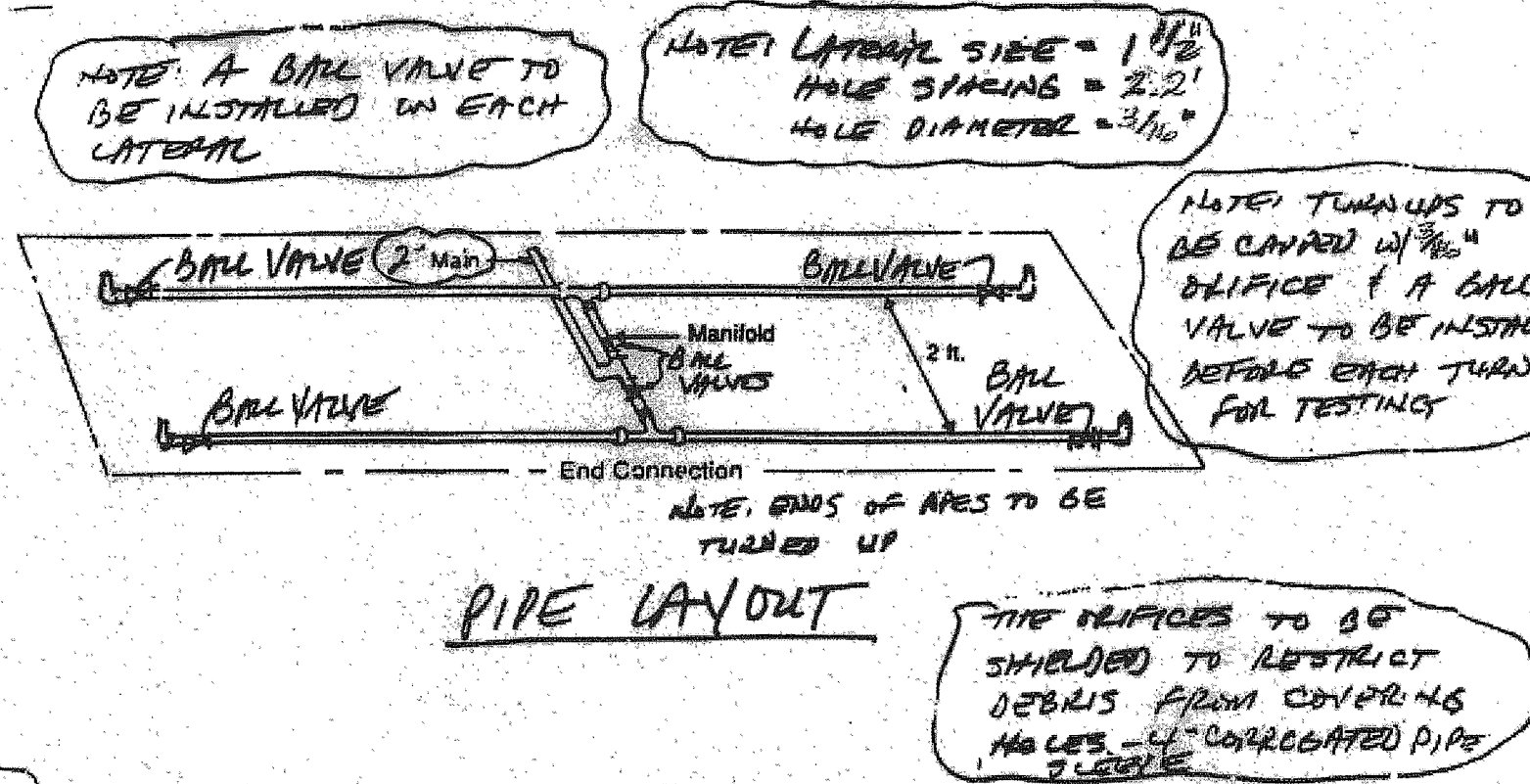


NOTES:

