

B11002783

Hunt Crossing

Building Address: \_\_\_\_\_  
 Suite/Apt. # \_\_\_\_\_ SDP/WP/BA #: \_\_\_\_\_  
 Census Tract: \_\_\_\_\_ Subdivision: \_\_\_\_\_  
 Section: \_\_\_\_\_ Area: \_\_\_\_\_ Lot: \_\_\_\_\_  
 Tax Map: \_\_\_\_\_ Parcel: \_\_\_\_\_ Grid: \_\_\_\_\_  
 Zoning: \_\_\_\_\_ Map Coordinates: \_\_\_\_\_ Lot Size: \_\_\_\_\_

Existing Use: \_\_\_\_\_  
 Proposed Use: \_\_\_\_\_  
 Estimated Construction Cost: \$ \_\_\_\_\_  
 Description of Work: \_\_\_\_\_  
 Occupant or Tenant: \_\_\_\_\_  
 Was tenant space previously occupied?  Yes  No  
 Contact Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Property Owner's Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Home Phone: \_\_\_\_\_ Work Phone: \_\_\_\_\_  
 Applicant's Name & Mailing Address, (If other than stated herein): \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Contractor Company: \_\_\_\_\_  
 Contact Person: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 License No. : \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Engineer/Architect Company: \_\_\_\_\_  
 Responsible Design Prof.: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

**BUILDING DESCRIPTION - COMMERCIAL**

Building Characteristics	Utilities
Height:	<u>Water Supply</u>
No. of stories:	<input type="checkbox"/> Public
Gross area, sq. ft./floor:	<input type="checkbox"/> Private
	<u>Sewage Disposal</u>
Area of construction (sq. ft.):	<input type="checkbox"/> Public
	<input type="checkbox"/> Private
Use group:	Electric: <input type="checkbox"/> Yes <input type="checkbox"/> No
	Gas: <input type="checkbox"/> Yes <input type="checkbox"/> No
<u>Construction type:</u>	<u>Heating System</u>
<input type="checkbox"/> Reinforced Concrete	<input type="checkbox"/> Electric <input type="checkbox"/> Oil
<input type="checkbox"/> Structural Steel	<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas
<input type="checkbox"/> Masonry	<u>Sprinkler System:</u>
<input type="checkbox"/> Wood Frame	<input type="checkbox"/> N/A
<input type="checkbox"/> State Certified Modular	<input type="checkbox"/> Full
<input checked="" type="checkbox"/> <b>Roadside Tree Project Permit</b>	<input type="checkbox"/> Partial
<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Other Suppression
<b>Roadside Tree Project Permit #</b>	No. of Heads:

**BUILDING DESCRIPTION - RESIDENTIAL**

Building Characteristics	Utilities
<input type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse	<u>Water Supply</u>
<u>Depth</u> <u>Width</u>	<input type="checkbox"/> Public
1 <sup>st</sup> floor:	<input type="checkbox"/> Private
2 <sup>nd</sup> floor:	<u>Sewage Disposal</u>
Basement:	<input type="checkbox"/> Public
<input type="checkbox"/> Finished Basement	<input type="checkbox"/> Private
<input type="checkbox"/> Unfinished Basement	Electric: <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Crawl Space	Gas: <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Slab on Grade	<u>Heating System</u>
No. of Bedrooms:	<input type="checkbox"/> Electric
<u>Multi-family Dwelling</u>	<input type="checkbox"/> Oil
No. of efficiency units:	<input type="checkbox"/> Natural Gas
No. of 1 BR units:	<input type="checkbox"/> Propane Gas
No. of 2 BR units:	
No. of 3 BR units:	
Other Structure:	
Dimensions:	
Footings:	<input checked="" type="checkbox"/> <b>Roadside Tree Project Permit</b>
Roof:	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> State Certified Modular	<b>Roadside Tree Project Permit #</b>
<input type="checkbox"/> Manufactured Home	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature \_\_\_\_\_  
 Email Address \_\_\_\_\_  
 Title/Company \_\_\_\_\_

Print Name \_\_\_\_\_  
 Date \_\_\_\_\_

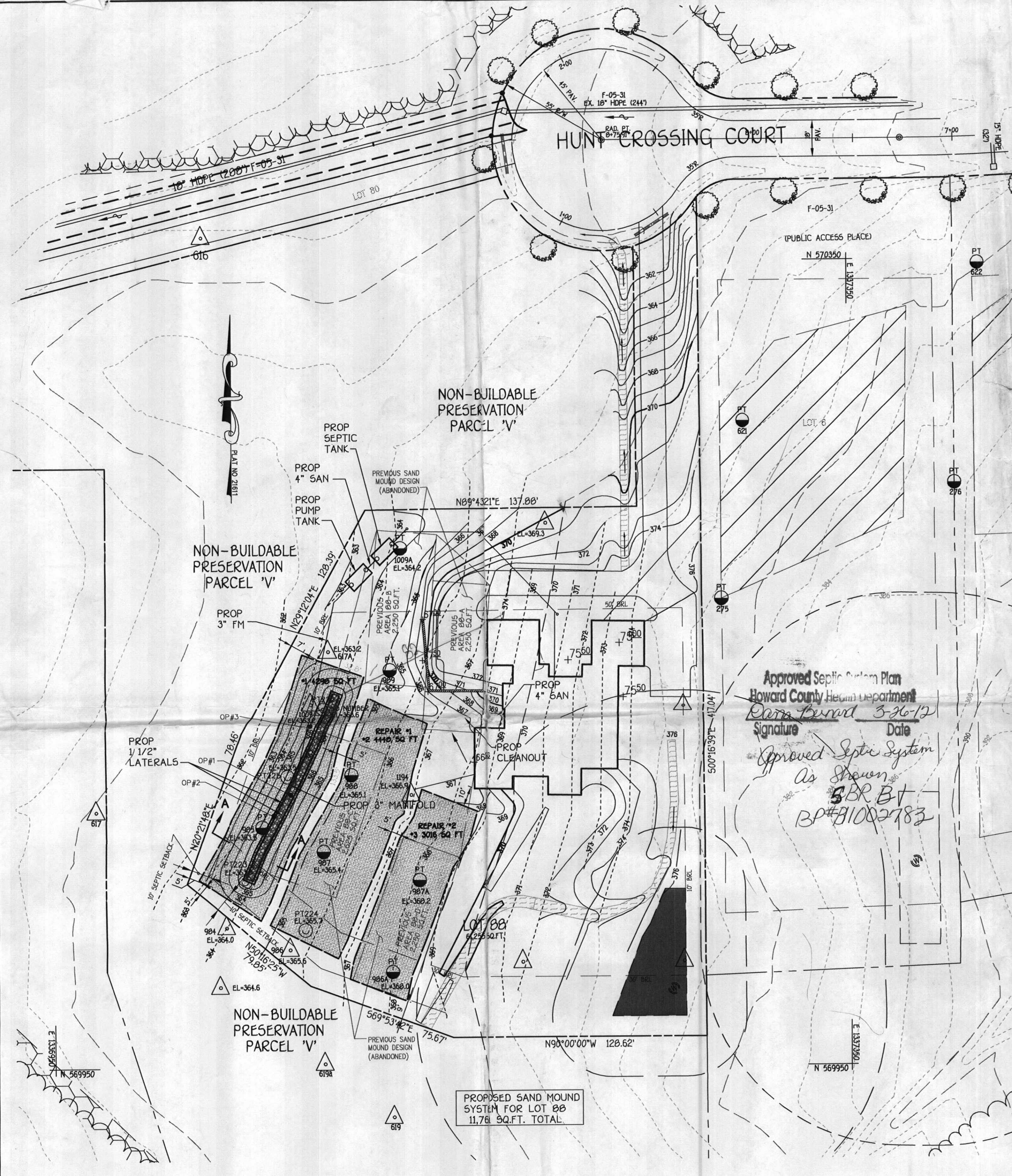
Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY  
 \*\*PLEASE WRITE NEATLY & LEGIBLY\*\*  
 -FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA ( Zoning )		
PSZA ( Engineering )		
Health	3/26/12	D. Bernard
Fire Protection		

