

LAYOUT 11 AM 5/28 INSP 4 7/22/03 12pm  
 LAYOUT 7/18/03 12pm INSP 5 7/24/03 12pm  
 INSP 3 7/21/03 9:30 INSP 6 7/29/03 10 AM

ISSUE DATE: 5/20/2003

P 518975

APPROVAL DATE: 7/29/03

A 514178

**PERMIT INDEXED**

**SANDMOUND SYSTEM  
 ON-SITE SEWAGE DISPOSAL SYSTEM  
 HOWARD COUNTY HEALTH DEPARTMENT  
 BUREAU OF ENVIRONMENTAL HEALTH**

**05-395976**

Hatfield's Equipment IS PERMITTED TO INSTALL  ALTER

ADDRESS: 13785 Burntwoods Rd, Glenelg PHONE NUMBER: 301-854-6172

SUBDIVISION: Brighton Pines LOT NUMBER: 1

ADDRESS: 13702 Lakeside Drive PROPERTY OWNER: Douglas Homes, Inc.

SEPTIC TANK CAPACITY (GALLONS): 1500 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): 1500 COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4-5

LOCATION:	Sand Mound to be installed per approved Sand Mound Plans by S/E Engineering dated 9/20/02, the approved building permit site plan by F.C.C. and see the letter from Ronald J. Pinkley, dated 9/23/2002.
NOTES:	The entire Sand Mound SDA is to be staked. Heavy equipment is not allowed on or directly down hill of the Sand Mound SDA. <i>Basement service by gravity is proposed</i>

PLANS APPROVED: Steven R. Krieg *OK SRK 2/4/03* DATE: 12/20/2002

NOTES: PERMIT VOID AFTER 2 YEARS  
 CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS  
 WATERTIGHT SEPTIC TANKS REQUIRED  
 ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED  
 MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED  
 CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**  
 ALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

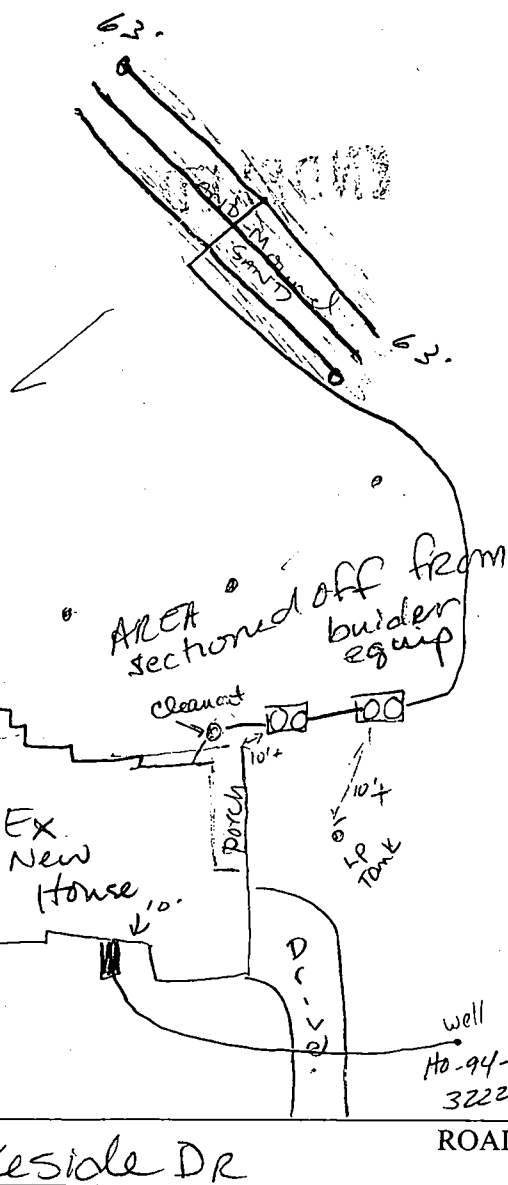
**BUILDING PERMIT SIGNED AND RETURNED**

- 7-11-03 BOU 142909 - LP TANK
- 3-24-04 BOU 147009 - DECK
- 8-18-05 BOU 155576 - SUN DECK
- 8-18-05 BOU 155357 - IG POOL
- 10-5-05 BOU 156350 - ADDING Bedroom

A514178

1500 Comp. S.I.

NOT TO SCALE



**DOSING CHAMBER**

Tank Level

Capacity 1500 Gal

Seam Location TOP seam

Tank Lid Depth 30"

Manhole Location front, back

Water Tight Test NO

Baffle Filter installed

**FLOAT SETTINGS**

Low Off 1 \_\_\_\_\_

Low On 2 \_\_\_\_\_

High On 3 \_\_\_\_\_

Alarm 4 \_\_\_\_\_

Dose Volume \_\_\_\_\_

**SAND MOUND I**

Bed Length 70

Bed Width 7

Bed Area 490 sq ft

Mound Length 95

Mound Width 33

Mound Area 3135

Basal Area \_\_\_\_\_ sq ft

**SAND MOUND II**

Bed Length \_\_\_\_\_

Bed Width \_\_\_\_\_

Bed Area \_\_\_\_\_ sq ft

Mound Length \_\_\_\_\_

Mound Width \_\_\_\_\_

Mound Area \_\_\_\_\_

Basal Area \_\_\_\_\_ sq ft

5/20/03 - SRA stakes missing on lower side, want Inspector on site when contractor shoots grades. Contour appears to be off PRE-CONSTRUCTION from upper stakes. Need to find sequence Ron P. refers to in his letter of 9/23/03. House conn. hung, not under footer as on B.P. INSTALLATION Does need baffle filter (SO) Check proximity to bio-cover

7/10/03 Shot contours, mark area of gravel bed. OK to begin if ground is dry (SO) 7/21/03 ground scratched, will be finished AND RETURNED

Coming tomorrow (SO) 7/22/03 Well line sleeved under driveway. Distributing sand over s.m. area. Still need baffle filter installed.

