



Site Analysis

Catherine Wissner

UW Cooperative Extension

Laramie County

Master Gardener Program

True or False?

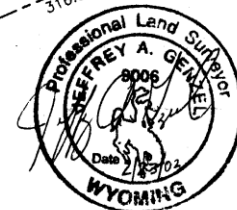
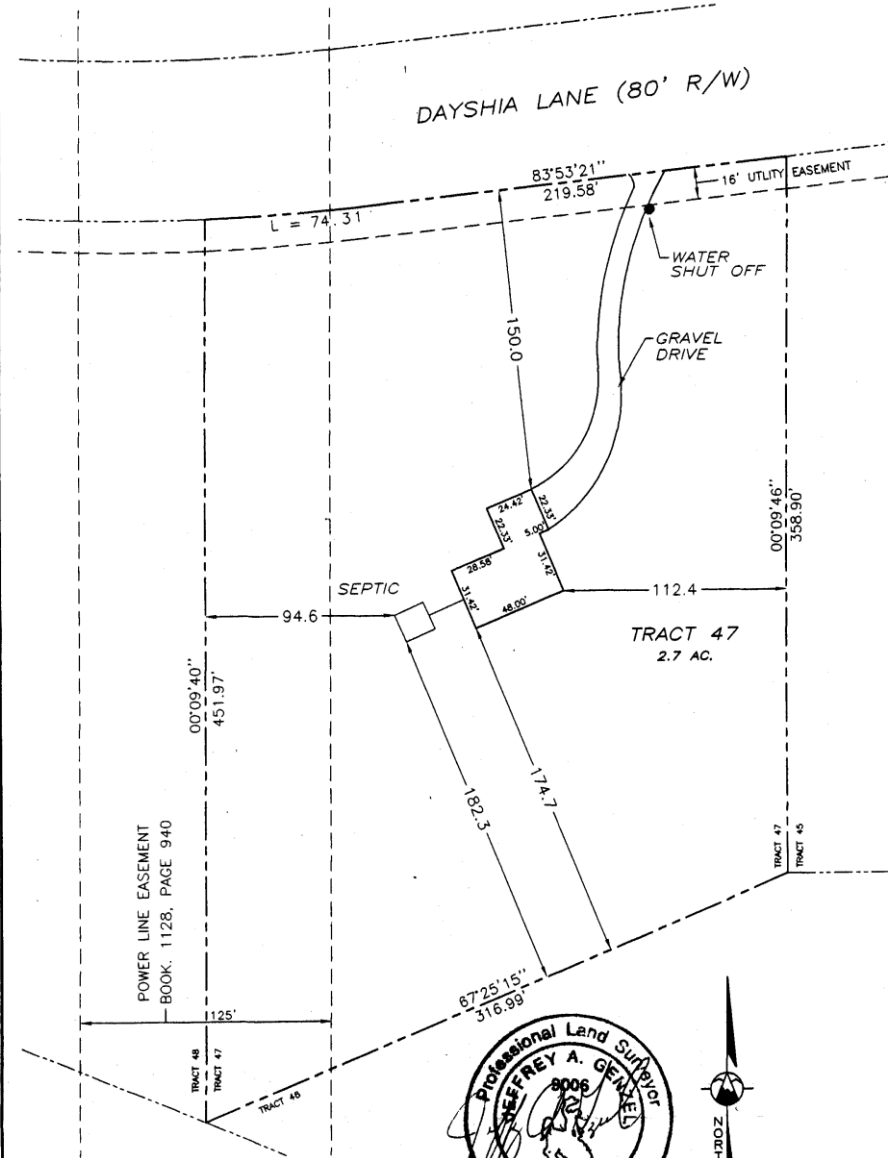
- ▶ If you want afternoon **summer** shade plant a tree on the north west side of your house?



Plot Plan

PLOT PLAN

TRACT 47
BISON CROSSING 3RD FILING
LARAMIE COUNTY, WYOMING



1" = 60'

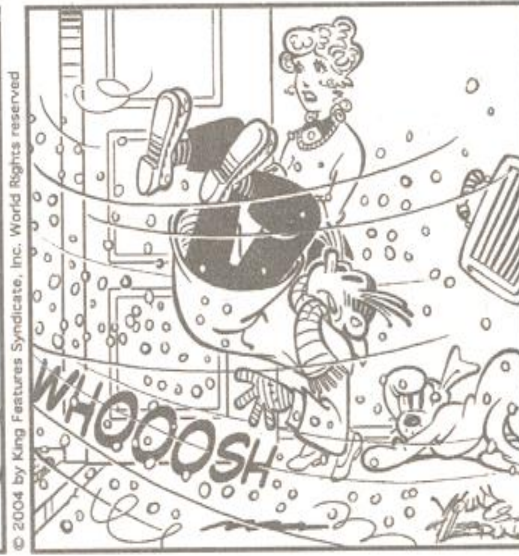
North

- ▶ North will always be pointing to the top of the page or map.
- ▶ Use a compass.