**DPZ SETBACK INFORMATION**

Front: \_\_\_\_\_  
 Rear: \_\_\_\_\_  
 Side: \_\_\_\_\_  
 Side St.: \_\_\_\_\_  
 All minimum setbacks met?  Yes  No  
 Is Entrance Permit Required?  Yes  No  
 Historic District?  Yes  No  
 Lot Coverage for New Town Zone: \_\_\_\_\_  
 SDP/Red-line approval date: \_\_\_\_\_

Filing Fee	\$
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub- Total Paid	\$
Balance Due	\$



PROPOSED SAND MOUND SYSTEM FOR LOT 88  
11,768 SQ.FT. TOTAL

PLAN  
SCALE: 1" = 30'

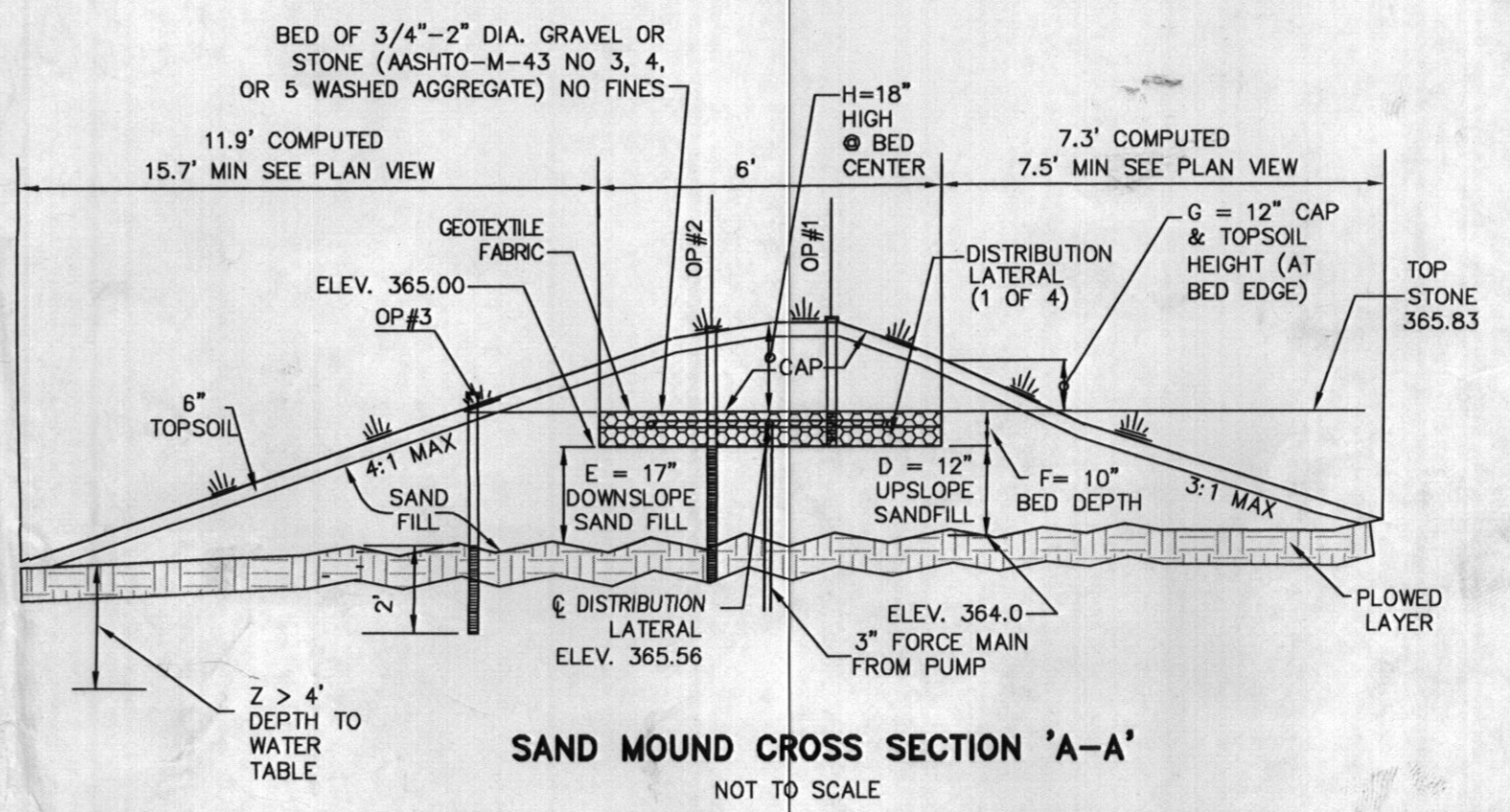
INV. AT HOUSE	364.50
GRD. AT INV. AT HOUSE	375.75
INV. IN SEPTIC TANK	360.86
INV. OUT SEPTIC TANK	360.69
TOP OF SEPTIC TANK	361.60
GROUND OVER SEPTIC TANK	363.60 (⊙)
INV. IN PUMP TANK	360.29
INV. PUMP INLET	356.70
GROUND OVER PUMP TANK	361.40 (⊙)

NOTES:

