II WITH A 1-MILE VISIBILITY. |
| PAVEMENT TO BE REMOVED | N/A | | - RUNWAY WIDTH = 75' - ROFA WIDTH = 500' - RSA WIDTH = 150' |
| RUNWAY SAFETY AREA (RSA) | RSA(E) | N/A | RPZ DIMENSIONS = 500' X 700' X 1000' EXISTING/FUTURE RSA/ROFA MEET |
| RUNWAY OBJECT FREE AREA (ROFA) | ROFA(E) | N/A | STANDARDS NOTE THAT ROFA OVERRIDES SAM NOTE THAT ROFA |
| 1 - MILE VISIBILITY APPROACH RUNWAY PROTECTION ZONE (RPZ) | C = = 0 | N/A | TONZO ROAD, HOWEVER, ELEVATION |
| 1 - MILE VISIBILITY DEPARTURE RUNWAY PROTECTION ZONE (RPZ) | C==3 | N/A | APPROXIMATELY 18: OF CLEARANCE KUNWAY MAINTAINS EXISTING LENgth Of 4,755 |
| WETLANDS | | SAME | BEIWEEDINE ROAD THE ROAD AND THE ROAD (WHERE IS IS REQUIRED). EXISTING/FUTURE RPZS HAVE SOME RUNWAY width is reduced to 75' in conformance with FAA |
| 2-FOOT CONTOURS | | SAME | NONCOMPLIANT CONDITIONS (E.G., ROAD, RESIDENCE). PER FAA INTERIM GUIDANCE, CONDITIONS ACCEPTABLE |
| | | | CONDITIONS ARE CURRENTLY ACCEPTABLE. |





IMPLEMENTATION PLAN

- Identifies phased plan for implementation of recommended projects over a 20-year period
 - Phase I first 5 years
 - Phase II second 5 years
 - Phase III last 10 years
- Identifies potential funding sources for projects
 - \circ Federal FAA
 - State MassDOT
 - Local Airport

OVERALL FINANCIAL REVIEW

- Reviewed key Airport documents
- Interviewed Airport management
- Analyzed historical and current operating revenues and expenses
- Reviewed Capital Improvement Plan (CIP), cost opinions, and development schedule
- Analyzed sources and timing of capital funding
- Reviewed rates and charges
- Provided revenue enhancement recommendations

FAA AIRPORT IMPROVEMENT PROGRAM (AIP) FUNDING

- The FAA generally provides 90% funding of AIP eligible projects
- Revenue for the AIP is the Airport and Airway Trust Fund (AATF)
- The AATF collects its revenue from the following sources:

| Domestic passenger ticket tax | Domestic commercial fuel tax |
|--|---|
| Domestic flight segment tax (excluding flights to/from rural airports) | Domestic general aviation gasoline tax |
| Tax on flight between continental United States and Alaska or Hawaii | Domestic general aviation jet fuel tax |
| International arrival/departure tax | Tax on domestic cargo or mail |
| Frequent flyer tax | |

MASSDOT AERONAUTICS FUNDING

- MassDOT typically provides 5% matching grants for AIP eligible projects
- MassDOT also provided funding for non-eligible AIP projects through the Airport Safety and Maintenance Program (ASMP)
- MassDOT funding is from the following sources:

| Aircraft registration fees | Aviation gasoline tax |
|---|------------------------------|
| Fees for air transportation charged to other state agencies | Biennial Transportation Bond |

BVY FUNDING

- Beverly Regional Airport provides 5% of funding for AIP eligible projects
- Non-eligible AIP projects are funded through additional MassDOT funding or airport revenues
- The airport is an enterprise fund and receives no funding from the City of Beverly or any other municipality
- BVY collects its revenue from the following sources:

| Fuel flowage fees | Landing fees |
|-------------------|---------------------------------------|
| Land leases | Aircraft tie-down and other user fees |

PHASE I: 2021-2025

| CIP | | PRIMARY FUNDING | ESTIMATED | FUNDING SOURCES | | | | |
|-----------|---|--------------------|-------------------|-----------------|-----------|-------------|-------------------|--|
| CIP ID | PROJECT | FUNDING SOURCE | CAPITAL COSTS* | FEDERAL | STATE | LOCAL | OTHER/ PRIVATE | |
| А | Update SWPPP & SPCC | FAA | \$75,000 | \$67,500 | \$3,750 | \$3,750 | \$0 | |
| В | Preliminary Design/EA/ENF/Permitting for Reconstruction of RW 16-34 (Ph 1) | FAA | \$144,200 | \$129,780 | \$7,210 | \$7,210 | \$0 | |
| С | Construct Hangar Building(s)/Apron | Other | \$1,000,000 | \$0 | \$0 | \$0 | \$1,000,000 | |
| D | EA/ENF/Permitting for Reconstruction of RW 16-34 (Ph 2) | FAA | \$341,555 | \$307,400 | \$17,077 | \$17,078 | \$0 | |
| E | Design, Reconstruct, Mark, Light, Groove, and Pave RSAs for RW 16-34 | FAA | \$16,350,000 | \$14,715,000 | \$817,500 | \$817,500 | \$0 | |
| F | Construct Hangar Building(s)/Apron | Other | \$1,000,000 | \$0 | \$0 | \$0 | \$1,000,000 | |
| G | Purchase Front End Loader | State | \$672,000 | \$0 | \$537,600 | \$134,400 | \$0 | |
| | PHASE I PROGRAM TOTALS | \$19,582,755 | \$15,219,680 | \$1,383,137 | \$979,938 | \$2,000,000 | | |

