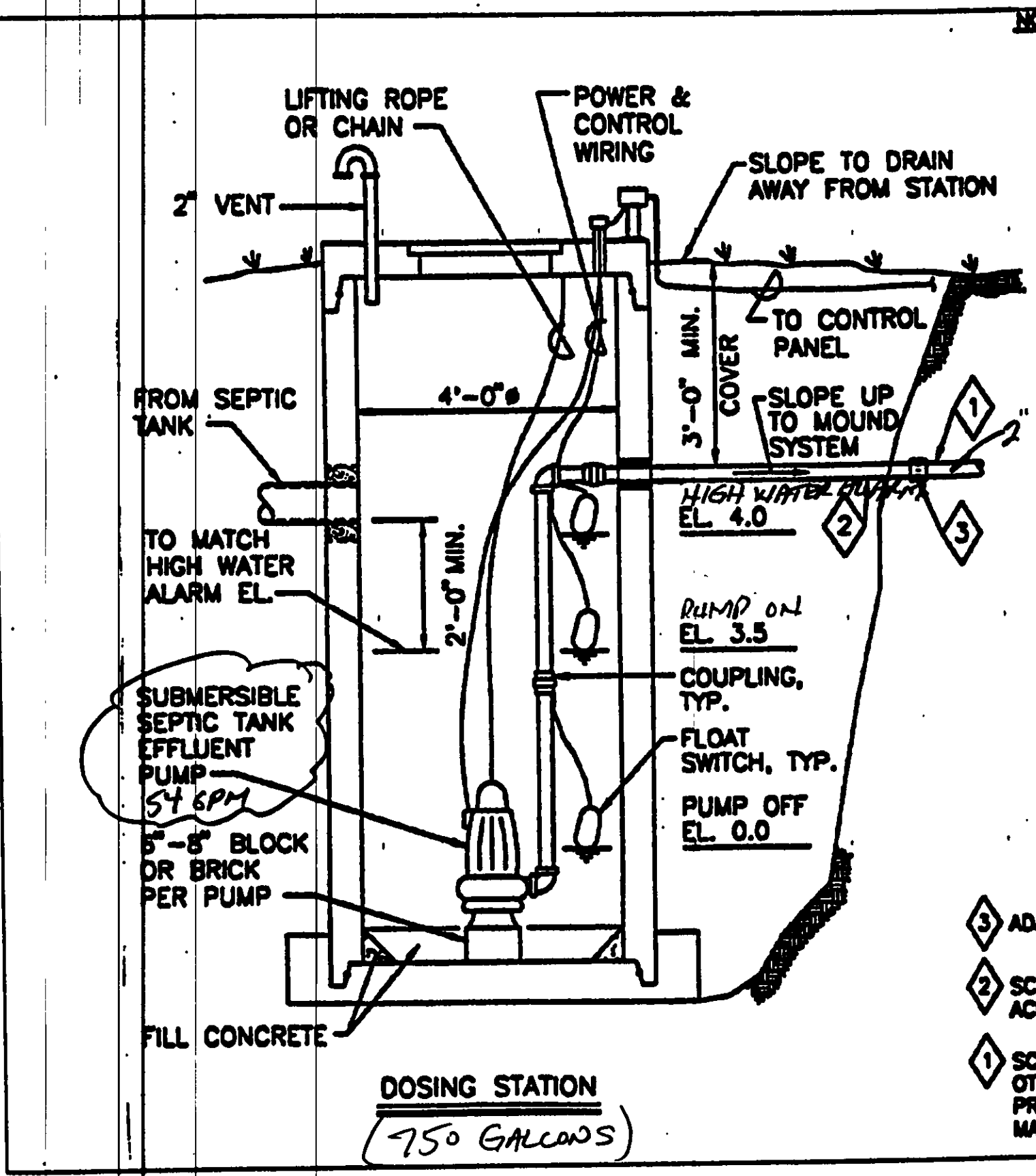




- NOTES:
1. DESIGN STATION AND BASE TO PREVENT FLOTATION IN AREAS OF HIGH GROUND WATER.
  2. ALL JOINTS AND PENETRATIONS SHALL BE WATER TIGHT TO PREVENT INFILTRATION OF GROUND/SURFACE WATER.
  3. STATION PUMP SHALL BE DESIGNED TO DOSE MOUND BASED ON THE TABLE BELOW:
- | TIME BETWEEN DOSES | MAX. GALLONS PER DOSE |
|--------------------|-----------------------|
| 3 BEDROOM          | 4 HOUR ~60            |
| 4 BEDROOM          | 3 HOUR ~40            |
| >4 BEDROOM         | 3 HOUR ~50            |
4. FORCE MAIN, DISTRIBUTION LATERAL DESIGN AND DETAILED STATION INCLUDING DIMENSIONS, AND ELEVATIONS AND OTHER APPROPRIATE DOCUMENTATION IN PLAN SUBMITTALS.
