

**GENERAL NOTES**

- PART I - GENERAL**
- Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
  - All horizontal controls are based on Maryland State Coordinates.
  - All vertical controls are based on U.S.G.S data.
  - All pipe elevations shown are invert elevations.
  - Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on drawings. In the event the Contractor's work requires the bracing of additional poles, any cost incurred by the Owner for bracing of additional poles or damages shall be deducted from money owed the Contractor. The Contractor shall coordinate with the utility companies to schedule the bracing of the poles.
  - For details not shown on the drawings, and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Details for Construction (latest edition). The contractor shall have a copy of Volume IV on the job.
  - Where test pits have been made on existing utilities, they are noted by the symbol at the location of the test pit. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the contractor two weeks in advance of construction.
  - The Contractor shall notify the following utility companies or agencies at least five(5) working days before starting work shown on these plans:
 

State Highway Administration	410.531.5533
BGE(Contractor Services)	410.850.4600
BGE(Underground Damage Control)	410.787.9068
Miss Utility	1.800.257.7777
Colonial Pipeline Company	410.795.1300
Howard County, Dept. of Public Works, Bureau of Utilities	410.313.4900
Howard County Health Department	410.313.2640
  - Trees and shrubs are to be protected from damage to the maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the Contractor.
  - The Contractor shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price bid for the construction of the main.
  - The Contractor shall notify the Bureau of Highways, Howard County, at 410.313.2450 at least five working days before any open cut or boring/jacking operation in county roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPM requirements per Section 18.114(a) of the Howard County Code.
  - Landscaping shown to be provided under Road Construction Plans F-02-73

- PART III - SEWER**
- All sewer mains shall be D.I.P. Class 52 or P.V.C. unless otherwise noted.
  - The Contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
  - All manholes shall be 4'-0" inside diameter unless otherwise noted.
  - Manholes shown with 12" and 16" walls are for brick manholes only.
  - Manholes designated W.T. in plan and profile shall have watertight frame & covers, Standard Detail G-5.52. Where watertight manhole frame and cover is used, set top of frame 18" above finished grade unless otherwise noted on the drawings.
  - House(s) with the symbol "C.N.S." indicates that cellar cannot be served.
  - A Septic Fee in the amount of \$180.00 per lot serviced by the common septic system shall be paid to the Howard County Environmental Health Department at the time of the common construction permit issuance.
  - The Builder shall install a backflow preventer and relief vent on the sewer service at the house at the time of the house connection or as required by the plumbing inspector.
  - The Contractor shall notify the Construction Inspections Division at 410.313.1880, at least fourteen (14) days prior to construction.
  - Septic Tanks shall be vacuum tested on-site by the manufacturer. Septic tank shop drawings from the manufacturer should be submitted to the Howard County Environmental Health Department prior to any installation of the septic tanks.
  - All pressure sewer is to be pressure tested according to the Howard County Department of Public Works Standards and Specifications.
  - The Contractor shall notify the Howard County Health Department at 410.313.2640, at least five (5) working days before any pressure test of pressure sewers, and any septic tanks vacuum or water testing is performed.
  - The Builder shall be responsible for the requirements and method of installation of Grinder Pumps their appurtenances.
  - Observation Well to be installed after trench installation is completed.
  - The portions of the public sewer lines which are closer than 50 feet to any well will be encased in concrete or constructed out of welded steel as required by COMAR 26.04.04.05.

- TRENCH REQUIREMENTS**
- 150 gpd per bedroom.
  - Lots 4 thru 10 allowed a maximum of 4 bedrooms. Pres. Parcel 'A' allowed a maximum of 5 bedrooms.
  - Total number of gallons per day (gpd) = 4,950
  - 4,950gpd/1 gpm = 4,950 square feet of effective area.
  - 4,950sf/3' wide trench = 1,650 linear feet of trenches required.

