

**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**  
All 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 of a thirty (30) foot strip of the entire front of the lot shall be maintained on the site once initial grading is complete

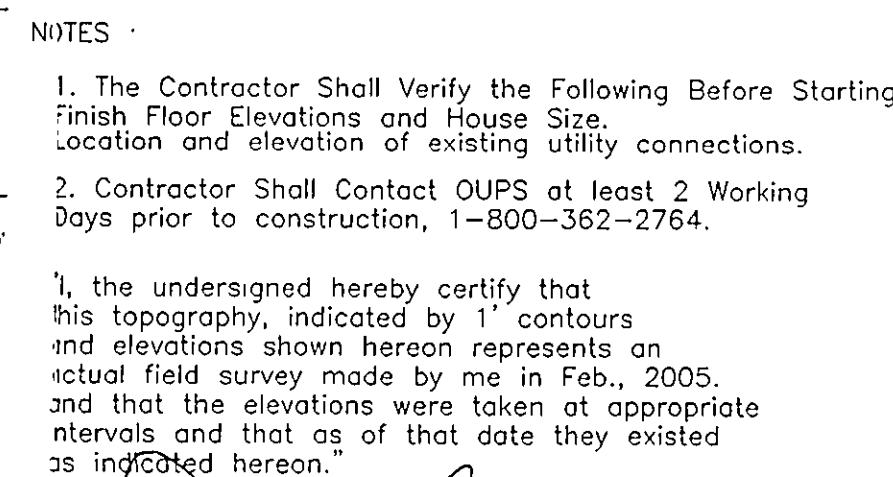
Stabilization of critical areas within fifty (50) feet of any stream or wetland shall be complete within two (2) days of the disturbance if the site is to remain inactive for longer than fourteen (14) days.

**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 of 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:**  
All erosion and sediment control specifications, applications, and timetables are based on the descriptions and standards of The Ohio Department of Natural Resources "Rainwater and Land Development Manual" and can be found in the Lake County Erosion and Sediment Control Rules as adopted December 21.

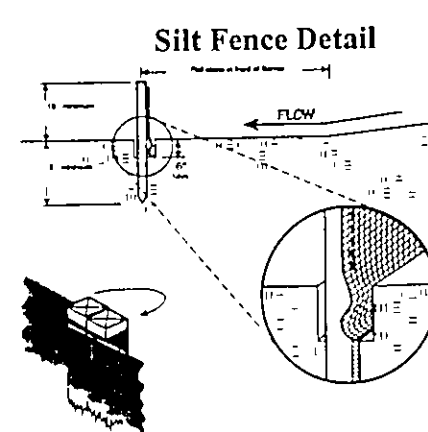
The specified erosion and sediment control standards are general guidelines and shall not limit the right of the county to impose, at any time, additional, more stringent requirements. Nor shall the standards limit the right of the county to



OWNER : JOSEPH AND AMY HAHN  
2652 MCMACKIN ROAD  
MADISON, OHIO 44057

"I, certify this sewage system design meets the minimum requirements established by the LCGHD and the HSTS Guidance Manual, and the requirements and recommendations of the system manufacturer.

David A. Rapp

[illegible]

## GENERAL NOTES FOR CONSTRUCTION OF DISPOSAL

1. THE INSTALLATION OF A CONSTRUCTION TECHNIQUE SHALL CONFORM TO COUNTY CODES AND STATE DEPARTMENT 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 JOINTS SHALL BE GLUED TOGETHER AND CLEANED WITH PURPLE DYE 100 PERCENT PVC PRIMER PRIOR TO BEING GLUED TOGETHER.

4. ALL CUTTING OF PVC PIPE, FLEXIBLE PVC PIPE AND DRIPPER TUBING SHALL BE DONE BY HAND. 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 A 2" X 4" BOARD PRIOR TO BEING CUT. PRIOR TO GLUING ALL JOINTS SHALL BE INSPECTED FOR AND CLEARED OF ANY CONSTRUCTION DEBRIS.

