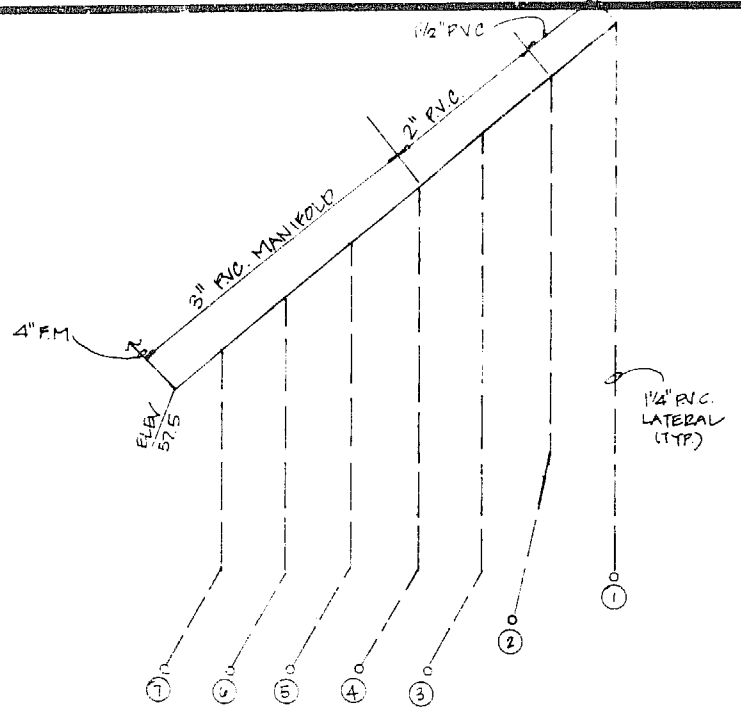
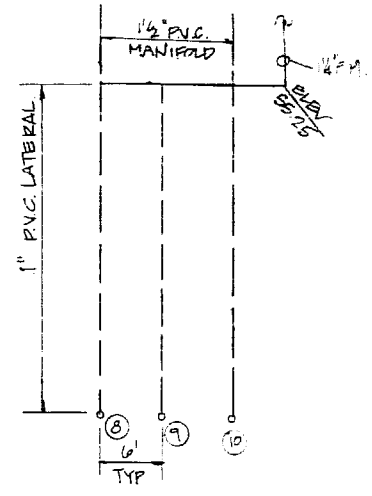


**SYSTEM DESIGN**

TRENCH #1	TRENCH LENGTH	TRENCH WIDTH	PERF DIA	NO OF PERF	PERF SPACING	LAT LENGTH	LAT DIA
1	8'	2'	1/4"	0	50	47.5	1 1/2"
2	8'	2'	1/4"	1	45	47.5	1 1/2"
3	8'	2'	1/4"	2	42	47.5	1 1/2"
4	11'	2'	1/4"	3	40	43.5	1 1/2"
5	35'	2'	1/4"	10	39	35.0	1 1/2"
6	30'	2'	1/4"	8	35	28.0	1 1/2"
7	30'	2'	1/4"	5	6	27.0	1 1/2"
8	30'	2'	1/4"	5	6	27.0	1 1/2"
9	30'	2'	1/4"	5	6	27.5	1 1/2"



