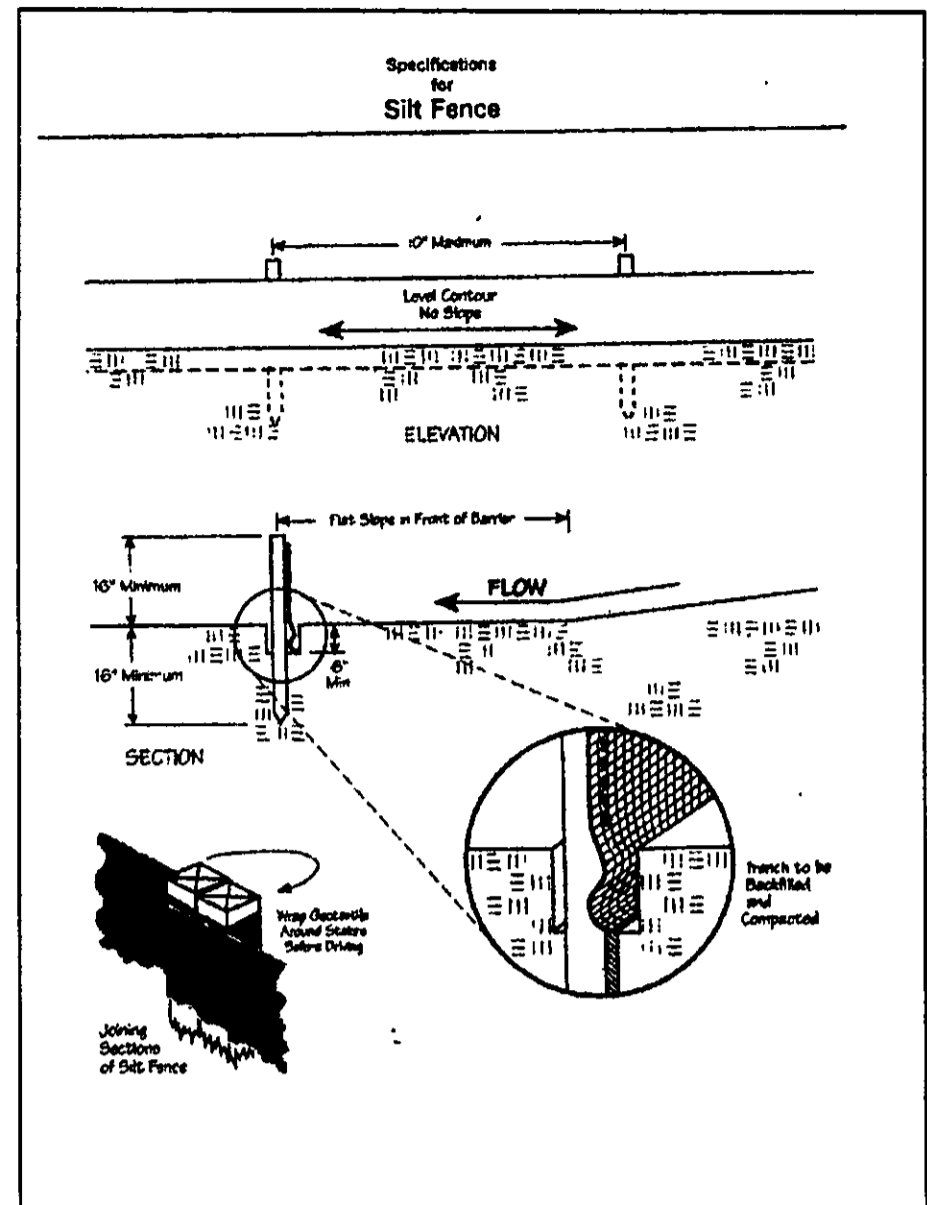
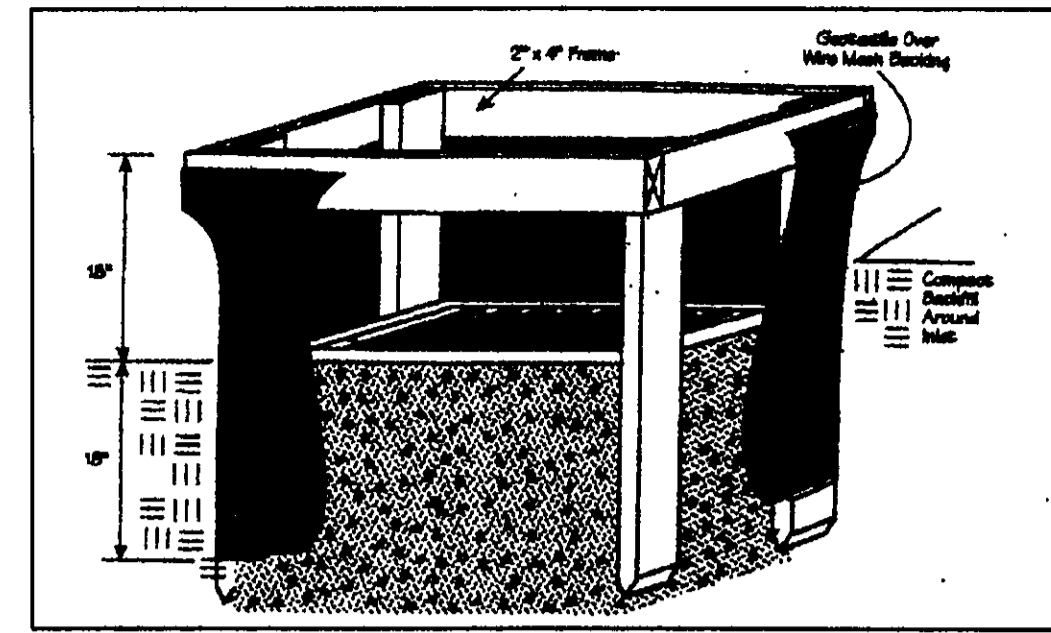


Temporary Seeding Species Selection			
Seeding Dates	Species	Lb./1,000 ft. ²	Per Ac.
March 1 to August 15	Oats	3	4 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.
August 16 to November 1	Rye	3	2 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Wheat	3	2 bushel
	Tall Fescue	1	40 lb.
November 1 to Spring Seeding	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Wheat	3	2 bushel
	Tall Fescue	1	40 lb.

Note: Other approved seed species may be substituted.

9662
EXIST HSE
FF 783.73

CITY OF MENTOR
CONCORD TOWNSHIP



"I, the undersigned hereby certify that this topography indicated by 6", 1", or 2" contours, and elevations shown hereon represent an actual field survey made by me on the 28th day of June, 2006 and that the elevations were taken at appropriate intervals and that as of that date they existed as indicated hereon."

Harry Jones #6743
Name Reg. No.

"I CERTIFY THIS SEWAGE SYSTEM DESIGN MEETS THE MINIMUM REQUIREMENTS ESTABLISHED BY THE LCOHD IN THE HSTS GUIDANCE MANUAL, AND THE REQUIREMENTS AND RECOMMENDATIONS OF THE SYSTEM MANUFACTURER."

Harry Jones #6743
Name Reg. No.

- NOTES:
- 1). DRIP INSTALLER TO CONSULT WITH DRIP DESIGNER FOR ANY CHANGES
 - 2). DRIP MOUND AND DUPLICATION AREAS HAVE BEEN MARKED OFF TO PROHIBIT DISTURBANCE OF AREA DURING HOME CONSTRUCTION.
 - 3). INSTALLER TO PROVIDE AS-BUILT OF DRIP 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 4-8. 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 DOSING 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 DRIP SYSTEM. INSPECTION OF SYSTEM WILL BE BY CERTIFIED SERVICE PROVIDER AND REPORTS ARE TO BE SUBMITTED TO THE LAKE COUNTY HEALTH DEPARTMENT.

