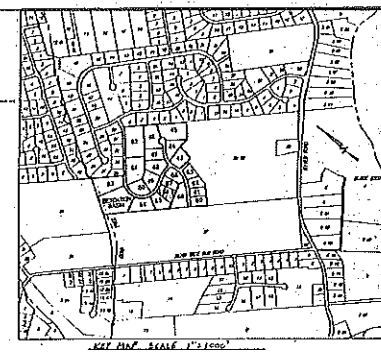
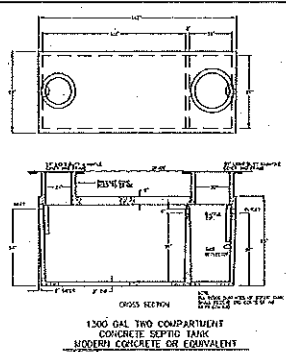
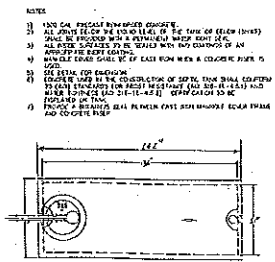


5016 LOG SEA BY EASTERN STATES ENGINEERING, INC.		
Log ID #	SEA	Date 1/15/96
	Description	
0-23"	S1/2, 4 1/2 all brown, 20% claystone, moderate subangular, blocky, full, thin smooth bedded.	
23-61"	S1/2, 4/4 shale 1 horizontally bedded fractures 2' apart, compressional vertical fissures	
61-108"	S1/2, 5/4 shale: medium ripplebed, horizontal fractures 3' apart.	



COPIATING ROOMING SIXTH

COPIING TANK SIZES

1 - distribution network volume = $285 \text{ Ltr} = 0.8 \times 350 \text{ gal}$
250 gal

150 L = 40 gal. - Min. Dose Volume
250 L = 66.7 gal. - Max Dose Volume
Dose Volume to be 150 Gal.

Delivery Pipe $2\frac{1}{2}$ Ltr of $1 \times 200 \text{ Ltr}$ Tank, Capacity = 9 Gal.

MINIMUM RESERVATION CAPACITY = 470 Gal.

USE 1800 gal. Dosing Tank
Dosing Tank Capacity = $1800 \text{ Ltr} = 470 \text{ gal}$

Clearance Between Pump and orifice (ft) 30 in

Flow = $(150 \times \text{Wp} \times \text{Wpd}) \times (1 \text{ ft} / 7.48 \text{ gal}) \times (1 \text{ min} / 60 \text{ sec})$
= $(150 \times 1 \times 21 \times 1 \text{ ft} / 7.48 \text{ gal}) \times (1 \text{ min} / 60 \text{ sec})$
= 5.44 in.

Pump off Switch = 81.57 ft
Pump on Switch = 81.57 ft
High Water Alarm = 81.57 ft

Check on Dosing Tank Capacity

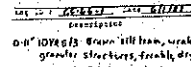
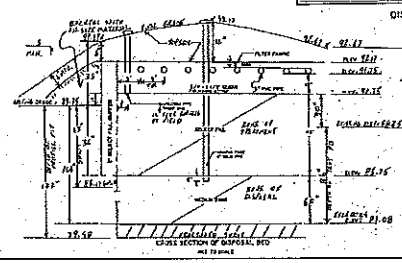
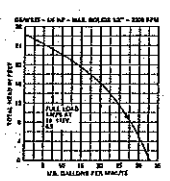
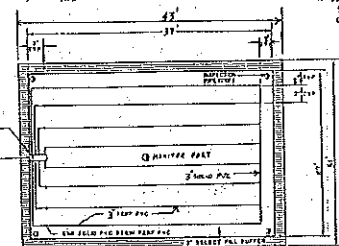
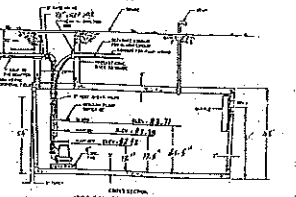
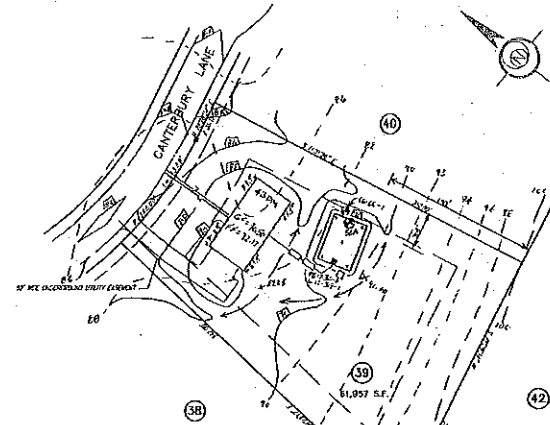
Reserve Capacity = 450 gal.
Injection Volume = 250 gal.
Basis Batch Volume = 2 gals.
Total Volume = 700 gal.
Batch Volume = $116.67 \text{ gal} / 250$