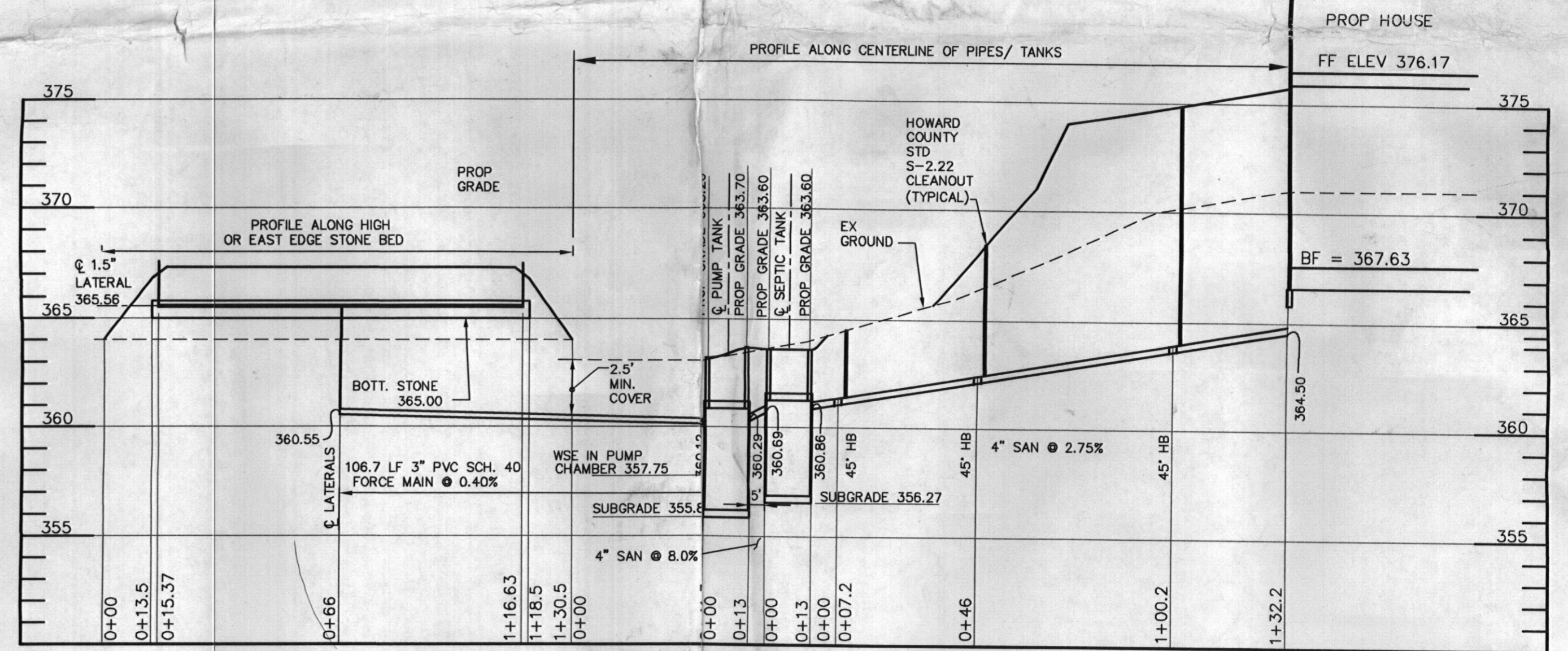
- ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100' OF THE PROPERTY BOUNDARIES HAVE BEEN SHOWN. ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWNGRADIENT OF ANY EXISTING OR PROPOSED SEPTIC SYSTEM AND SEWAGE DISPOSAL EASEMENTS HAVE BEEN SHOWN. THE ENGINEER HAS USED ALL EFFORTS TO FIND THE LOCATIONS OF ALL SURROUNDING WELLS AND SEPTIC SYSTEMS.
- ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- CONTACT THE HEALTH DEPARTMENT AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION TO SECURE APPROVAL OF THE LAYOUT AND TO VERIFY THAT SOIL CONDITIONS ARE SUITABLE FOR MOUND CONSTRUCTION.

SEPTIC SYSTEM REQUIREMENTS/COMPONENTS/SPECIFICATIONS

- The waste load will exit the building by a gravity line, which conveys the waste to the septic tank.
  - A 2000 gal. conc. septic tank shall be installed.
  - From the septic tank, the effluent will flow into a second tank or pump chamber via a 4" sch. 40 pvc gravity line. The pump chamber (pit) must a minimum capacity of 2000 gallons. The tank shall be concrete.
  - The pump chamber or second tank must be equipped with:
    - A (3) Float System; pump off, pump on, high water alarm (see tank detail for respective elevations).
    - An aluminum hatch over installed at or slightly above grade; hinged, lockable, and vented -minimum 2'x3' in size or larger as required to install/remove equipment (concrete tank top shall have the same size hole, riser section to be concrete or masonry).
    - Stainless steel 1/4" lift cable.
    - Pump system complete with; control panel, pump, piping and valves in accordance with Health Department requirements. The pump shall be a quality pump capable of delivering 72 gpm against design head of 14 ft. Recommendations for Tank & Pump system:  
Goulds - Submersible Effluent Pumps, Model -3885  
Series - WE0712H single phase, 230 volts  
Goulds - SES Series Customized Control Panels.  
Model - Simplex/Weather Proof controller with alarm.  
Three (3) float bulb operation is required (along with an event counter & elapsed time meter)
- NOTE:
- Design plans and profiles are based on "Babylon" precast concrete tank sized as follows:  
2000 Gal. Pump Tank - outside dimension = 13' x 6.75' x 5.33' tall.  
2000 Gal. 2-Compartment Septic Tank - outside dimension = 13' x 6.75' x 5.33' tall.
  - An alternative pump and/or control panel, meeting the above requirements may be substituted with the owners written permission.
- If a high water table is present on the site, the second tank or pump chamber must be secured in place with tie-downs.
  - The alarm system and the pump system must be wired to separate circuit breakers.
  - The alarm must be mounted in the house.
  - The control panel for the pump must not be mounted in the pump chamber. It is recommended that the control panel be placed on a stand or pedestal adjacent to the house and in sight of the pump chamber and the driveway.
  - The floats on the pump should be positioned so that one pumping cycle pumps 153 gallons.
  - The effluent is to be pumped via a 3" schedule 40 PVC pressure pipe and fittings to a 3" schedule 40 PVC pressure pipe and fittings manifold as shown in plan.
  - The manifold will distribute flow to the Sand Mound via 1 1/2" schedule 40 PVC pressure pipe and fittings laterals which are perforated with 1/4" holes drilled as shown on the lateral detail.
  - The drainage system will consist of a stone or gravel bed measuring 6'x 105'x10" deep. The stone/gravel material shall be ASSHTO No. 3, 4 or 5 clean washed aggregate free of fines. Within the stone/gravel bed (4) 1 1/2" Sch. 40 PVC laterals shall be evenly spaced at 3.00 o/c. These laterals shall be connected to the force main via a 3" Sch 40 PVC manifold located at the center of bed. The bed shall be capped with an approved filter fabric and a 12" to 18" of cap and topsoil material. The bed shall be underlaid with 12" to 17" of sand fill having an effective size between 0.25mm and 0.50mm, with a uniformity coefficient of 3.5 or less. (see detail and profile for orientation)
  - The distal end of each lateral shall contain a 1 1/2" riser extended to grade with a screw cap. The riser is to be protected by a 6" PVC sched 40 outer riser extended 6" above grade with a screw cap.
  - A Sanitary Construction Permit must be completed by the owner and issued by the Health Department. In addition, the septic system must be installed per Howard County Code of Local Laws, Chapter 216, Sewage Disposal Systems, and COMAR 26.04.02 governing sewage disposal.
  - No parts of the septic system are to be covered until approved by the Health Department. A pump test will be required as part of the inspection. The owner or installer should see to it that sufficient water is available in the pump chamber to conduct this test.
  - Pump manufacturer/supplier shall provide an authorized representative to provide services/assist/assure quality at the time of initial start-up and to also provide an operations manual for the owners use.
  - Pump tank and septic tank must pass the 24 hour water tightness test. Fill the tank with water and let stand for 24-hours. Refill the tank. If the water level does not drop within one hour, the tank passes the test.