Erosion and Sediment Control Schedule

Ingress-Egress
A stone access drive complete with under lying geo-textile fabric (20 feet wide and 50 feet long) for ingress and egress at the site shall be installed. This drive shall be the only entrance and exit to the site.

Silt Fence
A silt fence shall be installed prior to any earthwork activities at the site in the locations shown on the site plan as well as along the front of any lot that slopes towards the street.

Temporary Seeding
Disturbed areas of the site that are to remain idle for more than thirty(30) days shall be properly seeded and straw mulched within seven(7) days of completion of initial grading. Temporary seeding and mulching as a thirty(30) foot strip of the entire front of the lot shall be maintained on the site once initial grading is complete.

Stabilization of critical areas within fifty(50) feet of any stream or wetland shall be complete within two(2) days of the disturbance if the site is to remain inactive for longer than fourteen(14) days.

Mulching
Straw-mulch shall be applied at a rate of 1 bale per every ten (10) feet of curb, at a width of thirty(30) feet to the entire length of the lot. Wood chips may also be used but must be spread at a minimum depth of four inches over the thirty-foot width and must be accompanied by a properly installed silt fence.

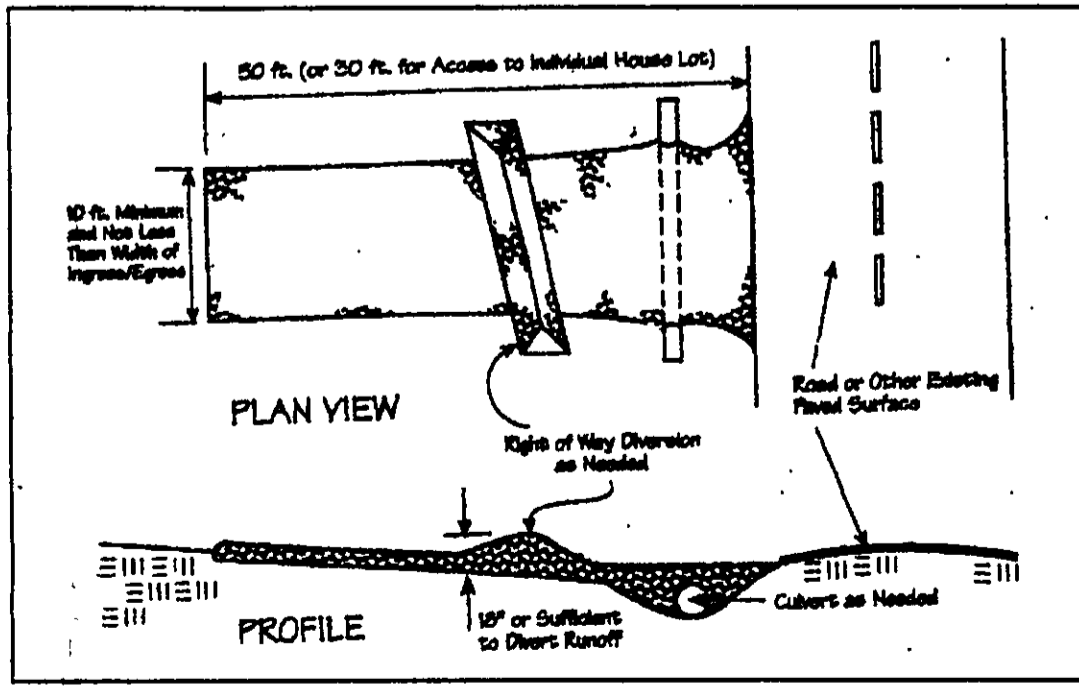
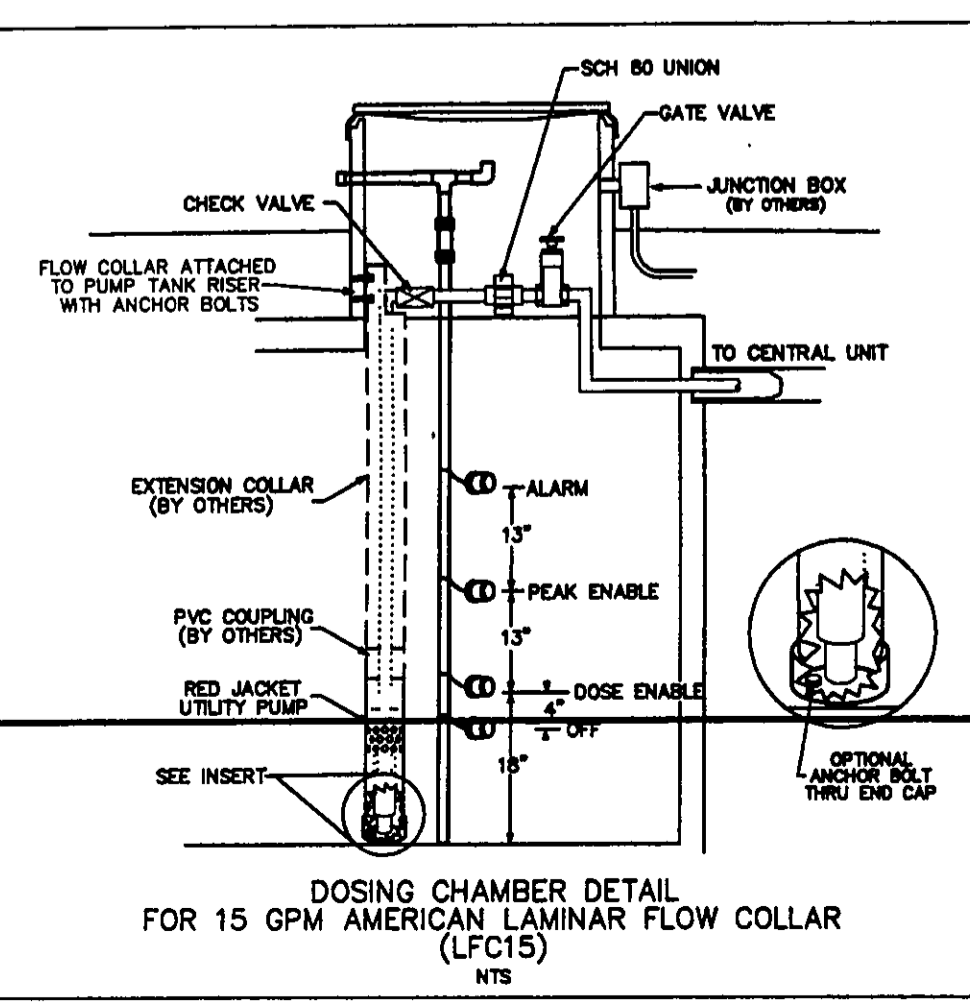
Maintenance
Erosion and sediment controls shall be inspected every seven(7) days or within 24 hours of a 0.5" or greater rainfall event. Necessary repairs shall be made at this time.

NOTE: SEPTIC FIELDS FOR PROPERTY AND ADJOINING PROPERTIES WERE NOT FOUND

NOTE: ALL IRON PINS SET ARE 5/8" X 30" AND ARE CAPPED BABCOCK, JONES & ASSOC.

CONCORD TOWNSHIP ZONING OFFICE
Zoning Permit # 0507-13121
Date Issued 3/22/07
Subject to Approval By:
Lake Co. Engineer/Storm Water Mgmt.
Lake Co. Utilities Dept.
Lake Co. Soil + Water District
Lake Co. Health District
Lake Co. Building Dept.