Jeff, went to SM class on site. Showed sandmound plan & discussed with Donny. Will cover SM if raining. (KN) 7/23/03 Sand, gravel, laterals installed, OK to continue (SO) 7/24/03 footer, clay cap, top soil installed (SO)

7/29/03 Pump & Alum tests OK (SO)

FINAL INSPECTOR [Signature] DATE OF APPROVAL 7/29/03

**SEDIMENT CONTROL NOTES**

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (03-10-99)
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERE TO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 30 CALENDAR DAYS FOR ALL PERMITS. SEDIMENT CONTROL STRUCTURES, DICES, PROTECTIVE SLOPES AND ALL SLOPES STEEPER THAN 3:1, 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND MAINTAINED AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 50, 500 (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- CONTROL INSPECTOR.
- SITE ANALYSIS:
  - TOTAL AREA OF SITE: 7,298 ACRES
  - AREA DISTURBED: 117.3 ACRES
  - AREA TO BE ROOFED OR PAVED: 0.15 ACRES
  - AREA TO BE VEGETATIVELY STABILIZED: 142.2 ACRES
  - TOTAL C.U.Y.D.S.: 2550 C.U.Y.D.S.
  - OFFSITE WASTE/BOSSOW AREA LOCATION
- ANY SEDIMENT CONTROL PRACTICES WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION. FURTHER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

**SEQUENCE OF CONSTRUCTION**

- OBTAIN GRADING PERMIT.
- INSTALL SEDIMENT CONTROLS AS SHOWN ON PLAN. (2 days)
- PERFORM NECESSARY GRADING AND STABILIZE THE SITE. (2 days)
- CONSTRUCT DWELLING ON LOT. (90 days)
- AFTER THE SITE IS STABILIZED AND PERMISSION IS GRANTED FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS AND STABILIZE ANY REMAINING DISTURBED AREAS.

**TEMPORARY SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

**SEEDING PREPARATION**

LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

**SOIL AMENDMENTS**

APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 LBS./1000 SQ. FT.)

**SEEDING**

FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH NOVEMBER 15, SEED WITH 1 1/2 BUSHEL PER ACRE (13.2 LBS./1000 SQ. FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS./ACRE OF WEEDING LOVEGRASS (07 LBS./1000 SQ. FT.) FOR THE PERIODS NOVEMBER 15 THRU FEBRUARY 29. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOU.

**MULCHING**

APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 1/2 GALLONS PER ACRE (5 GALL./1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES, ON SLOPES 8 FEET OR HIGHER, USE 3/8 GALLONS PER ACRE (9 GALL./1000 SQ. FT.) FOR ANCHORING. REFER TO THE 1989 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**PERMANENT SEEDING NOTES**

ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:

**SEEDING PREPARATION**

LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

**SOIL AMENDMENTS**

APPLY TWO TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ. FT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER (4 LBS./1000 SQ. FT.) BEFORE SEEDING HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT THE TIME OF SEEDING, APPLY 400 LBS. PER ACRE 38-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ. FT.) AND 500 LBS. PER ACRE (11.5 LBS./1000 SQ. FT.) OF 10-20-20 FERTILIZER.

**SEEDING**

FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 100 LBS. PER ACRE (2.3 LBS./1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE, FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 50 LBS./ACRE (1.4 LBS./1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE (0.05 LBS./1000 SQ. FT.) OF WEEDING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 29, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 500. OPTION (3) - SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEEDING.

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**MAINTENANCE**

INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

\* FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROWNWEED AT 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 40 LBS./ACRE AS THE SEEDING REQUIREMENT. OPTIMUM SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.

**TOPSOIL SPECIFICATIONS**

SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING: TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURE SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINNERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STEEL, ROOTS, TWIGS OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.

TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTCRACK, POKER WEE, TRISTLE, OR OTHERS AS SPECIFIED.

WHERE THE TOPSOIL IS EITHER HEAVILY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.

**ADDRESS CHART**

LOT NUMBER	STREET ADDRESS
1	LAKESIDE DRIVE
23	LAKESIDE DRIVE

**LEGEND**

SYMBOL	DESCRIPTION
----	EXISTING CONTOUR 2' INTERVAL
+362.50	SPOT ELEVATION
-SF-SF-	SILT FENCE AND TREE PROTECTION
L.O.D.	LIMIT OF DISTURBANCE

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**SEQUENCE OF CONSTRUCTION**

- OBTAIN GRADING PERMIT. 1 DAY
- INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN. 1 DAY
- CLEAR AND GRUB TO LIMITS OF DISTURBANCE AND MASS GRADE TO SUB-BASE. 1 DAY
- INSTALL TEMPORARY SEEDING. 1 DAY
- CONSTRUCT BUILDINGS. 2 MONTHS
- FINISH GRADE SITE AND INSTALL PERMANENT SEEDING AND LANDSCAPE. 1 DAY
- REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED AND PERMISSION IS GRANTED BY E/S CONTROL INSPECTOR. 2 DAYS

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**SEEDING PREPARATION**

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WHERE THE TOPSOIL IS EITHER HEAVILY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.

**SEQUENCE OF CONSTRUCTION**

- OBTAIN GRADING PERMIT. 1 DAY
- INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN. 1 DAY
- CLEAR AND GRUB TO LIMITS OF DISTURBANCE AND MASS GRADE TO SUB-BASE. 1 DAY
- INSTALL TEMPORARY SEEDING. 1 DAY
- CONSTRUCT BUILDINGS. 2 MONTHS
- FINISH GRADE SITE AND INSTALL PERMANENT SEEDING AND LANDSCAPE. 1 DAY
- REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED AND PERMISSION IS GRANTED BY E/S CONTROL INSPECTOR. 2 DAYS

**TEMPORARY SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

**SEEDING PREPARATION**

LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

**SOIL AMENDMENTS**

APPLY TWO TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ. FT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER (4 LBS./1000 SQ. FT.) BEFORE SEEDING HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT THE TIME OF SEEDING, APPLY 400 LBS. PER ACRE 38-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ. FT.) AND 500 LBS. PER ACRE (11.5 LBS./1000 SQ. FT.) OF 10-20-20 FERTILIZER.

**SEEDING**

FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 100 LBS. PER ACRE (2.3 LBS./1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE, FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 50 LBS./ACRE (1.4 LBS./1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE (0.05 LBS./1000 SQ. FT.) OF WEEDING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 29, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 500. OPTION (3) - SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEEDING.

**MULCHING**

APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE (5 GALL./1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES, ON SLOPES 8 FEET OR HIGHER, USE 3/8 GALLONS PER ACRE (9 GALL./1000 SQ. FT.) FOR ANCHORING.

**MAINTENANCE**

INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

\* FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROWNWEED AT 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 40 LBS./ACRE AS THE SEEDING REQUIREMENT. OPTIMUM SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.

**TOPSOIL SPECIFICATIONS**

SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING: TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURE SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINNERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STEEL, ROOTS, TWIGS OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.