**SYSTEM "A"**



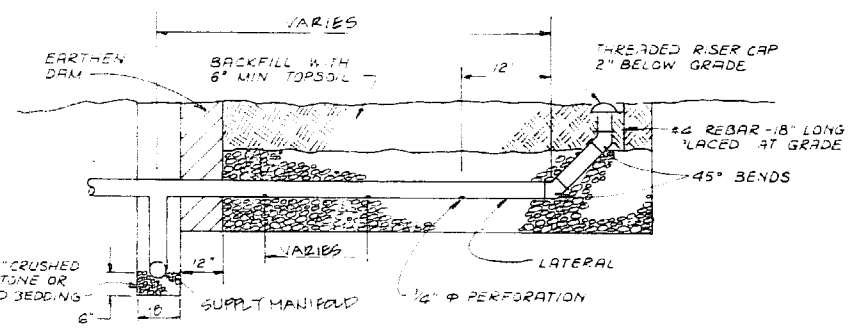
**SYSTEM "B"**

**SPECIFICATIONS**

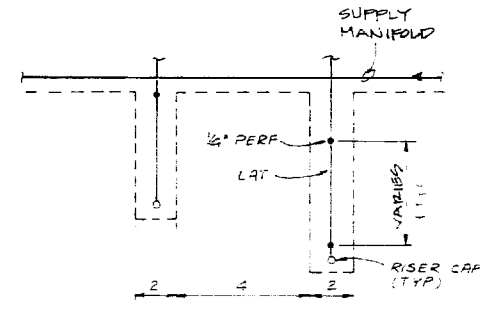
- NUMBER OF BEDROOMS : 3
- WASTEWATER FLOW PER BEDROOM : 60 GPD
- TOTAL WASTEWATER FLOW 360 GPD
- THE MANIFOLD PIPE LINE SHALL BE STRAIGHT LENGTH SCHEDULE 40 PVC.
- THE 1/4" LATERALS SHALL BE STRAIGHT LENGTH SCHEDULE 40 PVC WITH 1/4" BURR FREE AND COUNTERSUNK HOLES PLACED IN STRAIGHT LINE ALONG THE LONGITUDINAL AXIS OF THE PIPE.
- LATERAL PIPING SHALL BE PLACED AT SAME GRADE LEVEL BETWEEN MANIFOLD AND DISTAL END GRADE STAKES SHALL NOT BE PLACED ON CENTERS GREATER THAN 10 FEET
- PERFORATIONS SHALL BE 1/4" DIA AND SPACED AS SHOWN
- TOTAL AREA OF TRENCH IS 780 FT<sup>2</sup>
- TOTAL LENGTH OF TRENCH IS 390 FT
- TOTAL NUMBER OF TRENCHES IS 10 AT LENGTHS SHOWN
- WIDTH OF TRENCH IS 2' SEPARATION BETWEEN TRENCHES IS 6 FEET ± TO ±
- THE MINIMUM VOLUME PER DOSE IS 224 GAL
- 1 1/2" BY 4" SECTIONS OF PVC PIPE MUST BE PROVIDED THREADED (FEMALE) ON ONE END (4 REQ'D)
- ONE GALLON FLUSH TOILETS TO BE USED
- PUMP SIZE 1/2 HP @ 35 TPD

**GENERAL NOTES**

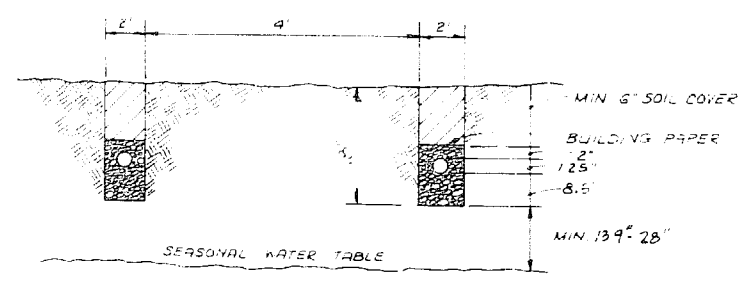
- SOILS DATA AND PERCOLATION TEST DATA WAS PREPARED BY DANNA REVIS : SOILS CONSULTANT
- ALL CONSTRUCTION OF THE LPD WASTEWATER SYSTEM SHALL BE IN ACCORDANCE WITH THE COMMONWEALTH OF VIRGINIA / STATE BOARD OF HEALTH SEWAGE HANDLING AND DISPOSAL REGULATIONS



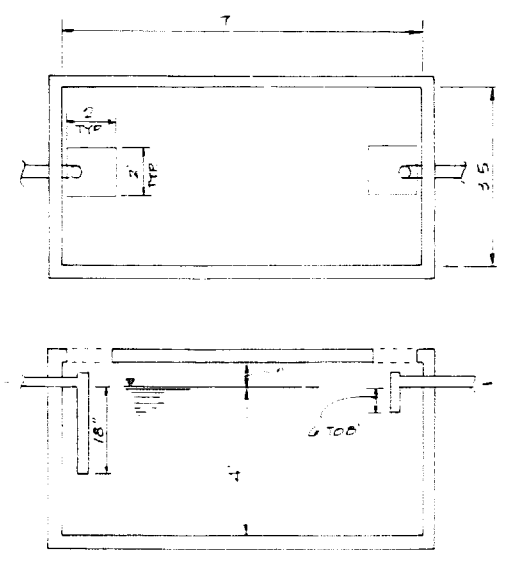
**X-SECTION LATERAL**



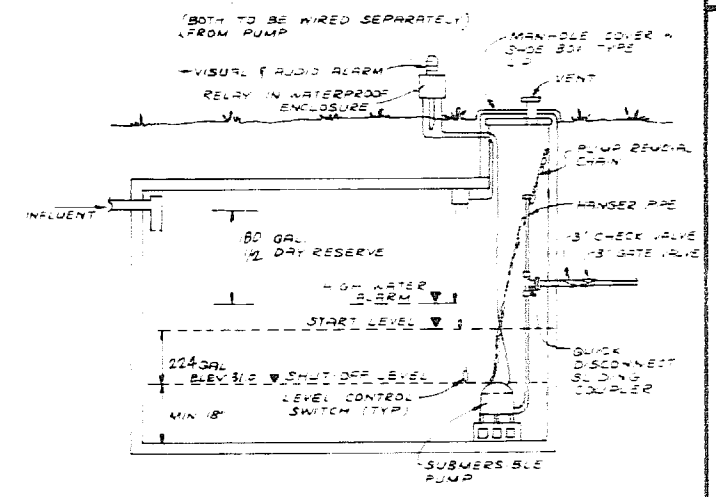
**L.P.D. LATERAL DETAIL**



**X-SECTION TRENCH**



**750 GAL SEPTIC TANK**



**750 GAL DOSE. CHAMBER**

**RICKMOND ENGINEERING INC.**  
 CIVIL ENGINEERING  
 ENVIRONMENTAL ENGINEERING  
 LAND DEVELOPMENT PLANNING

**GRAYSON PROPERTY**  
 WASTEWATER DISPOSAL SYSTEM