AERMOTOR MODEL: TEP20-50-115
1.25" DISCHARGE 1/16" MAX. SOLIDS HANDLING
0.5 HORSEPOWER 1 PHASE MULTI-STAGE
115 VOLT 60 HZ CENTRIFUGAL
12.0 AMPS



LLR = 3.0
360 GPD
3.0 = 120 LF DRIP @ 6 GPM
12 LINES @ 120 LF = 1440 LF TOTAL

TBM - 5/8" IP SET (REF. PT.)
ELEV - 786.93

EXISTING UTILITIES NOTE:
THE SIZE AND LOCATION, BOTH HORIZONTAL AND VERTICAL, OF THE UNDERGROUND UTILITIES SHOWN HEREON, HAVE BEEN OBTAINED BY A SEARCH OF AVAILABLE RECORDS. WHERE PRACTICAL, HOWEVER, BABCOCK, JONES AND ASSOCIATES, INC. DOES NOT GUARANTEE THE COMPLETENESS NOR ACCURACY THEREOF.

REV. NO.	DESCRIPTION	DATE	BY	CHK'D
1	CHANGED SEPTIC TO DRIP SYS	7/12/06	B.P.	H.J.
2	RELOCATED HSE	3/26/07	B.P.	H.J.

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

DATE	6/14/06
DESIGN BY	H.J.
DRAWN BY	B.P.
APPROVED BY	H.J.
CREW CHIEF	W.B.

SITE PLAN
FOR
BRANDEN KEEPER
9662 JOHNNYCAKE RIDGE ROAD (P.P.#10A-25-10)
CONCORD TOWNSHIP LAKE COUNTY STATE OF OHIO

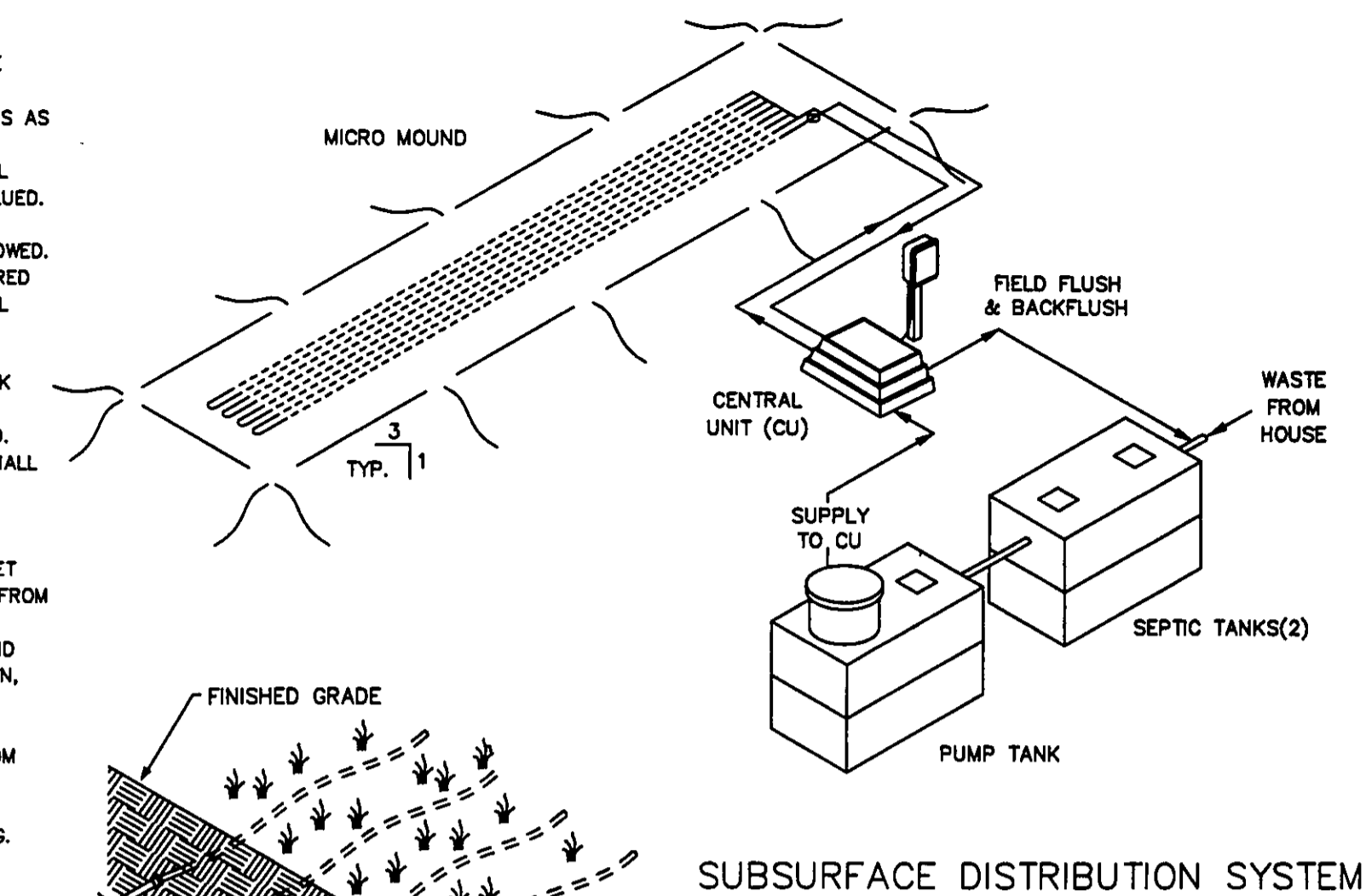
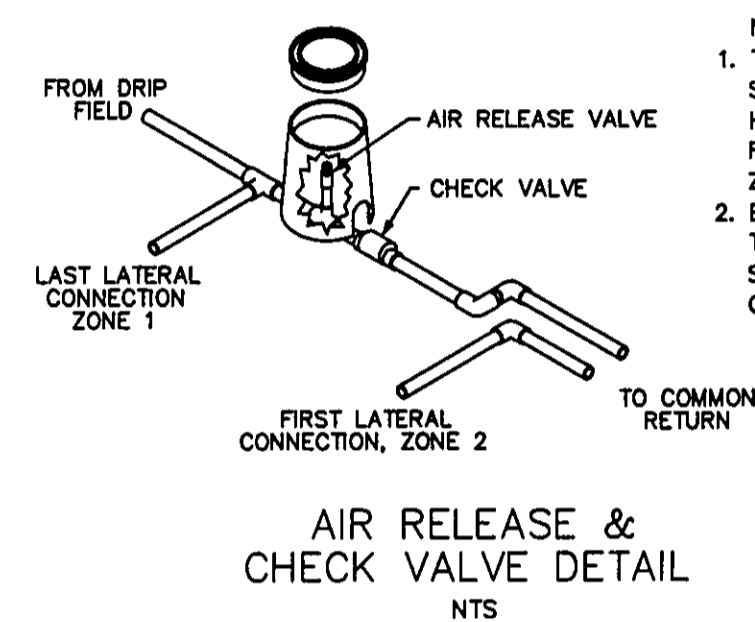
SCALE	1"=20'
JOB NO	06-095
SHEET	1 OF 2

Stormwater Management Plan
Approved as shown on this plan
JAMES B. GILLES, Engineer
County Drainage Engineer
By Date 7/5/07