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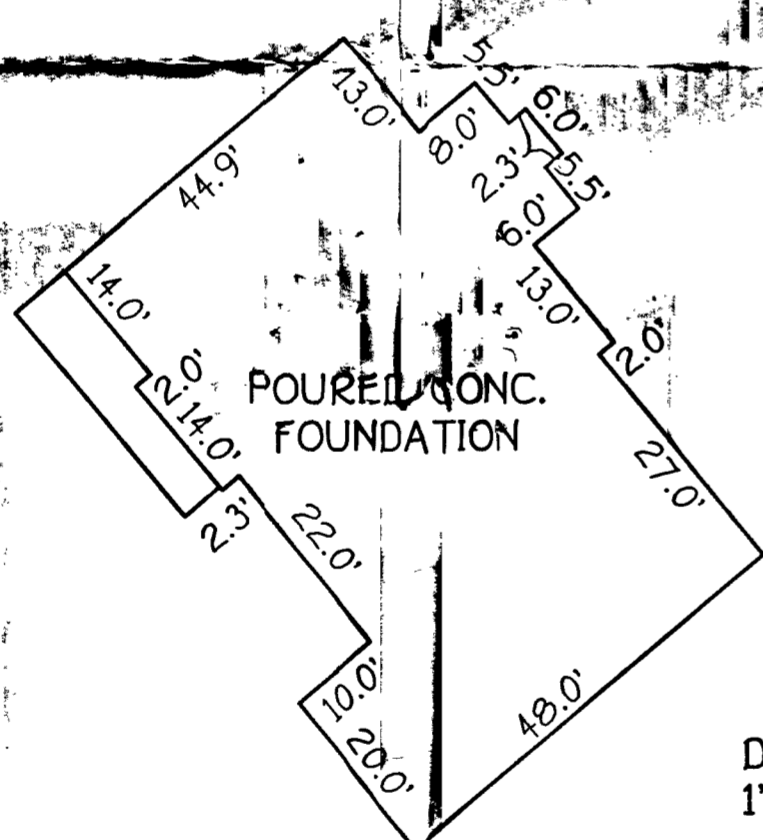
**SEQUENCE OF CONSTRUCTION**

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- INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN. 1 DAY
- CLEAR AND GRUB TO LIMITS OF DISTURBANCE AND MASS GRA

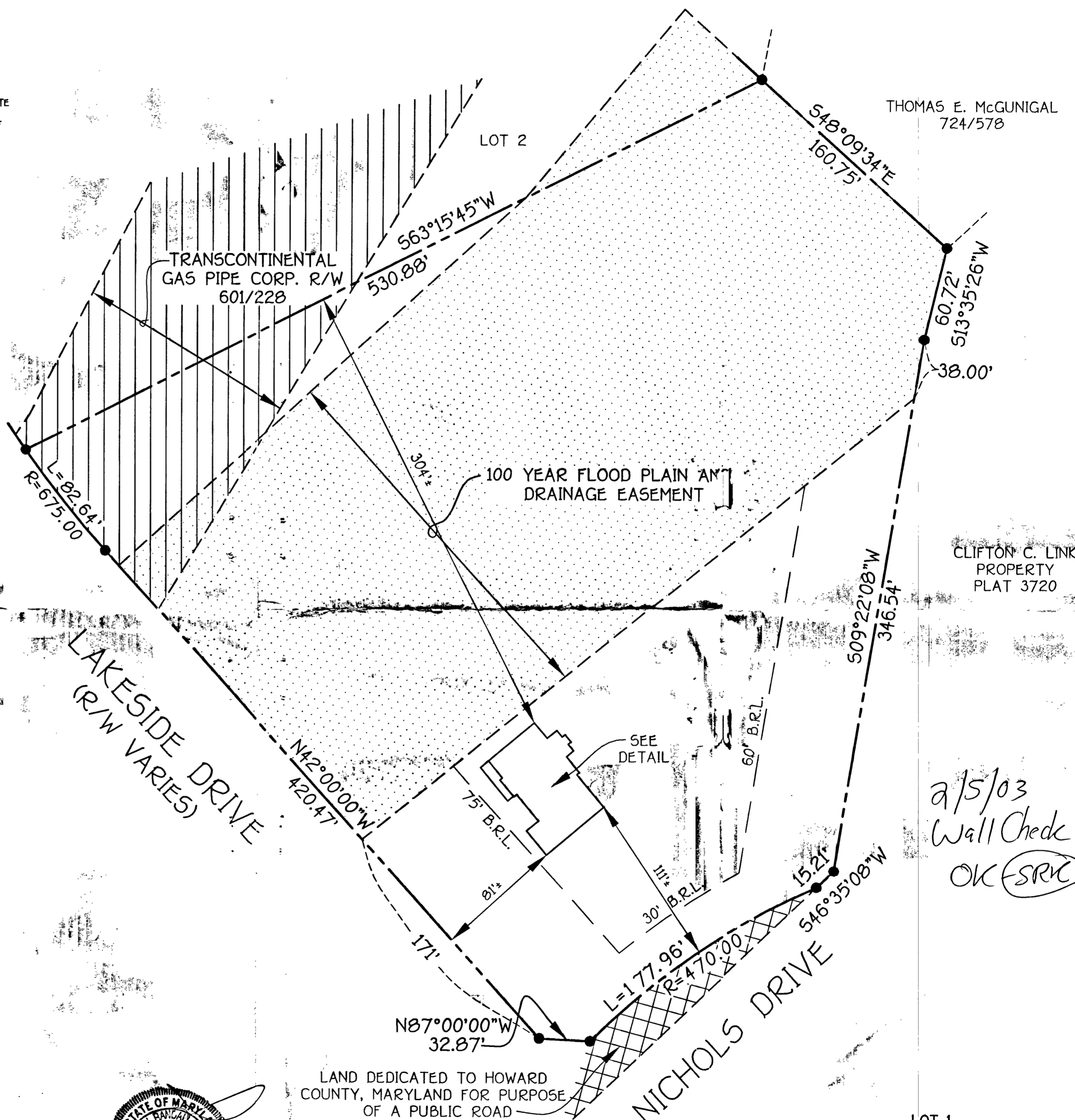


**GENERAL NOTES:**

- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE COMPLETED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS LOCATION DRAWING IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS LOCATION DRAWING DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING FOR RE-FINANCING.
- 2) SUBJECT PROPERTY IS SHOWN IN ZONE C ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 2400440032 BEFFECTIVE DEC. 4, 1986.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 1' (±)
- 4) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.