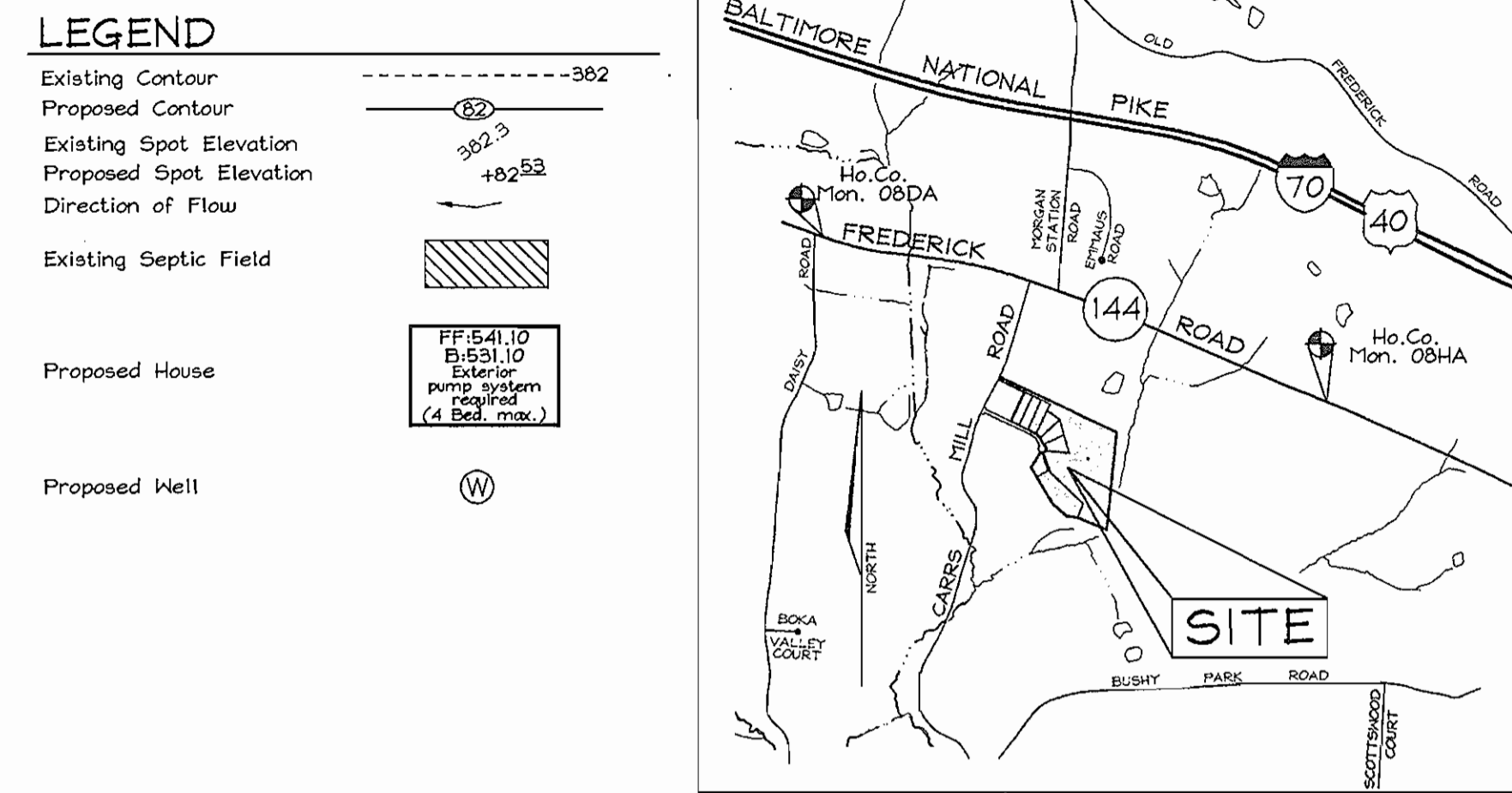
# PUBLIC SEWER PLANS

## MAPLE RIDGE

### LOTS 4 THRU 10 AND PRESERVATION PARCEL 'A'

### HOWARD COUNTY, MARYLAND

### CONTRACT NO. 50-4046-D



**BENCHMARKS**

Coordinates based on NAD '83, Maryland Coordinate System as projected by Howard County. Geodetic Control Stations no. 08DA and no. 08HA. \* Denotes approximate location (see vicinity map).