  5. INSTALLATION SHALL MEET ALL APPLICABLE CODES/CRITERIA.
  6. CONTROL PANEL WITH VISUAL AND AUDIBLE HIGH LEVEL ALARM SHALL BE LOCATED IN THE GARAGE, BASEMENT OR OTHER SUITABLE INDOOR LOCATION.
  7. SPECIAL CONSIDERATION SHALL BE GIVEN WHEN DESIGNING A DOWNHILL PUMPING APPLICATION TO PREVENT SIPHONING.
  8. WET WELL CAPACITY TO ACCOUNT FOR PIPING DRAINING BACK TO DOSING STATION.

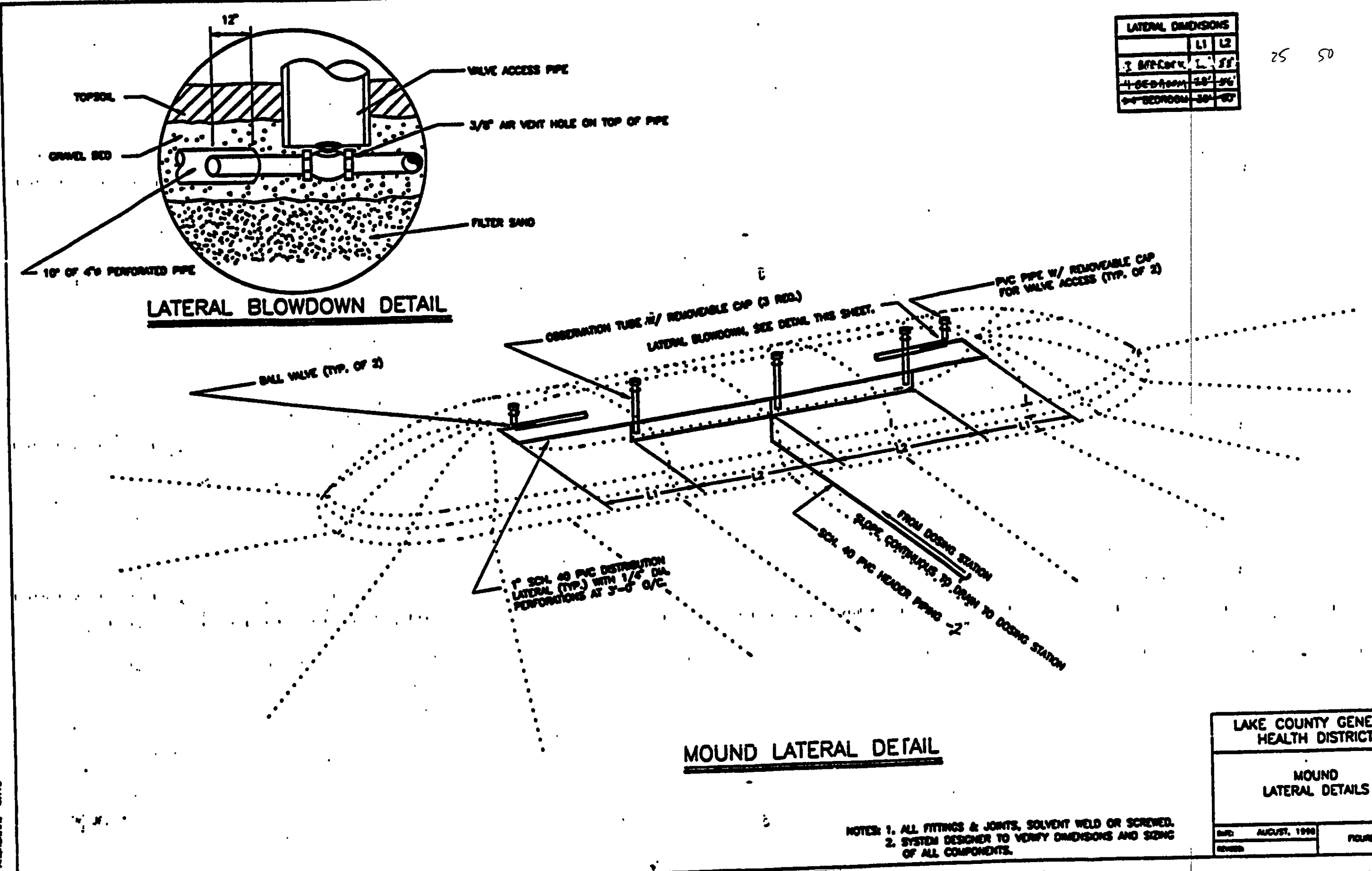
- 3 ADAPTER COUPLING.
- 2 SCHED. 40 GALV. STL. ACROSS EXCAVATION.
- 1 SCHED. 40 PVC OR OTHER APPROVED PRESSURE PIPE MATERIAL.