Wind

BLONDIE



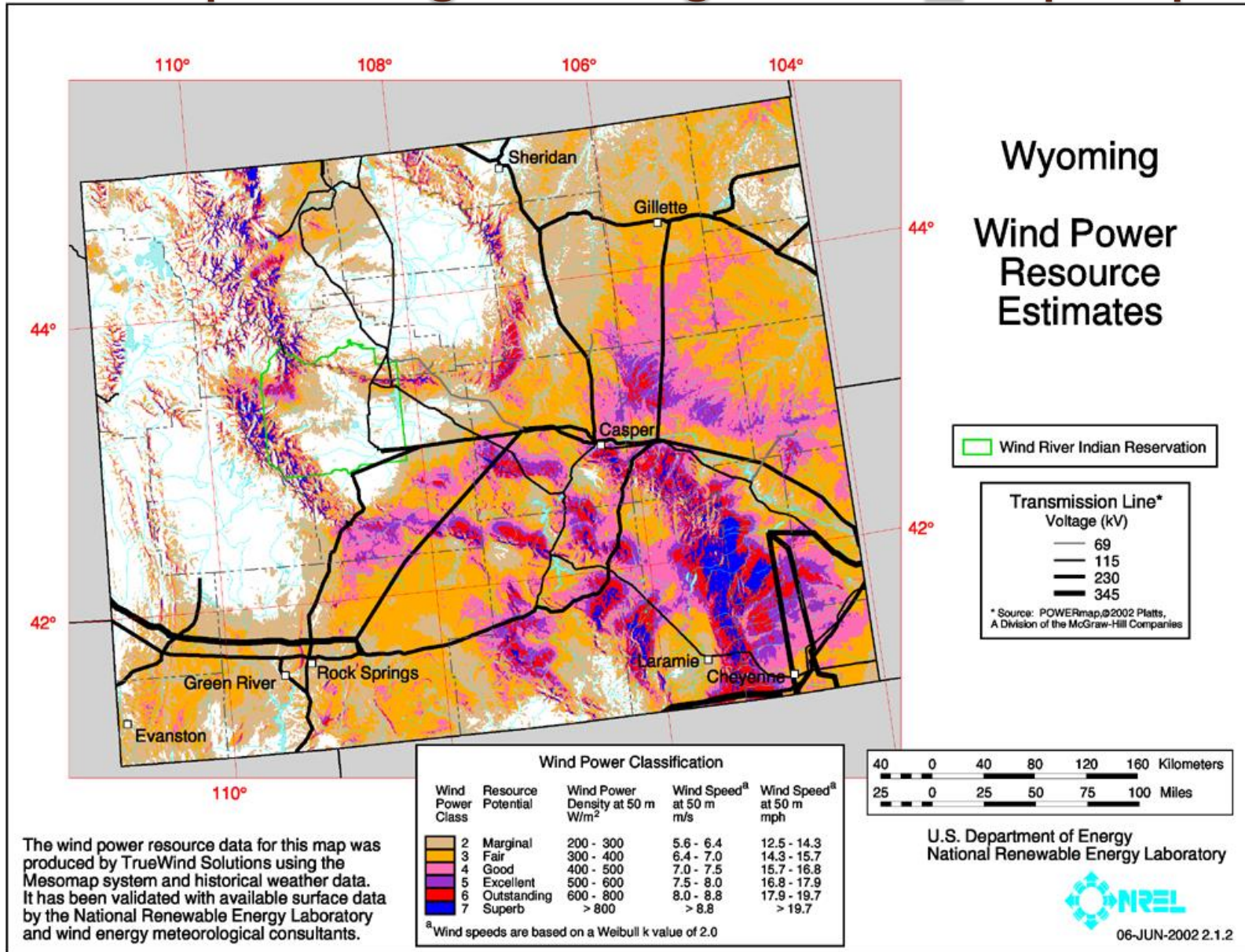
© 2004 by King Features Syndicate, Inc. World Rights reserved

www.Blondie.com

WYOMING WIND SOCK

STRENGTH OF WIND FROM CHAIN ANGLE

- 0 BROKEN-NOTIFY METEOROLOGIST
- 30 FRESH BREEZE
- 45 GENTLE ZEPHYR
- 60 HURRICANE IN AREA
- 75 BEWARE OF LOW FLYING TRAINS
- 90 WELCOME TO BIG WONDERFUL WYOMING

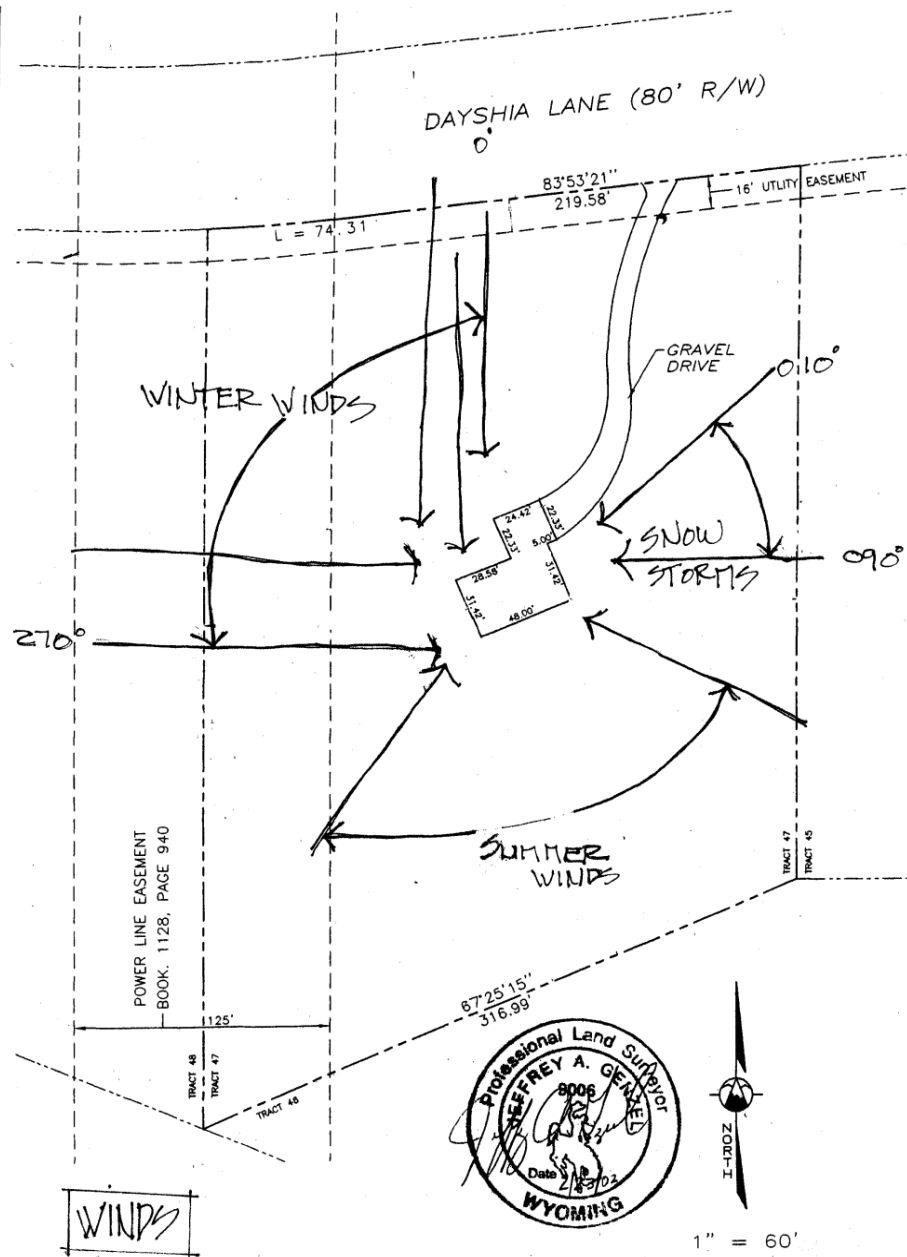
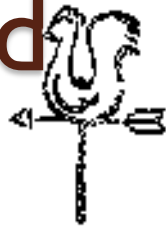