DETAIL:  
1"=20'



THOMAS E. MCGUNIGAL  
724/578

CLIFTON C. LINK  
PROPERTY  
PLAT 3720

2/15/03  
Wall Check  
OK (SRC)

LAND DEDICATED TO HOWARD COUNTY, MARYLAND FOR PURPOSE OF A PUBLIC ROAD

LOT 1  
BRIGHTON PINES  
SECTION ONE, AREA ONE  
LOTS 1-23  
FIFTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
B.R.L. = BUILDING RESTRICTION LINE  
PLAT REF. 6010

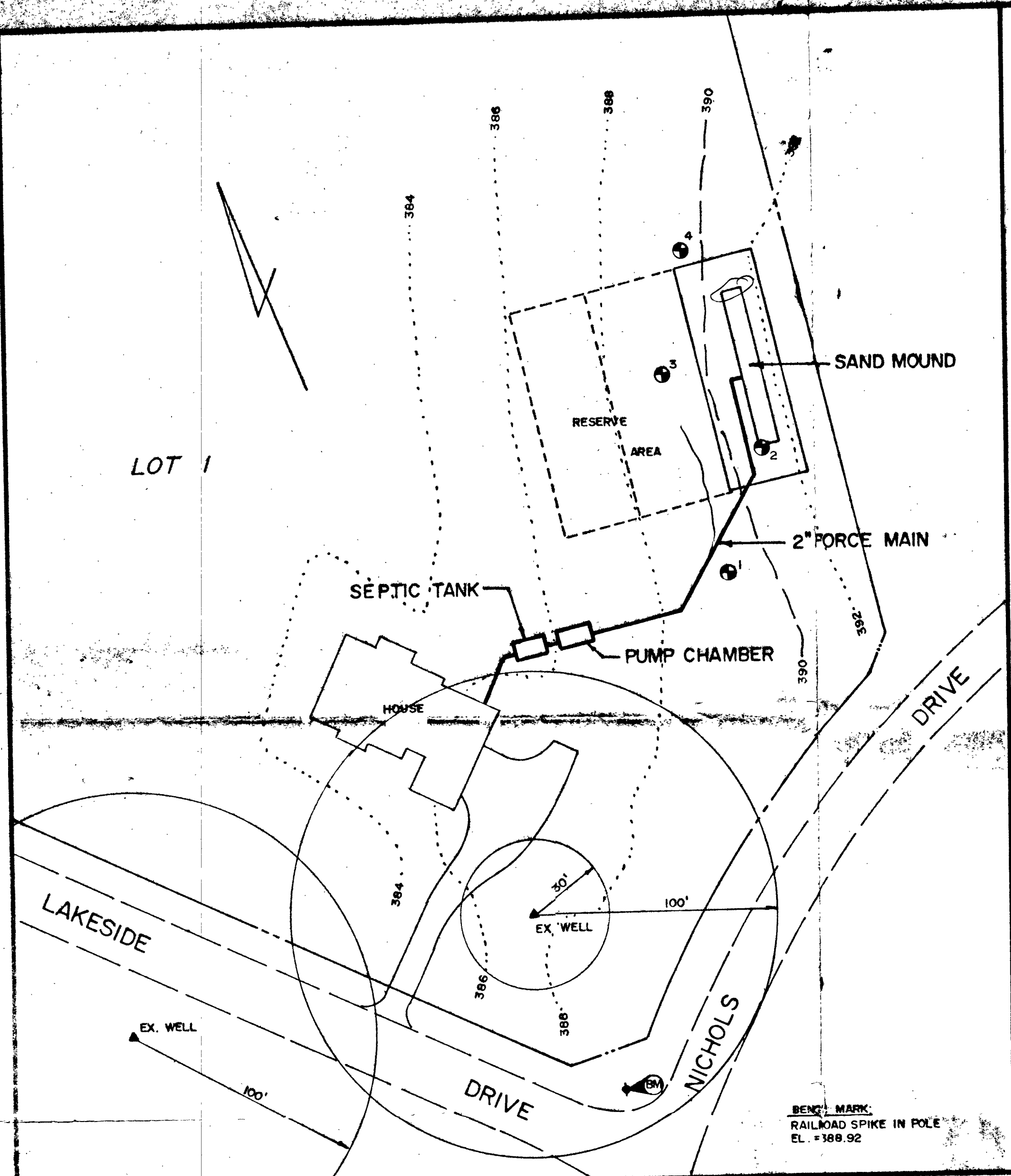
**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21042  
(410) 461-2855



PROFESSIONAL LAND SURVEYOR DATE 2/15/03  
REG. 681

FOUNDATION LOCATION: 1/23/03  
FINAL LOCATION:  
BOUNDARY SURVEY:  
SCALE: 1"=50'  
DATE: 2/15/03  
DRAWN BY: A.R.D.  
CHECKED BY: S.R.P.  
PROJECT No. 61734

B.R.L. = BUILDING RESTRICTION LINE  
TOP OF FOUNDATION ELEV. 395.1'