1. 50% INSTALLER TO CONSULT WITH 50% DESIGNER FOR ANY CHANGES
2. 50% AND DUPLICATION AREAS HAVE BEEN MARKED OFF TO PROHIBIT DISTURBANCE OF AREA DURING HOME CONSTRUCTION.
3. INSTALLER TO PROVIDE AS-BUILT OF 50% SYSTEM TO HOME OWNER AND LAKE COUNTY HEALTH DEPARTMENT.
4. SEPTIC APPROVAL IS GOOD FOR A 1 YEAR PERIOD.
5. SWITCHES, CONTROLS, ALARMS & ELECTRICAL COMPONENTS SHALL BE UL OR CSA LISTED PRODUCTS, NATIONAL ELECTRIC CODE 3701-29-11-E-G.
6. AN EFFECTIVE SAND FILL MATERIAL SHALL BE AN EFFECTIVE SIZE IN THE RANGE OF 0.15 MM TO 0.30 MM. A UNIFORMITY COEFFICIENT IN THE RANGE OF 4-6. NO MORE THAN 20% BY WEIGHT IS GRAVEL GREATER THAN 2 MM AND NO MORE THAN 5% BY WEIGHT IS SILT AND CLAY LESS THAN 0.053 MM PER 3701-29-13.2 (2).
7. FOR THE START-UP, CONTRACTOR SHALL MEASURE DOING FLOW RATE, FLUSHING FLOW RATE AND A METER READING FOR THE LAKE COUNTY HEALTH DEPARTMENT.
8. HOME OWNER SHALL CONTRACT WITH A CERTIFIED SERVICE PROVIDER FOR MAINTENANCE AND OPERATION OF SEWAGE SYSTEM. INSPECTION OF SYSTEM WILL BE BY CERTIFIED SERVICE PROVIDER AND REPORTS ARE TO BE SUBMITTED TO THE LAKE COUNTY HEALTH DEPARTMENT.

b. Sand Fill - The mound sand fill depth shall be determined based on the depth to the limiting conditions. The sand fill depth shall not exceed two feet and shall not be less than four inches. The loading rate for the sand fill material shall not exceed 1.0 gpd/ft². For the purpose of this document, natural sand is defined as naturally deposited silica based sand not manufactured by mechanical processing such as the crushing of rock or coarse aggregates. The mound sand fill shall be a natural sand meeting one the following:

