Arch 464 ECS Spring 00

Name		

Quiz #3

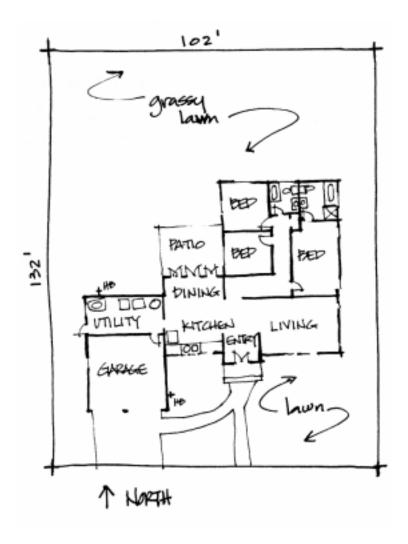
"Setting an Example of Wise Water Use"

For this problem you are the evapo-transpiration consultant to a civic group planning a water conservation demonstration project for a drought-stricken southern Idaho town, which averages 12 inches of rain each year during non-drought times.

The project is a typical 1950s ranch house with two-car garage and grassy lawn which has been donated to the group by a cowboy poet. The civic group wants to remodel the home and site to demonstrate actions typical homeowners can take to save water in their own homes and yards. Since it's a demonstration project, the design goal should be to minimize water use and to show a wide range of conservation strategies.

The site should be improved to include a small ampitheater and a vegetable garden.

The 2700 square foot house is connected to city water and sewer.



Existing Fixtures:

2 Bathrooms-

2 toilets

2 lavatories

2 tubs

shower

Kitchen-

sink

dishwasher

Utility Room-

utility sink

clothes washing machine

hot water heater

Outdoors-

2 hose bibs

Supply

1. Recommend two strategies for augmenting the city water supply and describe how they can be integrated into the demonstration house.

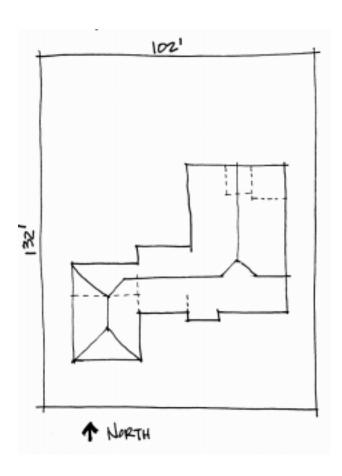
Building Water Use

2. Make three recommendations for reducing water use in the building.

3. Make three suggestions for water use on site that will either reduce use or improve quality.

Site Concept

4. On the site plan show the elements of your conceptual design for the demonstration project and and explain how all its elements are integrated.



2 points