GENERAL NOTES - DRIP DISPOSAL

1. ALL INSTALLATION AND CONSTRUCTION TECHNIQUES SHALL CONFORM TO COUNTY CODES AND STATE BOARD OF HEALTH "SEWAGE HANDLING AND DISPOSAL REGULATIONS" PERTAINING TO ON SITE SEWAGE SYSTEMS AND THE PERMIT FOR THIS SITE.
2. THE INSTALLATION OF THIS SYSTEM SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND PROCEDURES AS SUPPLIED BY THE MANUFACTURER OF THE EQUIPMENT.
3. ALL PVC PIPE AND FITTINGS SHALL BE PVC SCH 40 TYPE 1 RATED FOR PRESSURE APPLICATIONS. ALL GLOED JOINTS SHALL BE CLEANED AND PRIMED WITH PURPLE (DYED) PVC PRIMER PRIOR TO BEING GLOED.
4. ALL CUTTING OF PVC PIPE, FLEXIBLE PVC AND DRIPPER TUBING SHALL BE ACCOMPLISHED WITH PIPE CUTTERS APPROVED BY MANUFACTURER. NO SAWING OF PVC, FLEXIBLE PVC OR DRIPPER TUBING ALLOWED.
5. ALL PVC PIPE, FLEXIBLE PVC AND DRIPPER TUBING IN THE WORK AREA SHALL HAVE THE ENDS COVERED WITH DUCT TAPE TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE PIPE. PRIOR TO GLUING ALL JOINTS SHALL BE INSPECTED FOR AND CLEARED OF ANY CONSTRUCTION DEBRIS.
6. NO WET WEATHER INSTALLATION IS PERMITTED.
7. NO ACTIVITY ON DRAINFIELD AREA OTHER THAN MINIMUM REQUIRED TO INSTALL SYSTEM. DO NOT PARK EQUIPMENT, DRIVE LARGE EQUIPMENT OVER, OR STORE MATERIALS ON DRAINFIELD SITE.
8. HORIZONTAL SPACING BETWEEN DRIPPER LINES AND THE INSTALLATION DEPTH SHALL BE AS SPECIFIED.
9. THE BUILDING SEWER SHALL BE 4" SCH40 PVC WITH A MINIMUM SLOPE OF 1/4" PER FOOT. THERE SHALL BE NO BENDS GREATER THAN 45 DEGREES. CLEANOUTS SHOULD BE PROVIDED EVERY 25 FEET.
10. FOR CONSTRUCTION TECHNIQUES REFER TO THE "SEWAGE HANDLING AND DISPOSAL REGULATIONS".
11. IF TREES ARE TO BE REMOVED FROM SITE, CUT STUMPS FLUSH WITH GROUND. REMOVE BY HAND.
12. GRAVEL BASE UNDER CENTRAL CONTROL UNIT IS TO BE DRAINED VIA 2" PVC PIPE, SCREENED AT INLET AND OUTLET, DISCHARGE TO BE AT GRADE DOWN SLOPE (TO ENSURE DRAINAGE OF SURFACE WATER FROM UNIT).
13. THE CONTRACTOR SHALL BE CERTIFIED TO INSTALL THIS TYPE OF SYSTEM BY THE MANUFACTURER AND SHALL HOLD A PRE CONSTRUCTION MEETING WITH THE INDIVIDUALS RESPONSIBLE FOR SOIL EVALUATION, PERMITTING AND INSPECTIONS PRIOR TO SITE WORK BEGINNING TO INSURE PROTECTION OF THE SITE CONDITIONS AND TO ENSURE THE SYSTEM IS INSTALLED ACCORDING TO DESIGN.
14. IF SITE CONDITIONS ARE DETERMINED TO REQUIRE THE INSTALLATION OF THE SYSTEM TO DEVIATE FROM THESE PLANS, ALL SITE WORK SHALL STOP IMMEDIATELY AND THE DESIGNER SHALL BE NOTIFIED. ANY ONGOING WORK SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
15. DRAINFIELD SUPPLY AND RETURN LINES TO BE INSTALLED AT ADEQUATE DEPTH TO PREVENT FREEZING.