Wind - Different types:

- ▶ Chinook (warming west winds).
- ▶ Gap (funneled by Mts.).
- ▶ Bora (caused by frontal passage).

- ▶ Atmosphere constantly tries to be in balance.
 - High to low, cold to warm, jet stream.
- ▶ Cheyenne is 4th in wind for large cities.
 - Windier places in Wyoming are: Rawlins, Hanna and Medicine Bow.
 - Mike Weiland NWS, Cheyenne

Wind



Wind Driven Snow

▶ Where does the snow drift on your property?



Wind Driven Snow

- ▶ Use plants to help control the drifts.

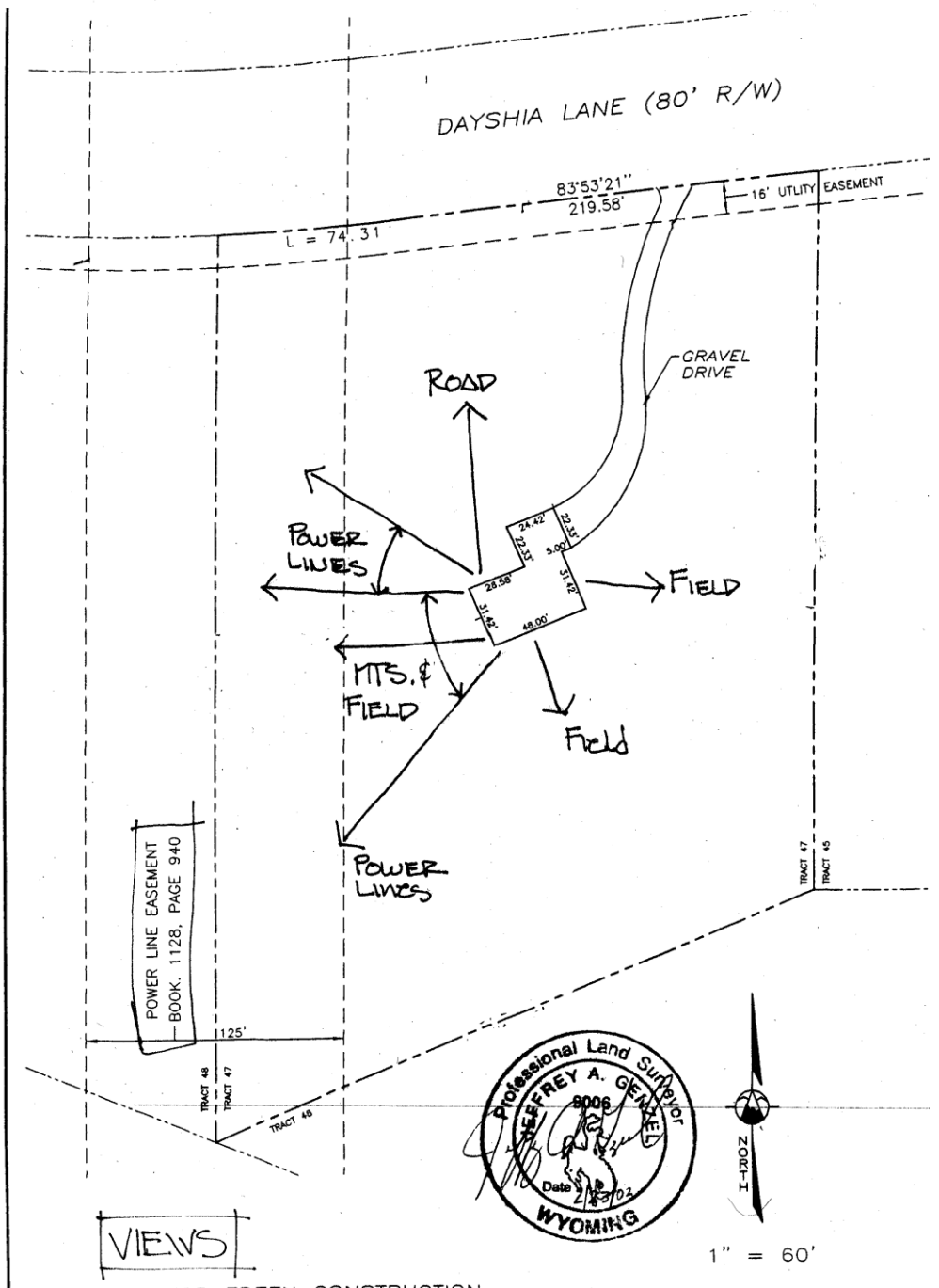


Wind Driven Snow

- ▶ Use fences to help control the drifts.



