

**MPA #A460**  
**Digital Building Data Capture**  
**Consultant Briefing**

03.29.24



# MPA#A460 Digital Building Data Capture Consultant Briefing

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## Introduction

- Please enter your contact information in the Zoom Meeting chat window:
  - First and Last Name
  - Company
  - Email

# MPA#A460 Digital Building Data Capture Consultant Briefing

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## BUSINESS

### Capital Bids

Massport has introduced online bidding

All new bids for C.149 and C.30 projects Consultant Professional Services can be found on the [Massport Bid Express website](#). The construction projects listed below under Advertised Contracts that are C.149 or C.30 have already been advertised. No hard copies of the bidding information, Proposal, Plans and Specifications, Addenda, or other material is available. Nor will Massport accept hard copy bids for these projects. Bidding on these projects is completely online.

All bidders need to be registered with Bid Express to submit or respond to Bids. Please refer to the new [Bid Express New Vendor Instructions](#).

[BID EXPRESS NEW VENDOR INSTRUCTIONS](#)

#### Advertised Contracts

Select An Opportunity Type

PROJECT #	OPPORTUNITY TYPE	PROJECT TITLE	DUE DATE	ESTIMATE
M707-C2 General Bid Express	Construction 149/30	VARIABLE MESSAGING SIGN, WORLD TRADE CENTER AVENUE AND SUMMER STREET, SOUTH BOSTON, MASSACHUSETTS	01/10/2024	\$805,000
W297-C1 General Bid Express	Construction 149/30	W297-C1, WORCESTER AIRPORT SECURITY CHECKPOINT IMPROVEMENTS, WORCESTER REGIONAL AIRPORT, WORCESTER, MASSACHUSETTS	01/10/2024	\$2,050,000

- Massport has introduced online bidding for all C.149, C.149a and C.30 projects
- Consultant Professional Services RFQs for Projects Advertised after May 10, 2023 will be submitted through online bidding (BidExpress).
- No hard copies of the bidding information, Proposal, Plans and Specifications, Addenda, or other material is available. Nor will Massport accept hard copy bids for these projects. Bidding on these projects is completely online.
- [Online Bidding Project Information](#)
- All new bids for C.149, C.149a and C.30 projects and Consultant Professional Services can be found on Bid Express  
<https://www.bidexpress.com/>

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BUSINESS  
Capital Bids

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[BID EXPRESS NEW VENDOR INSTRUCTIONS](#)