SAND MOUND CROSS SECTION 'A-A'  
NOT TO SCALE



SAND MOUND PROFILE

SCALE: H: 1" = 30'  
V: 1" = 5'

APPROV FOR HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF DEVELOPMENT ENGINEERING DIVISION \_\_\_\_\_ DATE \_\_\_\_\_  
DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED FOR PRIVATE WATER & PRIVATE SEWAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

Approved Septic System  
3-26-12

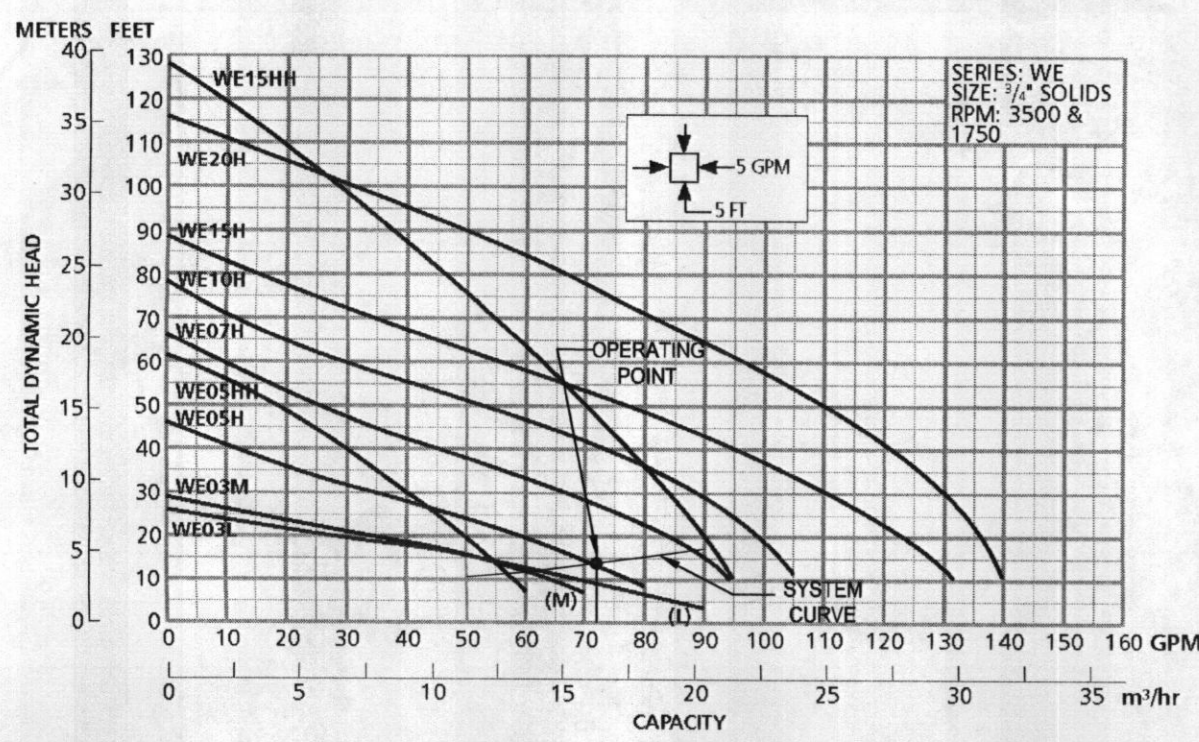


**ESE** Land Planning  
Engineering  
Land Surveying

ESE Consultants Inc.  
7164 Columbia Gateway Dr.  
Suite 203  
Columbia, MD 21046  
TEL: 410-872-9105  
FAX: 410-872-4870

DATE: 03/2012 SCALE: AS SHOWN FIL 1214 LOT 88  
CHK'D: MJB JOB#: 1214 DRW'n: TAM

PLAN, PROFILES, AND NOTES FOR  
"SAND MOUND" SEWAGE DISPOSAL SYSTEM  
11425 HUNT CROSSING COURT  
ELLICOTT CITY, MD 21043  
LOT #88  
HOMECROSSING  
D.B. 9808, PG. 204  
PLAT No. 21611  
THIRD ELECTION DISTRICT  
HOWARD COUNTY  
SHEET: 1 OF 2