Views



Views or Environments

- ▶ Views to save.



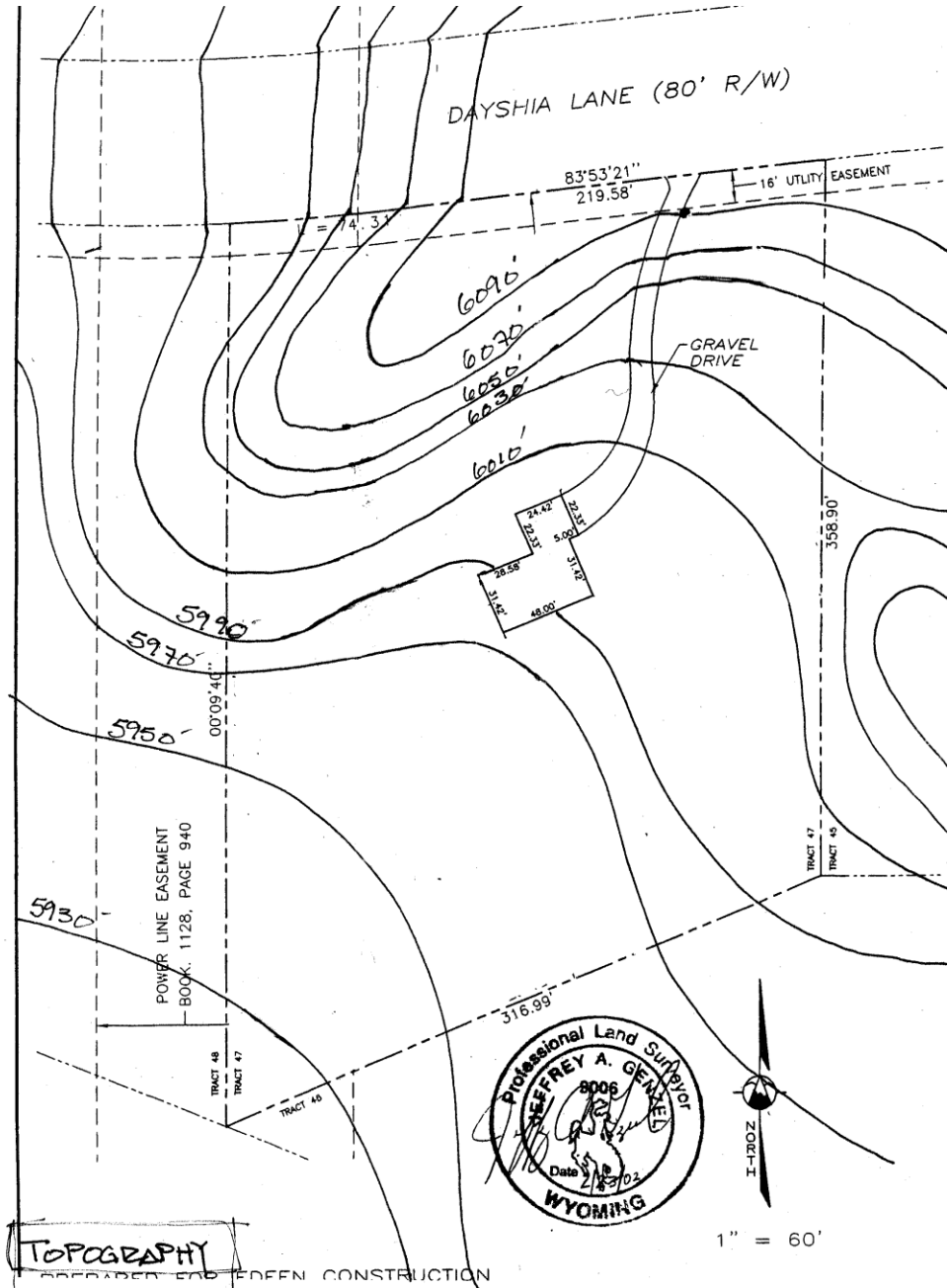
- ▶ Views to block.



- ▶ Homeowner Association restrictions.

- ▶ City restrictions.

