FLOAT BAR,

720 GALLONS

2000 GALLONS

2560 GALLONS

471 GALLONS

1100 GALLONS

-PEAK ENABLE

TOFF

BOT.EL.949.0

FLOAT ENABLE EL. 950.5

11'-0"L **X 6'-6"W** X 6'-0"D

-SCH 80 UNION

-GATE VALVE

500 GALLONS(~ 1.4 Day @ peak flow)

EXIST. GRADE EL. ~956.0

JUNCTION BOX

(BY OTHERS)

TO CENTRAL UNIT

18"

MAX

DOSE TANK SIZE:

COMBINED SURGE & RESERVE VOLUME SHALL BE

1.5 TIMES PEAK DESIGN FLOW(PDF)

PDF FOR SYSTEM:

MIN. SURGE/RESERVE WORKING VOLUME:

DOSE TANK VOLUME CHOSEN:

NET DOSE TANK VOLUME:

MACK TANK DIMENSION CHOSEN:

VOLUME PER FOOT OF DEPTH:

WORKING VOLUME PROVIDED:

T/TANK EL. 955.0

CHECK VALVE

EXTENSION COLLAR

PVC COUPLING

(BY OTHERS)

(BY OTHERS)

EMERGENCY VOLUME REMAINING:

DRIP DISPOSAL NOTES

1) ALL INSTALLATION AND CONSTRUCTION TECHNIQUES SHALL CONFORM TO ODH AND Lake COUNTY CODES 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.

ALL PVC PIPE AND FITTINGS SHALL BE PVC SCH 40 TYPE 1 RATED FOR PRESSURE APPLICATIONS. ALL GLUED JOINTS SHALL BE CLEANED AND PRIMED WITH PURPLE (DYED) PVC PRIMER PRIOR TO BEING GLUED.

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.

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.

NO ACTIVITY ON DRAIN FIELD AREA OTHER THAN MINIMUM REQUIRED TO INSTALL SYSTEM. DO NOT PARK EQUIPMENT, DRIVE LARGE EQUIPMENT OVER, OR STORE MATERIALS ON DRAIN FIELD SITE.

HORIZONTAL SPACING BETWEEN DRIPPER LINES AND THE INSTALLATION DEPTH SHALL BE AS SPECIFIED.

9) IF TREES ARE TO BE REMOVED FROM SITE, CUT STUMPS FLUSH WITH GROUND. REMOVE WITH LOW GROUND PRESSURE EQUIPMENT.

10) 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.)

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 CONDITIONS AND TO ENSURE THE SYSTEM IS INSTALLED ACCORDING TO DESIGN

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. ANY ONGOING WORK SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

13) DRAIN FIELD SUPPLY AND RETURN LINES TO BE INSTALLED AT ADEQUATE DEPTH TO PREVENT FREEZING.

14) THIS DESIGN COMPLIES WITH THE "SEWAGE HANDLING AND DISPOSAL REGULATIONS"

15) OPERATION AND MAINTENANCE MANUAL TO BE PROVIDED AT JOB COMPLETION.

16) PRIOR TO STARTUP OF THE DRIP DISPOSAL SYSTEM THE AIR RELEASE VALVES SHALL BE REMOVED AND EACH ZONE IN THE SYSTEM SHALL BE FLUSHED AS FOLLOWS: a) USING AN APPROPRIATE LENGTH OF FLEXIBLE PVC PIPE W/ A MALE FITTING ATTACHED TO THE AIR RELEASE CONNECTION TO DIRECT THE FLUSHING AWAY FROM THE CONSTRUCTION AREA, b) FLUSH THE ZONE WITH A VOLUME OF WATER (CLEAN WATER TO BE PROVIDED BY CONTRACTOR) EQUAL TO 1,5 TIMES THE VOLUME OF THE PIPES FROM THE CENTRAL UNIT TO THE AIR RELEASE VALVE, c) REPEAT THIS PROCEDURE FOR EACH ZONE (THE FLUSHING SYSTEM IS ACCOMPLISHED BY MANUAL OVERRIDE OF THE CONTROL PANEL BY THE MANUFACTURER OR ENGINEER.)