6. NO WET WEATHER INSTALLATION IS PERMITTED.

7. THE MINIMUM DEPTH OF THE SYSTEM SHALL BE A MINIMUM REQUIRED TO INSTALL SYSTEM DO NOT PUMP 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 BY THE MANUFACTURER. THE MINIMUM DEPTH OF THE SYSTEM SHALL BE 24" DEEP. THERE SHALL BE NO BENDS GREATER THAN 45 DEGREES. CLEANOUTS SHOULD BE PROVIDED EVERY 25 FEET.

9. FOR CONSTRUCTION TECHNIQUES REFER TO THE "SEWAGE HANDLING AND DISPOSAL REGULATIONS" OF THE DEPARTMENT OF HEALTH.

10. GRAVEL BASE UNDER CENTRAL CONTROL UNIT IS TO BE DRAINED VIA 2" DRAIN WITH 1" INLET AND OUTLET, DISCHARGE TO BE AT GRADE DOWN SLOPE (TO ENSURE DRAINAGE OF SURFACE WATER FROM UNIT).

11. 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.

12. 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.

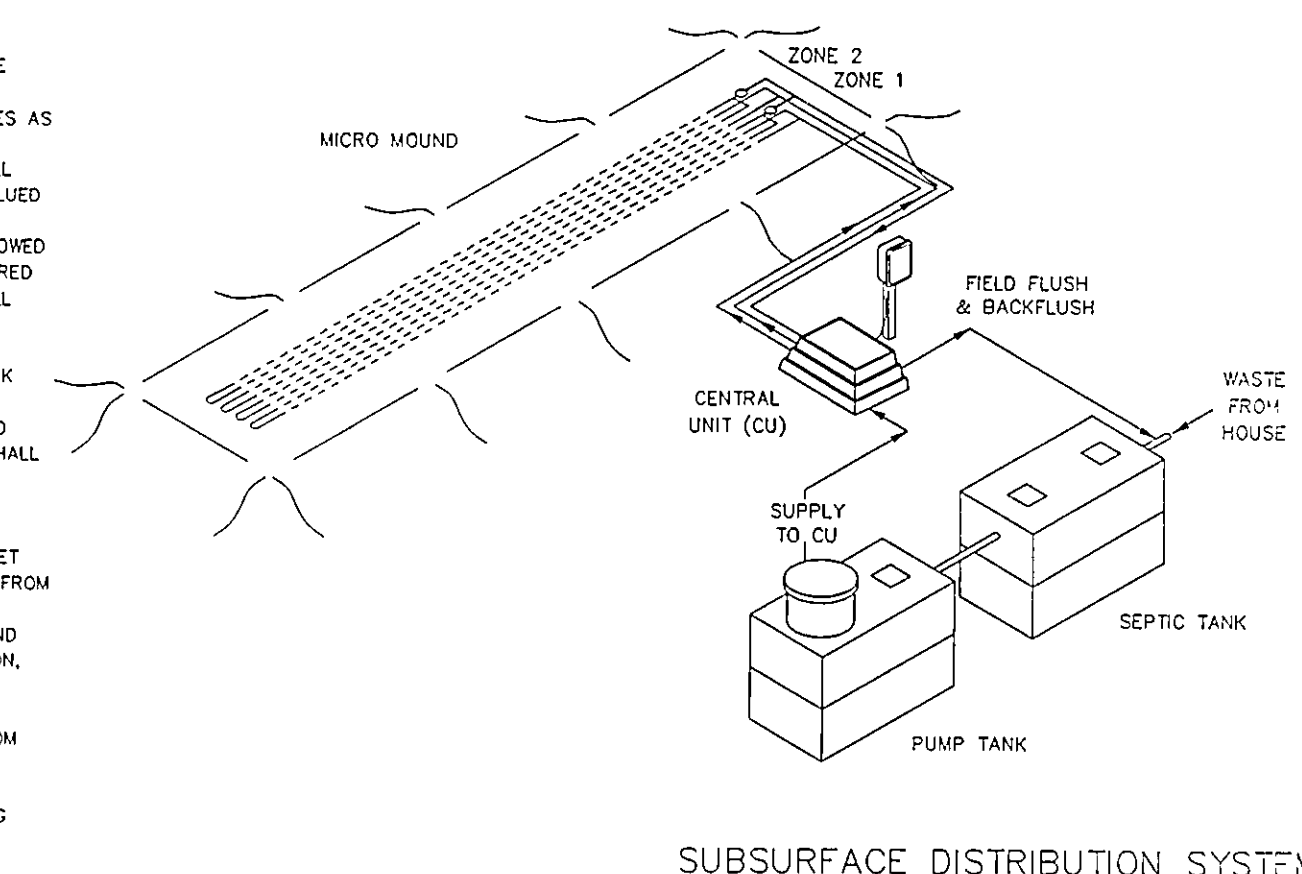
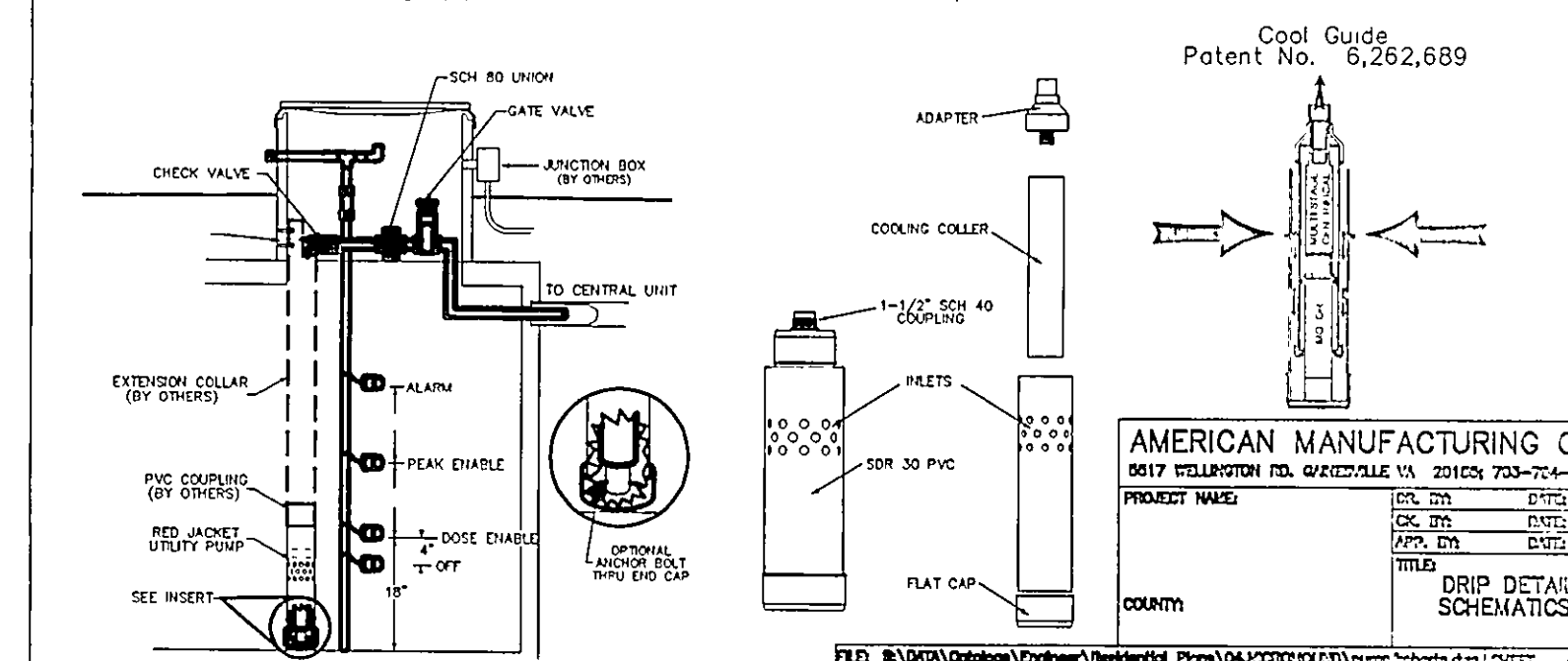
13. DRAINFIELD SURFACE AND RETURN LINES TO BE INSTALLED AT ADEQUATE DEPTH TO PREVENT FREEZING.