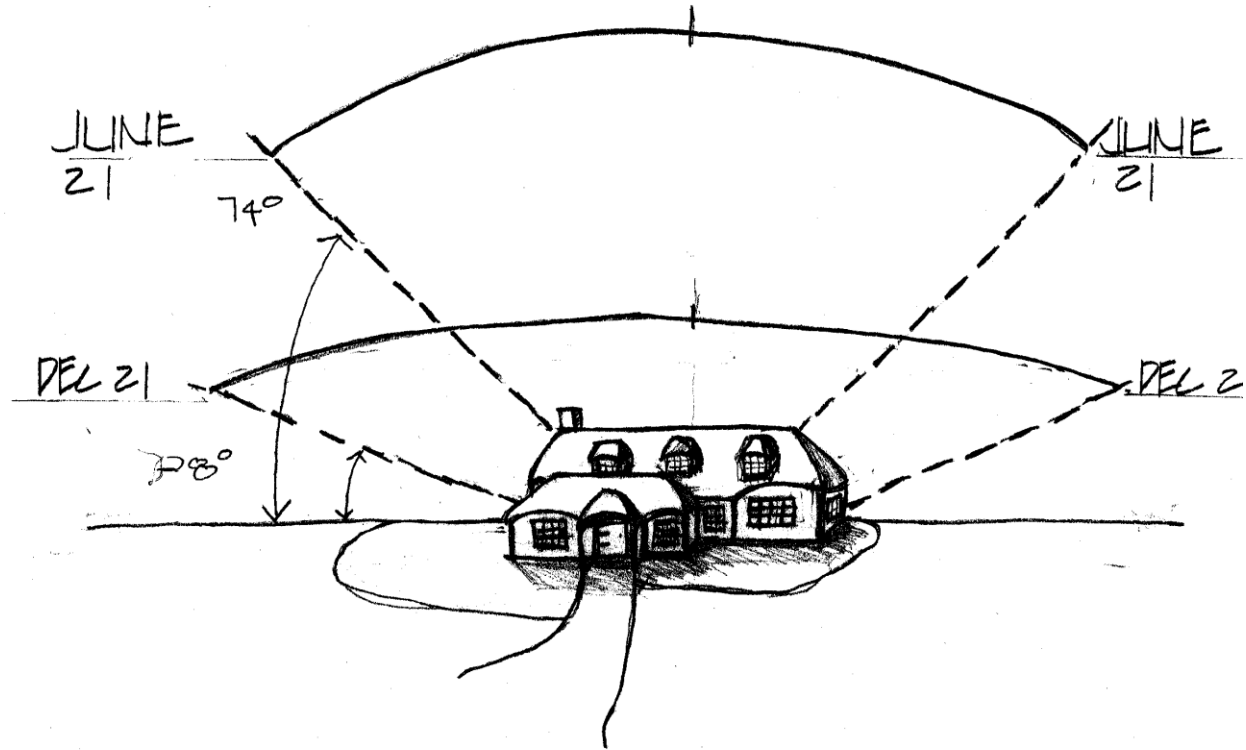
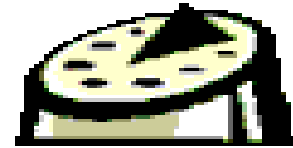
Topography



Topography

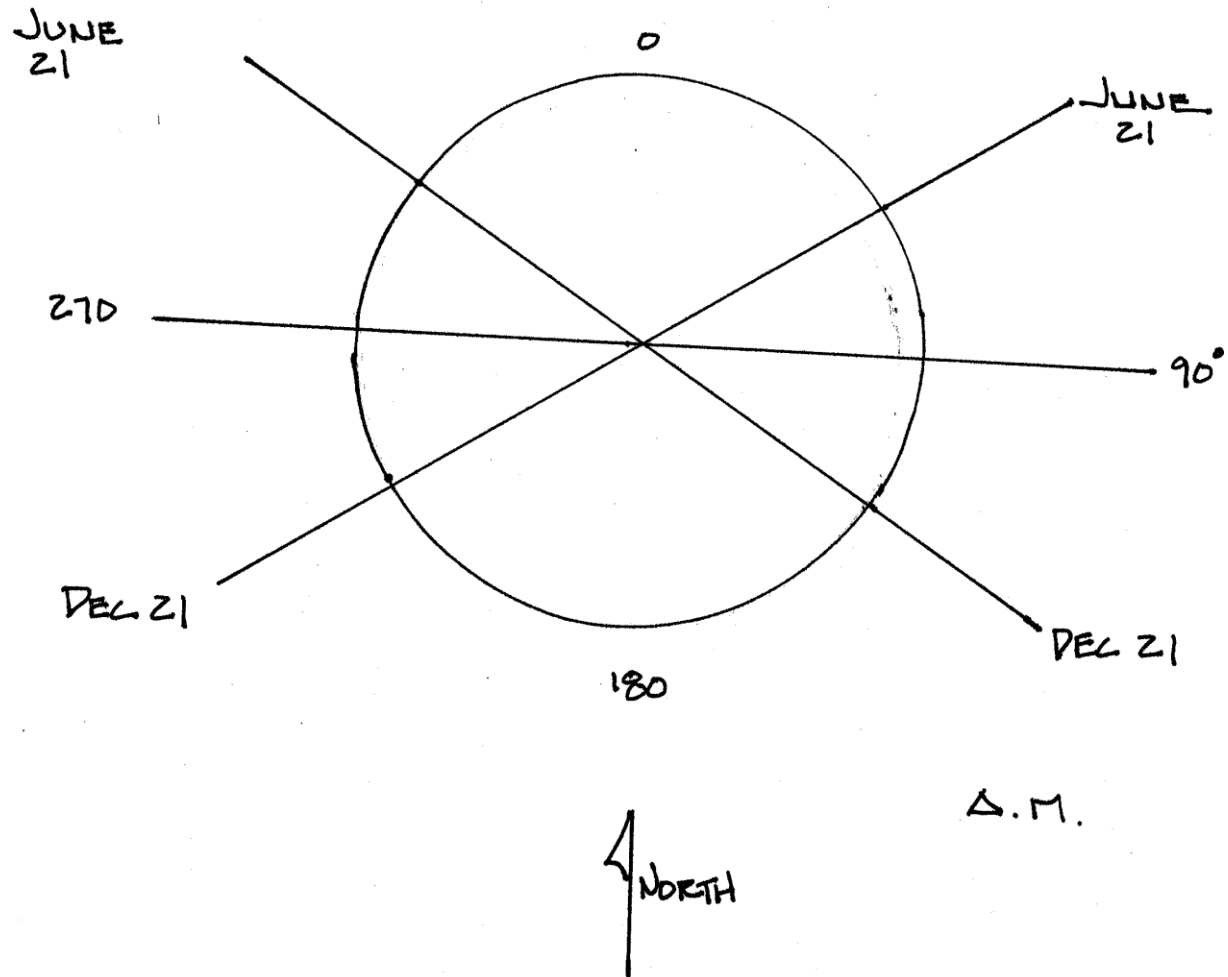
- ▶ **0-3%** flat to gently sloping, possible surface drainage problems, soil depth is greater here.
- ▶ **3-8%** gently sloping to rolling terrain, soil concentration in low areas.
- ▶ **8-15%** hilly, often rocky terrain, site modification cost increase. Soil depth is very limited.