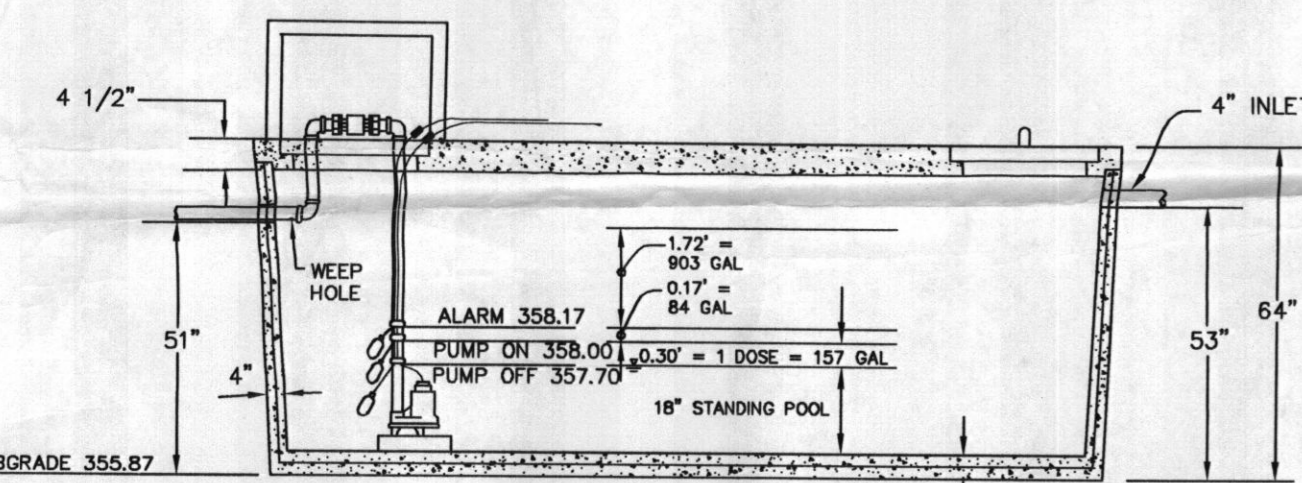
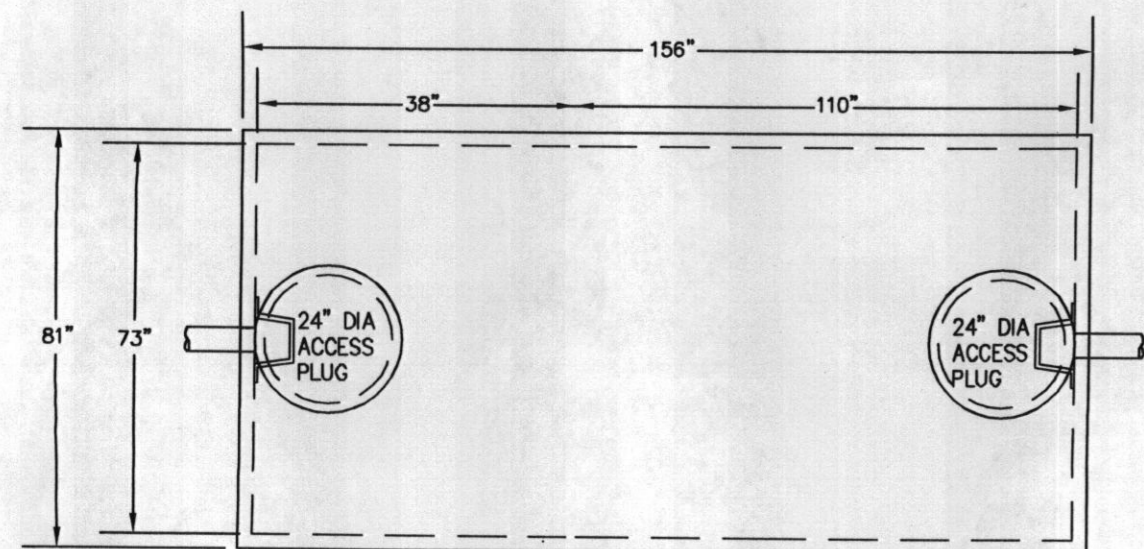


GOULDS PUMPS CURVES

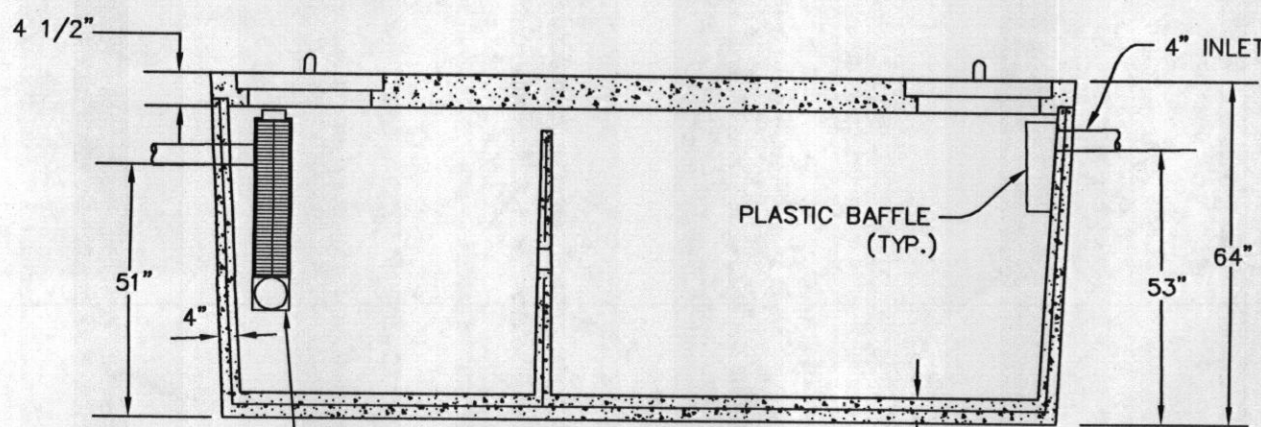
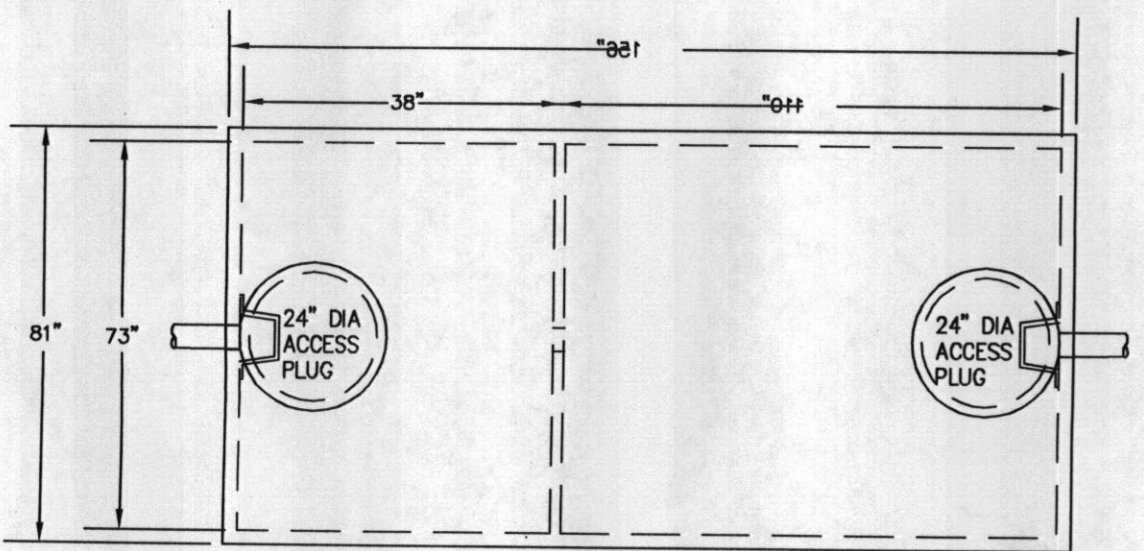
**Babylon**