**SITE PLAN**  
SCALE: 1" = 40'

**DESIGN CRITERIA**

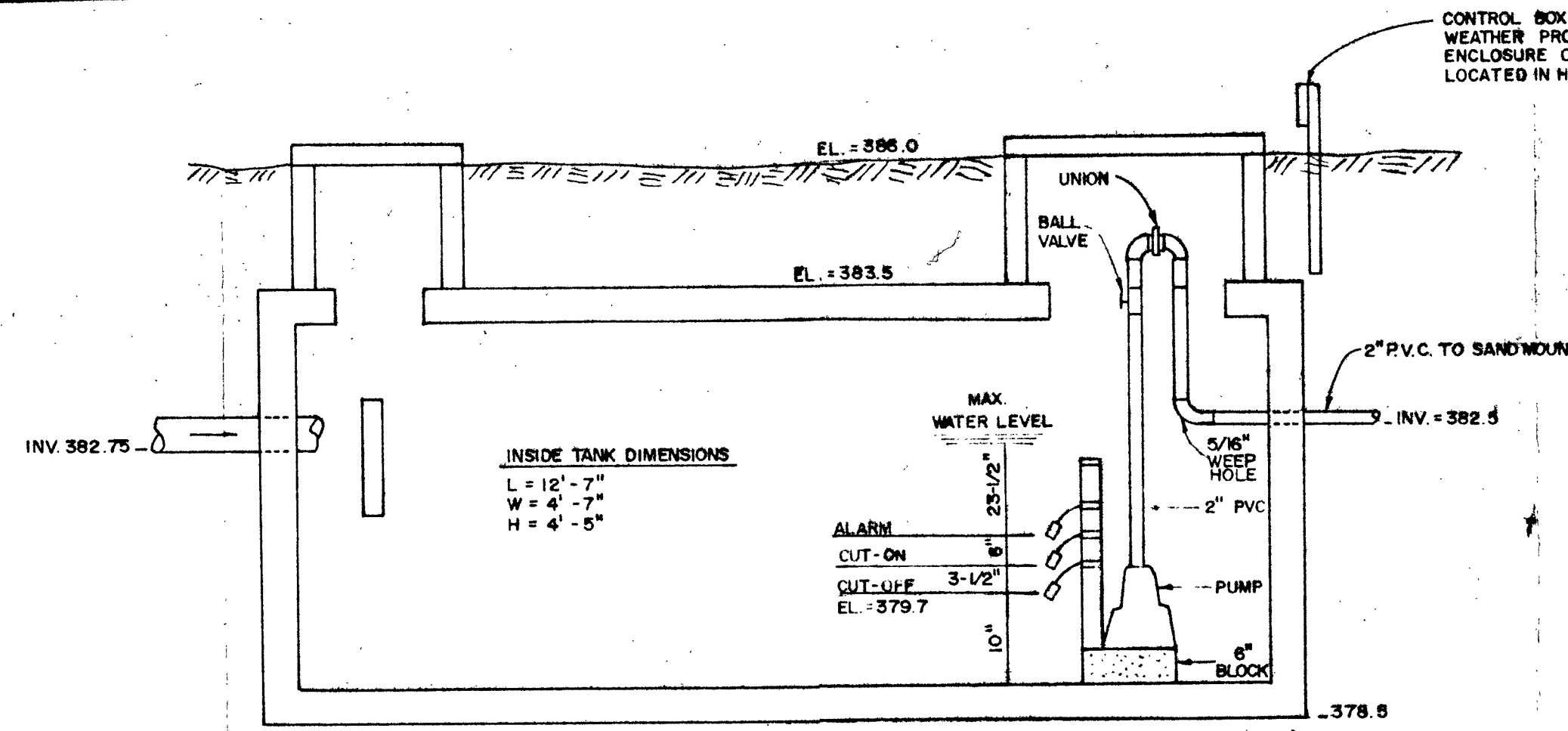
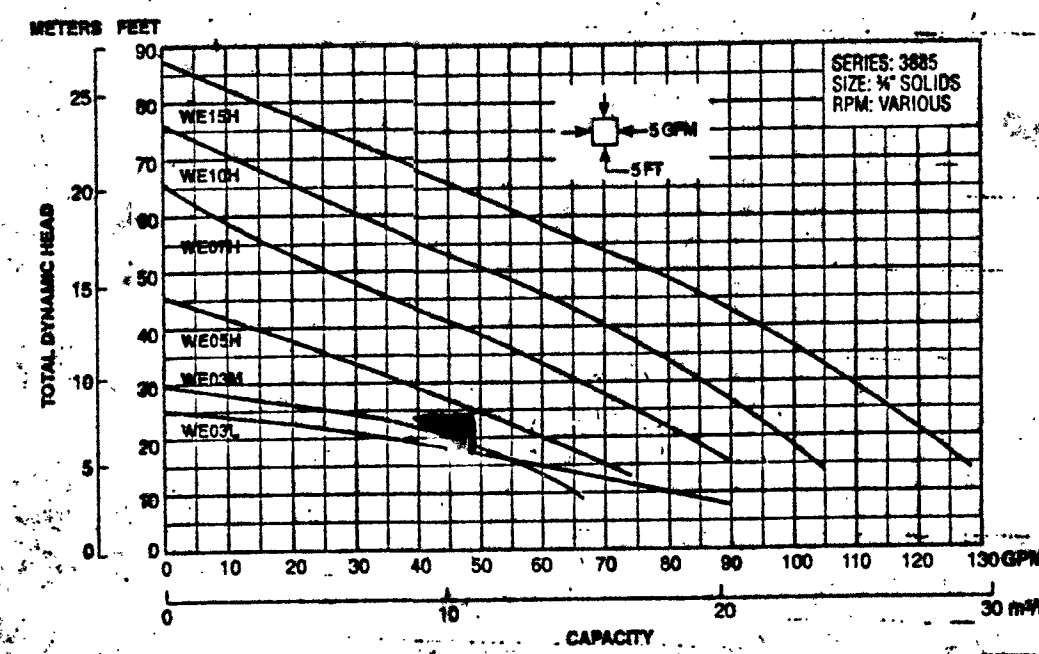
5 Bed Rooms x 150 = 750 GPD  
 Loading Rate: 1.2 GPD/Sq. Ft. = 625 Sq. Ft.  
 Bed 9' x 70' = 630 Sq. Ft.  
 1,500 GAL. Top Seam Compartmented Septic Tank  
 1,500 GAL. Top Seam Pump Chamber  
 1 - Septic effluent filter (required due to proximity to water supply reservoir)  
 Pump Rate = 30 Perforations @ 1.63 GPM = 49 GPM  
 Mound Length = 95'-2"  
 Mound Width = 33'

**SOIL TEST**

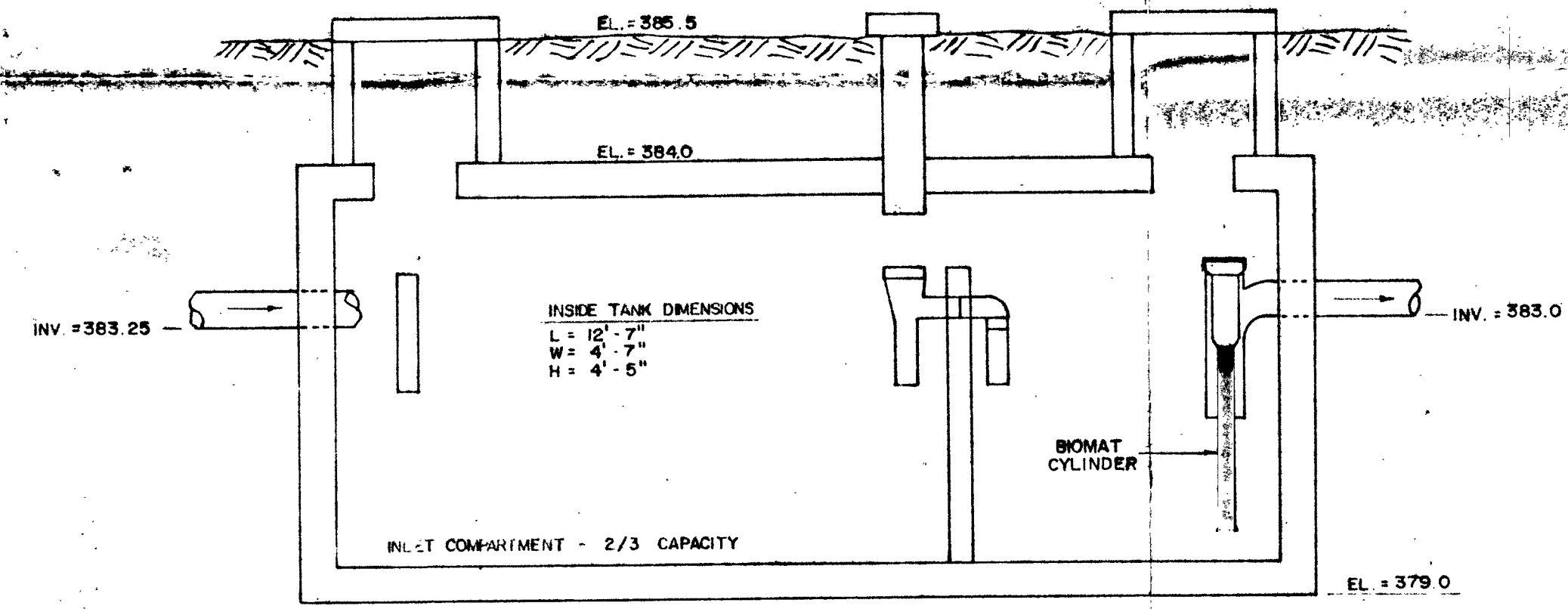
- 1-1 - 1 inch in 15 min. @ 24"
- 1-2 - 1 inch in 10 min @ 23"
- 1-3 - 1 inch in 15 min. @ 26"
- 1-4 - 1 inch in 10 min. @ 23"