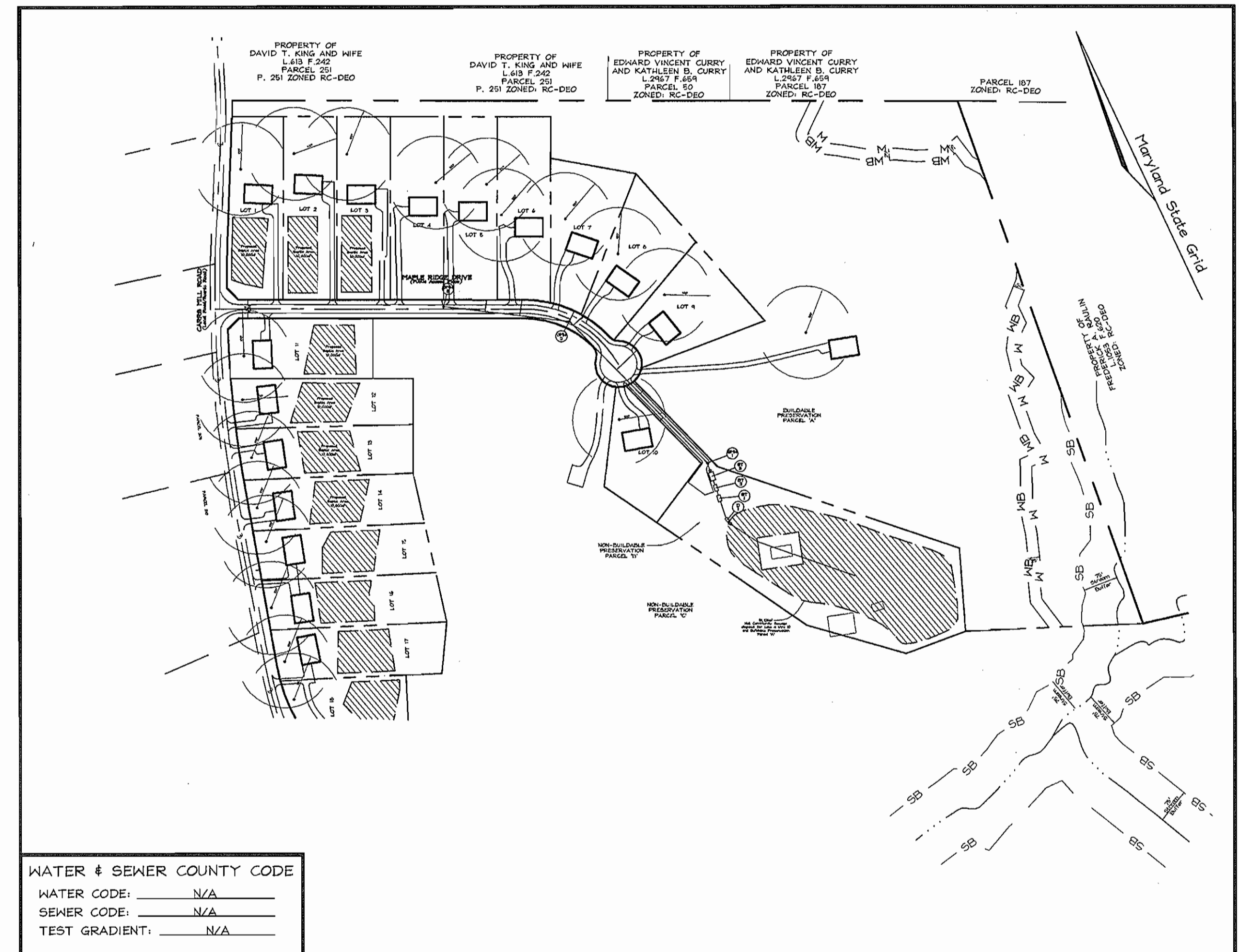
Sta. 08DA	(Meters) N 184,943.9110	E 394,439.4535	Elev.: 169.1145
	(Feet) N 606,934.1819	E 1,295,730.523	Elev.: 554.836
Sta. 08HA	(Meters) N 184,334.1497	E 396,864.1955	Elev.: 184.5239
	(Feet) N 604,769.622	E 1,302,045.281	Elev.: 621.796

**QUANTITIES**

NAME OF UTILITY CONTRACTOR :  
SURVEY AND DRAFTING DIVISION AS-BUILT DATE :

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
Manhole	3	3	PRECAST	ATLANTIC PRECAST
8" Sewer	10171f	1020	PVC	BELAIR SUPPLY
4" SHC	1991f	1990	PVC	HUGHES SUPPLY CO.
8" Valve	2	2	M.S.	AWWA / HUGHES SUPPLY CO.
Dist. Box	1	1	PRECAST VAULT	MAUER BRGS.
3,000 gallon Septic Tank	2	2	"	"
6,000 gallon Septic Tank	1	1	"	"
Leaching Field	1,6671f	1681	PVC	ADVANCE DRAINAGE SYSTEMS INC.
Speed Levelers	14	14	M.S.	HUGHES SUPPLY CO.

\* ALL MS GATE VALVES ARE KENNEDY MANUFACTURE.