Advertised Contracts

Select An Opportunity Type

PROJECT #	OPPORTUNITY TYPE	PROJECT TITLE	DUE DATE	ESTIMATE
W07-C2 General Bid Express	Construction 14930	VARIABLE MESSAGING SIGN, WORLD TRADE CENTER AVENUE AND SUMMER STREET, SOUTH BOSTON, MASSACHUSETTS	01/10/2024	\$800,000
W07-C1 General Bid Express	Construction 14930	W07-C1 WORCESTER AIRPORT SECURITY CHECKPOINT IMPROVEMENTS, WORCESTER REGIONAL AIRPORT, WORCESTER, MASSACHUSETTS	01/10/2024	\$2,050,000
L1746	Professional Consultant	FIRE BOAT DOCK AND FERRY TERMINAL DOCK REHABILITATION AND ELECTRICAL UPGRADES	01/04/2024	\$1,000
L1746	Professional Consultant	FIRE BOAT DOCK AND FERRY TERMINAL DOCK REHABILITATION AND ELECTRICAL UPGRADES	01/04/2024	\$1,000
A450	Professional Consultant	AUTHORITY-WIDE ELEVATOR, ESCALATOR AND MOVING WALKWAY MODERNIZATION PROGRAM, BOSTON, BEDFORD AND WORCESTER, MASSACHUSETTS	12/21/2023	\$2,000,000
W07-C1 SUB Bid Express	Construction 14930	WORCESTER AIRPORT SECURITY CHECKPOINT IMPROVEMENTS, WORCESTER REGIONAL AIRPORT, WORCESTER, MASSACHUSETTS	12/20/2023	\$2,050,000
A430-C1 Bid Express	Construction 14930	PARKING FACILITIES, COURTYERS AND SIGNAGE, LOGAN AIRPORT EAST, BOSTON, MASSACHUSETTS	12/20/2023	\$4,100,000
W24	Professional Consultant	W24 BERTHS 10, 11 & 12 ENHANCEMENT AND RELATED LOW-PROFILE STS CRANE PROCUREMENT, CORLEY TERMINAL, 700 SUMMER STREET, SOUTH BOSTON, MASSACHUSETTS	12/14/2023	\$50,000,000
L1781	Professional Consultant	LOGAN HVAC REPLACEMENT PROGRAM, LOGAN INTERNATIONAL AIRPORT, BOSTON, MASSACHUSETTS	12/14/2023	\$5,000,000
W07-C2 SUB Bid Express	Construction 14930	VARIABLE MESSAGING SIGN, WORLD TRADE CENTER AVENUE AND SUMMER STREET, SOUTH BOSTON, MASSACHUSETTS	12/13/2023	\$138,000
L1886 Bid Express	Construction Manager At Risk	AIR TRAFFIC CONTROL TOWER (ATCT) IMPROVEMENTS, AT BOSTON LOGAN INTERNATIONAL AIRPORT	12/07/2023	\$30,000,000
L1833	Professional Consultant	CARGO THROUGHPUT FACILITY, BOSTON LOGAN INTERNATIONAL AIRPORT, EAST BOSTON, MASSACHUSETTS	12/07/2023	\$30,000,000
L1810-C1 Bid Express	Construction 14930	FR204-2027 SKILLED TRADES MAINTENANCE CONTRACT FOR CARGO BUILDING NOS. 26, 27, 28, 29, 30, 31, 32, AND 33, GREEN BUS DEPOT BUILDING 11, AND OFFICE BUILDING NOS. 7 & 11, LOGAN INTERNATIONAL AIRPORT, EAST BOSTON, MASSACHUSETTS 02128	12/06/2023	\$1,500,000

- The Professional Consultant RFQ's will be listed under the appropriate project # and Project title on the Massport website:  
<https://www.massport.com/massport/business/bids-opportunities/capital-bids/>
- Please submit qualification via Bid Express  
<https://www.bidexpress.com/>

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(GMT-05:00) Eastern Time (US & Canada)

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Password Confirmation  
Question  
Answer

If you forget your password we'll ask you to verify this.

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City  
Phone  
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State  
Address1  
Postal Code  
Address2

I have read and agreed to [Privacy Policy](#), [Terms of Use](#), and [DMCA Policy](#), and acknowledge that I understand how Infotech uses any personal information I supply to Infotech, and I approve of these uses.  No

Keep me updated on the latest Infotech new product releases and promotional offerings.  No

- All bidders need to be registered with Bid Express to submit or respond to Bids.

<https://www.infotechexpress.com/registration/new>

- Please refer to the new [Bid Express New Vendor Instructions](https://infotechinc.zendesk.com/hc/en-us/sections/12044610308375-Bid-Express-Vendors):  
<https://infotechinc.zendesk.com/hc/en-us/sections/12044610308375-Bid-Express-Vendors>

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RFQ listed below in Bid Express

The screenshot shows the Bid Express website interface. At the top, there is a navigation bar with 'Home', 'Our Solicitations', 'Public Solicitations', 'My Profile', 'Stats', and 'Contact Us'. Below this is a search bar and a 'Create Solicitation' button. A table lists various solicitations with columns for 'Solicitation', 'Status', and 'Due'. The first entry, 'A447 RFQ PROFESSIONAL SERVICES', is highlighted with a blue arrow pointing to it.