LAKE COUNTY GENERAL HEALTH DISTRICT

LAKE COUNTY MOUND SYSTEM DOSING STATION

DATE: AUGUST, 1998

FIGURE 11



LATERAL DIMENSIONS

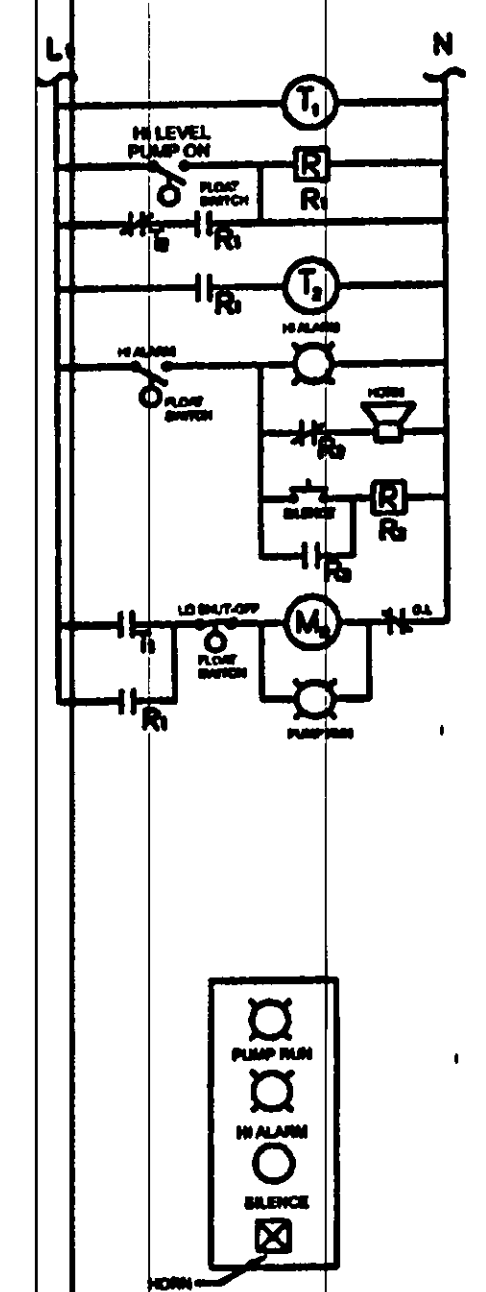
|            | L1  | L2  |
|------------|-----|-----|
| 3 BEDROOM  | 12' | 12' |
| 4 BEDROOM  | 12' | 12' |
| >4 BEDROOM | 12' | 12' |