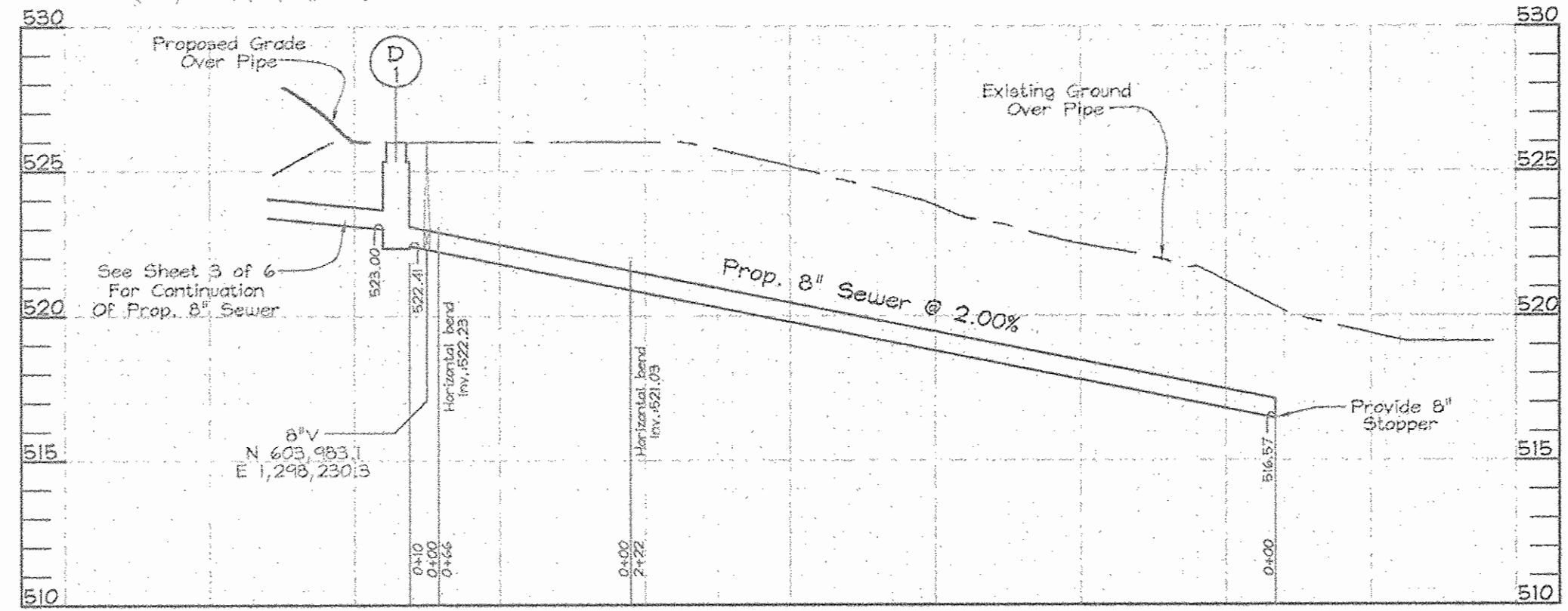
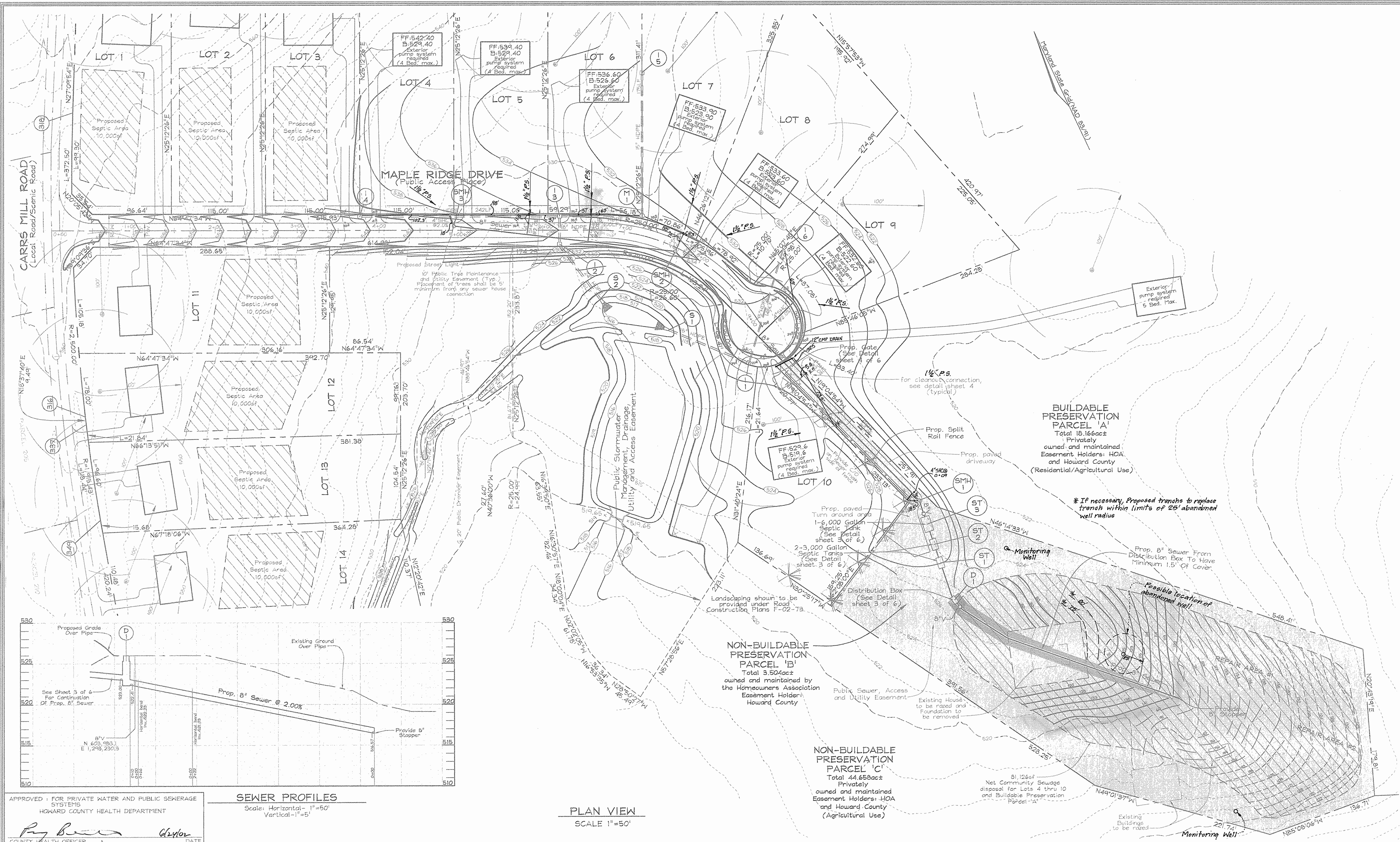
**LOCATION PLAN**  
SCALE : 1"=200'

