

Grading Plan Approved
by Thomas P. Gilles, P.E.
Lake County Engineer

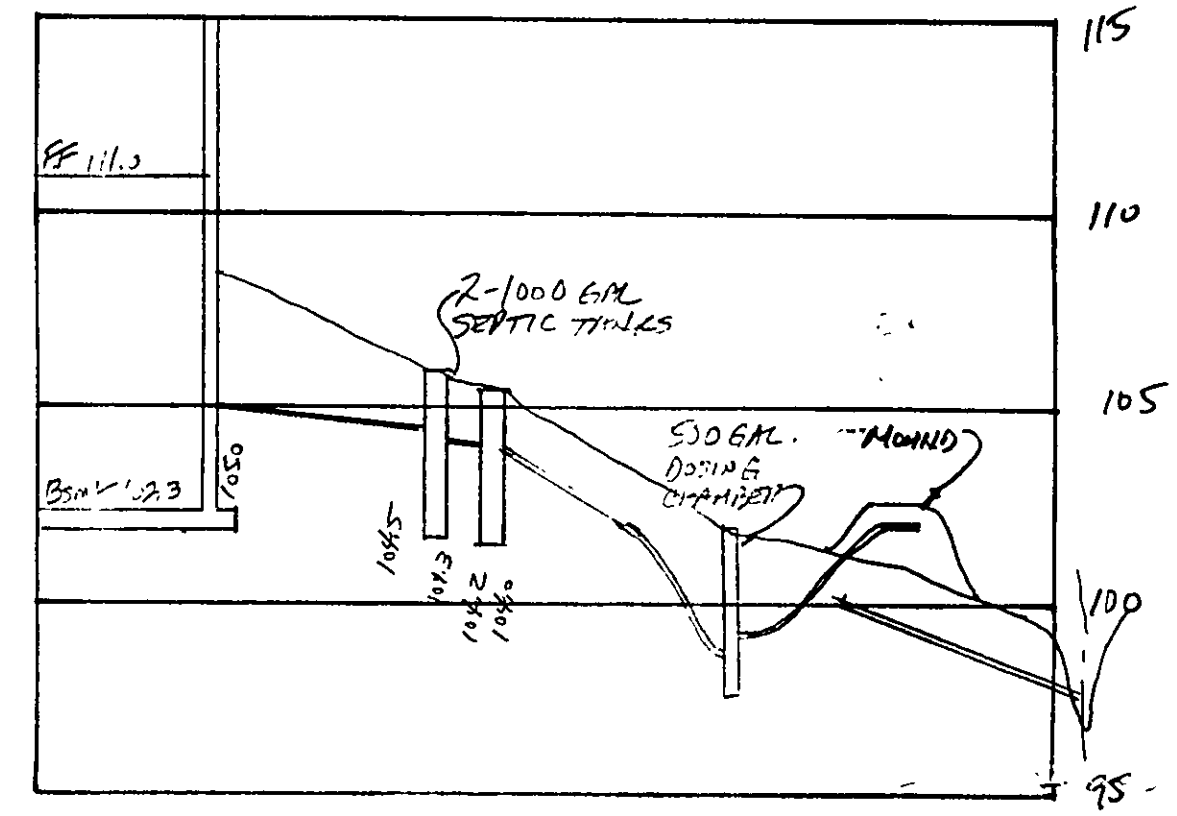
By 6.14 Date 2-12-98

ZONING PERMIT #0298-8967
ISSUED 2/12/98

SUBJECT TO APPROVAL BY:
Lake County Surveying Eng. ☒
Lake County Planning Comm. ☒
Lake County Engineering Dept. ☒
Lake County Building Dept. ☒

Inspections to be conducted by design engineer at the following phases of construction:

1. After preparation of basal area
2. After placement of the mound fill material and mound distribution laterals
3. After placement of remaining fill, topsoil & seeding



HYDRAULIC PROFILE
HORIZ: 1"=40' VERT: 1"=5'