LAKE COUNTY GENERAL HEALTH DISTRICT

MOUND LATERAL DETAILS

DATE: AUGUST, 1998

FIGURE 10



24 HR. TIMER W/ 0-5 ADJUSTABLE ON CYCLES

REPEAT CYCLE TIMER 0-5 MINUTES ADJUSTABLE 12 CONTACTS OPEN/CLOSE WHEN TIMED OUT

MOTOR STARTER RELAY OR ACROSS THE LINE STARTER DEPENDING ON PUMP MOTOR CHARACTERISTICS

MOUNT PANEL IN GARAGE, BASEMENT OR OTHER SUITABLE INDOOR LOCATION. ALL WIRING AND DEVICES SHALL MEET APPLICABLE CODES.

LAKE COUNTY GENERAL HEALTH DISTRICT

DOSING PUMP STATION ELECTRICAL SCHEMATIC

DATE: AUGUST, 1998

FIGURE 12

DESIGNED AND ACCEPTED  
LAKE COUNTY GENERAL HEALTH DISTRICT

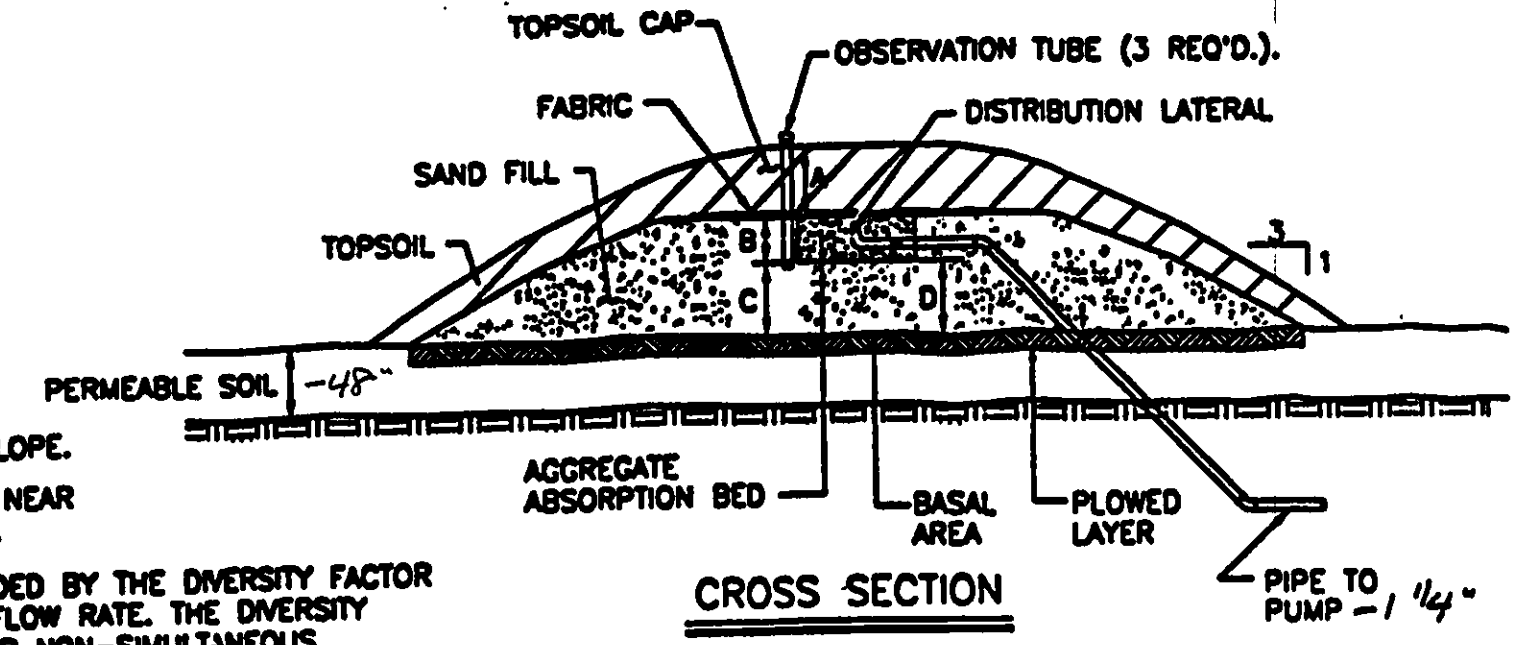
DATE: 2/27/02  
J. B. T. T. T.

