AVIATION SYSTEMS, INC.
PHONE: 310-530-3188 FAX: 310-530-3850
asi@aviationsystems.com
www.aviationsystems.com

AREA STUDY REPORT

To:
Joe Client
XYZ Corporation
1234 Any Street
Any Town, USA 55555

Date: April 13, 2001

Location: Grangeville, ID

Client Case No.: Site ABC

ASI Case No.: 01-O-2222.XYZ.20

Search Area Parameters:

- Center Point of Search Area Coordinates: 45° - 54' – 50.31″ /116° - 08' – 11.48 ″ [NAD 27]
  45° - 54' – 49.90″ /116° - 08' – 15.00 ″ [NAD 83]
- Search Area Radius: 1 NM
- Center of Search Area Elevation: 3600' [AMSL]
- Requested Structure Height: 165' [AGL]

Relevant Facilities Search:

- The nearest public use or military airfield affecting the search area under FAR Part 77 is Idaho County.
- The centerpoint of the search area is 1.73 NM/10,483 feet South (186°True) from that Airport's Runway 07.
- The nearest point of the search area to the runway is 0.73 NM/ 4,435 feet.
- The runway elevation is 3,282' AMSL.
- Other Public and Private Airports or Heliports within the search area: (None ☐; Yes, see attachment(s) ☐.)
- AM Radio Stations within 4 NM of the search area: (None ☐; Yes, see attachment(s) ☐.)

SAMPLE AREA STUDY. NOT ACTUAL CASE DATA OR ANALYSIS.

- The attached "Maximum Height" plot (Exhibit A) divides the search area into sectors (as necessary) showing the maximum AMSL height limitations imposed by the aircraft visual and instrument procedures, enroute airways, and radar vectoring altitudes affecting the sector. The limitations have been calculated in accordance with FAR Part 77 and FAA Orders 7400.2 and 8260.3B and represent the maximum heights to which structures could be erected without incurring a "Hazard Determination" from the FAA.
- The attached "No Notice" plot (Exhibit B) depicts the maximum height above mean sea level (AMSL) at which FAA notice is not required. At any point within the search area, the ground height subtracted from the "NO Notice" height will yield the maximum permissible tower height above ground level (AGL) for which filing with FAA under Part 77 of the Federal Aviation Regulations (FAR) is not required. Please be advised that in rare circumstances the "Maximum Height" at a selected site within the search area may actually be lower than the "No Notice Height." Hence, in site selection, it is extremely important to utilize both exhibits.
- In instances where no operational procedures were discovered in this study, which would impede construction of a structure in all or any portion of the search area, the height limitations shown are calculated by adding a safety buffer to the highest terrain found within the search area plus the requested structure height. This buffer is to accommodate for the possibility of any unseen terrain variations within the area and enhance the safety margin. This height limitation is termed the "Target Height".

CONCLUSIONS:

Sector A – 3460' AMSL
Sector B – 3460' AMSL to 3660' AMSL
Sector C – 4205' AMSL

Height Limitations in the depicted sectors, except "Target Height", are impacted by the following criteria of FAR Part 77 and TERPS:

Sectors A & B are within the VFR Horizontal and Conical Imaginary Surface Airspace.
Sector C reaches the "Target Height".

COMMENTS:

- **The area identified by dashed lines is the VFR Traffic Pattern for the Idaho County Airport. Structures within this area may be restricted to a height of approximately 3660 feet AMSL.**
- **In Sector C due to terrain significantly above the airport elevation, higher structure heights may be approvable. For a more definitive opinion, a specific site evaluation must be done.**

NOTE: ***Because of changing airspace conditions and FAA evaluation criteria, the information contained on the exhibit(s) is for planning purposes only and should not be used for actual FAA filings. Specific sites within the search area must be separately studied to determine the FAA filing requirements and obstruction standards impacts unique to the specific sites.***