REVIEWED AND ACCEPTED
LAKE COUNTY GENERAL
HEALTH DISTRICT
DATE 2-16-98 BY
Derek B. Davis
SEWAGE DISPOSAL PERMIT MUST BE
OBTAINED BY A LAKE COUNTY LICENSED
INSTALLER BEFORE INSTALLATION IS
STARTED

MOUND DIMENSIONS (FT.)									
A	4.0	F	0.75	J	11.25	B	17.0	G	1.0
C	1.0	H	1.5	K	15.0	D	1.0	I	12.0
E	1.2	L	143.0	W	27.25				

"I, the undersigned, hereby certify that this topographic map, or a portion thereof, was made by me or the day of FEB, 1998, and that the elevations were taken at appropriate intervals and that as of that date they existed as indicated hereon."

Name: Gary Judd Reg. No. 6343

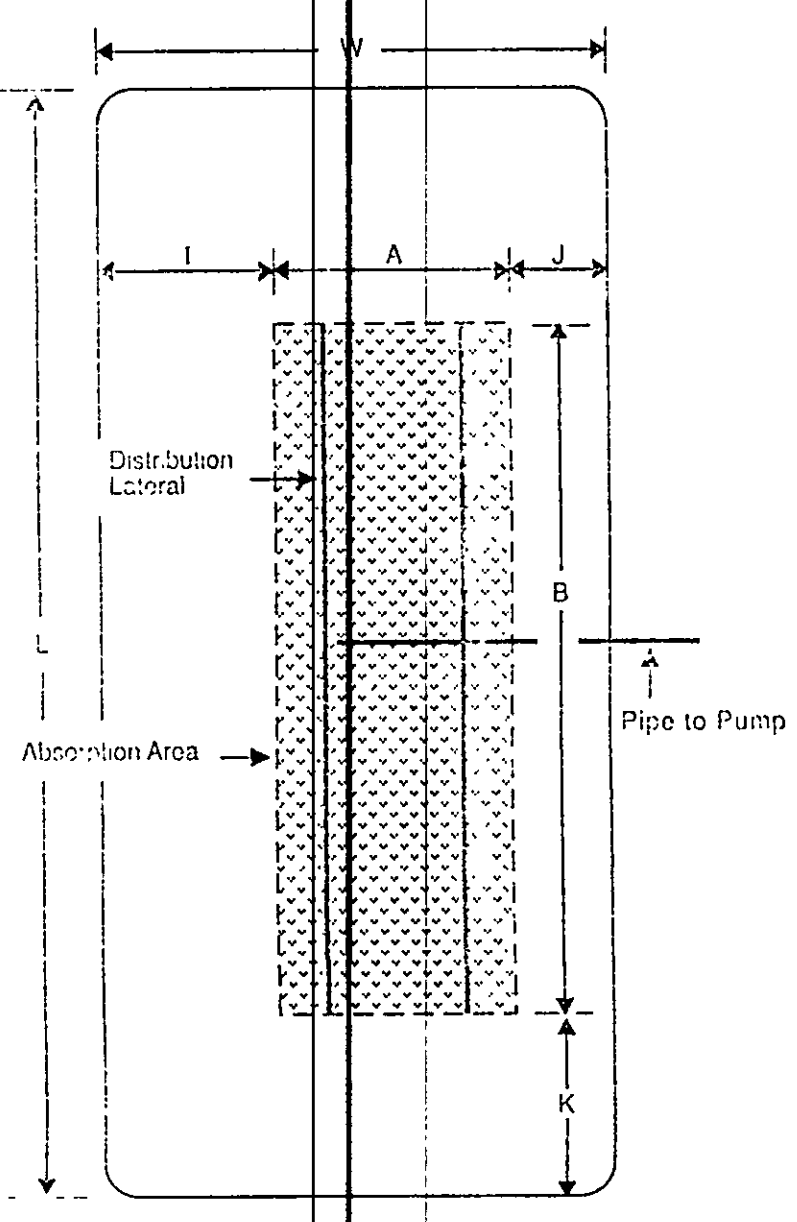


CONSTRUCTION NOTES

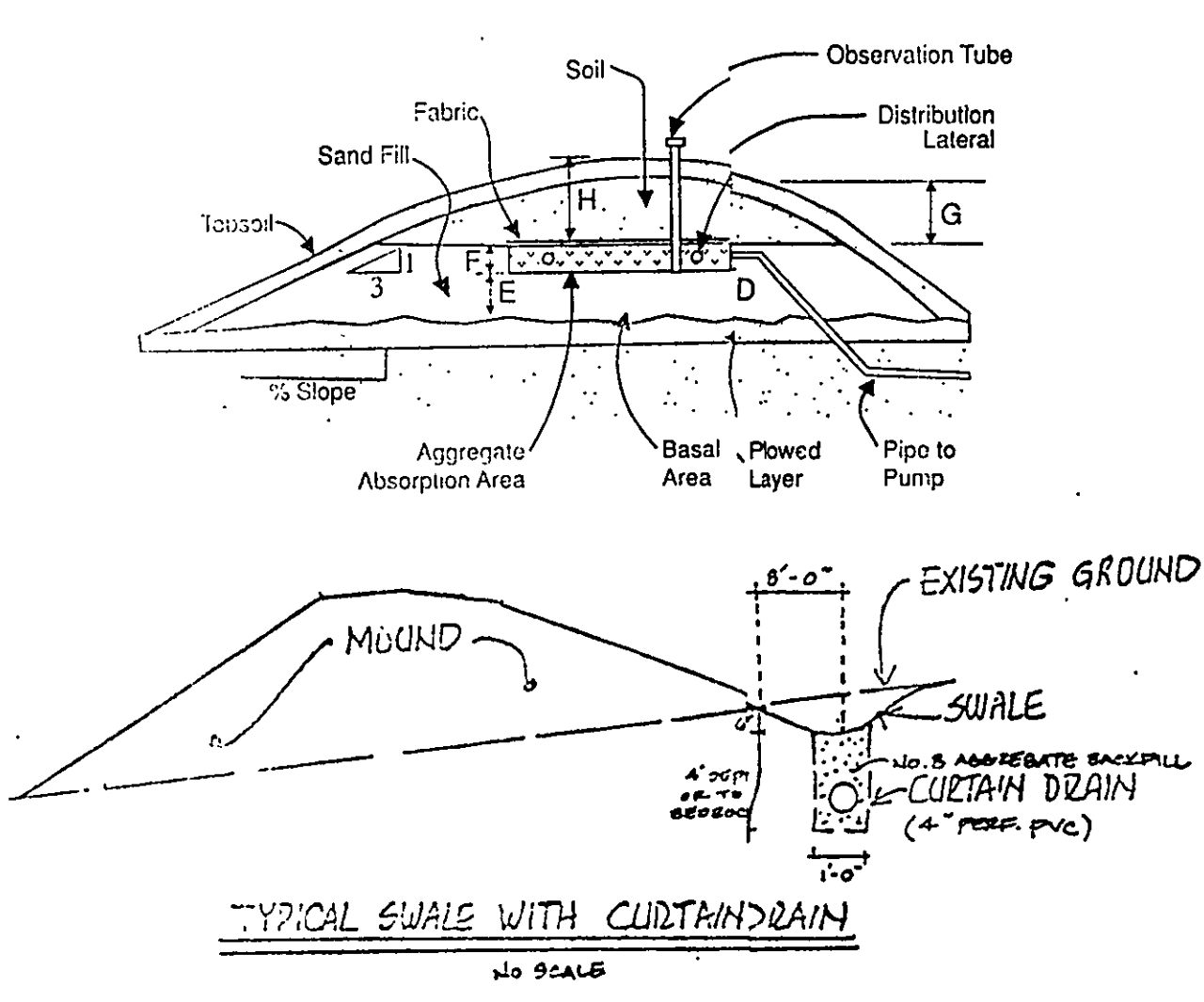
- LOCATION OF MOUND TO BE STAKED BY CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.
- MEASURE THE AVERAGE GROUND ELEVATION ALONG THE UPSLOPE EDGE OF THE UPPER TRENCH. BOTTOM ELEVATION OF THE TRENCHES TO BE A MINIMUM OF 18" ABOVE THIS ELEVATION AS SHOWN ON THE DETAIL.
- DETERMINE WHERE THE PPE FROM THE PUMPING CHAMBER CONNECTS TO THE DISTRIBUTION SYSTEM IN THE MOUND.