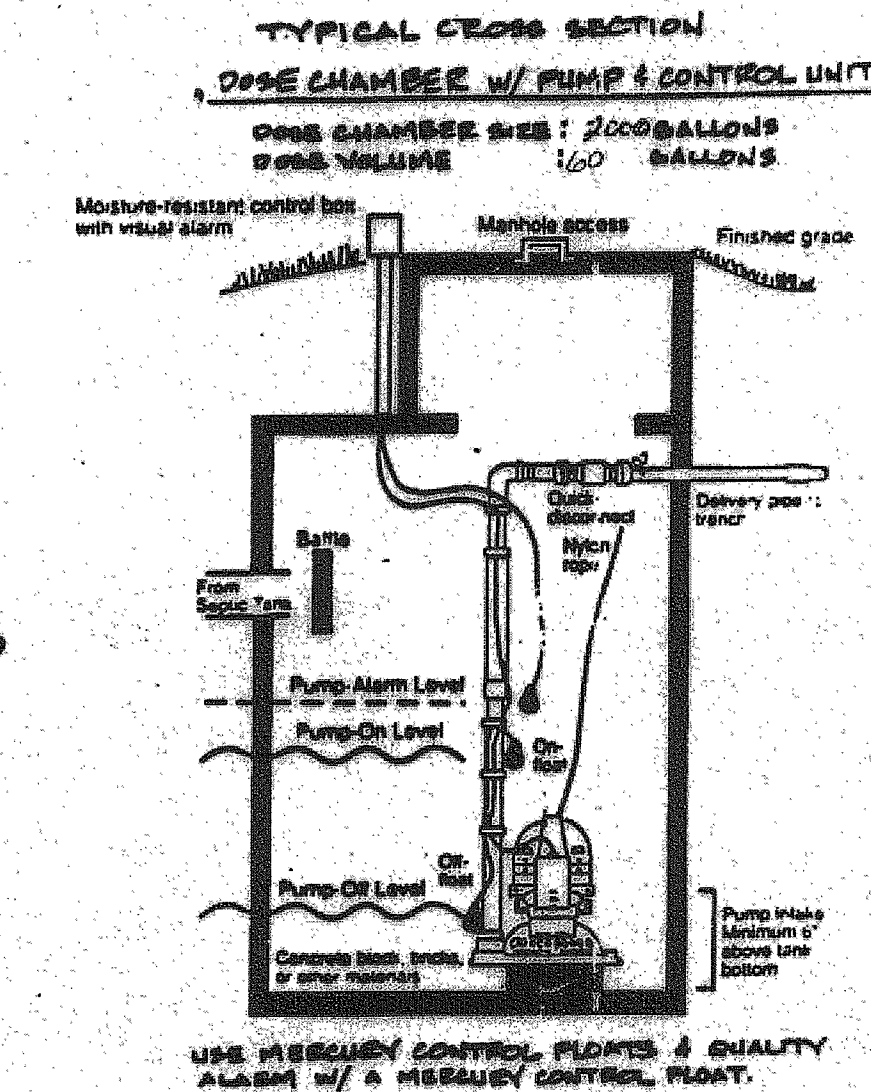
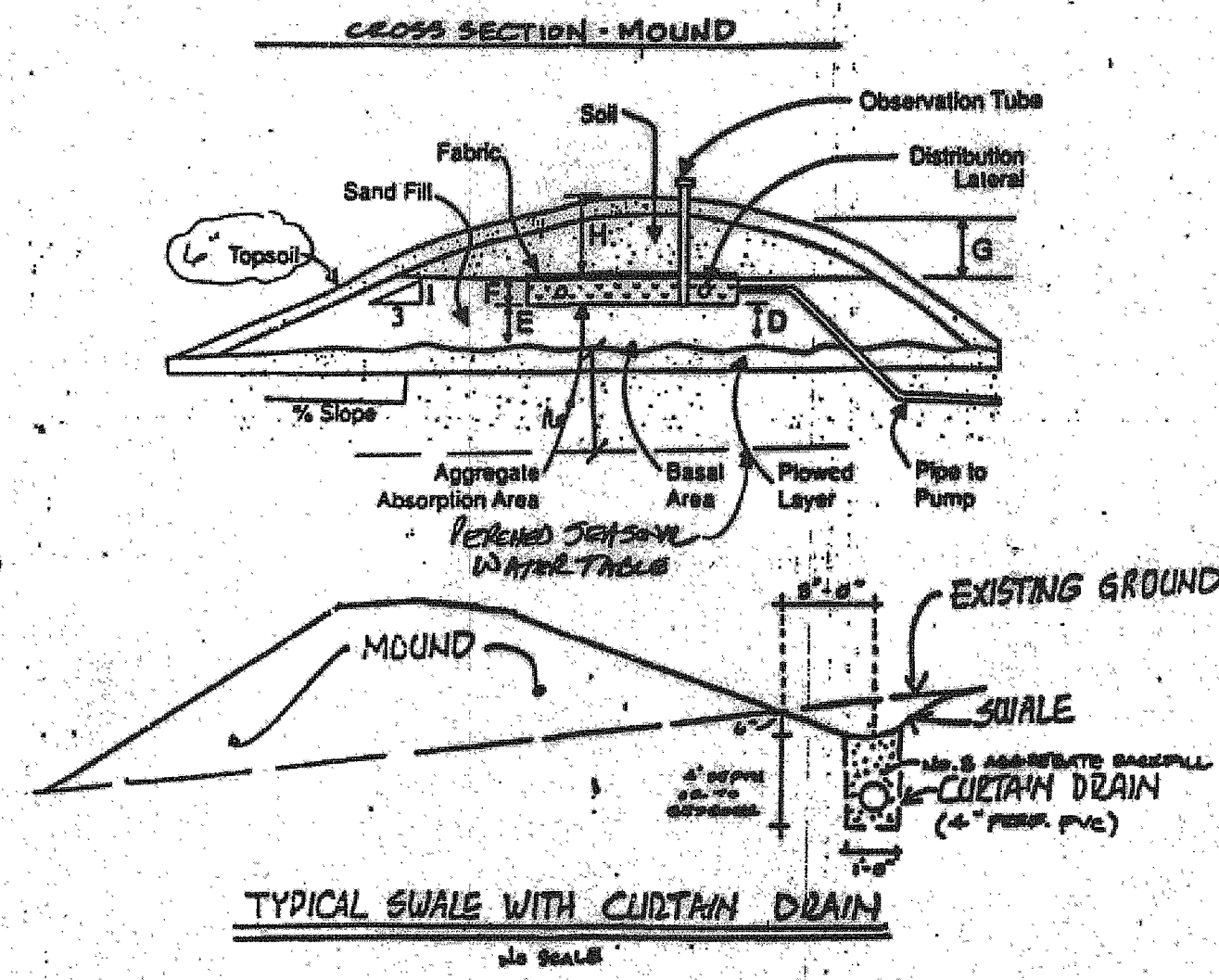
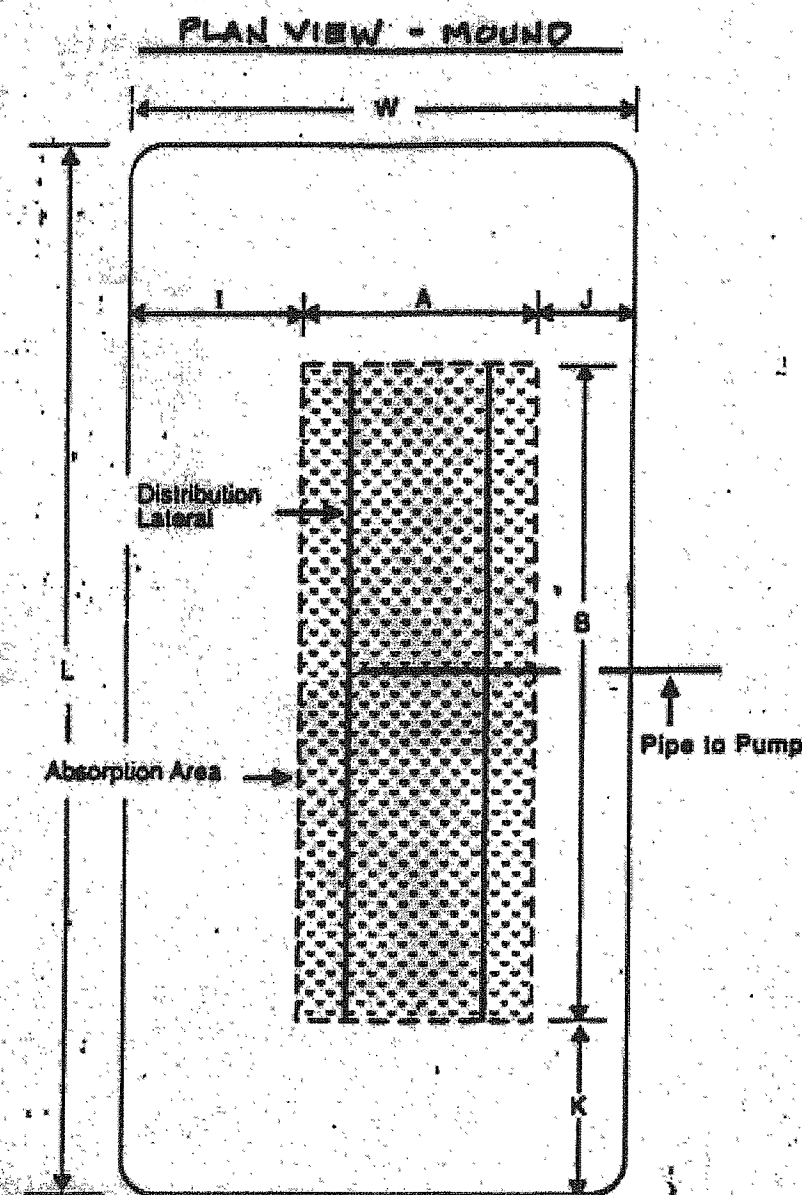
- Referenced specifications in Wisconsin Mound Soil Absorption System: siting, design and construction manual (Converse & Tyler, 2000) recognizing it is best to stay on the coarse side with effective size (D₁₀) close to 0.30 mm and uniformity coefficient (D₆₀/D₁₀) of 4.0 (as stated in the referenced resource on page 13).
- Concrete sand meeting the gradation requirements of ASTM C33 provided not more than 5% passes the No. 200 (75 µm) sieve as determined by ASTM C117, "Test Method for Material Finer than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing". In order to allow for greater void space and water movement, and to help deter premature clogging, it is best to err on the coarse side of the ASTM C33 standard with a recommended effective size close to 0.30 mm and a uniformity coefficient close to 4.0.
- Having an effective size between 0.20 to 0.35 mm, a uniformity coefficient of 3.0 or less with not more than 5% passing the No. 200 (75 µm) sieve as determined by ASTM C117, "Test Method for Material Finer than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing" and not less than 80% passing the No. 8 (2.36mm) sieve.