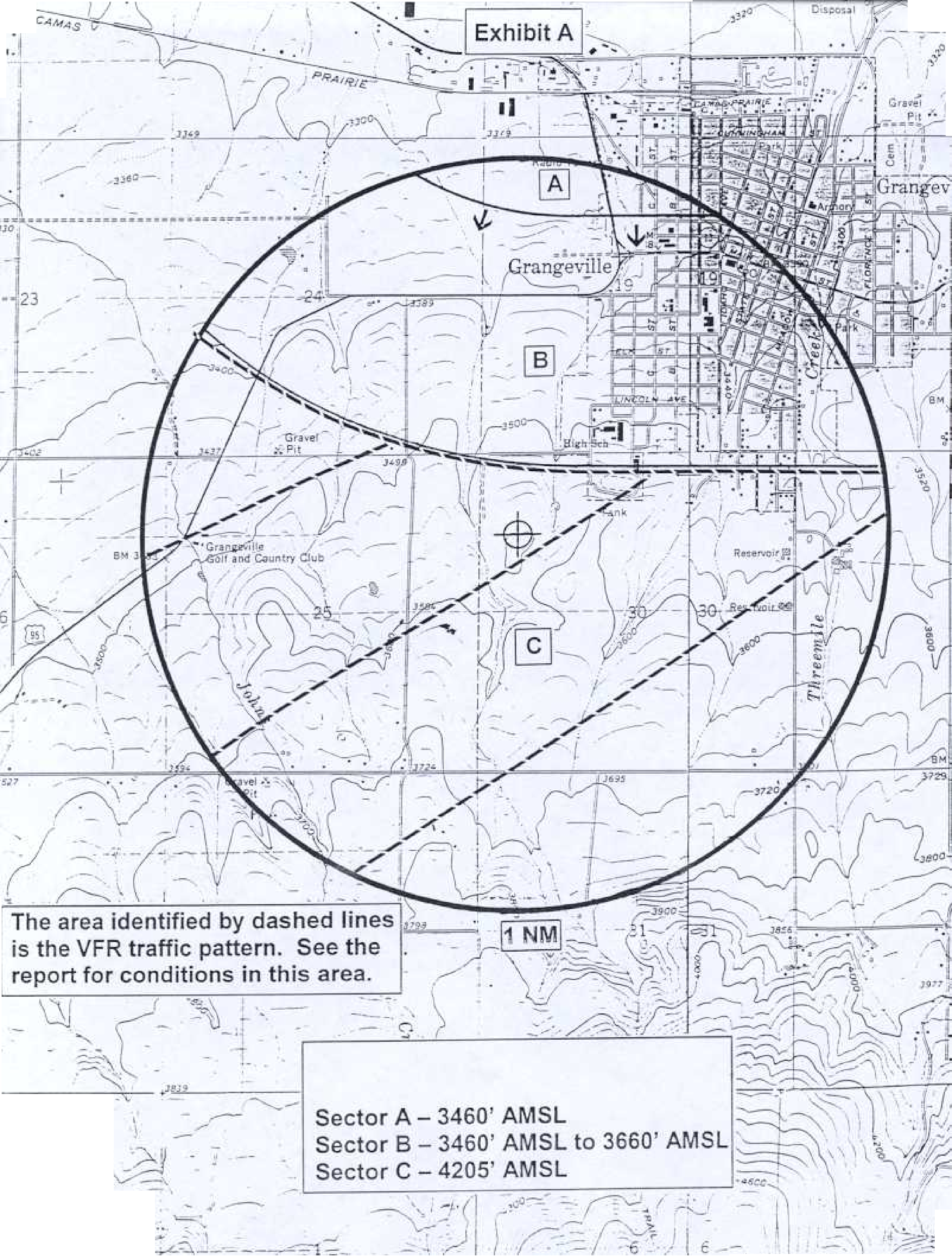

Exhibit A
A
B
C
1 NM
The area identified by dashed lines is the VFR traffic pattern. See the report for conditions in this area.
Sector A – 3460' AMSL
Sector B – 3460' AMSL to 3660' AMSL
Sector C – 4205' AMSL
CAMAS
PRAIRIE
Disposal
Grangeville
Grangev
Armory
Park
Gravel Pit
Grangeville Golf and Country Club
High Sch
Reservoir
Creek
Threemile
LINCOLN AVE
CUNNINGHAM
CAMAS PRAIRIE
FLORENCE