- TRENCH AND LAY THE EFFLUENT PPE FROM THE PUMPING CHAMBER TO THE MOUND. CUT AND CAP THE PPE ONE FT. BENEATH THE GROUND SURFACE. LAY PPE BELOW FROST LINE, SLOPING UNIFORMLY BACK TO THE PUMPING CHAMBER SO THAT THE LINE DRAINS AFTER DOSING, BACKFILL AND COMPACT SOL AROUND PPE TO PREVENT BACK SEEPAGE OF EFFLUENT ALONG THE PPE.
- CHECK THE MOISTURE CONTENT OF THE SOL AT 7-8 IN. DEEP. IF IT IS TOO WET, SKEWING AND COMPACTION WILL RESULT. SOL MOISTURE CAN BE DETERMINED BY ROLLING A SOL SAMPLE BETWEEN THE HANDS. IF IT ROLLS INTO A ROBBON, THE SITE IS TOO WET TO PREPARE. IF IT CRUMBLES, SOL PREPARATION CAN PROCEED.
- CUT TREES TO GROUND LEVEL. REMOVE EXCESS VEGETATION BY MOWING. PREPARE THE SITE USING A MOLDBOARD OR CHISEL PLOW BY PLOWING PERPENDICULAR TO THE SLOPE. ROTOTILLING THE SITE IS NOT PERMITTED. CONSTRUCTION OF THE MOUND SHALL BEGIN AS SOON AS THE BASE AREA HAS BEEN PLOWED. THE CONTRACTOR SHALL AVOID CUTTING OF PLOWED AREA WITH VEHICULAR TRAFFIC.