SEWAGE DISPOSAL PERMIT MUST BE OBTAINED BY A LAKE COUNTY LICENSED INSTALLER BEFORE INSTALLATION IS STARTED

MINIMUM DIMENSIONS

|   |                      |
|---|----------------------|
| A | 1'-6"                |
| B | 9"                   |
| C | 1'-6" (NOTE 1) 3'-8" |
| D | 1'-6" (NOTE 1) 3'-8" |
| E | 3'-6"                |
| F | 11'-5" (NOTE 1 & 2)  |
| G | 11'-5" (NOTE 1 & 2)  |
| H | 11'-5" (SEE NOTE 1)  |
| I | 24'-0" (NOTE 1)      |

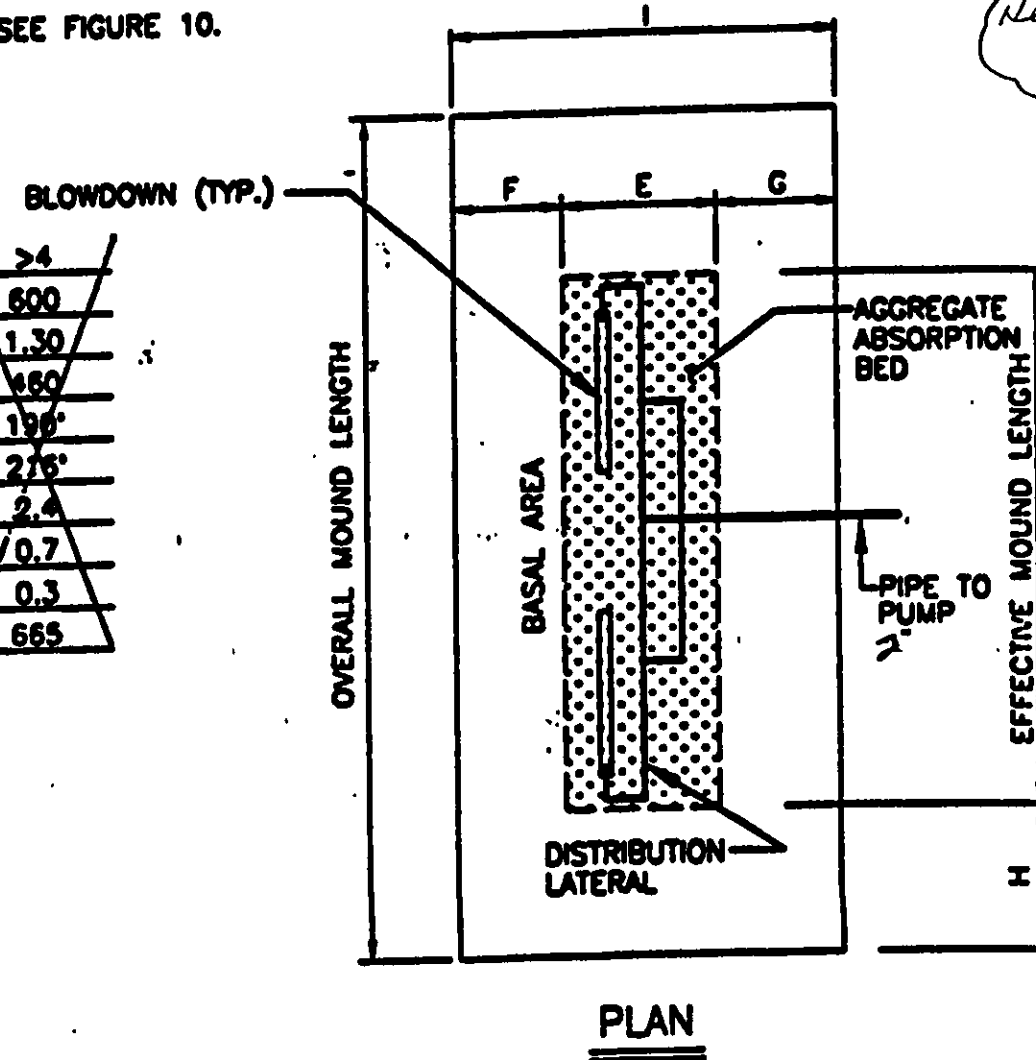
- NOTES:
1. NOMINAL ACTUAL MAY VARY WITH GROUND SLOPE.
  2. C = F ON LEVEL OR NEAR LEVEL BUILDING SITES.
  3. BASE FLOW RATE DIVIDED BY THE DIVERSITY FACTOR EQUALS THE DESIGN FLOW RATE. THE DIVERSITY FACTOR ACCOUNTS FOR NON-SIMULTANEOUS PEAKS AND TIMED DOSING.
  4. FOR PIPING DETAILS, SEE FIGURE 10.