Solicitation	Status	Due
A447 RFQ PROFESSIONAL SERVICES Professional Consultant Services A447 TERM ROOF AND BUILDING EN...	Draft	06/22/2023
LP2301 LP2301 FY 24-27 PASSENGER BOARDING BRIDGES MAINTENANCE ...	Advertised	05/25/2023
AP2302-C1 (TERM) AP2302-C1 TERM INTERIOR BUILDING REPAIRS, BOSTON, BEDFOR...	Draft	05/24/2023
AP2305-C1 (TERM) AP2305-C1, TERM CAULKING/SEALANT REPAIRS, BOSTON, BEDFOR...	Advertised	05/03/2023
L1740-C1 (GENERAL) L1740-C1 (GENERAL) LOC CRAC UNIT REPLACEMENT, ONE HARBO...	Closed	04/26/2023
L1738-C1 L1738-C1 ENERGY OPTIMIZATION PROGRAM - LOGAN AIRSIDE CHA...	Closed	04/19/2023
L1740-C1 (SUB) L1740-C1 (SUB) LOC CRAC UNIT REPLACEMENT, ONE HARBORSIDE ...	Closed	04/12/2023
W308-C1 W308-C1 RUNWAY 11-29 REHABILITATION FROM STATION 48+20 TO ...	Closed	03/22/2023
L1709-C1 L1709-C1 2023 MISCELLANEOUS AIRFIELD PAVEMENT IMPROVEMEN...	Closed	03/22/2023
H288-C1 H288-C1 RUNWAY 5-23 (SOUTH OF RW 11-29) REHAB, LIGHTING AND...	Closed	03/08/2023
AP2209-C1 (TERM) AP2209-C1 FY2023-2026 TERM CONTRACT FOR ON-CALL AND EMER...	Closed	03/08/2023
MP2301-C1 (TERM) MP2301-C1 (TERM) MARITIME PAVEMENT REPAIRS - TERM CONTRA...	Closed	03/08/2023
AP2304-C1R-(TERM) AP2304-C1R TERM DOOR REPLACEMENT BOSTON, BEDFORD, AND ...	Closed	02/22/2023
L1645-C1	Closed	02/08/2023

Submit Qualifications under Required Document List

The screenshot shows the details for the 'A447 RFQ PROFESSIONAL SERVICES' solicitation. The page includes a navigation bar, a status indicator, and several informational cards. The main content area is divided into 'General Info' and 'Project Solicitation Documents'. A map of the location in Suffolk County, Massachusetts, is displayed below the general info section.

**General Info**

- Number: A447 RFQ PROFESSIONAL SERVICES
- Deadline: 06/22/2023 12:00 PM EDT
- Auto Advertise: 05/19/2023 09:00 AM EDT
- Description: Professional Consultant Services A447 TERM ROOF AND BUILDING ENVELOP ALL MASSPORT FACILITIES BOSTON-BEDFORD & WORCESTER MASSACHUSETTS MAY, 2023
- State: Massachusetts
- County: Suffolk

**Project Solicitation Documents**

Order	Name	Description
0	Attachments	



# MPA#A460 Digital Building Data Capture Consultant Briefing

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- Project Scope
  1. Project Outline
  2. Primary Tasks
  3. Secondary Tasks
  4. Expected Delivery
- Evaluation Criteria
- Submission Requirements

# MPA#A460 Digital Building Data Capture Consultant Briefing

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- Project Scope

1. Project Outline

The goal is to digitize the entire Massport portfolio by performing reality capture services, convert scan data to Revit Models, convert the Models to GIS and 2D CAD, and help establish a workflow for model and data maintenance.

# MPA#A460 Digital Building Data Capture Consultant Briefing

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- Project Scope

1. Primary Tasks

1. 360 photogrammetry
2. Interior Laser scanning (terrestrial and mobile/SLAM LIDAR)
3. LOD 200 geo-located Revit Modeling
4. Conversion from Revit to CAD within Massport's BIM and AutoCAD Standards.
5. Perform survey to tie in to existing Massport control and vertical benchmarks.
6. Conversion from Revit to ESRI GIS Indoors (both options 2D and 3D)
7. Collection of attribute data (such as Room Type, Room Description)
8. Catalogue of space/room assets within each building in the models.
9. Implement space identification tagging (using Massport room numbering standards)
10. Calculate and collect building Volume data.
11. Implementation of the Massport room numbering standard Authoritywide to the Revit Models, 2D CAD and GIS data.
12. Perform collection and processing of geospatial data.
13. Perform migration of BIM data to GIS.