- EXTEND THE EFFLUENT PPE TO SEVERAL FEET ABOVE THE GROUND SURFACE.
- PLACE THE FILL MATERIAL, WHICH HAS BEEN PROPERLY SELECTED AROUND THE EDGE OF THE PLOWED AREA. KEEP WHEELS OF TRUCK OFF PLOWED AREAS. MINIMIZE TRAFFIC ON THE DOWNSLOPE SIDE OF THE MOUND. WORK FROM THE END AND UPSLOPE SIDE.
- MOVE THE FILL MATERIAL INTO PLACE USING A SMALL TRACK TYPE TRACTOR WITH A BLADE. ALWAYS KEEP A MINIMUM OF 6" OF SAND BENEATH TRACKS TO PREVENT COMPACTION OF THE NATURAL SOL.
- PLACE THE FILL MATERIAL TO THE REQUIRED DEPTH WHICH IS THE TOP OF THE TRENCHES. SHAPE SIDES TO THE DESIRED SLOPE.
- WITH THE BLADE OF THE TRACTOR, FORM THE TRENCHES. HAND LEVEL THE BOTTOM OF THE TRENCHES. THE BOTTOMS SHALL BE AT THE SAME ELEVATION AND LEVEL.
- PLACE THE COARSE AGGREGATE IN THE TRENCHES. AGGREGATE SHALL BE 1/2 IN. NON-DETERIORATING AGGREGATE.
- PLACE THE DISTRIBUTION SYSTEM ON THE AGGREGATE. CONNECT THE MANFOLD TO THE PPE FROM THE PUMPING CHAMBER. SLOPE MANFOLD TO EFFLUENT PPE. LAY LATERALS LEVEL, REMOVING RIDGES AND DIPS.
- PLACE 2 IN. OF AGGREGATE OVER THE DISTRIBUTION PPE.