**SPECIFICATIONS**

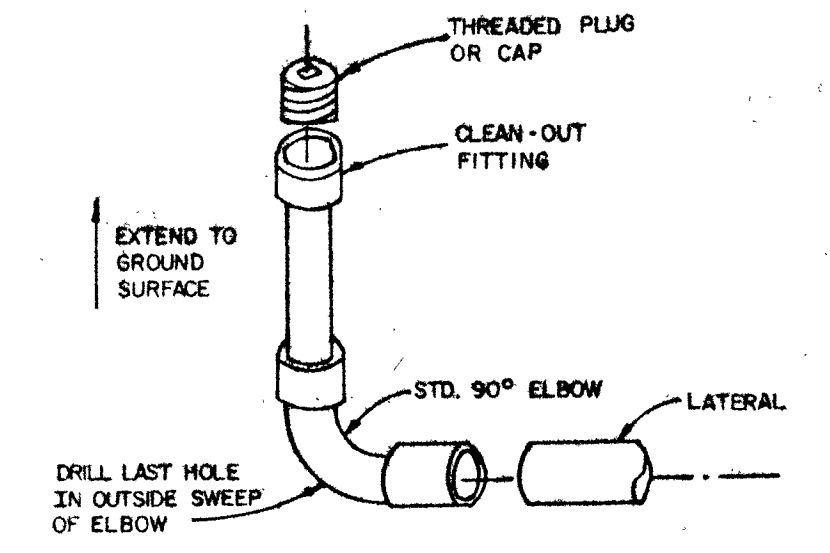
- Tank measurements and elevations are based on septic tanks and pump chambers as manufactured by Mayer Bros., Elkridge, Md. (410) 796-1434.
- All piping to be schedule 40 PVC of sizes shown.
- The force main from the pump chamber to the sand bed is to be installed with a continuous slope back to the chamber to assure complete drainage following each pump cycle.
- A submersible pump to remove 49 GPM against 24' TDH is to be provided. Pump to be a Goulds Model 3885 - WED 0514, 1/2 h.p., or equal.
- A test of the pump system and distribution piping is required prior to covering the system.
- The High Water Alarm is to be on a separate circuit. Alarm to be located in the house.
- An effluent filter is to be installed on the septic tank outlet as shown. The filter should be a Residential model as manufactured by Zoeller Pump Co., Louisville Ky. or equal.



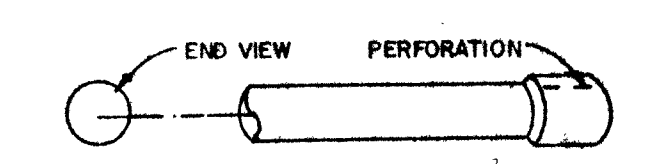
**TOP SEAM 1500 GAL. PUMP CHAMBER**  
NOT TO SCALE



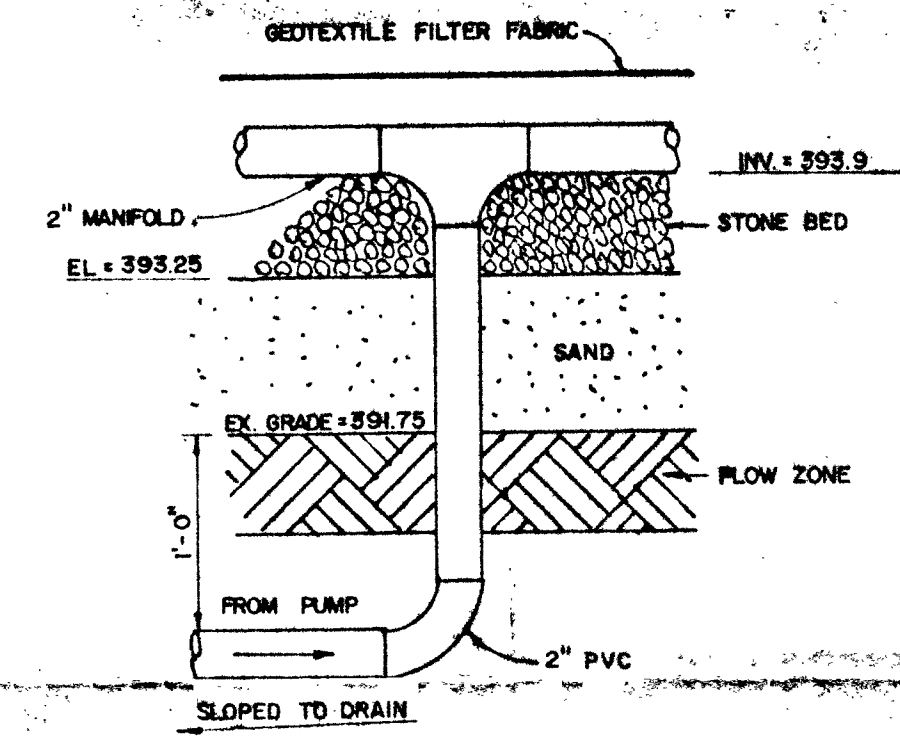
**TOP SEAM 1500 GAL. SEPTIC TANK.**  
NOT TO SCALE