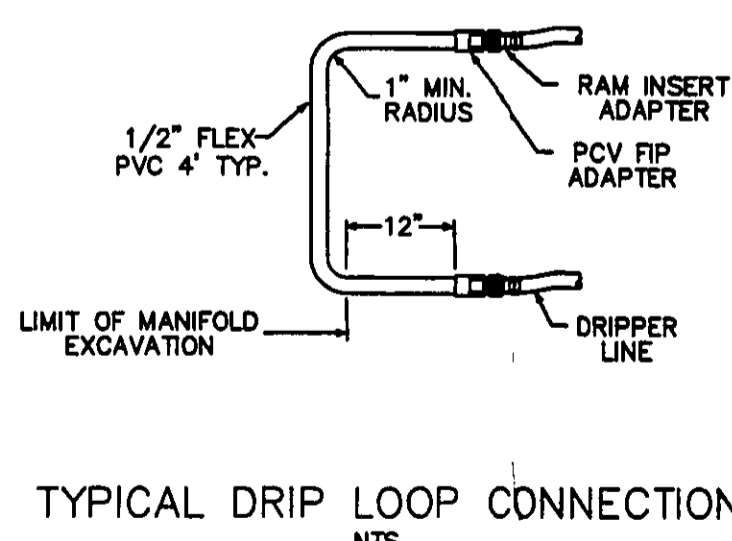
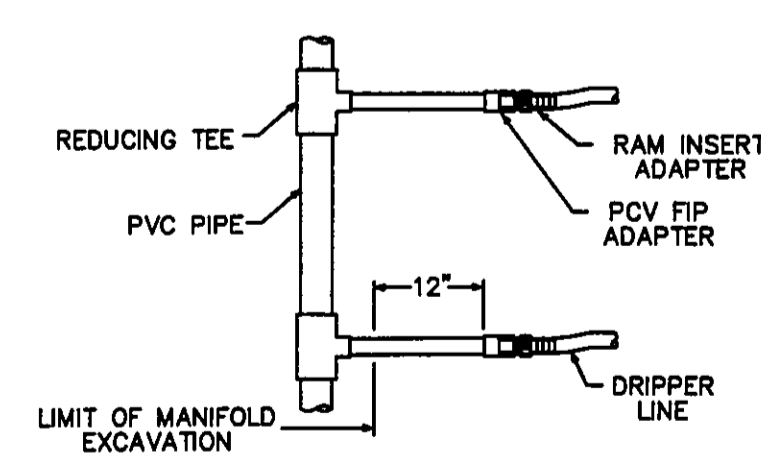
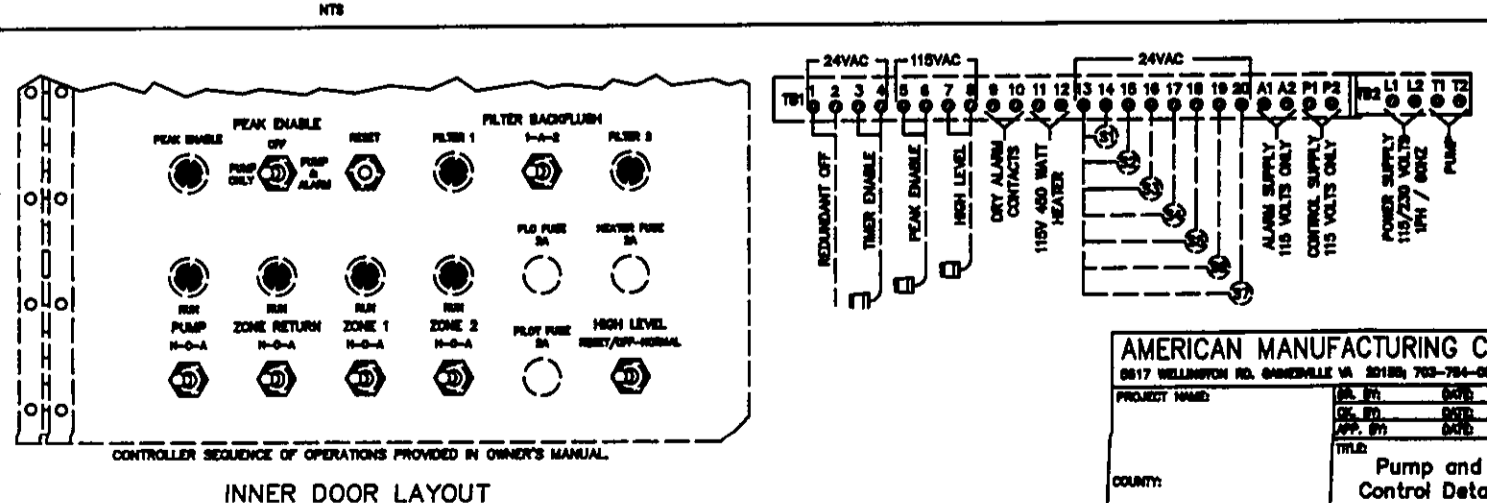
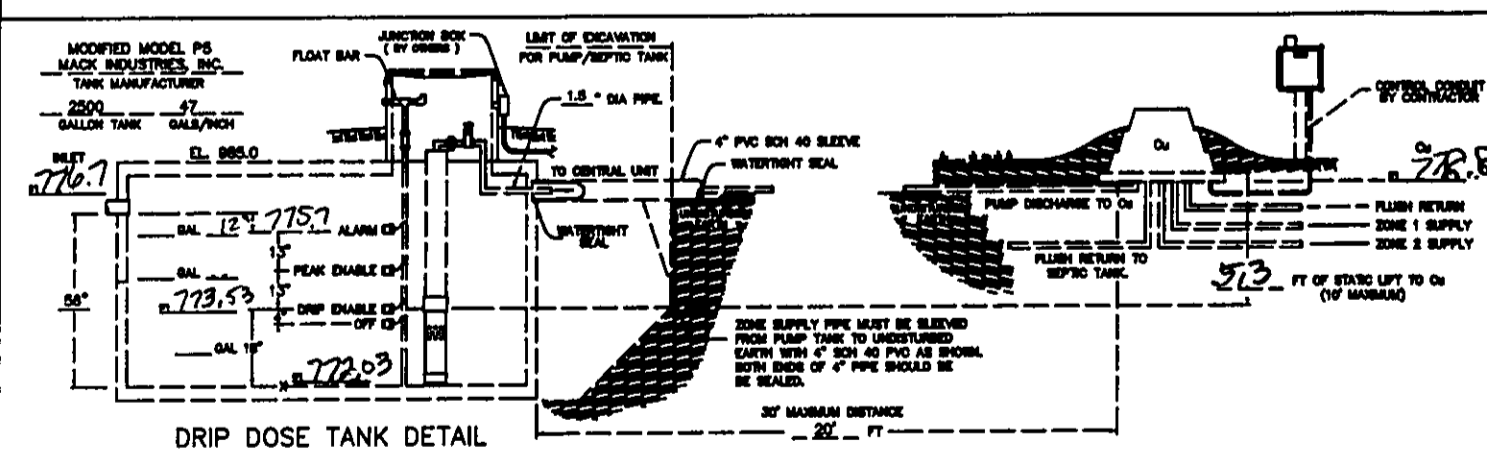
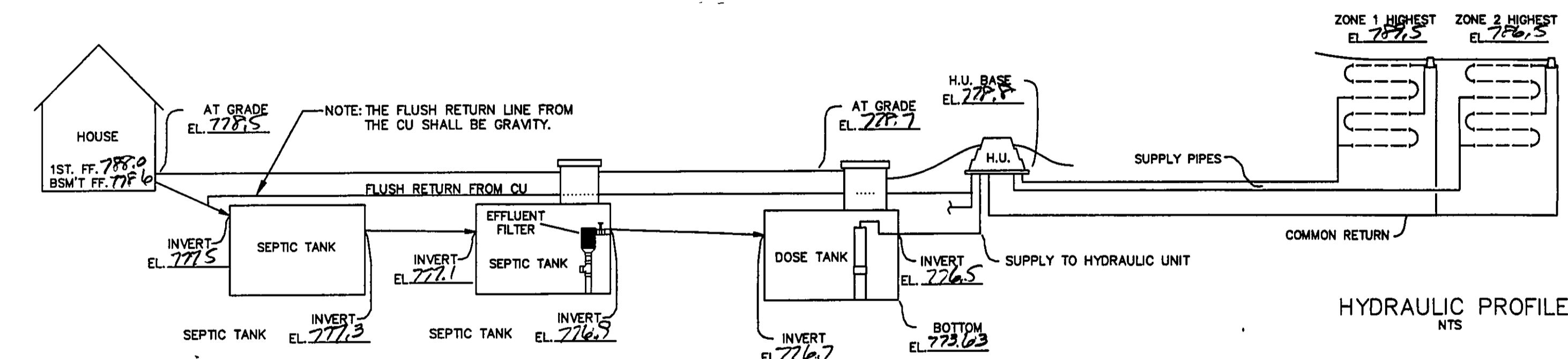
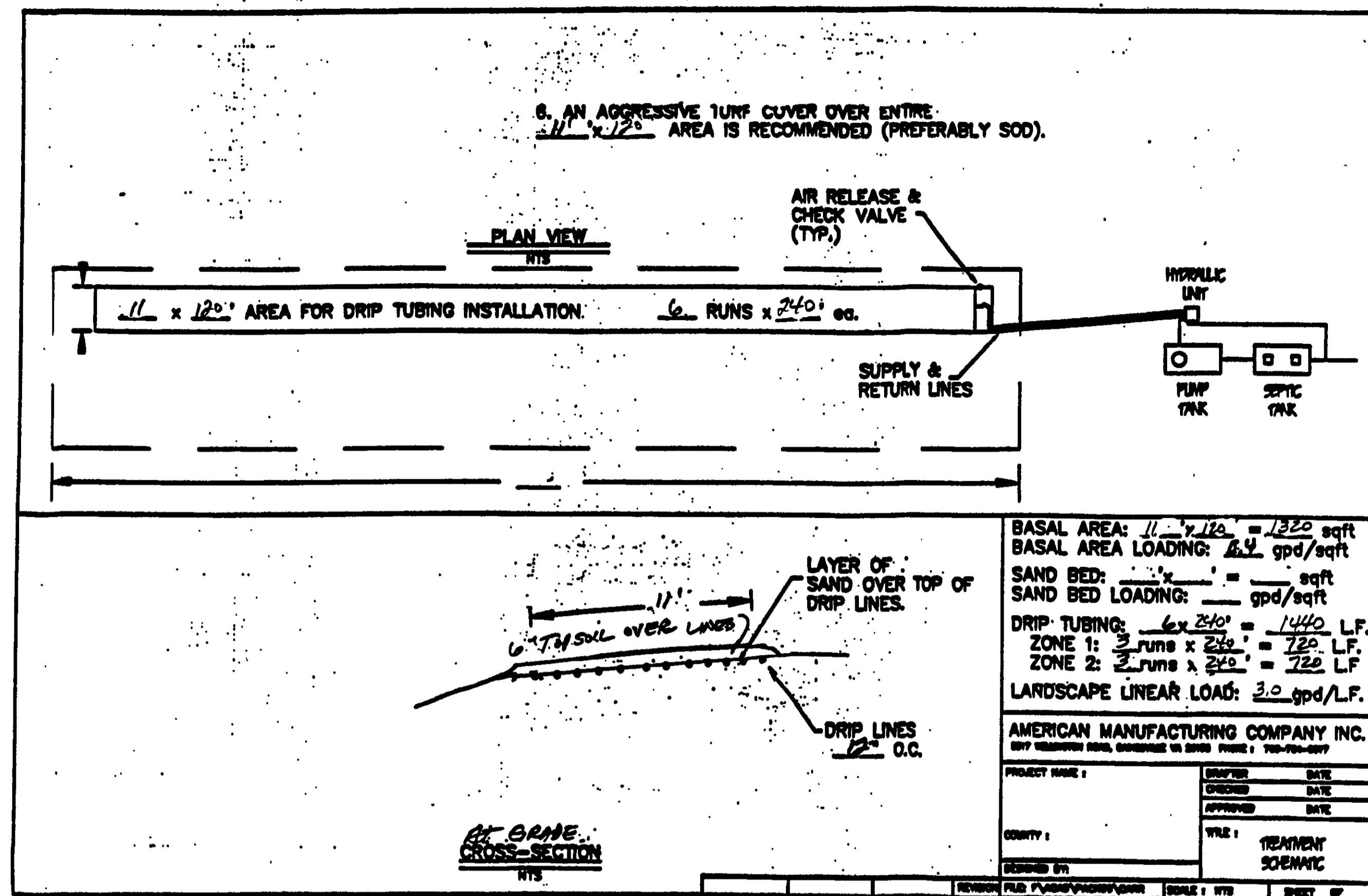