Dose Selection

Dose Volume = 150 Gal.
Time to deliver 150 gal. in 6 minutes = 2.5 GPM
Injection loss for $1 \text{ ft} = 2.31 \text{ ft} \times 2.5 \text{ GPM} = .04 \text{ ft}$

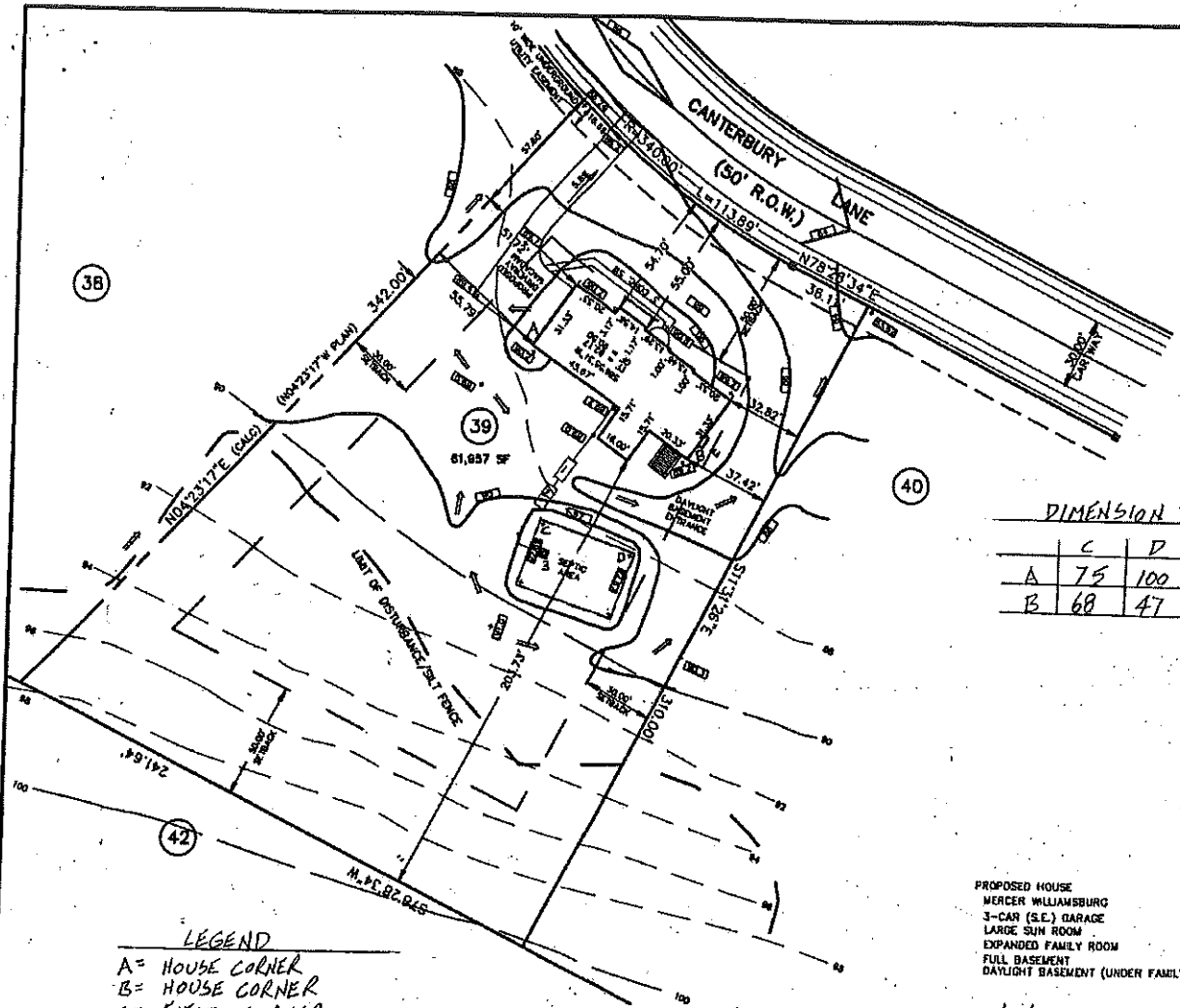
Total design head = $H_f + H_{p, 0}$
= 7.12