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- Project Scope
  1. Primary Tasks (Continued)
    14. Deliverables will be in compliance with Massport BIM, GIS, and CAD Standards.
    15. Ability to obtain SIDA Badges for each person.
    16. Develop a standard workflow process to keep the data current.
    17. Collect/Create Column and Grid Line data.
    18. Point Cloud data geolocated with survey control points.
    19. All work should be done within the United States (No outsourcing of any work outside the United States)
    20. Exterior Laser Scanning (terrestrial and mobile/SLAM LIDAR)

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- Project Scope
  1. Secondary Tasks
    1. Drone Flight
    2. Creation of Reality Mesh
  
  1. Expected Delivery
    1. Point Cloud Geo-located with Survey Control Points
    2. LOD 200 Geo-located Revit Model
    3. 2D CAD Drawings
    4. GIS GDB Database
    5. Attribute Data Populated (examples: Room Type, Room Description, Room Number)
    6. Implementation of the Massport Room Numbering Standard in Revit Models, 2D CAD, and GIS.
    7. Workflow Process for future Maint.
    8. Calculation of Volume Data, populated in GIS
    9. Deliverables will all be in Compliance with Massport BIM, GIS, and CAD Standards.

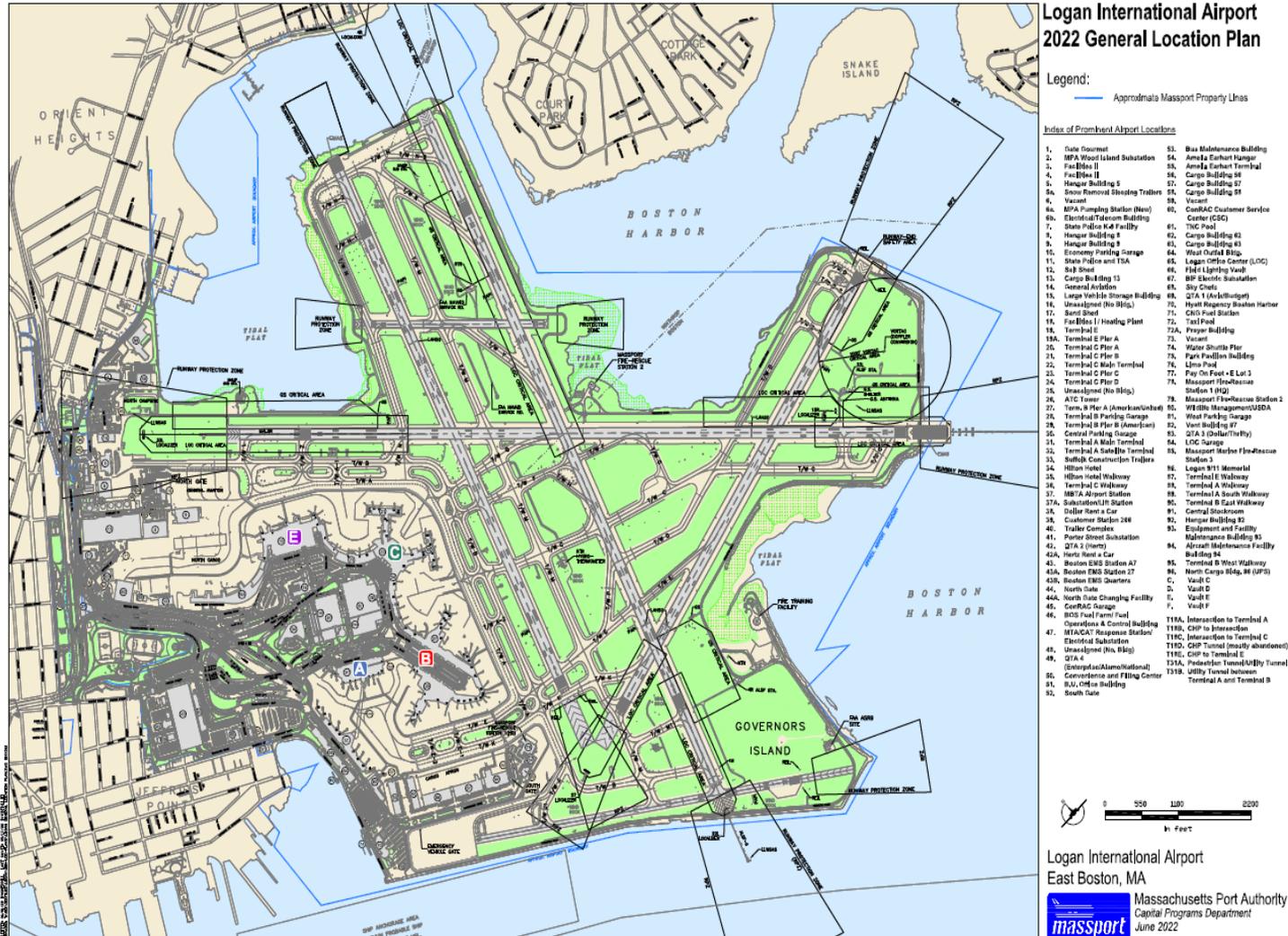
# MPA#A460 Digital Building Data Capture Consultant Briefing