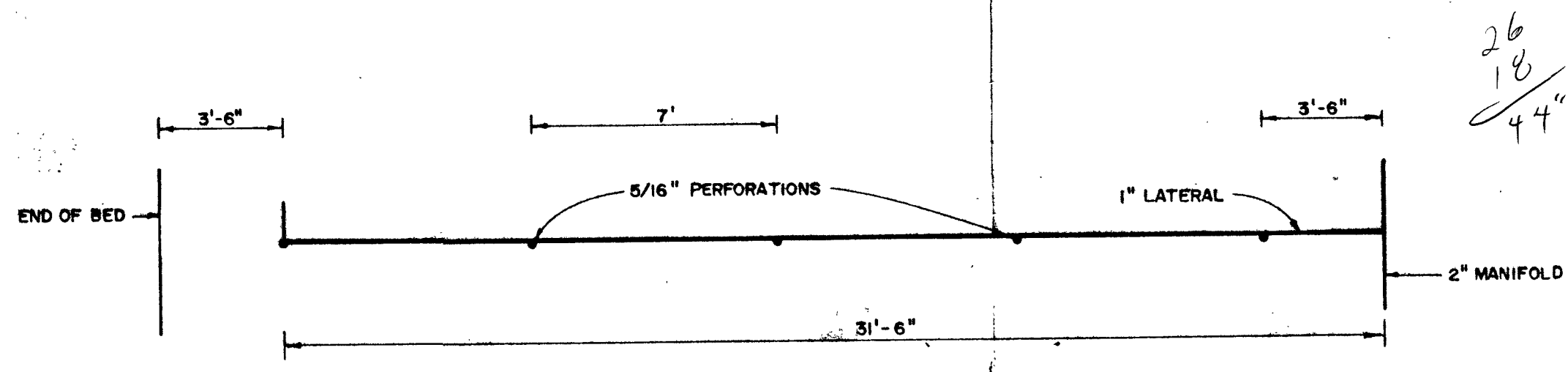
**LATERAL END TURN-UP**  
USE ON LATERAL FARTHEST FROM PUMP AND DIAGONALLY ACROSS BED  
NOT TO SCALE



