

AVIATION SYSTEMS INC.

Date: MAR 12 2007

To: Aaron Bouchane
Massachusetts Tech Collaborative
75 North Drive
Westborough, MA 01581

ASI #: 07-N-0448.006

Client Site ID: DPW Water Division HQ

FAA #:

We are sending you herewith the following via:

US Mail Overnight Fax Email 2nd Day

- ASI FAR Part 77 Airspace Obstruction Report
- Search Area Study Report
- Copies of our filing(s) with FAA and/or State
- Responses from FAA and/or State
- ASI Opinion Letter
- Quad Chart
- See attachments for Airport Runway data and/or AM Stations(s)
- Certified Survey

Operational Impact

Comments:

Sincerely,

Aviation Systems, Inc.

By:



FAR PART 77 AIRSPACE OBSTRUCTION REPORT

To: **Aaron Bouchane** Date: March 9, 2007

Massachusetts Tech Collaborative
75 North Drive
Westborough, MA 01581

Location: West Yarmouth, MA

Client Case No.: DPW Water Division HQ

ASI Case No.: 07-N-0448.006

SUMMARY OF FINDINGS:

At this location any structure over 141 feet AGL will have to be filed with the FAA. A structure up to 235 feet AGL should receive a routine approval if it were to be filed with the FAA. A structure over 300 feet AGL should not be approved. Refer to Findings and Comment Section for additional information.

SITE DATA:

Structure: Wind Turbine

Note Operational Impact

Coordinates: 41° - 39' - 46.15"/070° - 13' - 32.47" [NAD 27]

41° - 39' - 46.55"/070° - 13' - 30.54" [NAD 83]

Site Ground Elevation: 20' [AMSL]

Studied Structure Height (With Appurtenances): 397' [AGL]

Total Overall Height: 417' [AMSL]

SEARCH RESULTS:

- The nearest public use or military air facility subject to FAR Part 77 is Barnstable Muni-Boardman/Polando Field.
- The studied structure is located 2.01 NM/12,207 feet East (109° True) of the Barnstable Muni-Boardman/Polando Field Runway 24.
- Other Public or Private Airports or Heliports within 3 NM: None Printout attached

FINDINGS• **FAA Notice (Ref.: FAR 77.13 (a)(1); FAR 77.13 (a)(2) i, ii,iii):**

- Not required at studied height.
- Required at studied height.
- The No Notice Maximum height is 141 feet AGL.

IMPORTANT: Our report is intended as a planning tool. If notice is required, actual site construction activities are not advisable until an FAA Final Determination of No Hazard is issued.

• **Obstruction Standards of FAR Part 77 (Ref.: FAR 77.23 (a)(1),(2),(3),(4),(5)):**

- Not exceeded at studied height.
- Exceeded at studied height and Extended Study may be required.
- Maximum nonexceedance height is 235 feet AGL.

• **Marking and Lighting (Ref.: AC 70/7460-1K, Change 1):**

- Will not be required.
- Will be required at studied height, if structure exceeds:
 - 200 feet AGL
 - Obstruction Standard

• **Operational Procedures (Ref.: FAR 77.23 (a)(3), (4); FAA Order 7400.2; FAA Order 8260.3B):**

- Not affected at studied height (FAA should issue a Determination of No Hazard.)
- Affected at studied height and the FAA will consider the studied structure to be a hazard to air navigation.
- Maximum height that would not affect operational procedures is 300 feet AGL/ 320 feet AMSL.