TYPE OF BUILDING:	Single Family Detached
NO. OF LOTS/PARCELS:	8
NO. OF WATER HOUSE CONNECTIONS:	0
NO. OF SEWER HOUSE CONNECTIONS:	8
DRAINAGE AREA:	Brighton Dam
TREATMENT PLANT:	Maple Ridge Shared Septic System

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-02-73

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  SOIL CONSERVATION DISTRICT	REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  U.S. SOIL CONSERVATION DISTRICT NATURAL RESOURCE CONSERVATION SERVICE	APPROVED FOR PRIVATE WATER AND PUBLIC SEWERAGE BY STEPS HOWARD COUNTY HEALTH DEPARTMENT  COUNTY HEALTH OFFICER NR
DATE: 6/3/02	DATE: 6/3/02	DATE: 6/24/02

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND  CHIEF, DEVELOPMENT ENGINEERING DIVISION	<b>FSH Associates</b> Engineers Planners Surveyors 8318 Forest Street, Ellicott City, MD 21043 Tel: 410-750-2251 Fax: 410-750-7350 E-mail: FSHAssociates@cs.com	DESIGN BY: PS DRAWN BY: PS CHECKED BY: ZYF DATE: May 06, 2002	TITLE SHEET 600' SCALE MAP NO.: 8 BLOCK NO.: 14#20	WASTEWATER COLLECTION, TREATMENT AND DISPOSAL SYSTEM <b>MAPLE RIDGE</b> LOTS 4 THRU 10 AND PRESERVATION PARCEL 'A' CONTRACT NO. 50-4046-D TAX MAP 8, GRIDS 14 & 20 4TH ELECTION DISTRICT	SCALE AS SHOWN SHEET NO. 1 OF 6
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APPROVED: FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: [Signature] DATE: [Blank]

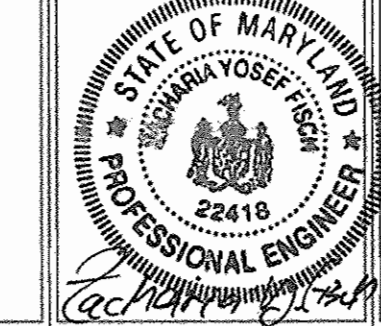
SEWER PROFILES  
 Scale: Horizontal-1"=50'  
 Vertical-1"=5'

PLAN VIEW  
 SCALE 1"=50'

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 [Signature] 5-24-02  
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND  
 [Signature] 7/3/02  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