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## Massport Properties:

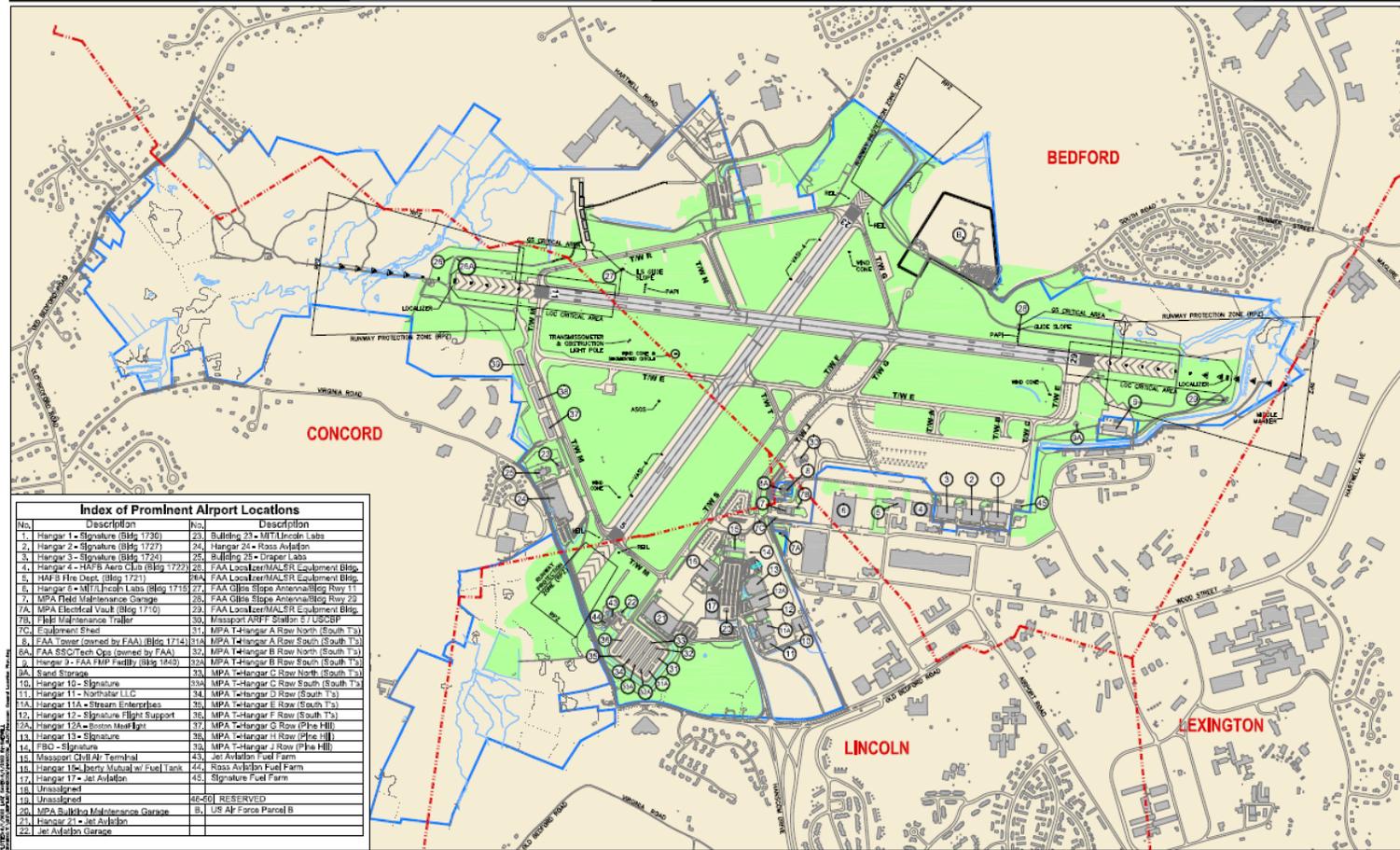
- Logan International Airport
- Hanscom Field
- Worcester Regional Airport
- Conley Container Terminal
- Flynn Cruiseport Boston
- Boston Fish Pier
- Massport Marine Terminal
- Other Massport Development