- PLACE 4-5 IN. OF UNCOMPACTED STRAW OR MARSH HAY, UNTREATED BUILDING PAPER OR A SYNTHETIC FARBAG, SUCH AS TYPAR, MARAP OR THE EQUIVALENT OVER AGGREGATE.
- PLACE SOL ON TOP OF THE TRENCHES TO A DEPTH OF 1 FT. IN THE CENTER AND 6 IN. AT THE OUTER EDGE OF THE TRENCHES. THIS MAY BE A SUBSOL OR TOPSOL.
- PLACE 6 IN. OF GOOD QUALITY TOPSOL OVER THE ENTIRE MOUND SURFACE. THIS WILL RAISE THE ELEVATION AT THE CENTER OF THE MOUND TO A MINIMUM OF 15 FT. AND THE OUTSIDE EDGES OF THE TRENCHES TO 1 FT.
- LANDSCAPE THE MOUND BY SEEDING AND MULCHING. A MIXTURE OF SOL BROODPOOT TREESOL AND 10% TIMOTHY MAY BE USED IF THE MOUND WILL NOT BE MANICURED. IF MANICURING IS DESIRED, A COMBINATION OF 60% BLUEGRASS, 30% CREEPING RED FESCUE AND 10% ANNUAL RYE GRASS MAY BE USED. SHRUBS CAN BE PLANTED AROUND THE TOP OF THE MOUND. THEY SHOULD BE SOMEWHAT MOISTURE TOLERANT SINCE ALL LAWS AND RULES OF THE LAKE COUNTY GENERAL HEALTH DISTRICT AND THE OHIO DEPARTMENT OF HEALTH PERTAINING TO INDIVIDUAL SEWAGE DISPOSAL AND WATER SUPPLY SYSTEMS SHALL BE FOLLOWED.
- BUILDING CONSTRUCTION SHALL COMPLY TO ALL APPLICABLE REGULATIONS OF THE LAKE COUNTY BUILDING DEPARTMENT.
- RESIDENCE MUST UTILIZE WATER SAVING TOILETS, SHOWER-HEADS, AND FAUCETS.
- DRAINAGE IMPROVEMENTS OR CHANGES FROM EXISTING GRADE NOTED ON THE APPROVED PLAN SHALL BE INSTALLED PRIOR TO SEWAGE DISPOSAL SYSTEM CONSTRUCTION.
- NO OPEN BURNING WILL OCCUR DURING CONSTRUCTION.
- DOWNSPOUTS AND FOOTER DRAINS SHALL BE CONNECTED TO THE MOUND SYSTEM CURTAIN DRAIN AS SHOWN ON THE PLANS.
- SURFACE WATER SHALL BE DIVERTED AWAY FROM THE MOUND AREA BY THE USE OF SWALES.
- SEWAGE LIFT PUMP SHALL BE CAPABLE OF LIFTING RESIDENTIAL SEWAGE EFFLUENT AT A RATE OF 44 GPM AT 10' OF HEAD. THE PUMPING CHAMBER SHALL HAVE A MINIMUM CAPACITY OF 500 GALLONS. THE FLOW LEVELS SHALL BE ADJUSTED TO PROVIDE FOR A 100 GALLON DOSING VOLUME TO THE MOUND.
- ELECTRICAL WORK & EQUIPMENT SHALL CONFORM WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE.
- MECHANICAL COMPONENTS SHALL BE INSTALLED IN A PROPERLY VENTED LOCATION AND ALL VENTS, AIR INTAKES AND AIR HOSES SHALL BE PROTECTED FROM SNOW, ICE OR WATER VAPOR ACCUMULATIONS. INSTALLATION SHALL BE MADE TO MINIMIZE RELEASE OF ODORS AND AREOSOLS.
- MECHANICAL COMPONENTS INSTALLED IN OR AT THE SEWAGE TANK SHALL BE PROTECTED AGAINST DAMAGE OR IMPAIRMENT OF EFFICIENCY BY FLOODING, FOAMING OR SURCHARGING. PUMPS MUST BE READY REMOVABLE FROM THE MANHOLE IN CASE OF PUMP FAILURE.

