

ELJEN

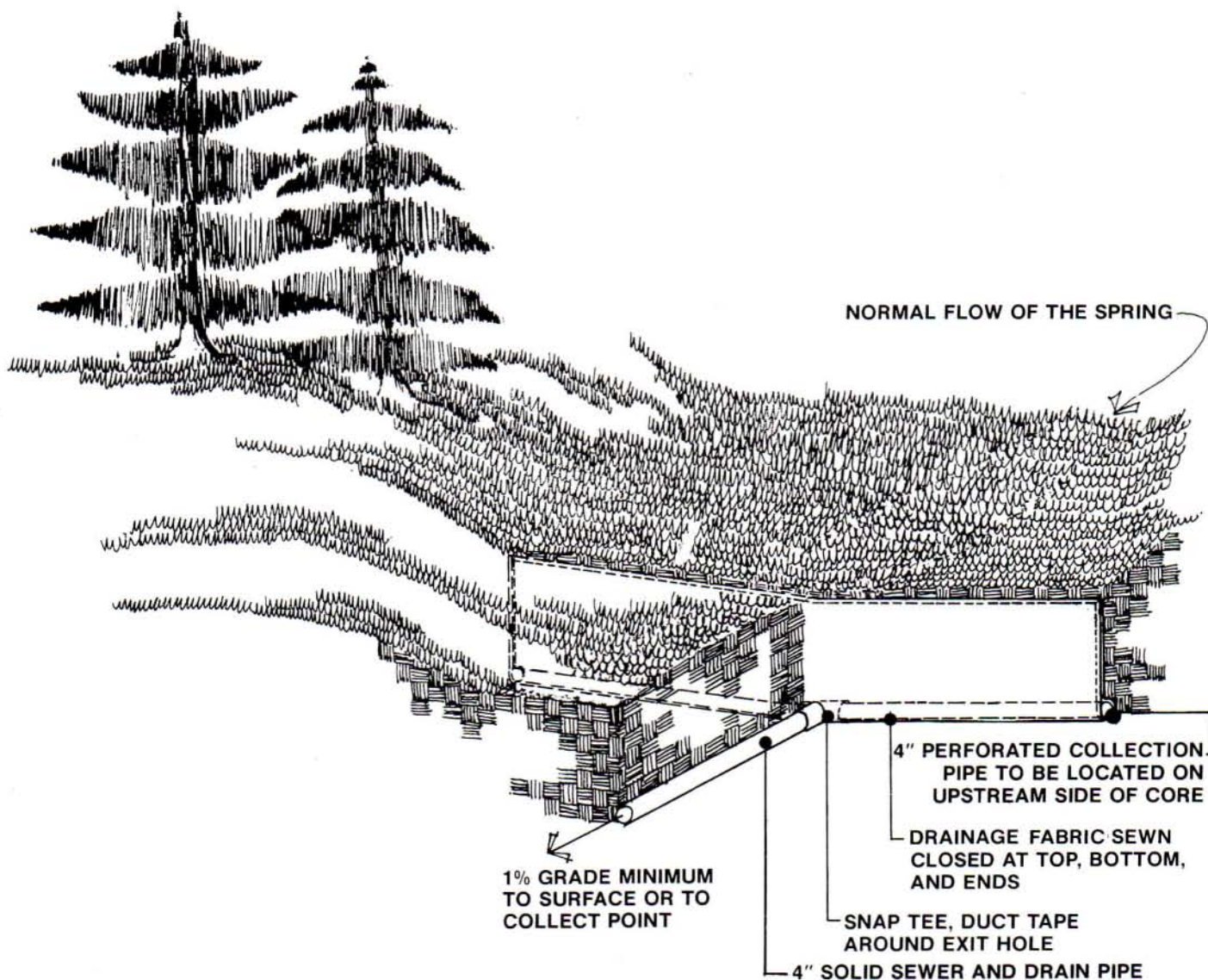
Leadership In Composite Drain Technology

SPRING INTERCEPTOR DRAIN

1. **Spring Location:** Locate the center of the area where the spring surfaces.
2. **Test Plan:** Measure out a series of test holes to be dug or drilled upslope from the visible center of the spring. On a slight slope space the holes 10' apart. On a steep slope place the holes 5' apart. Generally, three holes are enough upslope. If the spring surfaces in an undesirable area for intercepting, move upstream and continue.
3. **Preparation:** Remove the sod slightly larger than the diameter of the hole to be dug or drilled.
4. **Test Hole Depth:** Dig or drill the hole slowly down through the topsoil to the water-bearing strata. Continue with the test hole through the strata until you hit the hard subsoil layer or rock.
5. **Spring Depth:** Measure the depth of the water-bearing strata.
6. **Spring Source:** Continue with the test holes until you have satisfied yourself that you have located the spring source.
7. **Drain Material Depth (Height):** To determine the depth (height) of the Eljen Series EL00500 to be used: take the water-bearing strata depth and add 12". This will give you 6" below and 6" above the water-bearing strata.
8. **Location:** If possible, plan the Eljen installation out of your sod use area.
9. **Spring Width:** Repeat the process right and left to determine the width of the spring and the overall length of the Eljen Drain. On a spring having a width less than or equal to 15', add a minimum of 5' of length to the Eljen Drain, for a total drain length of 20'. On a spring having a width over 15', add a minimum of 10' of Eljen Drain material.
10. **Trenching:** Trench the location of the drain 6" deeper than the water-bearing strata, if possible. Curve the trench down and back uphill so when the trench is completed, it makes a slight elips or curve. Both end about 1' uphill with the center being downhill.

(OVER)

11. **Installation:** Lay out the Eljen panels down flat on the ground and slip the panels together to attain the total length of the Spring Interceptor Drain. Put a short strip of fabric duct tape on the top and bottom of each sheet to hold the drain together for installation. Mark the center location of the drain same as the center of the spring. Insert the desired pipe size and with a pocket knife, cut a four inch diameter hole through the core and fabric. Cut the pipe and insert the correct size tee, into the back side of the tee, insert the daylight (drain pipe). Duct tape around the pipe, taping the fabric to the pipe and tee. Then insert the complete drain into the excavation. Using the hanging straps, adjust the grade of the drain system so that both ends of the drain are higher than the center of the daylighting pipe. Run the daylight out until it surfaces or it may be tied into another system or drain line. Backfill with the excavated material. No rock is needed in the installation.
12. **Multi-Drains:** The daylight or drain pipes of several drains may be "T"d or "Y"d together into one pipe for disposal or collection of the water.



ELJEN SPRING INTERCEPTOR DRAIN APPLICATION OF EL00500 SERIES MATERIAL. A SERIES OF TESTS SHOULD BE PERFORMED PRIOR TO INSTALLATION.

- 1) LOCATE THE AREA WHERE THE SPRING SURFACES.
- 2) LOCATE THE CENTER OF THE SPRING WITH A SERIES OF TEST HOLES.
- 3) SPACE OUT THE TEST HOLES IN RELATION TO THE DEGREE OF SLOPE 5' OR 10' APART.
- 4) DIG OR DRILL TEST HOLES TO DETERMINE THE DEPTH AND LENGTH OF THE DRAIN PLUS 10'.
- 5) INSTALL THE ELJEN INTERCEPTOR DRAIN ACCORDING TO THE INSTRUCTION. (NO ROCK IS NEEDED).