HESS & ASSOCIATES **ENGINEERING INC**

12121 KINSMAN ROAD NEWBURY, OHIO 44065

Telephone: (440) 564-8008 Fax: (440) 564-8176

PREPARED UNDER THE



REVISIONS

Michael & Nicole Carlisle Property
HOUSEHOLD SEWAGE TREATMENT &
ONSITE DISPOSAL SYSTEM
OSE TANKI DETAILS & INSTALL NOTE: DOSE

Site Address

10180 Orchard Drive Parcel #20A022E000040 Kirtland Lake County-State of Ohio

Prepared For:

Otero Signature Home 8859 E. Washington St. Bainbridge, OH (216) 346-7301

HESS Project #11-079

DESIGNED BY: MT DRAWN BY CHECKED BY: GJH 10/2008

POSITIVE DRAINAGE.

SMALL TREES IN BASAL AREAS OF DRIP ZONES

SCARIFY IMMEDIATE AREAS TO MAX.

ADD 1-2" LAYER OF CLEAN CONCRETE

SIZE WITHIN 0.15-0.30 mm AND

WITH A TURTLE-BACK GRADE FOR

SAND AND MIX INTO SCARIFIED BASAL

UNIFORMITY COEFFICIENT WITHIN 4-6.

CONCRETE SAND - C-33 WITH EFFECTIVE

8" MINIMUM SETTLED CLEAN TOPSOIL COVER

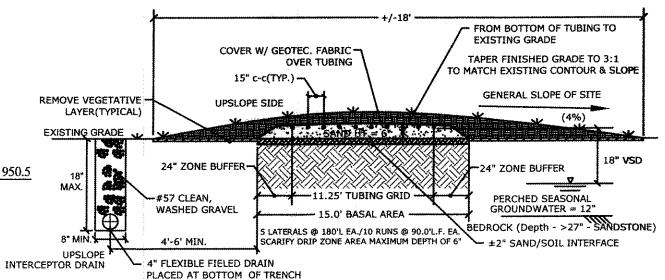
SEED AND STRAW TO COUNTY SPECIFICATIONS

THE INSTALLER SHALL CONTACT DESIGN ENGINEER 48 HOURS PRIOR TO START OF CONSTRUCTION, INSTALLER SHALL CONTACT DESIGN ENGINEER IN THE EVENT THAT ANY PORTION OF THE SYSTEM IS CHANGED DUE TO SITE CONDITIONS. DESIGN ENGINEER SHALL APPROVE OF ANY CHANGES. IN THE EVENT THAT CHANGES ARE MADE WITHOUT CONSULTATION WITH THE DESIGNER, INSTALLER SHALL TAKE FULL RESPONSIBILITY FOR THE SYSTEM.

THE INSTALLER SHALL SCHEDULE A START-UP WHERE THE INSTALLER, EQUIPMENT SUPPLIER, HEALTH DEPARTMENT, AND DESIGN ENGINEER ARE ALL PRESENT. THE TANKS SHALL BE FULL OF WATER SO THAT PUMP TESTS CAN BE PERFORMED. THE START UP SHALL INCLUDE DRAW DOWN TESTS, PUMP CYCLING TESTS, AND DRIP FIELD INSPECTION/PRESSURE TESTS.

OPERATION & MAINTENANCE:

THE INSTALLER SHALL BE REQUIRED TO PROVIDE SYSTEM INSPECTION AND MAINTENANCE FOR A PERIOD OF 12 MONTHS FROM START-UP. A LIFETIME SERVICE CONTRACT SHALL BE OFFERED TO THE HOMEOWNER IF REQUIRED BY THE Lake COUNTY ENVIRONMENTAL HEALTH DIVISION(CCHD). IN THE EVENT THAT THE SYSTEM DOES NOT OPERATE PROPERLY, THE INSTALLER SHALL CONTACT THE HEALTH DEPARTMENT AND SYSTEM DESIGNER FOR A FIELD VISIT TO DETERMINE CORRECTIVE



MICRO-MOUND DRIP TUBING INSTALLATION CROSS SECTION

6'-0'

DOSE PUMP DETAILS NOT TO SCALE

NOT TO SCALE

WASTEWATER SYSTEMS, INC

DRIP SYSTEM DETAILS PROVIDED BY:

SHALL BE REMOVED

DEPTH OF 6".

AREA(OPTIONAL)

SCALE