- SHT 1 COVER SHEET
SHT 2 SITE PLAN
SHT 3 TREATMENT SCHEMATIC (MOUND DETAIL)
SHT 4 HYDRAULIC PROFILE & DRIP DETAIL
SHT 5 PUMP & CONTROL DETAIL
SHT 6 CALCULATION SHEET
SHT 7 PUMP CURVE

AMERICAN MANUFACTURING CO.
5517 WELLINGTON RD. GAINESVILLE VA 20155; 703-754-0077

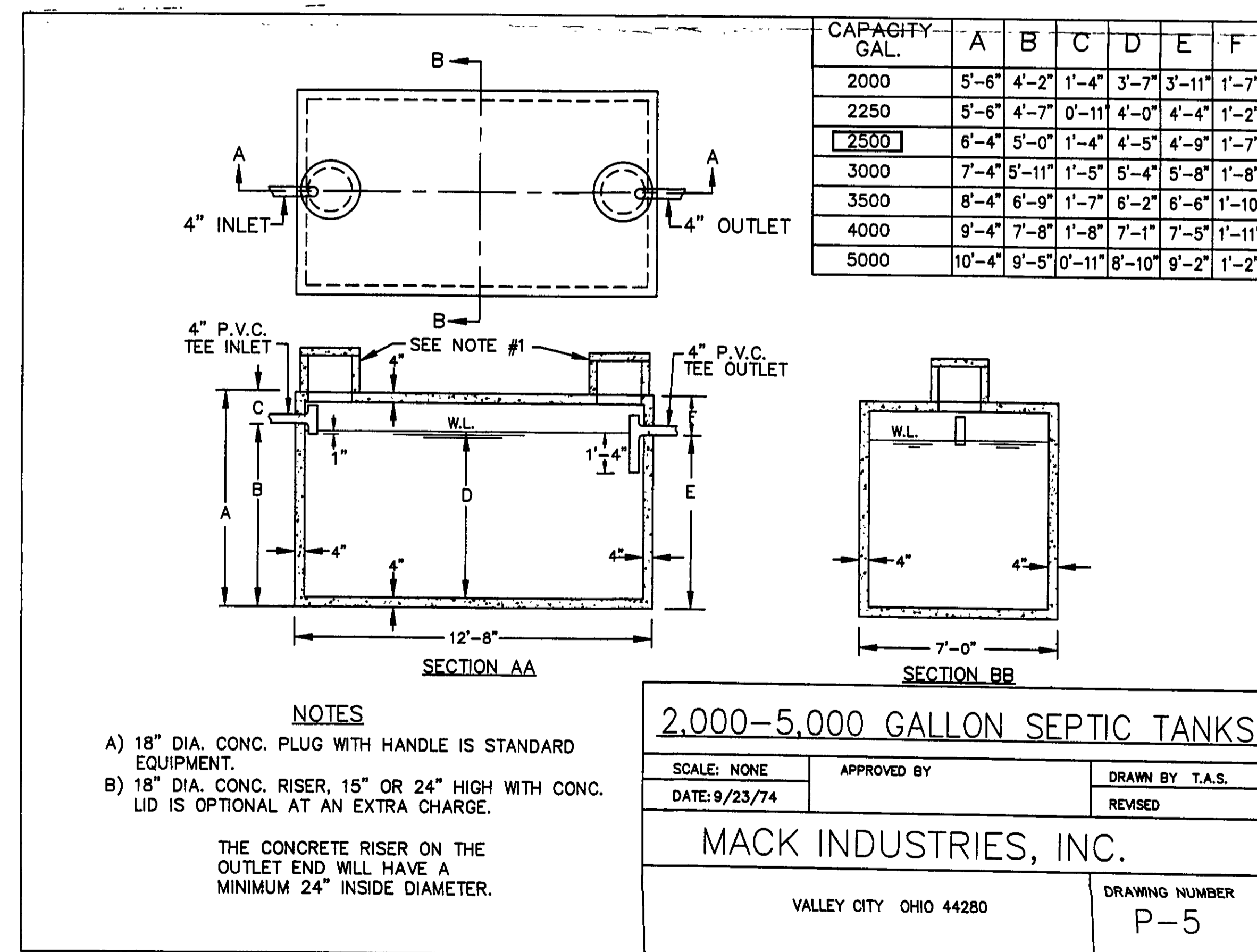
PROJECT NAME: _____
DR. BY: _____ DATE: _____
CK. BY: _____ DATE: _____
APP. BY: _____ DATE: _____
TITLE: _____
COUNTY: _____ COVER SHEET

REV. FILE: _____ SCALE: _____ SHEET 1 OF 2



AMERICAN MANUFACTURING CO.
5517 WELLINGTON RD. GAINESVILLE VA 20155; 703-754-0077

PROJECT NAME: _____
DR. BY: _____ DATE: _____
CK. BY: _____ DATE: _____
APP. BY: _____ DATE: _____
TITLE: _____
COUNTY: _____
Hydraulic Profile & Drip Detail
REV. FILE: _____ SCALE: _____ SHEET 4 OF 2



REV. NO.	DESCRIPTION	DATE	BY	CHK'D
1	CHANGED SEPTIC TO DRIP SYS	7/12/06	B.P.	H.J.
2	CHANGED OWNER	3/27/07	HT	HT



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

DATE	6/14/06
DESIGN BY	H.J.
DRAWN BY	B.P.
APPROVED BY	H.J.
CREW CHIEF	W.B.