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## Logan International Airport

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Index of Prominent Airport Locations			
No.	Description	No.	Description
1.	Hanger 1 - Signature (Bldg. 1736)	23.	Building 23 - MIT Lincoln Labs
2.	Hanger 2 - Signature (Bldg. 1727)	24.	Hanger 24 - Ross Aviation
3.	Hanger 3 - Signature (Bldg. 1724)	25.	Building 25 - Graper Labs
4.	Hanger 4 - HAF B Aero Club (Bldg. 1722)	26.	FAA Localizer/MALSR Equipment Bldg.
5.	HAF B Hqs. Dept. (Bldg. 1721)	26A.	FAA Localizer/MALSR Equipment Bldg.
6.	Hanger 6 - MIT Lincoln Labs (Bldg. 1715)	27.	FAA Class Slope Antenna/Bldg. Row 11
7.	MPA Field Maintenance Garage	28.	FAA Class Slope Antenna/Bldg. Row 20
7A.	MPA Electrical Vault (Bldg. 1716)	29.	FAA Localizer/MALSR Equipment Bldg.
7B.	MPA Maintenance Trailer	30.	Massport APTF Station - ST USCB
7C.	Equipment Shed	31.	MPA T-Hanger A Row North (South T's)
8.	FAA Tower (owned by FAA) (Bldg. 1714)	31A.	MPA T-Hanger A Row South (South T's)
9A.	FAA ESC/Trash Ops (owned by FAA)	32.	MPA T-Hanger B Row North (South T's)
9.	Hanger 9 - FAA FMP Facility (Bldg. 1840)	32A.	MPA T-Hanger B Row South (South T's)
9A.	Stand Storage	33.	MPA T-Hanger C Row North (South T's)
10.	Hanger 10 - Signature	33A.	MPA T-Hanger C Row South (South T's)
11.	Hanger 11 - Northstar LLC	34.	MPA T-Hanger D Row (South T's)
11A.	Hanger 11A - Stream Enterprises	35.	MPA T-Hanger E Row (South T's)
12.	Hanger 12 - Signature Flight Support	36.	MPA T-Hanger F Row (South T's)
12A.	Hanger 12A - Stream Holdings	37.	MPA T-Hanger G Row (Pine Hill)
13.	Hanger 13 - Signature	38.	MPA T-Hanger H Row (Pine Hill)
14.	FBDO - Signature	39.	MPA T-Hanger J Row (Pine Hill)
15.	Massport CH2M Terminal	43.	Jet Aviation Fuel Farm
16.	Hanger 16 - Liberty Mutual w/ Fuel Tank	44.	Ross Aviation Fuel Farm
17.	Hanger 17 - Jet Aviation	45.	Signature Fuel Farm
18.	Unsubdivided	46-50	RESERVED
19.	Unsubdivided	B.	US Air Force Parcel B
20.	MPA Bulkhead Maintenance Garage	21.	Hanger 21 - Jet Aviation
22.	Jet Aviation Garage		