NOTE: NEED 46" TO ROCK - C=1'-6"

MOUND CALCULATIONS

|                                     | 3       | 4    | 24   |
|-------------------------------------|---------|------|------|
| NUMBER OF BEDROOMS                  | 3       | 4    | 24   |
| BASE FLOW RATE (gpd)                | 360     | 480  | 600  |
| DIVERSITY FACTOR (NOTE 3)           | 1.0     | 1.15 | 1.30 |
| DESIGN FLOW RATE (gpd)              | 360     | 552  | 780  |
| EFFECTIVE MOUND LENGTH              | 180     | 190  | 190  |
| OVERALL MOUND LENGTH (NOTE 1)       | 172'-6" | 190' | 215' |
| DESIGN LINEAR LOADING RATE (gpd/ft) | 2.4     | 2.9  | 4.1  |
| DESIGN SAND LOADING RATE (gpd/sf)   | 0.7     | 0.7  | 0.7  |
| BASAL LOADING RATE (gpd/sf)         | 0.3     | 0.3  | 0.3  |
| ABSORPTION BED AREA (sf)            | 525     | 595  | 665  |



LAKE COUNTY GENERAL HEALTH DISTRICT

LAKE COUNTY MOUND SYSTEM DESIGN INFORMATION SHEET

DATE: AUGUST, 1998

FIGURE 9

| REV. NO. | DESCRIPTION                 | DATE    | BY | CHK'D |
|----------|-----------------------------|---------|----|-------|
| 1        | Revisions                   | 1/2/02  | HT | HT    |
| 2        | Revised per LC Health Dept. | 2/26/02 | HT | HT    |

**bj** BABCOCK, JONES AND ASSOCIATES, INC

CIVIL ENGINEERS - SURVEYORS - LAND PLANNERS

PAINESVILLE OHIO 44077

DATE: 12/19/01

DESIGN BY: H.J.

DRAWN BY: T.R.

APPROVED BY: H.J.

SITE PLAN FOR VAN WINKLE

LEBOY TOWNSHIP

LAKE COUNTY

2 OF 2