VAULT  
SINCE 1930  
925 WAKEFIELD VALLEY ROAD  
NEW WINDSOR, MD 21778  
OR APPROVED EQUAL

2000 GALLON RECTANGULAR PUMP TANK

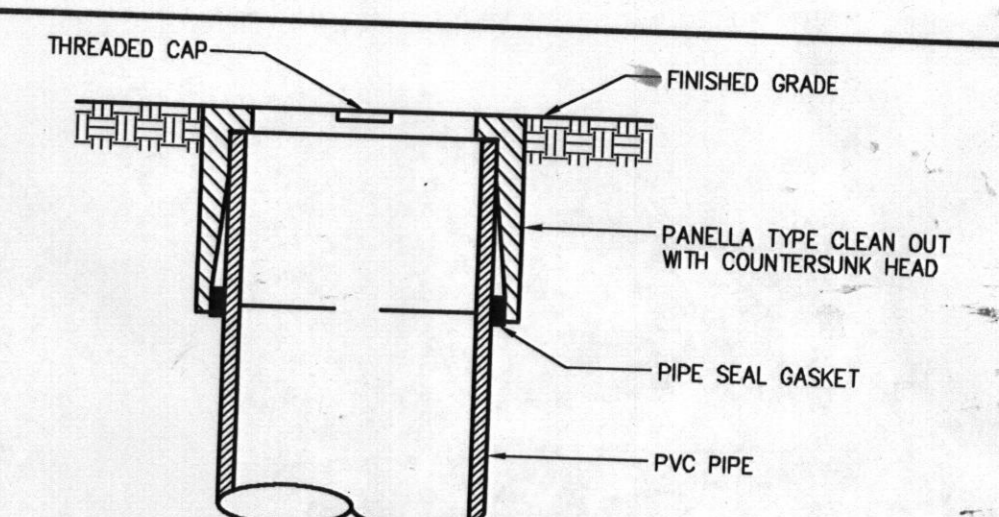