Massachusetts Port Authority  
 Capital Programs Department  
 June 2022

Revision Date: 04/12/2022

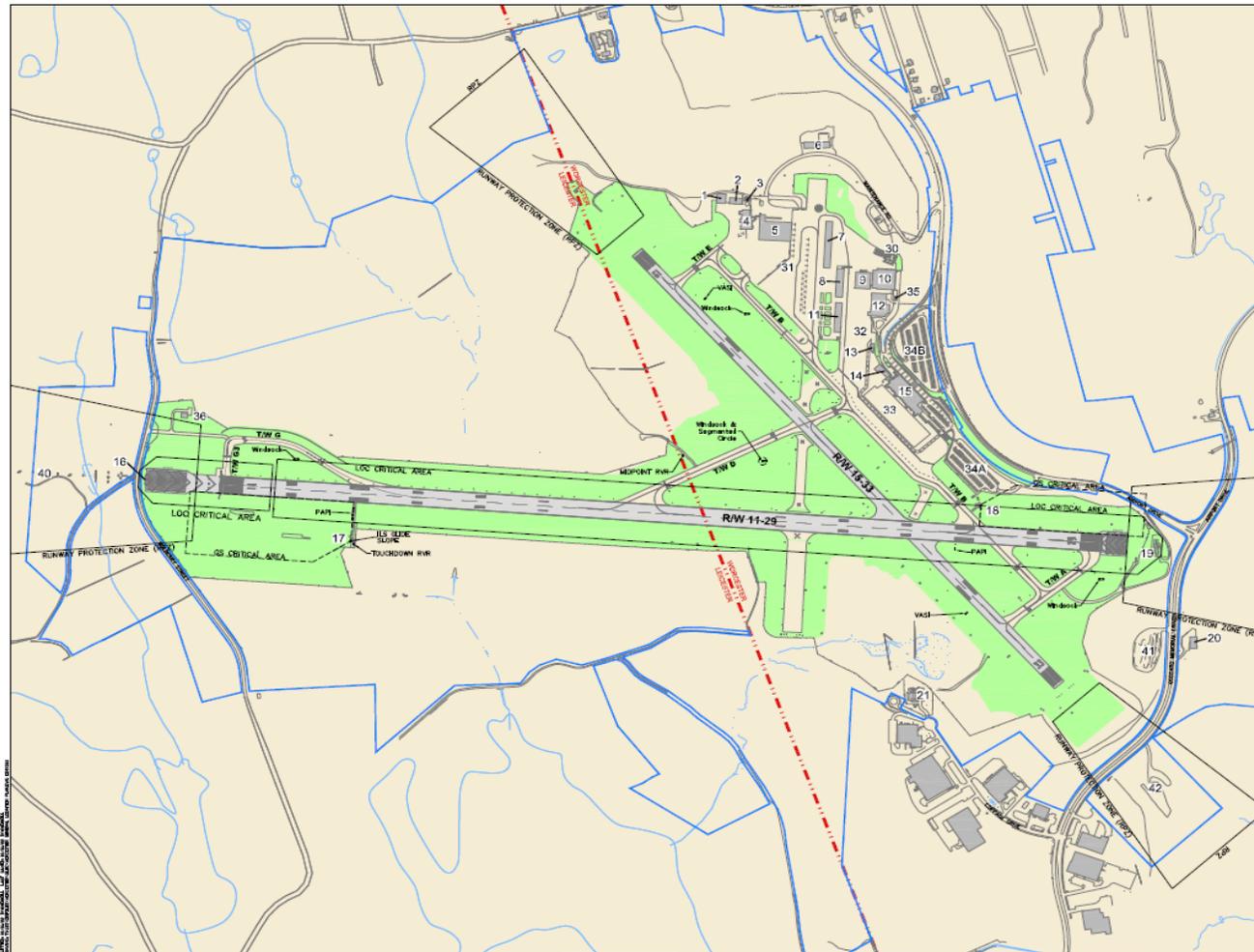
Legend  
 - - - - - Approximate Massport Property Lines  
 - - - - - Town Line  
 - - - - - Water