Sun Angles



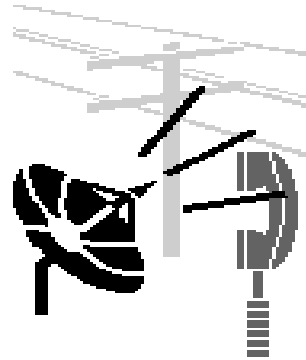
SUN ANGLES

Sun Angles



Utilities

- ▶ Utility easement.
- ▶ Under ground.
- ▶ Above ground.
- ▶ Permanent structures.
- ▶ Future.



Call Before You Dig

► Wyoming One Call **811**



Restrictions

- ▶ City and county regulations.
- ▶ Homeowner Associations.
- ▶ Trees.
- ▶ Lawn area.
- ▶ Landscape restrictions.

Historical Elements

- ▶ Old buildings.
- ▶ Rock formations.
- ▶ Historical markers.
- ▶ Registered buildings.

Existing Structures

- ▶ Wells.
- ▶ Septic tank.
- ▶ Leach field.
- ▶ Storage buildings/out buildings.

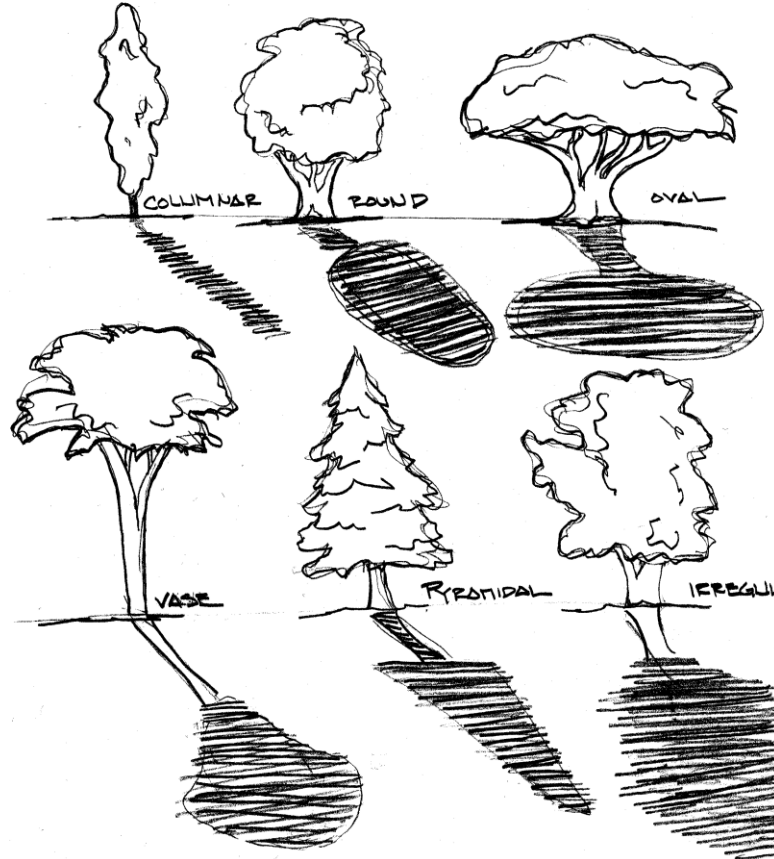
Existing Plant Locations

- ▶ Old plantings, trees & shrubs.
- ▶ Size of the plants.
- ▶ Health of the plants.
- ▶ Stage of development.
- ▶ Will new material fit in?
- ▶ If there isn't any plants on the site, why?

Will New Plants Fit In

- ▶ What will be the mature plant size?
- ▶ Shade and sunny locations.
- ▶ Will they adapt?

How Will New Plants Affect the Site



What Are the Soils?

- ▶ A good soil is one that has good structure and texture, is loose, and friable.
- ▶ Is high in organic matter and nutrient content.
- ▶ Retains water but is also well drained and high in oxygen content.
- ▶ Has a proper pH & EC to allow plant growth.

What Are the Soils?

