



AVIATION SYSTEMS INC.

Date:

MAR 12 2007

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

ASI #: 07-N-0448.005

Client Site ID: Pump Stations 15 & 16

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

Note 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: Port Yarmouth, MA

Client Case No.: Pump Stations 15 & 16

ASI Case No.: 07-N-0448.005

SUMMARY OF FINDINGS:

At this location any structure over 200 feet AGL will have to be filed with the FAA. A structure up to 317 feet AGL should receive a routine approval if it were to be filed with the FAA. A structure over 320 feet AGL should not be approved. Refer to Findings and Comment Section for additional information.

SITE DATA:

Structure: Wind Turbine

Mobile Crane Lifted Object

Coordinates: 41° - 41' - 42.78"/070° - 11' - 36.96" [NAD 27]

41° - 41' - 43.18"/070° - 11' - 35.03" [NAD 83]

Site Ground Elevation: 30' [AMSL]

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

Total Overall Height: 427' [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 3.58 NM/21,712 feet East (069° 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 200 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 317 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

Not Exceedance / M0101

• **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 320 feet AGL/ 350 feet AMSL.

Conclusions/Comments

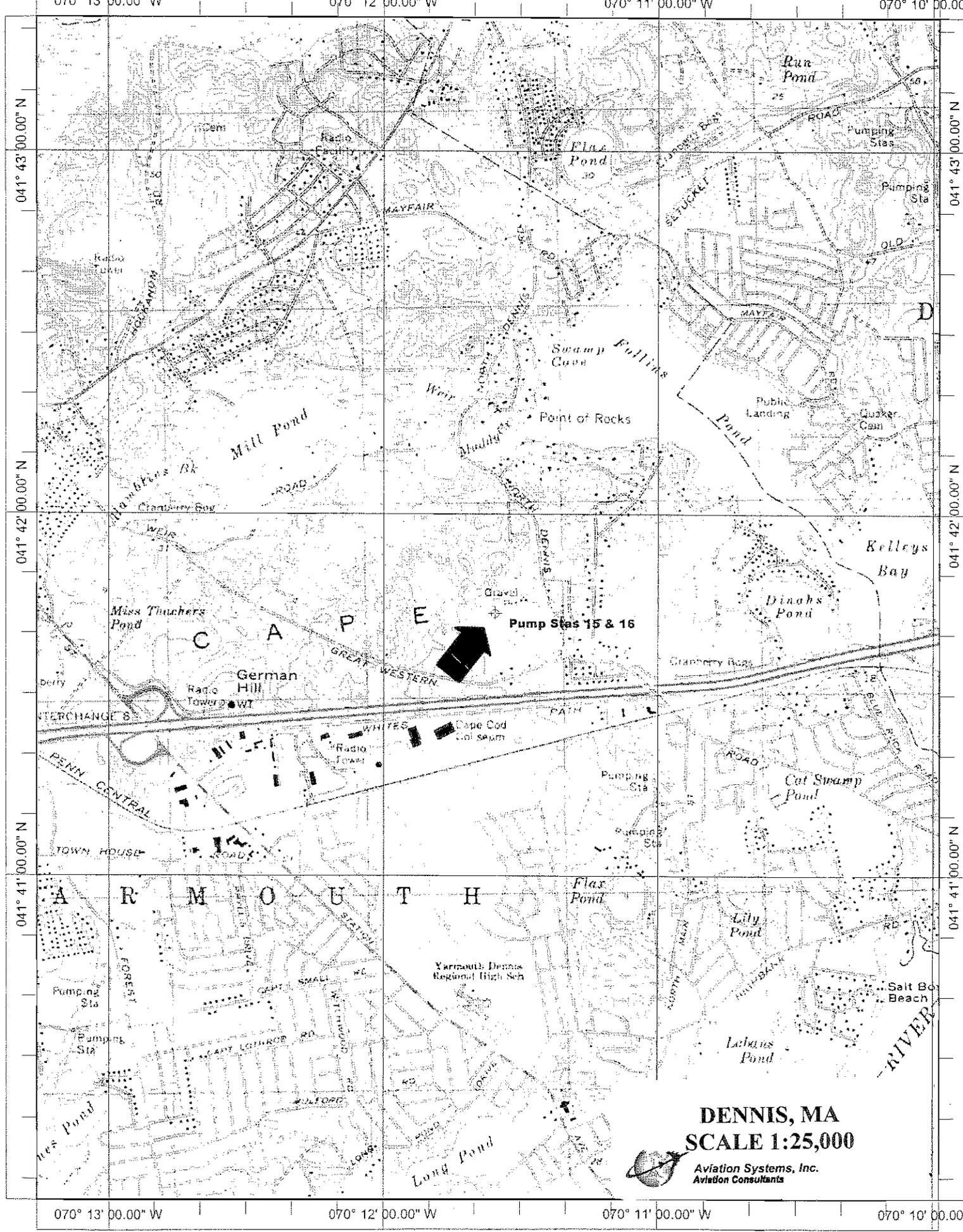
- The proposed structure at this site would penetrate airspace for the RNAV/GPS Approach to Runway 24 at Barnstable Muni-Boardman/Polando Field, protected by Federal Aviation Regulations.
- There are no Air Traffic Control Radar (ASR) or Joint Use Long Range Radar (ARSR) facilities within a critical distance.

Actions:

ASI will file with FAA Region and State

Yes

No



DENNIS, MA
SCALE 1:25,000



Aviation Systems, Inc.
 Aviation Consultants