**FSH Associates**  
 Engineers Planners Surveyors  
 8318 Forest Street Ellicott City, MD 21043  
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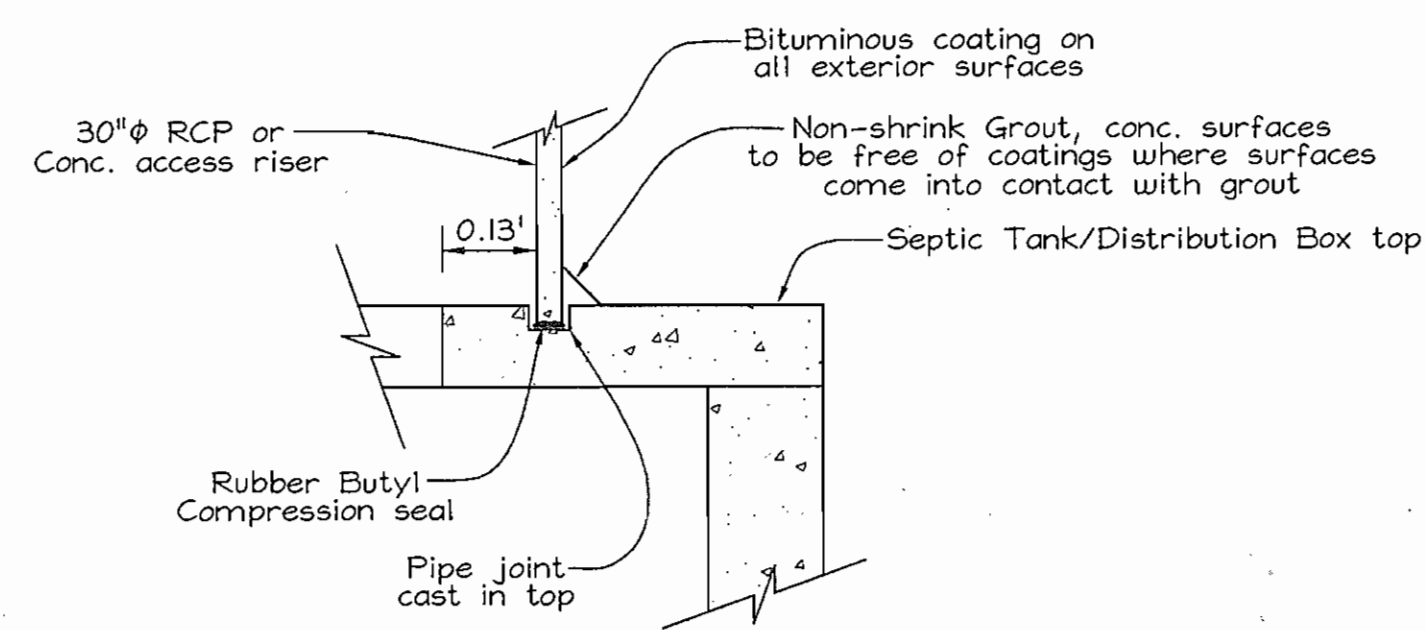
DESIGN BY: PS  
 DRAWN BY: PS  
 CHECKED BY: ZTF  
 DATE: May 06, 2002

BY	NO.	REVISION	DATE
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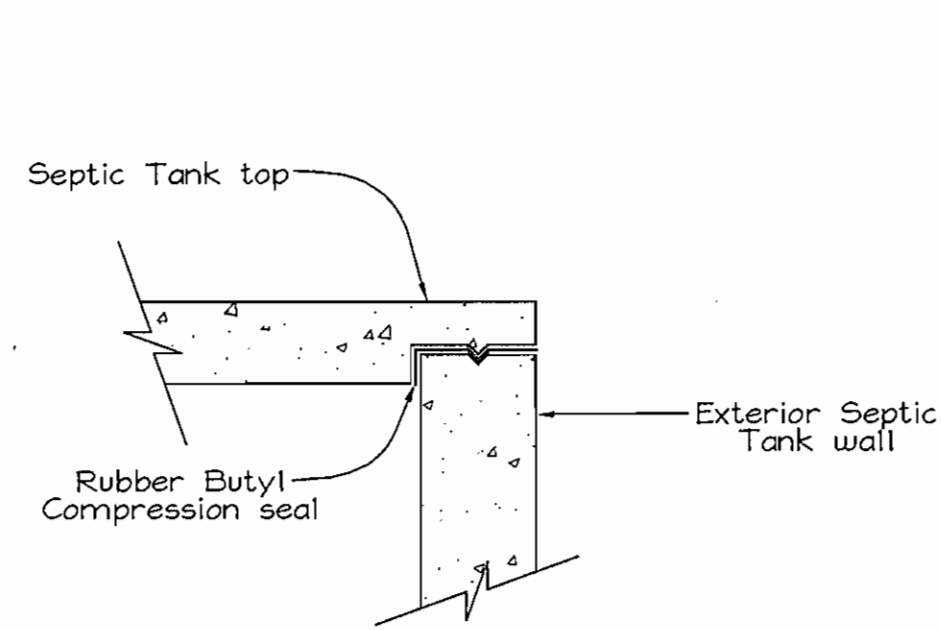
**SEWER PLAN AND PROFILE**  
 600' SCALE MAP NO.: 8 BLOCK NO.: 14#20