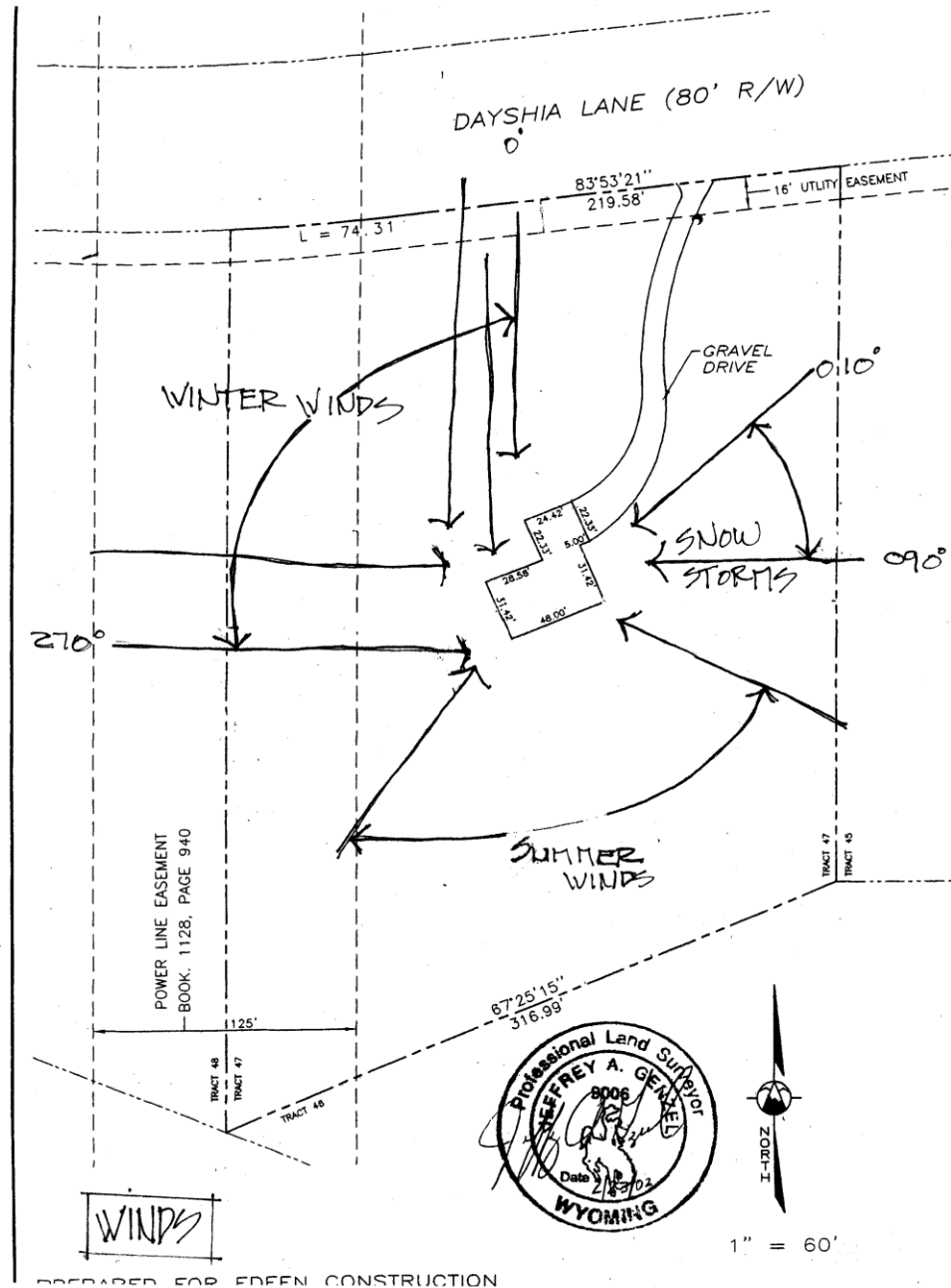
- ▶ What are your soils?
- ▶ Get a soil test.
- ▶ Has the soil been disturbed by construction?
- ▶ Is the soil compacted?

What is the Water Situation

- ▶ Has the water been tested?
- ▶ What is the water supply?
- ▶ Location, size, and capacity of the source of water.
- ▶ Quality of the water.
- ▶ Cost of obtaining the water.
- ▶ Location of all sources of existing water.

Macro & Micro Climates

- ▶ Different zones throughout the site.
- ▶ Each side of a structure will be different.
- ▶ Wind breaks will affect the climates.



