Snow fencing can eliminate the need for snow removal, lower pavement maintenance costs, and increase visibility and safety on the road. A well planned snow fencing program can savetime and money. Following are installation instructions for snow fence.

## **How Snow Fencing Works:**

Snowfencing reduces the wind speed, causing most blowing snow to fall behind the barrier. When the snow is at rest, the particles freeze together making a smooth snow drift.

## **Steps to Installation:**

#### 1. Research, determine variables

Snowfencing is designed for snow storage. A thorough knowledge of the problem is needed to estimate a sound solution.

 Wind Direction – This information can be found in meteorological data from weather stations, by examining drift features in area or aerial photographs, and by checking the orientation of vegetation, such as bent trees or snow-causedabrasion on wooden poles.



- Snow Transport Estimate from wind speed records in the area. Keep in mind that in winds of less than 20 mph, 90% of the blown snow stays below 4 ft. In winds of less than 45 mph, 70% of the blowing snow remains below the 4 ft. mark.
- Snow Fall Look up the records for past years and estimate snow fall records for the problem area.

### 2. Design

Design is critical to installing the most eAective snow fencing for the area.

- Porosity refers to the open area of a fence. A porosity of 40-50% is recommended to form the largest drifts.
- **Bottom Gap** should be 10 15% of the fence height. Although in rough terrain or snow covered areas the bottom gap may be higher. This makes the fence less likely to be buried.
- Windy Conditions warrant the use of ties or wood strips to attach the fence to wood posts (see illustration).
- Anchoring the fence Ćrmly is a necessity. In good soil, a six-foot fence post should be buried 2-1/2 ft.

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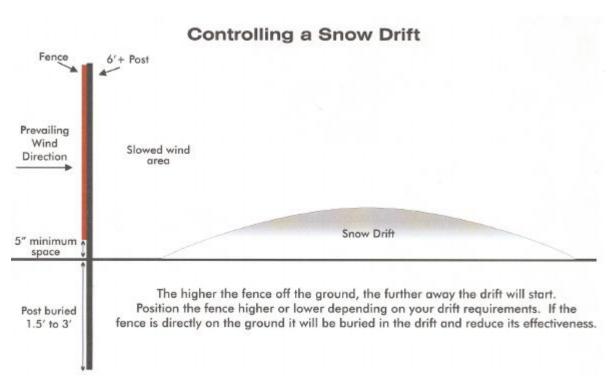
# 3. Placement

Correct placement is essential in installing eAective snow fencing. Incorrect placement can make the snow drift problem worse. Fenceposts should be spaced no more than 8 feet apart for 4 ft. snow fences. End posts should be 6 ft. or less from the adjacent post. The end post placement facilitates bracing.

- Row A drift can spread as far as 35 times the height of the fence. Therefore, the fence must be at least that far from the roadway and the distance may be farther because of irregular terrain. Also build the fence longer than the area that needs to be protected. Add 20 times the height of the fence on eachend to account for wind variation.
- Alignment Generally place the fence parallel to the road if the wind is within 25 degrees of being perpendicular to the roadway. If the wind direction is parallel to the road, fences should be placed perpendicular to the prevailing wind direction. Placement may vary up to 25 degrees to avoid adverse terrain or to take advantage of favorable topography.
- Multiple Rows To avoid fence burial downwind leave 25 times the height in open area for snow drifts to form. With staggered fencing, make sure that all gaps are covered with following rows.

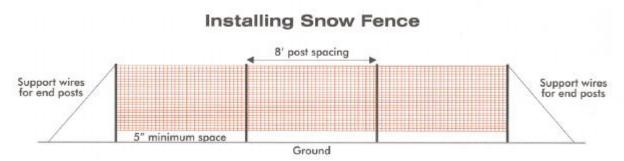
#### **Maintenance**

To ensure that the fence performs at its highest level, continual maintenance checks are essential. Check the anchoring system and look for missing and damaged parts periodically.



When snow blows and drifts on roadways or driveways, the end result often includes a reduction in driver safety, degradation of road quality, and signiĆcantremoval costs for drifted snow. Snowfences are also used to trap snow in dugouts for water storage. The value of a snow fence is clear; however, exactly how one works is commonly misunderstood.

Snowfence is designed to CREATEdriftsrather than to prevent them. Snowdrifts form wherever the wind slows down, so the basicsof drift control are (1) keep a blizzard wind moving, or (2) slow it down where you want the snowdrift. Snowfences act as windbreaks, causing blowing snow to be deposited as drifts where it is stored.



Proper installation is critical. Snowfence should be positioned upwind of the desired drift area, noting the prevailing wind direction. Posts should be strong as they will be the weakest link where tensile strength is concerned (metal U-posts should not be used). Bury posts 1/3 their height and place no more than 8 feet apart. The fence should be pulled taught, and support wires should stabilize end

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posts to prevent sagging. Fenceshould be attached to the upwind side of the post to minimize tearing. There should be a 5" minimum gap at the bottom of the fence to prevent burying. The higher the fence from the ground, the further awaythe drift will start.