

# SITE SELECTION

## Site Survey

Your Authorized Cosmos Dealer can perform a complete site survey to determine a suitable dish location. This is the most important step to installing the Cosmos satellite dish. A number of important factors must be considered:

## Zoning and Building Codes

Local zoning and building codes and insurance companies may require approval by electrical and structural engineers prior to installation of a satellite system. Cosmos recommends that no installation methods besides those described in this manual be attempted without a professional engineer's structural analysis! It is the purchaser's responsibility to see that these steps are taken.

## Terrestrial Interference (T.I.)

T.I. can be caused by local microwave signals from telephone and data sources which may reduce the picture quality on one or more satellite channels. Performing a site survey with a spectrum analyzer is the best way to determine the presence of these unwanted signals. Careful site selection and the use of special filters can minimize the effects of T.I.

## View to the Satellites

The dish should be located where it has an unobstructed view of the greatest number of satellites. A site survey can determine the best dish location. Find a location that will not be affected by future structures or the growth of trees which may obstruct the view to the satellites.

## Cable Routing

The cables between the indoor and outdoor components should be run through buried conduit. Locate any underground utility lines before excavating. Boring under sidewalks may be necessary. Avoid areas where future excavation may occur.

## Terrain and Soil Conditions

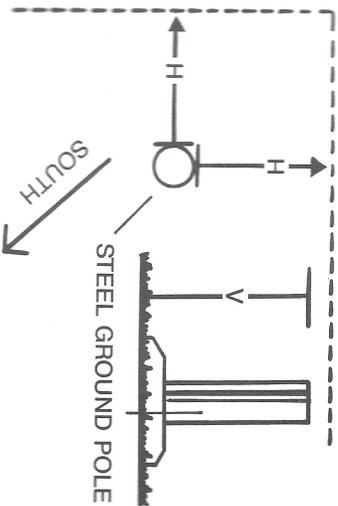
A well-drained, level site with firm soil makes an excellent dish location. Consult your Cosmos dealer and a professional engineer to determine the proper foundation for the terrain and soil conditions at your location.

## Local Wind Conditions

If your area is subject to high winds, try to place the dish where it is sheltered by hills, trees, or buildings.

## Adequate Clearance

The dish must have adequate vertical and horizontal clearance. If the location receives deep winter snow, increase the minimum height accordingly. Refer to the diagram below for minimum clearances for each size dish.



MINIMUM CLEARANCE		
DISH	H	V
8.5'	4.5'	4'
10.5'	5.5'	5'
12'	6.5'	6'

## Tools and Supplies Required

The following is a list of tools and supplies which are required to install your satellite dish:

- Magnetic Compass
- Anglefinder
- Tape Measure
- 2' or 4' Level
- Carpenter's Square
- Shovel
- Hammer
- Pliers
- 12" Crescent Wrench
- 7/16" End Wrench
- 1/2" End Wrench
- 3/4" End Wrench
- 3/8" Ratchet
- 7/16" Socket
- 1/2" Socket
- Screwdrivers
- Drill and Bits
- Hack Saw
- Extension Cord
- Portable Table
- Coax Sealant
- Conduit Cement
- 8-10 Bags Concrete
- 4x4 Wood Post
- Plastic Wire Ties
- 4" O.D. Steel Pipe

## Getting Ready

Plan enough time to do the complete installation of your satellite system without interruptions. It will take about three days. You will need at least one helper. Get all of the necessary tools and supplies together and identify all dish and mount parts before beginning.