CENTRAL HYDRAULIC UNIT CHART 2A FLOW VS. HEAD LOSS		
FLOW IN GPM	TOTAL LOSS IN 100' UNIT	TOTAL LOSS IN 100' UNIT
5	2	4
6	2	4
7	3	5
8	4	6
9	5	7
10	6	8
11	7	9
12	7	11
13	8	12
14	9	13
15	10	16
16	12	19
17	14	22
18	16	24
19	18	27
20	20	28
21	21	
22	22	
23	23	
24	24	
25	25	



The laminar flow collar shall be made of non-corrosive, glueable PVC and have sufficient holes in the outer guide tube to assure laminar flow for the rated capacity. The inner flow collar shall extend near the bottom to provide sufficient cooling flow for the motor. The dimension between the inner collar and the pump motor shall not restrict flow to the pump intake, but will provide for scouring of surfaces. The laminar flow collar shall be a "Cool Guide" as manufactured by American Manufacturing Company, Inc. Patent Pending.

- 1 Measure the distance from the bottom of the tank to 6" down from the top of the riser.
- 2 Cut the extension pipe (by others) to the length necessary to reach this height. Cut 1/2 of the pipe down 12" to 18" away from the top of the pipe for pump discharge pipe.
- 3 Use the extension cooling (by others) to the extension pipe and to the Cool Guide.
- 4 For repairs: glue on the Cool Guide flat cap and place the Cool Guide firmly in the bottom of the tank. Attach the extension to the riser, with the anchors as shown.
- 5 For new construction: Anchor the flat cap to the bottom of the tank in the proper location to hold Cool Guide and extension. The cap may or may not be glued to the device. Attach the extension to the riser with the anchors as shown.
- 6 Place the pipe dope on the Cool Guide adapter threads and thread them into pump discharge.
- 7 Attach cooling coil to adapter with set screw provided.
- 8 Glue pipe into flow cooler with pump attached, lower into the guide tube
- 9 Attach to discharge pipe, valves, and connect electrical as specified



SCOPE: DOMESTIC SEWAGE WILL FLOW BY GRAVITY THROUGH THE SEPTIC TANK THEN INTO A FINAL DOSING TANK. THE CENTRAL UNIT WILL DISPOSE OF THE EFFLUENT BY ALTERNATELY DOSING MULTIPLE ZONES IN THE ABSORPTION AREA.

THE CENTRAL UNIT COMPRISES BOTH THE CONTROL AND THE HYDRAULIC UNITS.

<b>AMERICAN MANUFACTURING CO.</b> 5517 WELLINGTON RD. GAINESVILLE VA 20155; 703-734-CGT7	
PROJECT NAME:	DR. BY: _____ DATE: _____ CK. BY: _____ DATE: _____ APP. BY: _____ DATE: _____ TITLE: _____
COUNTY:	COVER SHEET

DATE MARCH, 2005  
DRAWN BY DAR  
CHECKED BY DAR  
APPROVED BY DAR  
P.S. No 7597

APPROVED  
MADISON TOWNSHIP ZONING  
DATE 4/6/05  
BY CH Z2159

D25016