Recommended Schneider's Pump Hydraulic PG/1525
2500 GPM Hydraulic 2500 GPM

[illegible]

JAMES MATTICOLA, P.E.
PROFESSIONAL ENGINEER
 REG. NO. 725847
James J. Matticola, Inc.
 9-14-86

1	ADD 56 56A	DESCRIPTION	DATE	FILE NO.
FEV				
SEPTIC SYSTEM DESIGN F&P BLOCK 18020 LOT 39 RELIANCE BLOCK 78001 LOT 24-31 PROPOSED LOT 20 RIVERSEDE - SECTION IV MONTGOMERY TOWNSHIP, SOVERSEY COUNTY, NEW JERSEY				
E S E I		EASTERN STATES ENGINEERING, INC. 419 S. PENNSYLVANIA AVE MONTGOMERY, PA. 19667 215-746-0222	SHEET NO.	
DESIGNED BY:	DRAWN BY:	CHECKED:		
SEAL AS NOTED	DATE: 3.16-75	BY: M. H. H. - 56	1. of 1	



DIMENSION TABLE (ET.)

	C	D	1	2	3
A	75	100	55	65	90
B	68	47	55	63	75

NOTE:
LOCATION OF UTILITY SERVICES SHOWN ARE
CONCEPTUAL ONLY. ACTUAL LOCATION OF
SANITARY, WATER, ELECTRIC, GAS, ETC.
SERVICING EACH LOT TO BE DETERMINED
AT TIME OF CONSTRUCTION BY DEVELOPER.

TO ALL PERSONS AND PARTIES OF INTEREST:
THIS PLAN WAS PREPARED FOR A FEE FOR
THE PERSONS AND PURPOSES INDICATED
HEREON. ANY OTHER USE OF THIS PLAN
OR A COPY OR ALTERATION OF IT NOT
IMRESSED WITH THE SEAL OF THE LICENSED
ENGINEER OR SURVEYOR WHO PREPARED
THIS PLAN IS NOT THE RESPONSIBILITY
OF THE UNDERSIGNED.

CORNERS WILL BE SET WHEN
FINAL GRADING IS COMPLETE.

LEGEND

- A= HOUSE CORNER
- B= HOUSE CORNER
- C= FIELD CORNER
- D= FIELD CORNER
- 1= & SEPTIC TANK
- 2= & DOSING TANK
- 3= DIST. BOX

PROPOSED HOUSE
MERCER WILLIAMSBURG
3-CAR (S.E.) GARAGE
LARGE SUN ROOM
EXPANDED FAMILY ROOM
FULL BASEMENT
DAYLIGHT BASEMENT (UNDER FAMILY ROOM)

SEPTIC AS-BUILT 5/1/97- RF

MAP FILE NO. 3027 DATE FILED 9-26-94

76 Canterbury MAP OF SEPTIC AS-BUILT
BLOCK 18020 LOT 39
ESTATES AT RIVERS EDGE - SECTION IV

MONTGOMERY TOWNSHIP
SOMERSET COUNTY, NEW JERSEY

James Matticola DATE 9/4/96

JAMES MATTICOLA
PROFESSIONAL ENGINEER
N.J. LICENSE # 25847

Byron W. Rimmer DATE 9/4/96

BYRON W. RIMMER
PROFESSIONAL LAND SURVEYOR
N.J. LICENSE # 20369

E S E

EASTERN STATES
ENGINEERING, INC.

449 S. PENNSYLVANIA AVE.
MORRISVILLE, PA. 19067
215-736-0222

DESIGNED:	DRAWN: K.B.O.	CHECKED: A.G.R.
SCALE: 1" = 50'	DATE: 9-3-95	DWG. NO.: TBI #56