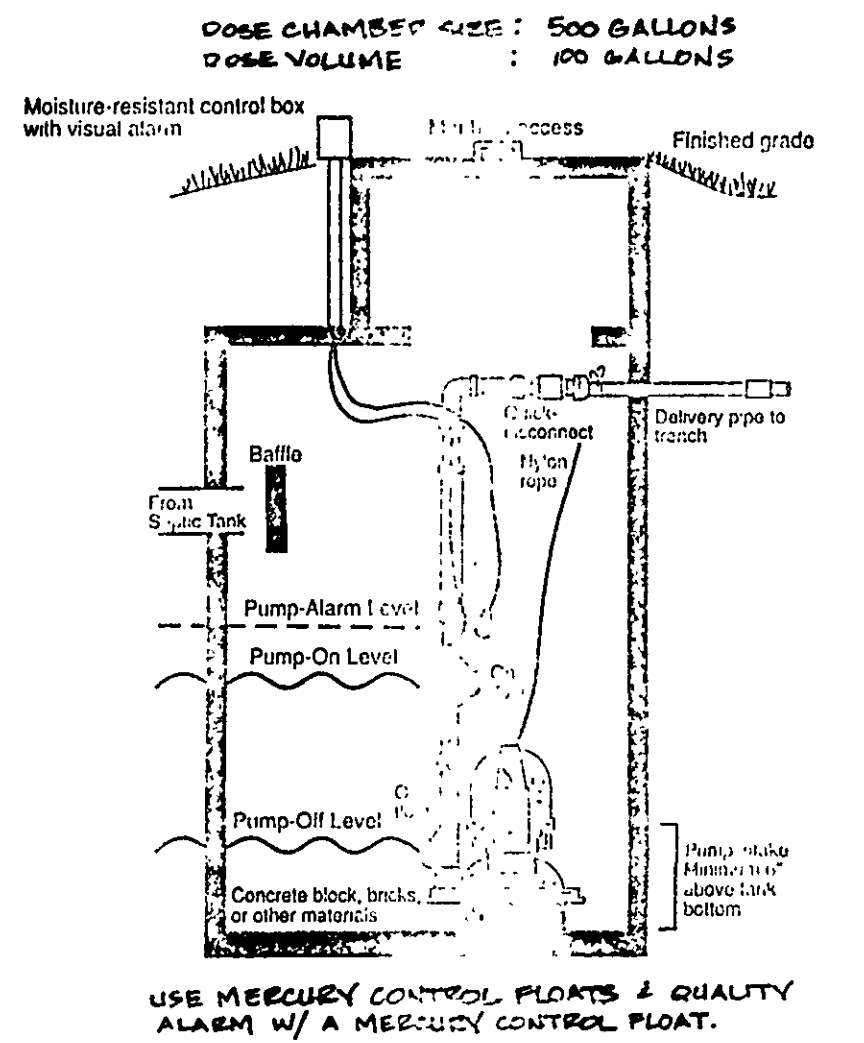
PLAN VIEW - MOUND



CROSS SECTION - MOUND



TYPICAL CROSS SECTION
DOSE CHAMBER W/ PUMP & CONTROL UNIT



USE MERCURY CONTROL FLOATS & QUALITY ALARM W/ A MERCURY CONTROL FLOAT.

REV. NO.	DESCRIPTION	DATE	BY	CHK'D

babcock BABCOCK, JONES AND ASSOCIATES, INC
CIVIL ENGINEERS - SURVEYORS - LAND PLANNERS
PAINESVILLE OHIO 44077

DATE 1/5/98
DESIGN BY H.J.
DRAWN BY T.R.
APPROVED BY H.J.

SITE PLAN
FOR
GARY JUDD

GRIDDED ROAD CONCORD TOWNSHIP LAKE COUNTY

SCALE 1"=40'
JOB NO 98-012
SHEET 1 OF 1