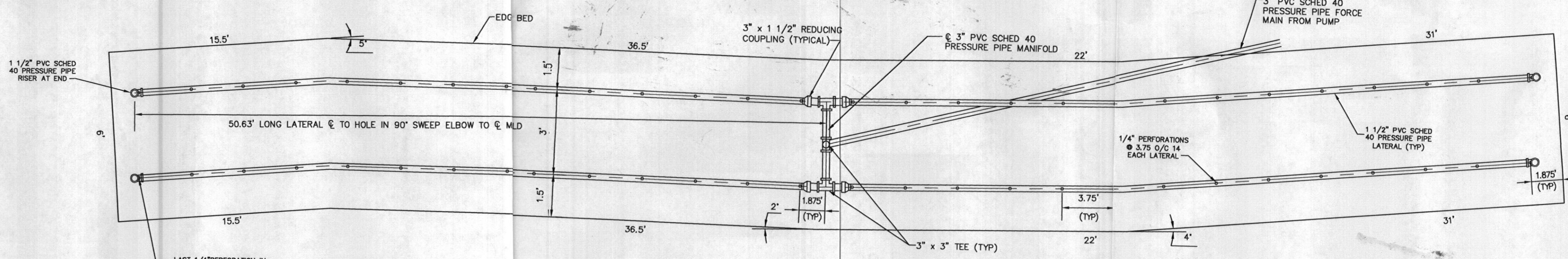
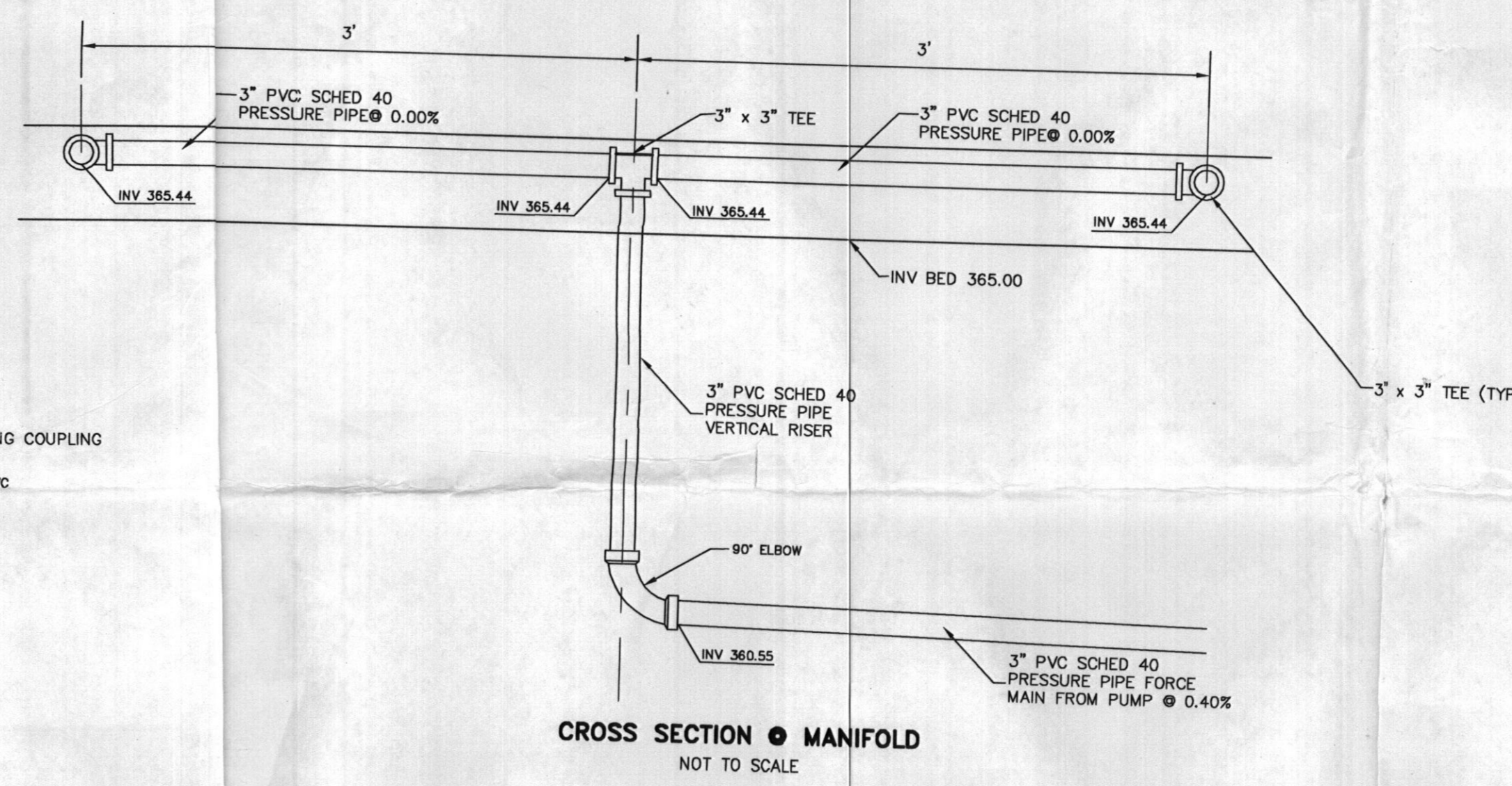
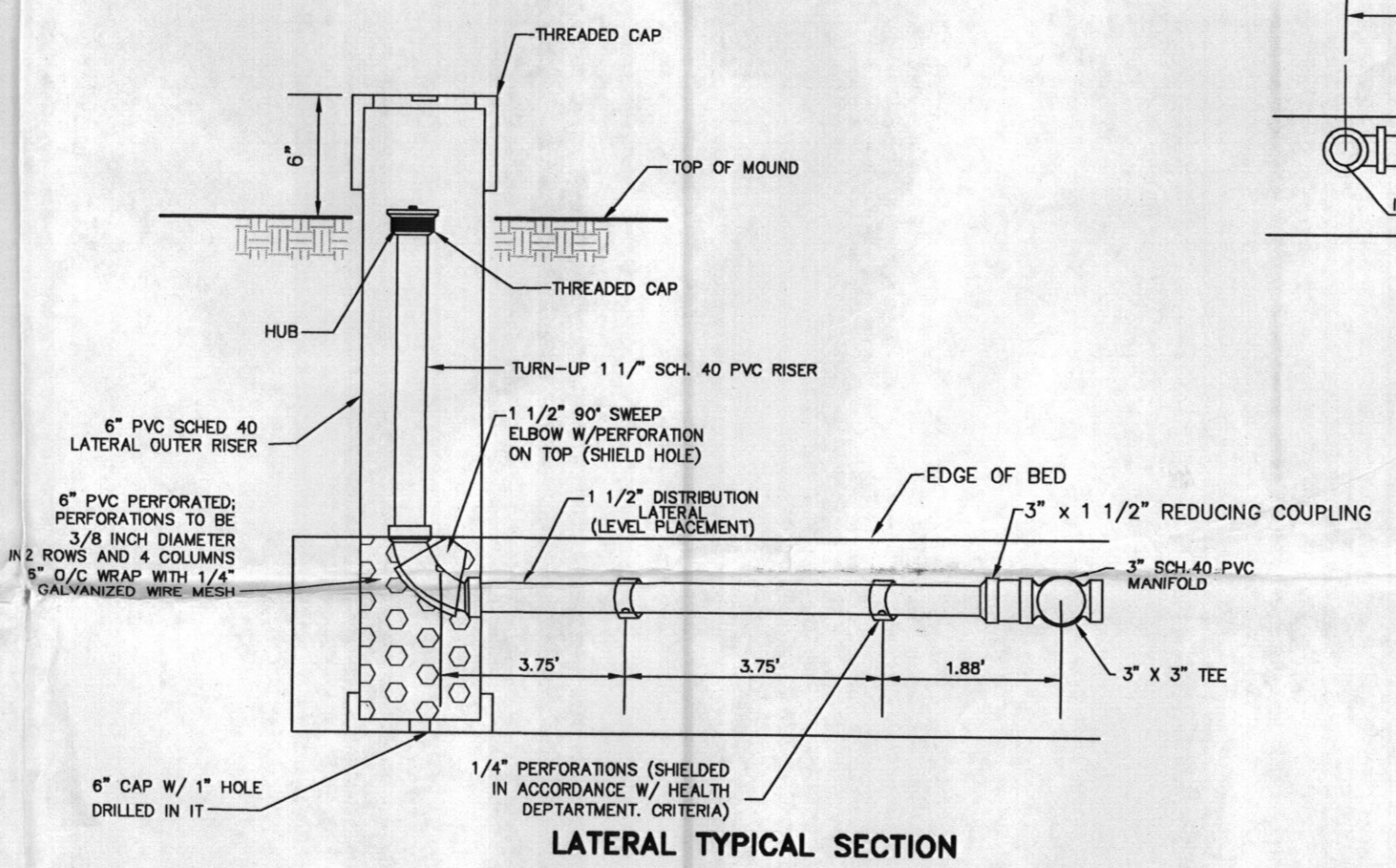
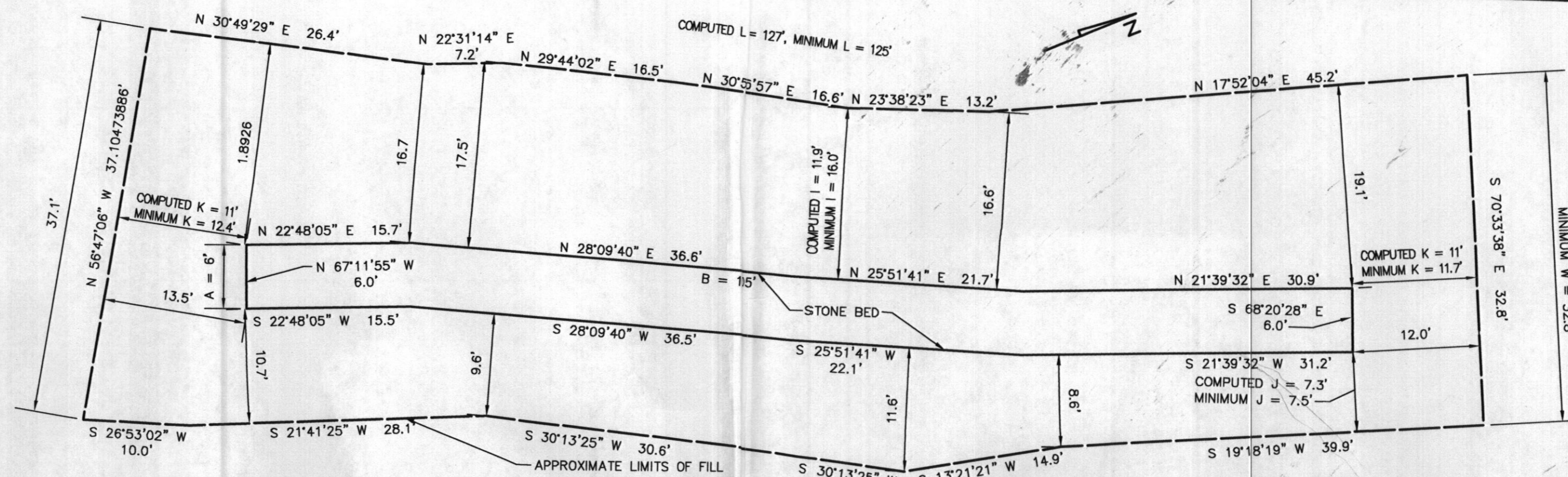


