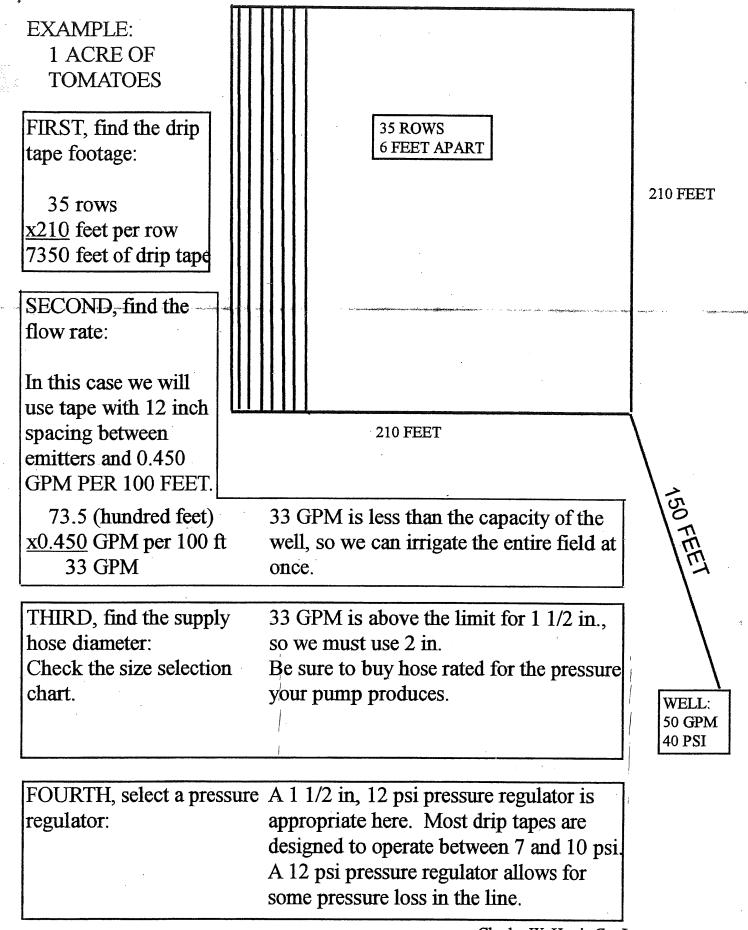
LAYING OUT A TRICKLE IRRIGATION SYSTEM

JIM PEELER CHARLES W. HARRIS CO., INC. 451 Old Somerset Ave. N. Dighton, MA 02764 508-824-5607 To design a drip irrigation system we need to know a few things about the field:

- 1. Crop
- 2. Row Length
- 3. Row Spacing
- 4. Predominant Soil Type
- 5. Elevation Changes in Field
- 6. Water Source
- 7. Distance From Water Source
- 8. Elevation From Water Source
- 9. Type of Pump and Power Source



No more decisions...

1	roll TSX 508-12-220 (7546 ft.) drip tape	\$149.00
1	roll 2" SF 10 layflat hose (300 ft)	180.00
35	0.400" barb x Tape Loc connectors	17.50
1	0.400" punch	19.00
1	1 1/2" 12 psi pressure regulator	24.21
1	1 1/2" 150 mesh screen filter	120.00
1	2" brass gate valve	11.77
2	3/4" pvc ball valves	10.72
1	Mazzei 584	44.50
	Assorted pipe fittings	30.00
Total Initial Cost		506.70
Annual Cost		149.00

WHAT IF THE WELL ONLY PRODUCES 12 GPM?

You have several options that can affect the total flow rate:

-Increase the emitter spacing to 16 inches.

This decreases the total flow rate to 25 GPM.

-Use drip tape with lower flow rate emitters:

16 inch spacing tape comes in either or 0.340 GPM PER 100 FEET 0.170 GPM PER 100 FEET

The lower flow rate decreases the total flow rate to 12.5 GPM, not quite low enough.

-Divide the field into irrigation zones:

With 2 zones, 12 inches between emitters and the lower flow rate of 0.220 GPM per 100 feet, the total flow rate is 8 GPM.