Notes:  
 This plan is intended for informational purposes only, and no warranty is made of the same without the express written consent of the Massachusetts Port Authority (the Authority). The Authority makes no representation or warranty, in fact or by law, with respect to any location, dimensions, orientation, scale, content or other information showing on this plan.

**L.G. Hanscom Field**  
 2022 General Location Plan



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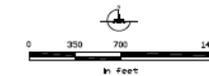
## Worcester Regional Airport 2022 General Location Plan

### Legend:

— Approximate Massport Property Lines

### Index of Prominent Airport Locations

1. Maintenance Building 1
2. Maintenance Building 2
3. Vehicle Fuel Farm
4. Hangar 4
5. Euro-American Air Freight
6. Cold Storage Building
7. Aerobionics T-Hangar 7
8. T-Hangar 8
9. Ross - Rectick Hangar 9
10. Ross - Rectick Hangar 10
11. T-Hangar 11
12. Ross - Rectick FBO
13. Flight Lighting Vault
14. ARFF Building
15. Terminal Building
16. LOC Antenna for RW 29 Approach
17. GBE Slope Antenna-LS to RW11
18. GBE Slope Antenna-LS to RW29
19. LOC Antenna for RW11 Approach
20. Industrial Park Bldg. 20
21. Airport Traffic Control Tower
30. Fuel Farm
31. Base of Aircraft Apron
32. Ross - Rectick FBO Apron
33. Terminal Apron
- 34A. Upper Parking
- 34B. Lower Parking
35. Telecomm Antenna
36. ALSF-2 Support Shelters
40. Light Towers for RW11 Approach
41. Leaf Compost Area
42. City Snow Dump Area



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Revision Date: 03/08/2021

Worcester Regional Airport  
Worcester, MA  
Massachusetts Port Authority  
Capital Programs Department  
June 2022

# MPA#A460 Digital Building Data Capture Consultant Briefing



## Massport Property Harborwide

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## RFQ Evaluation Criteria

The submission shall be equally evaluated on the basis of:

1. Demonstrated experience and knowledge of the team for similar projects of similar size and complexity particularly for the Project Manager. Highlight the experience and expertise for the major sub-consultants and their assigned staff. Provide information on geographical location and proposed staff % allocation to this project
2. Demonstrated project understanding and proposed technical approach including digital products, QA/QC process, program implementation, cost management and task scheduling capabilities and ability to plan and perform work with minimal disruption to operation
3. Demonstrated experience in utilizing Scrum methodologies and Lean Design & Construction. Experience integrating and managing GIS/CIM & BIM, and ability to integrate technology, innovation, sustainability and resiliency into all phases of the project including the development of 3D utility models
4. Proposed approach to enhance diversity and inclusion of firms to increase the pool of consultants working on the Authority's projects. For those D/M/WBE firms proposed, describe their type and/or category of work (i.e. civil, electrical, Lean, etc.); include the specific roles to be played by each D/M/WBE, and the extent of the involvement by such D/M/WBE as of date of the proposal submission (% goal)

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## RFQ Submission Requirements

Questions are to be sent via email to: [CPBidQuestions@massport.com](mailto:CPBidQuestions@massport.com)

Deadline for submission of written questions: April 4, 2024 @ 12:00PM (noon)

Answers published: April 11, 2024

**Deadline for proposal submission: May 2, 2024 @ 12:00PM (noon)**

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Thank You