WASTEWATER COLLECTION, TREATMENT AND DISPOSAL SYSTEM  
**MAPLE RIDGE**  
 LOTS 4 THRU 10 AND PRESERVATION PARCEL 'A'  
 CONTRACT NO. 50-4046-D  
 TAX MAP 8, GRIDS 14 & 20 PARCELS 51 & 378  
 4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

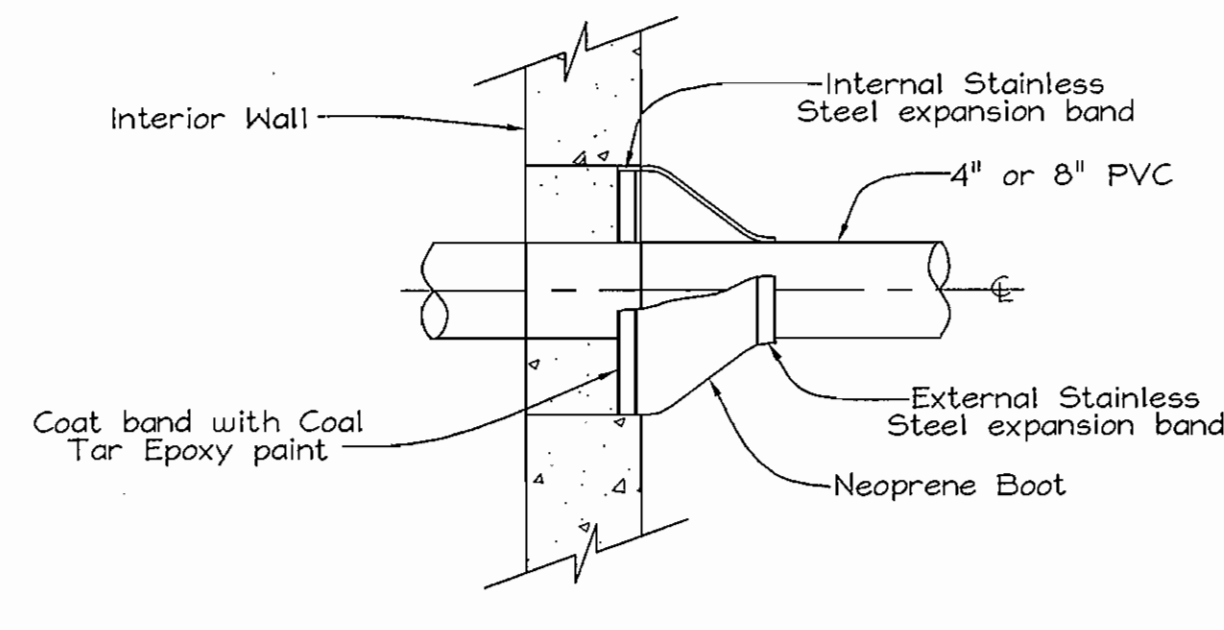
SCALE AS SHOWN  
 SHEET NO. 2 OF 6



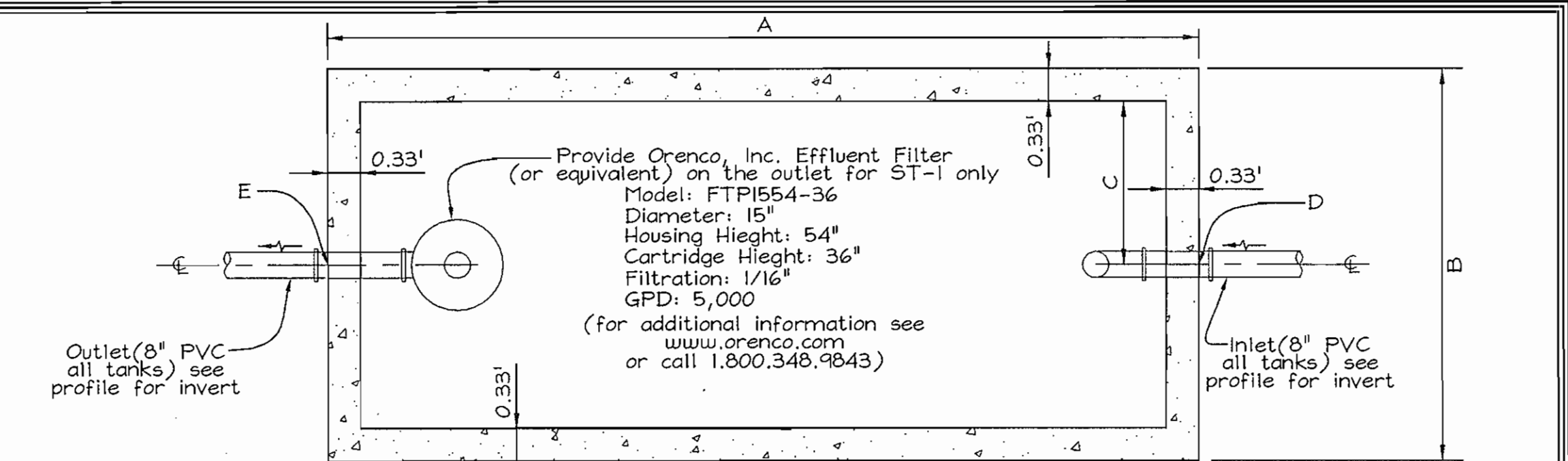
**RISER/TANK JOINT DETAIL**  
Not to Scale