SITE PLAN
FOR
BRANDEN KEEPER

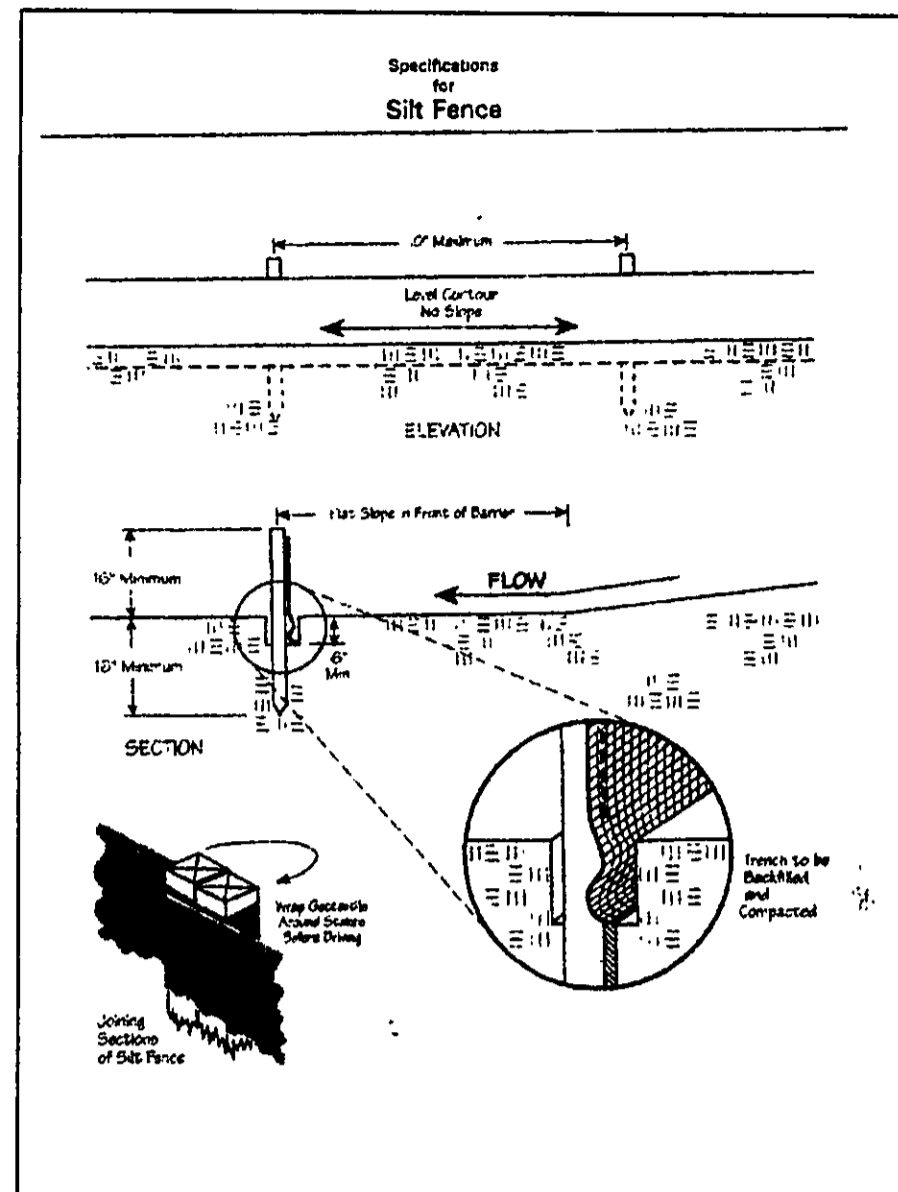
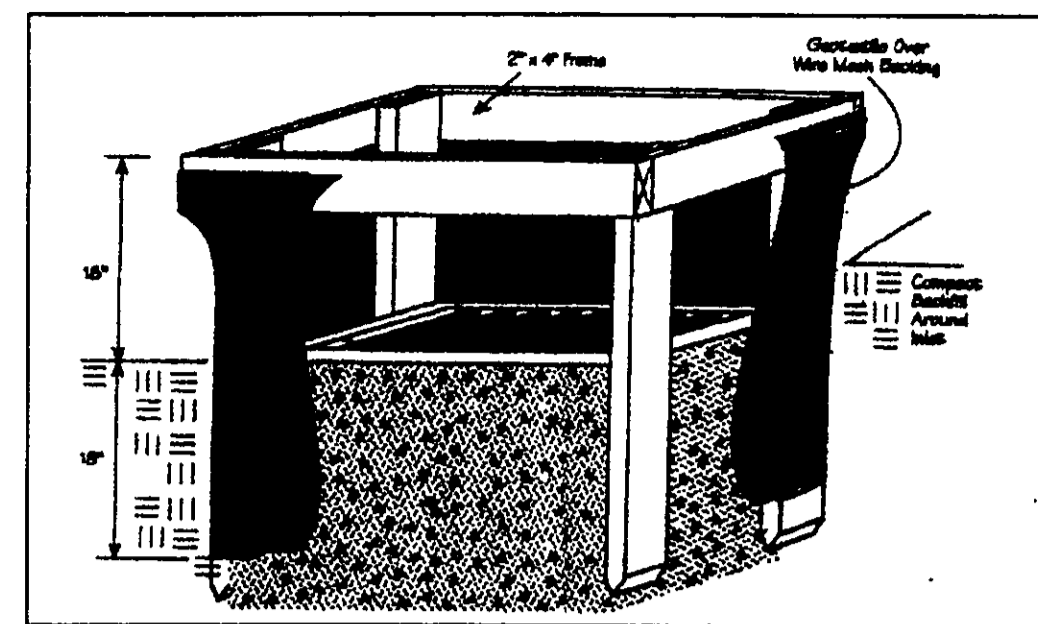
9.46
9862 JOHNNYCAKE RIDGE ROAD (P.P.#10A-25-10)
CONCORD TOWNSHIP LAKE COUNTY STATE OF OHIO

SCALE	1"=20'
JOB NO	06-095
SHEET	2
OF	2

Temporary Seeding Species Selection			
Seeding Dates	Species	Lb./1,000 ft. ²	Per Ac.
March 1 to August 15	Oats	3	4 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
August 16 to November 1	Rye	3	2 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Wheat	3	2 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
November 1 to Spring Seeding	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.

Use much only, sodding practices or dormant seeding.

Note: Other approved seed species may be substituted.



"I, the undersigned hereby certify that this topography indicated by 6", 1", or 2" contours, and elevations shown hereon represent an actual field survey made by me on the 9th day of June, 2006 and that the elevations were taken at appropriate intervals and that as of that date they existed as indicated hereon."

"I CERTIFY THIS SEWAGE SYSTEM DESIGN MEETS THE MINIMUM REQUIREMENTS ESTABLISHED BY THE LOGHD IN THE HSTS GUIDANCE MANUAL, AND THE REQUIREMENTS AND RECOMMENDATIONS OF THE SYSTEM MANUFACTURER."

Name Harry Jones #6743 Reg. No. _____

- NOTES:**
1. DRIP INSTALLATION CONSULT WITH DRIP DESIGNER FOR ANY CHANGES
 2. DRIP MOUND AND DUPLICATION AREAS HAVE BEEN MARKED OFF TO PROHIBIT DISTURBANCE OF AREA DURING HOME CONSTRUCTION
 3. INSTALLER TO PROVIDE AS-BUILT OF DRIP SYSTEM TO HOME OWNER AND LAKE COUNTY HEALTH DEPARTMENT.
 4. SE-11C APPROVAL IS GOOD FOR A 1 YEAR PERIOD
 5. SWITCHES, CONTROLS, ALARMS & ELECTRICAL CONNECTIONS SHALL BE LISTED BY UL LISTED PRODUCTS, NATIONAL ELECTRIC CODE 371.29-11.5-0.
 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 4.4. NO MORE THAN 20% WEIGHT IS GRAVEL GREATER THAN 2 MM AND NO MORE 5% BY WEIGHT IS SILT AND CLAY LESS THAN 0.053 MM PER 371.29-12.13.2 (2).
 7. FOR THE START-UP, CONTRACTOR SHALL MEASURE THE FLOW RATE, FILLING 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 DRIP SYSTEM, INSPECTION OF SYSTEM WILL BE BY CERTIFIED SERVICE PROVIDER AND REPORTS ARE TO BE SUBMITTED TO THE LAKE COUNTY HEALTH DEPARTMENT.

Erosion and Sediment Control Schedule

Ingress-Egress

Ingress/Egress
A stone access drive complete with under lying geo-textile fabric (20 feet wide and 50 feet long) for ingress and egress at the site shall be installed. This drive shall be the only entrance and exit to the site.

Silt Fence

A silt fence shall be installed prior to any earthwork activities at the site in the locations shown on the site plan as well as along the front of any lot that slopes towards the street.

Temporary Seeding

Disturbed areas of the site that are to remain idle for more than thirty(30) days shall be properly seeded and straw mulched within seven(7) days of completion of initial grading. Temporary seeding and mulching on a thirty(30) foot strip of the entire front of the lot shall be maintained on the site once initial grading is complete.