PHASE II: 2026-2030

| CIP | | PRIMARY FUNDING | ESTIMATED | FUNDING SOURCES | | | | | |
|-----------|--|--------------------|-------------------|-----------------|-----------|-----------|-------------------|--|--|
| CIP ID | PROJECT | | CAPITAL COSTS* | FEDERAL | STATE | LOCAL | OTHER/ PRIVATE | | |
| Н | Preliminary Design/EA/ENF/Permitting for TW E Extension, TW B Relocation, & Perimeter Road | FAA | \$575,000 | \$517,500 | \$28,750 | \$28,750 | \$0 | | |
| I. | Construct Hangar Building(s)/Apron | Other | \$1,000,000 | \$0 | \$0 | \$0 | \$1,000,000 | | |
| J | Extend TW E (North) & Construct Perimeter Road (Ph 1) | FAA | \$7,375,000 | \$6,637,500 | \$368,750 | \$368,750 | \$0 | | |
| К | Construct Hangar Building(s)/Apron | Other | \$1,000,000 | \$0 | \$0 | \$0 | \$1,000,000 | | |
| L | Relocate TW B & Construct Perimeter Road (Ph 2) | FAA | \$9,610,000 | \$8,649,000 | \$480,500 | \$480,500 | \$0 | | |
| М | Airport Master Plan | FAA | \$508,000 | \$457,200 | \$25,400 | \$25,400 | \$0 | | |
| Ν | Construct Hangar Building(s)/Apron | Other | \$1,000,000 | \$0 | \$0 | \$0 | \$1,000,000 | | |
| | PHASE II PROGRAM TOTALS | | \$21,068,000 | \$16,261,200 | \$903,400 | \$903,400 | \$3,000,000 | | |

PHASE III: 2031-2040

| | | Primary Funding | Estimatod | | Funding | Sources | |
|--------|--|-----------------|-----------------------------|--------------|--------------------|--------------------|-------------------|
| CIP ID | Project | Source | Estimated Capital Costs* | Federal | State | Local | Other/ Private |
| 0 | Preliminary Design/EA/ENF/Permitting for TW E Extension & Reconstruct RW 9-27 | FAA | \$520,000 | \$468,000 | \$26,000 | \$26,000 | \$0 |
| Р | Extend TW E - South | FAA | \$4,655,000 | \$4,189,500 | \$232,750 | \$232,750 | \$0 |
| Q | Construct Hangar Building(s)/Apron | Other | \$1,000,000 | \$0 | \$0 | \$0 | \$1,000,000 |
| R | Reconstruct RW 9-27 | FAA | \$11,120,000 | \$10,008,000 | \$556,000 | \$556,000 | \$0 |
| S | Construct Hangar Building(s)/Apron | Other | \$1,000,000 | \$0 | \$0 | \$0 | \$1,000,000 |
| т | Preliminary Design/EA/ENF/Permitting for TW D | FAA | \$740,000 | \$450,000 | \$37,000 | \$253,000 | \$0 |
| | Relocation & Construct TW J | | | | | | |
| U | Relocate TW D | FAA | \$6,191,000 | \$5,571,900 | \$309 <i>,</i> 550 | \$309 <i>,</i> 550 | \$0 |
| V | Construct Hangar Building(s)/Apron | Other | \$1,000,000 | \$0 | \$0 | \$0 | \$1,000,000 |
| W | Construct TW J | FAA | \$5,495,000 | \$4,945,500 | \$274,750 | \$274,750 | \$0 |
| х | Construct Hangar Building(s)/Apron | Other | \$1,000,000 | \$0 | \$0 | \$0 | \$1,000,000 |
| | PHASE III PROGRAM TOTALS | | \$32,721,000 | \$25,632,900 | \$1,463,050 | \$1,652,050 | \$4,000,000 |

CLARIFYING QUESTIONS - SESSION #3



- Please use the "Raise Your Hand" function at the bottom of the screen when you want to speak
- We will be keeping track of individuals who want to speak and will let you know when it is your turn
- Please don't use the Chat for public comment
- Please mute your microphone when you are not speaking

NEXT STEPS



Photo Credit: gbouillon



NEXT STEPS

- Presentation and draft implementation chapter will be available tomorrow online at <u>www.beverlyairport.com</u> (see Master Plan tab)
- Virtual Community Meetings 6-8pm: Danvers (4/27), Wenham (4/28), and Beverly (4/29) – see website for meeting links
- Review and comment by FAA of Airport Layout Plan (ALP)
- Production of Final Report
- Presentation of Master Plan to Airport Commission for consideration of approval and adoption

Please submit comments by *May 28, 2021*

Email: jim.miklas@woolpert.com

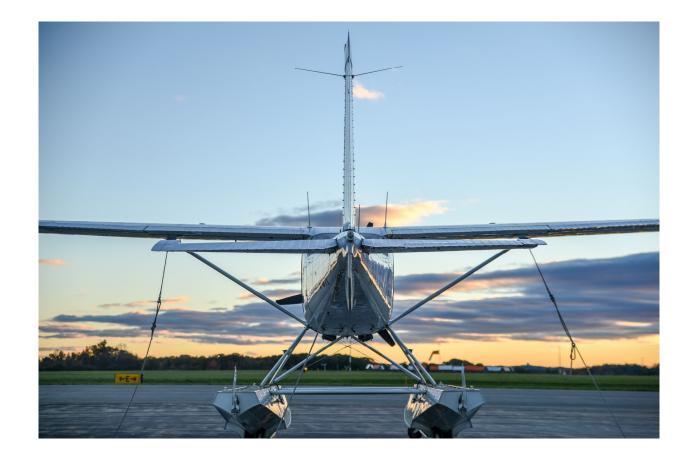
Mail: Beverly Regional Airport Administration, 50 L.P. Henderson Road, Beverly, MA 01915

QUESTION & ANSWER SESSION



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Thank You!

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