PIPE LAYOUT

NOTE: EACH DOSE SHALL DELIVER NO GREATER 20 GALLONS & AT LEAST 5 TIMES THE VOID VOLUME OF THE LATERALS.

NOTE: THE DISTAL PRESSURE HEAD TO BE MAINTAINED AT THE END OF EACH LATERAL SHALL BE BETWEEN TWO TO FIVE FEET.



MOUND DIMENSIONS (FT.)					
A	2.7	F	0.75	J	9
B	200	G	1.0	K	9.75
D	1.25	H	1.5	L	29.5
E	0.75	I	10	W	23.7

TOTAL HEIGHT = 51"

STEP FILTER VAULT - STANDARD 60" DEEP UNIT MODEL 504H-0001

SIMPLEX TIMED-DOSE CONTROL PANEL WITH FLOATS MODEL 10-0697

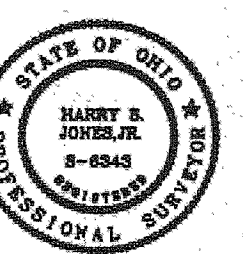
NOTE: PUMP TO BE ZOELLER 5041 SERIES STEP FILTER & A MODEL 5033-0005, 115 V, 1/2.5 HP EFFLUENT TURBINE PUMP.

REV. NO.	DESCRIPTION	DATE	BY	CHK'D
1	(Revision) DIMENSIONS	9/24/13	HJT	AT
2	CALCULATIONS	10/1/13	AT	HJT

Jones Surveying, LLC
ENGINEERS - SURVEYORS - PLANNERS
1924 MENTOR AVE., PAINESVILLE, OHIO 440-357-1811
440-357-9173 (FAX) hjonesurveying@yahoo.com

DATE	8/15/13
DESIGN BY	H.J.
DRAWN BY	HJT
APPROVED BY	H.J.
CREW CHIEF	

SITE PLAN FOR
CREIGHTON MURCH
CITY OF KIRTLAND COUNTY OF LAKE STATE OF OHIO



SCALE	
JOB NO	02-047
SHEET	OF
2	4