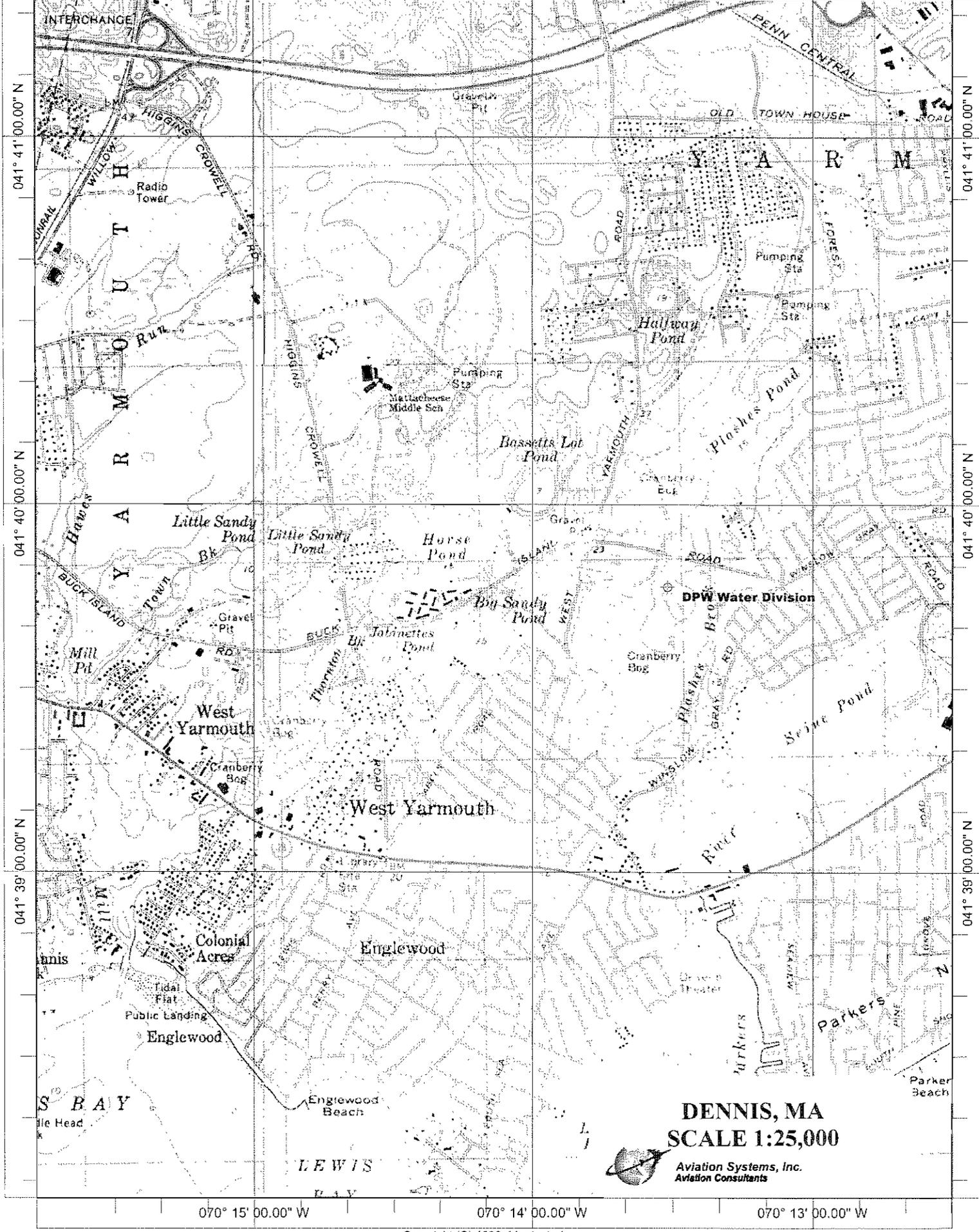
Conclusions/Comments

- The proposed structure at this site would penetrate the IFR Circling airspace at Barnstable Muni-Boardman/Polando Field, protected by Federal Aviation Regulations.
- There are no Air Traffic Control Radar (ASR) or Joint Use Long Range Radar (ARSR) facilities within a critical distance.

Actions:

ASI will file with FAA Region and State

 Yes No



DENNIS, MA
SCALE 1:25,000



Aviation Systems, Inc.
 Aviation Consultants