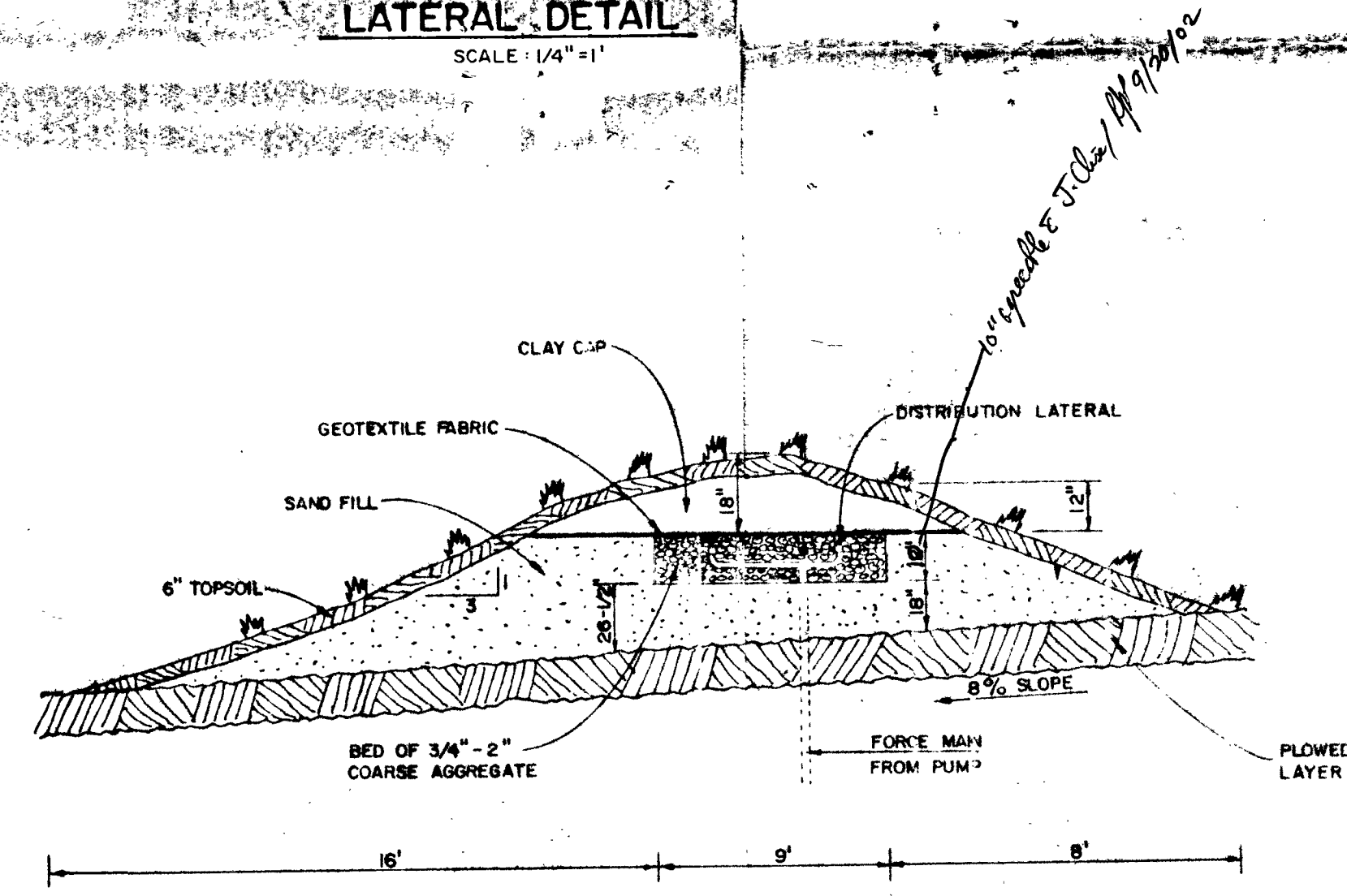
**LATERAL END CAP**  
USE ON LATERALS NOT EQUIPPED WITH TURN-UP  
NOT TO SCALE



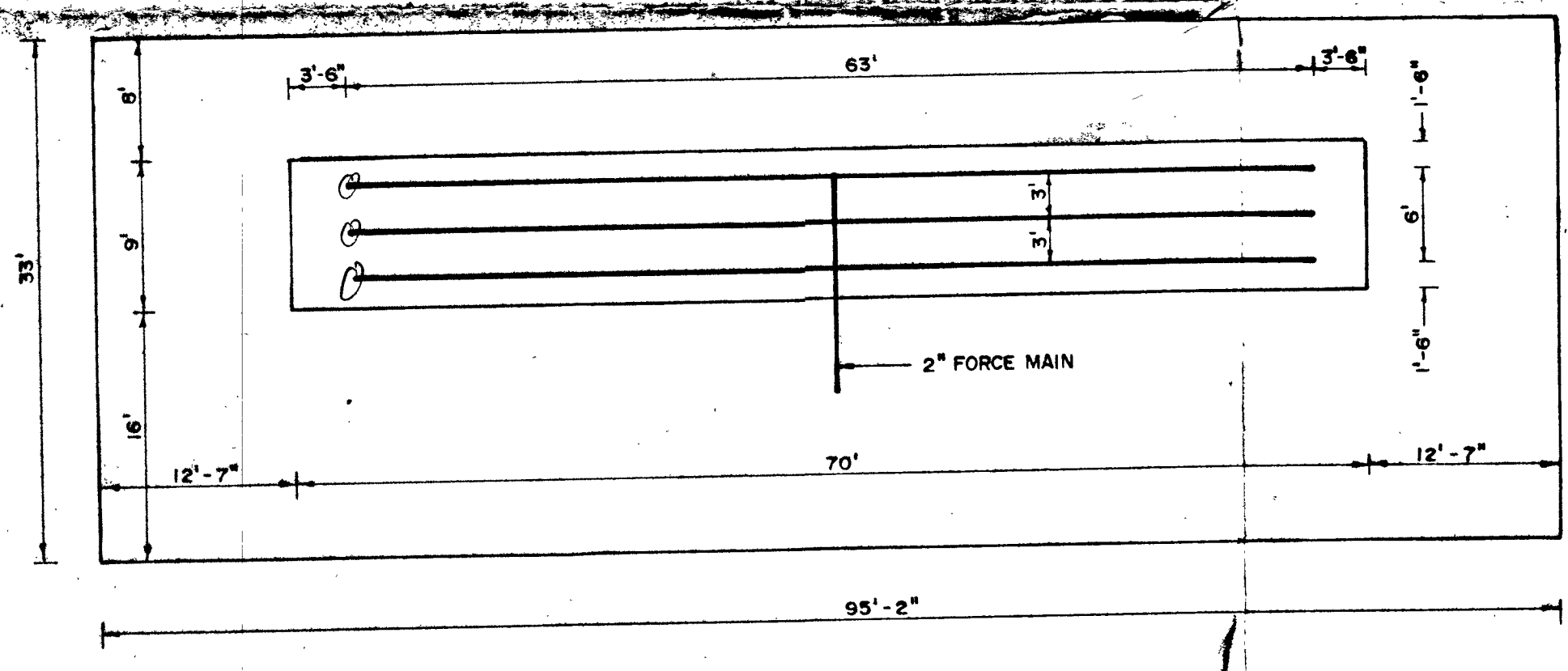
**SUPPLY LINE - MANIFOLD DETAIL**  
NOT TO SCALE



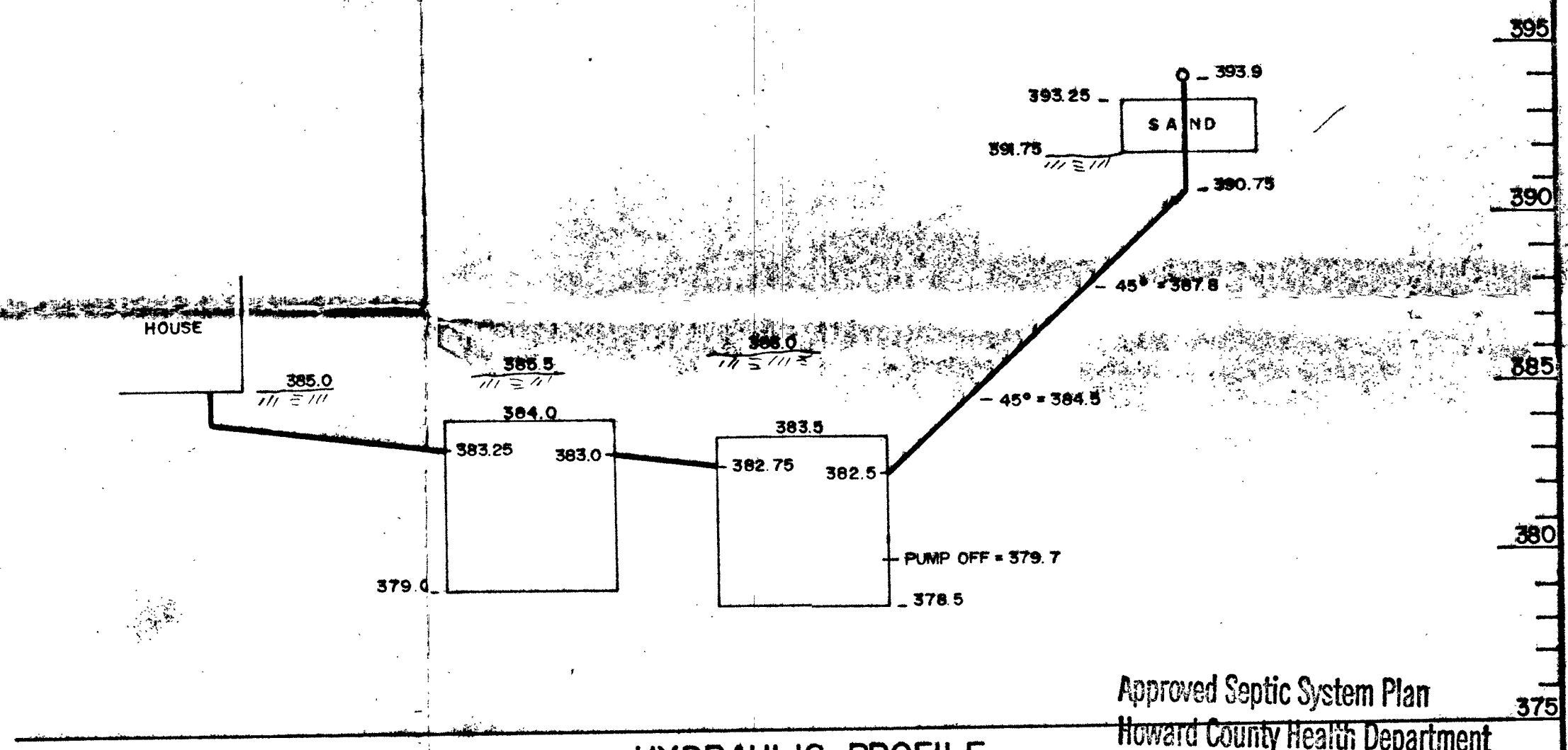
**LATERAL DETAIL**  
SCALE: 1/4" = 1'



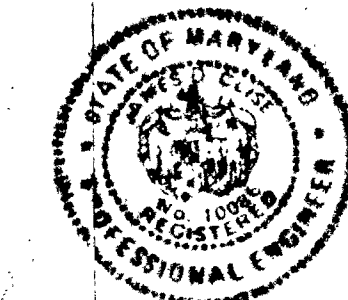
**MOUND DESIGN**  
NOT TO SCALE



**MOUND LAYOUT**  
SCALE: 1" = 10'



**HYDRAULIC PROFILE**  
SCALE: 1/4" = 1' H.N.T.S.



*James D. Clise*

Approved Septic System Plan  
 Howard County Health Department

<b>S/E ENGINEERING, INC.</b> WESTMINSTER, MARYLAND		
SCALE: AS SHOWN	APPROVED: JDC	DRWN: RSK
DATE: SEPT. 2002		DES: JDC
BRIGHTON PINES - LOT 1 HOWARD COUNTY		
SANDMOUND		DRAWING NO. 1 OF 1