Stabilization of critical areas within fifty(50) feet of any stream or wetland shall be complete within two(2) days of the disturbance if the site is to remain inactive for longer than fourteen(14) days.

Matching

Straw-mulch shall be applied at a rate of 1 bale per every ten (10) feet of curb, at a width of thirty(30) feet to the entire length of the lot. Wood chips may also be used but must be spread at a minimum depth of four inches over the thirty-foot width and must be accompanied by a properly installed silt fence.

Maintenance

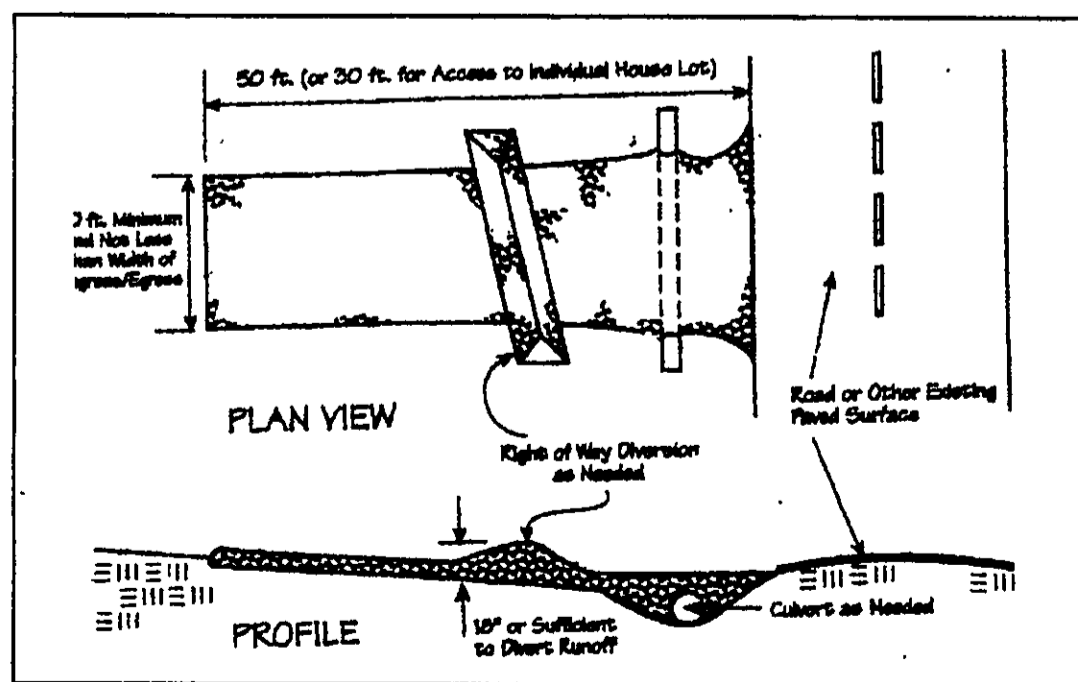
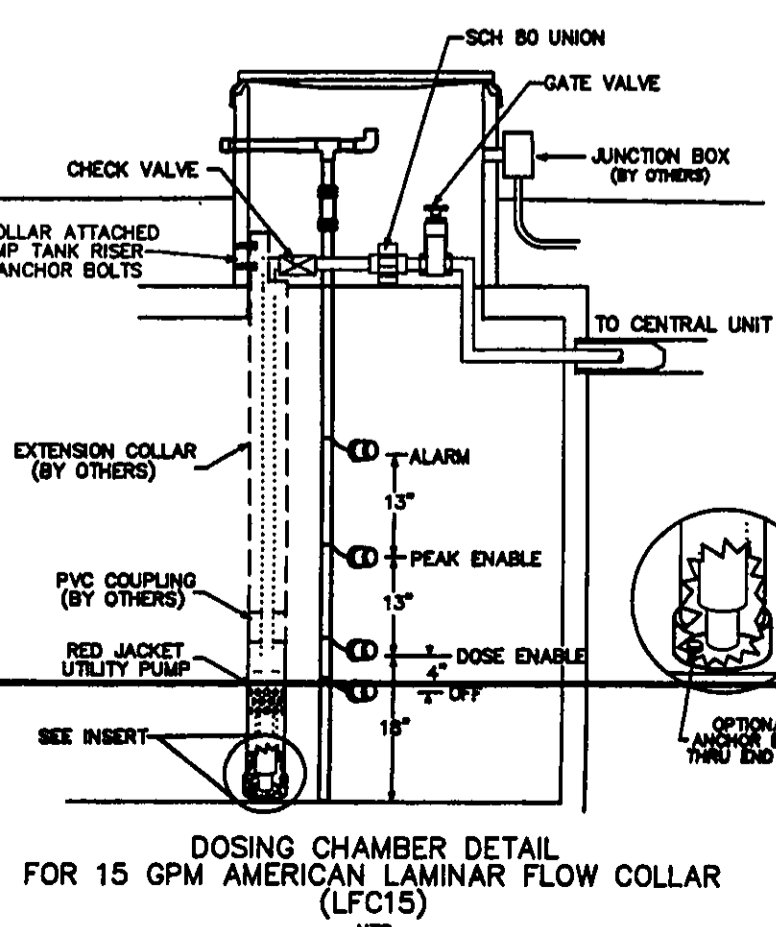
Erosion and sediment controls shall be inspected every seven(7) days or within 24 hours of a 0.5" or greater rainfall event. Necessary repairs shall be made at this time.

NOTE: SEPTIC FIELDS FOR PROPERTY AND ADJOINING PROPERTIES WERE NOT FOUND

NOTE: ALL IRON PINS SET ARE
5/8" X 30" AND ARE CAPPED
BABCOCK, JONES & ASSOC.

AERMOTOR MODEL: TEP20-50-115

1.25" DISCHARGE	1/16" MAX. SOLIDS HANDLING
0.5 HORSEPOWER	1 PHASE
115 VOLT	60 HZ
12.0 AMPS	MULTI-STAGE CENTRIFUGAL

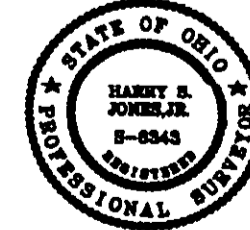


"AS BUILT" CERTIFICATION
I, HEREBY CERTIFY THAT THE CIRCLED GRADES ARE EXISTING
FINISH GRADES, CHECKED IN THE FIELD ON Oct 27, 2008
AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

REGISTERED SURVEYOR

TBM - 5/8" IP SET (REF. PT.)
ELEV - 786.93

EXISTING UTILITIES NOTE:
THE SIZE AND LOCATION, BOTH HORIZONTAL AND VERTICAL
OF THE UNDERGROUND UTILITIES SHOWN HEREON, HAVE BEEN
OBTAINED BY A SEARCH OF AVAILABLE RECORDS.
VERIFICATION BY FIELD OBSERVATION HAS BEEN CONDUCTED
WHERE PRACTICAL, HOWEVER, BABCOCK, JONES AND ASSOCIATES
INC. DOES NOT GUARANTEE THE COMPLETENESS NOR ACCURACY
THEREOF.



REV NO.	DESCRIPTION	DATE	BY	CHECK'D
1	CHANGED SEPTIC TO DRIP SYS	7/12/06	B.P.	H.J.
2	RELOCATED HSE	3/26/07	B.P.	H.J.

bj

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

DATE	6/14/06
DESIGN BY	H.J.
DRAWN BY	B.P.
APPROVED BY	H.J.
CREW CHIEF	W.R.

SITE PLAN
FOR
BRANDEN KEEPER

9862 JOHNNYCAKE RIDGE ROAD (P.P.#10A-25-10)
CONCORD TOWNSHIP LAKE COUNTY STATE OF OHIO

SCALE	1"=20'	
JOB NO	06-095	
SHEET	/	OF
1		2