Rain Shadows

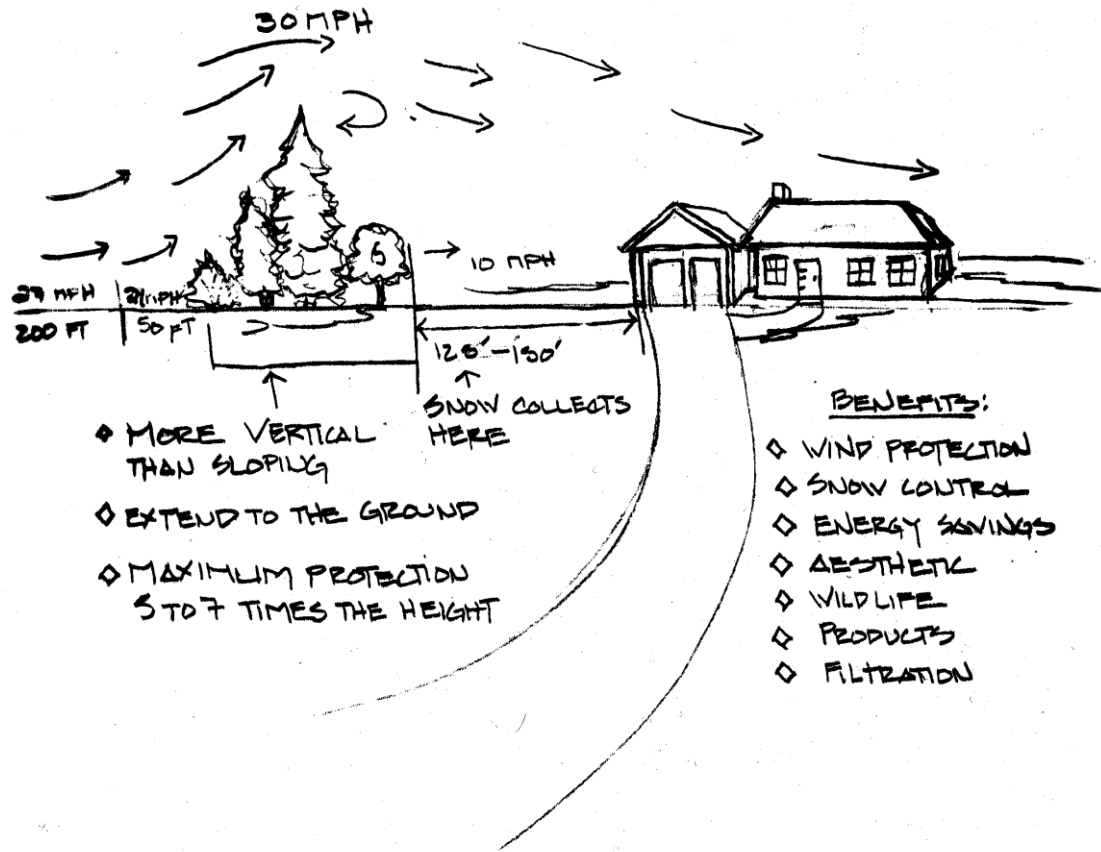


Cheyenne, WY

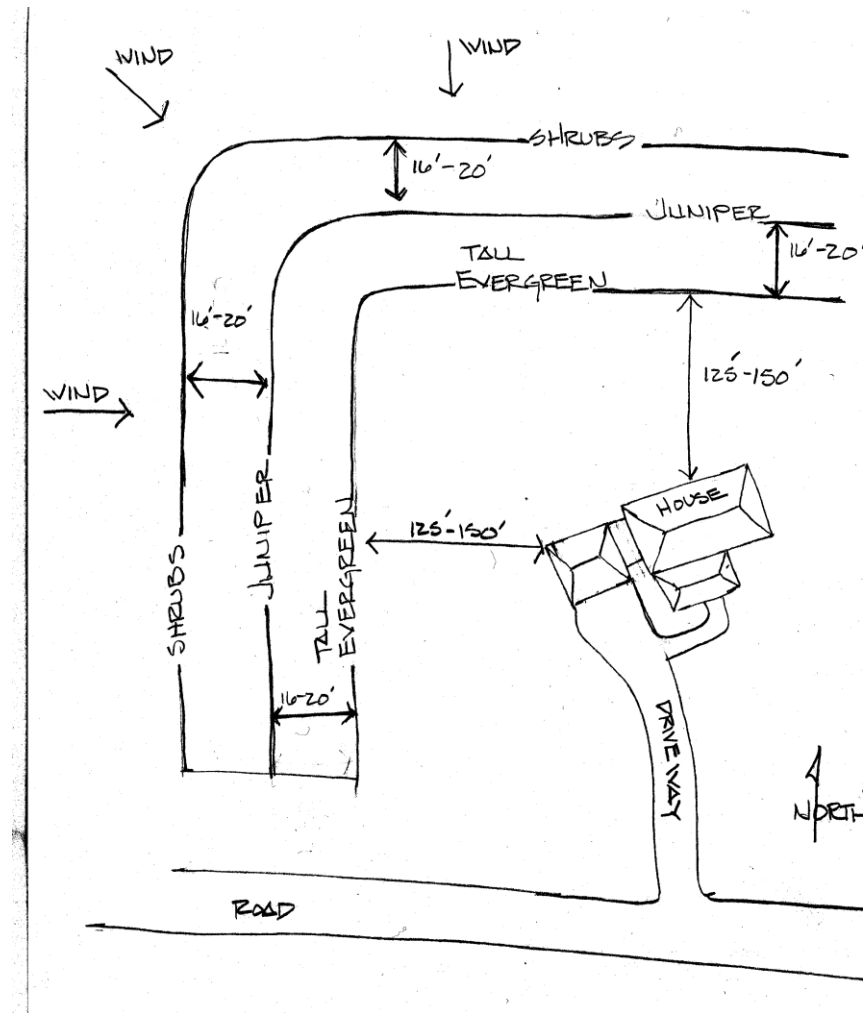
Laramie, WY

Windbreaks

WINDBREAK PROTECTION ZONE



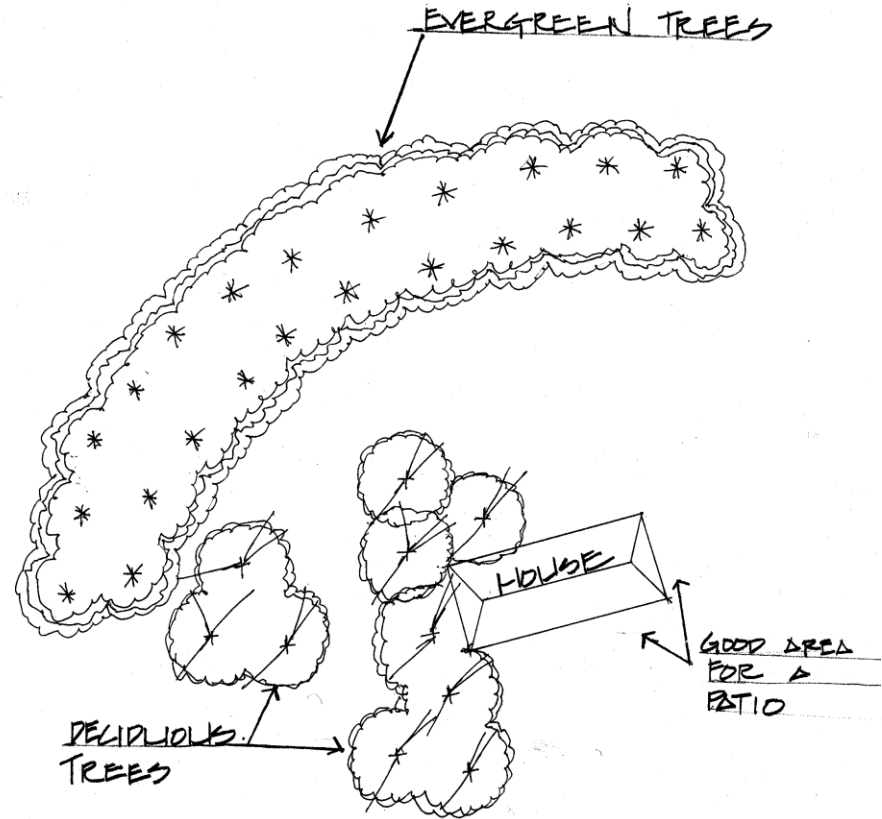
Windbreaks



Windbreaks



SIMPLE TWO ROW
WIND BREAK



Wildlife



- ▶ What is the existing wildlife?
- ▶ Is the existing wildlife a problem?
- ▶ Do you want to attract wildlife?

I could be worse!