2000 GALLON RECTANGULAR TWO COMPARTMENT SEPTIC TANK



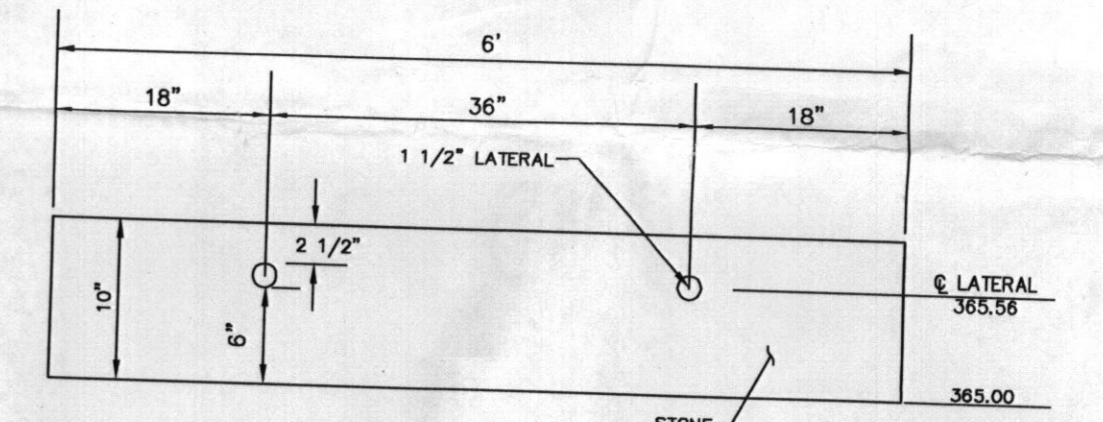
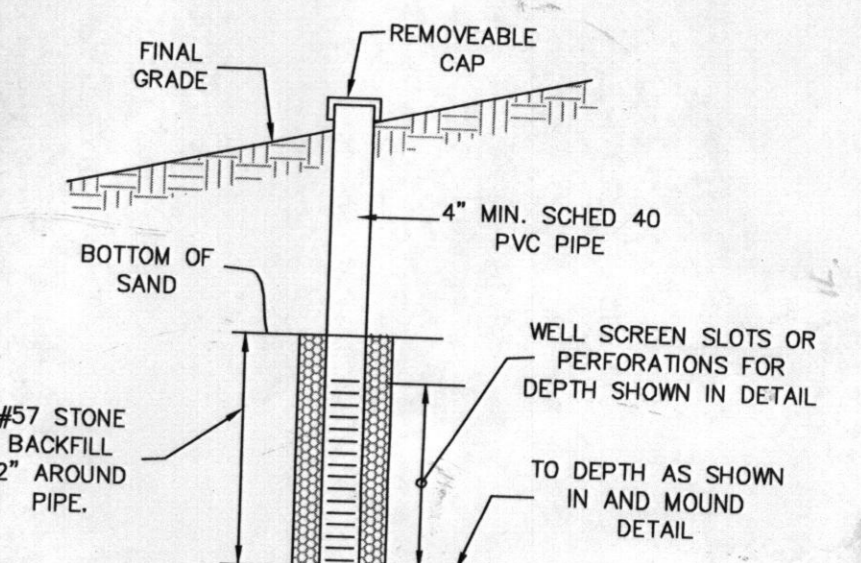
PRECAST CONCRETE 2-COMPARTMENT SEPTIC TANK 2000 GALLON CAPACITY

- DESIGN DATA & GENERAL INFORMATION
- Concrete strength  $f_c = 5,000$  p.s.i. @ 28 days. Density = 150 pcf.
  - Cement - Portland Type 1/11 per ASTM C 150-92.
  - Admixtures & plasticizers per ASTM C 260-86 & C 494-92.
  - Reinforcing per ASTM A185, Min. 1-1/2" cover.
  - Top slab sealed with butyl tape.



- EACH OBSERVATION WELL / LATERAL OUTER RISER SHALL INCLUDE THE FOLLOWING:
- FOR AN UNDERGROUND FLUSH MOUNTED OBSERVATION WELL / LATERAL OUTER RISER, PROVIDE A TUBE MADE OF NON-CORROSIVE MATERIAL, SCHEDULE 40 OR EQUAL, TO DEPTH AS SHOWN ON PLAN.
  - ANY PVC RISER THAT WILL PROTRUDE ABOVE THE GROUND SURFACE SHALL BE PAINTED, WRAPPED, INCLUDE AN UV INHIBITOR, OR BE SCHEDULE 80.
  - THE TUBE SHALL HAVE A FACTORY ATTACHED CAST IRON OR HIGH IMPACT PLASTIC COLLAR WITH RIBS TO PREVENT ROTATION WHEN REMOVING SCREW TOP LID. THE SCREW TOP LID SHALL BE CAST IRON OR HIGH IMPACT PLASTIC THAT WILL WITHSTAND ULTRAVIOLET RAYS.

LATERAL OUTER RISER/OBSERVATION WELL CAP DETAIL



APPROVED: FOR HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION \_\_\_\_\_ DATE \_\_\_\_\_

DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

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DATE: 03/2012 SCALE: AS SHOWN FILE: 1214 LOT 88  
CHK'D: MJB JOB#: 1214 DRAWN: TAM

DETAILS FOR "SAND MOUND" SEWAGE DISPOSAL SYSTEM

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D.B. 9808, PG. 204  
PLAT No. 21611  
THIRD ELECTION DISTRICT  
HOWARD COUNTY

SHEET: 2 OF 2