



# CONSTELLATION

CREATING RELATIONSHIPS

## SITE SURVEY

- Will the antenna system be placed on the roof:  Yes  No
- Where is the building/site location:  Rural  Urban
- Is the antenna safe from unauthorized access:  Yes  No
- Is sufficient roof/ground space available:  Yes  No  
(for 2.4m antenna NPM at least 17ft x 17ft (5m x 5m))
- Is the roof/ground flat (maximum inclination 5°):  Yes  No
- Roof/Soil composition:  Concrete  Membrane  Pebbled  Built up  
Other: \_\_\_\_\_
- Lightning protection available:  Yes  No
- Building/site height: \_\_\_\_\_ Stories \_\_\_\_\_ Height
- Method of transporting dish to roof:  Elevator  Crane  Other \_\_\_\_\_
- Roof access:  Hatch  Penthouse  Size of roof access: \_\_\_\_\_ m<sup>2</sup>

\*Make sure antenna is properly grounded to avoid power surges and possible equipment failure as a result.

\*If the antenna system is to be placed on rooftop using a standard non-penetrating mount, pay special attention to rooftop load capacity and rooftop composition. The total weights of a standard 2.4m antenna system including a non penetrating mount and ballast is about 990 lbs (450 kg). This weight is spread over approximately 290 square feet.

\*If the antenna is to be placed on ground level using either a standard non-penetrating mount or a pole mount, pay special attention to trench and/or conduit requirements.

\*Any drawings and photographs will be helpful in confirming the integrity of the potential site.

Line of sight towards the satellite:  Restricted/obstructed  Free  
As seen from the position of the antenna  
If Restricted, please explain: \_\_\_\_\_

Interference by RF transmitters (GSM, radio, TV, microwave):  Yes  No  
If yes, indicate frequency and level \_\_\_\_\_

Interference by high voltage lines:  Yes  No  
Other possible sources for interference (fans, elevators, etc.):  Yes  No

This section is of vital importance to the performance of the future link. Pay the highest possible attention to obstructing elements anticipating future building construction, cranes, air traffic, growing trees, etc. Keep an adequate margin for azimuth and elevation angles to assure a clear view to the satellite.



SITE SURVEY cont.

Total length of cable run from the antenna to the indoor equipment: \_\_\_\_\_ Meter/feet

Trench and/or conduit required:  Yes  No

Has the building an existing cable entrance:  Yes  No

Do wall and floor penetrations have to be made:  Yes  No

Size of cable:  RG-11  RG-6  LMR-4  Other \_\_\_\_\_

Cable:  New  Existing

Give a brief description of the proposed location of the indoor equipment:  
 Computer room  Office  Other, explain \_\_\_\_\_

Is the IDU location safe from unauthorized access:  Yes  No

Is power available for equipment:  110v  220v

Is there back up power available:  UPS  Generator  Other \_\_\_\_\_

Give a brief description of the environmental conditions of the IDU location:  
 Normal temperature  Properly ventilated  Air conditioned

Any special requirements for access to building/site:  Yes  No

Approval obtained for placing the antenna on the roof/floor:  Yes  No

Is any local permit or license required:  Yes  No

If YES, do you have it:  Yes  No

Recommended items for completion of a site survey:

- Camera
- Map
- GPS receiver
- Compass
- Inclinometer
- Tape Measure
- Architects Tape
- Road distance wheel
- Screw drivers (flat and cross head)
- Clipboard, form and pencil