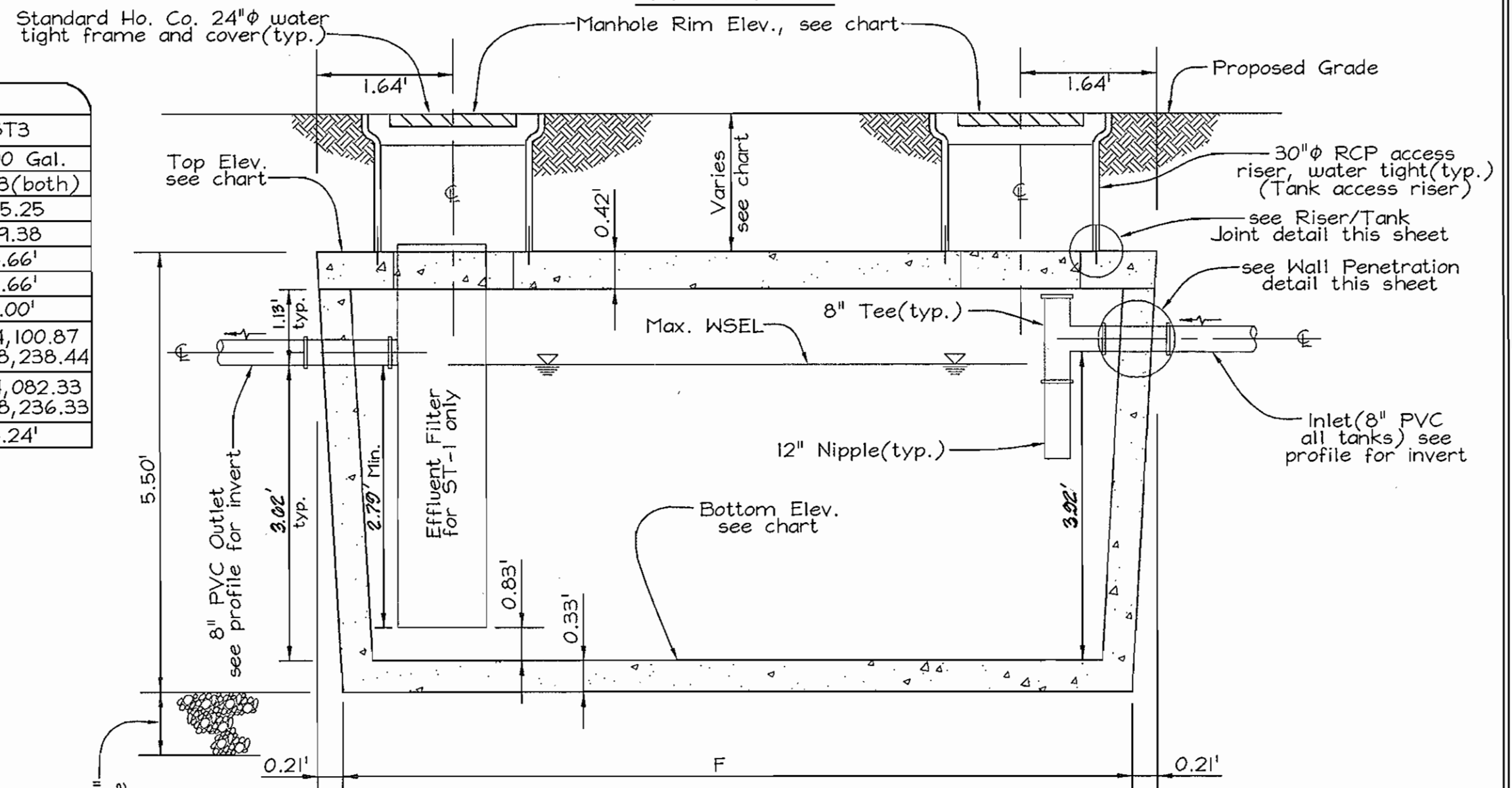
**SEPTIC TANK TOP/WALL JOINT DETAIL**  
Not to Scale



**WALL PENETRATION DETAIL**  
Not to Scale



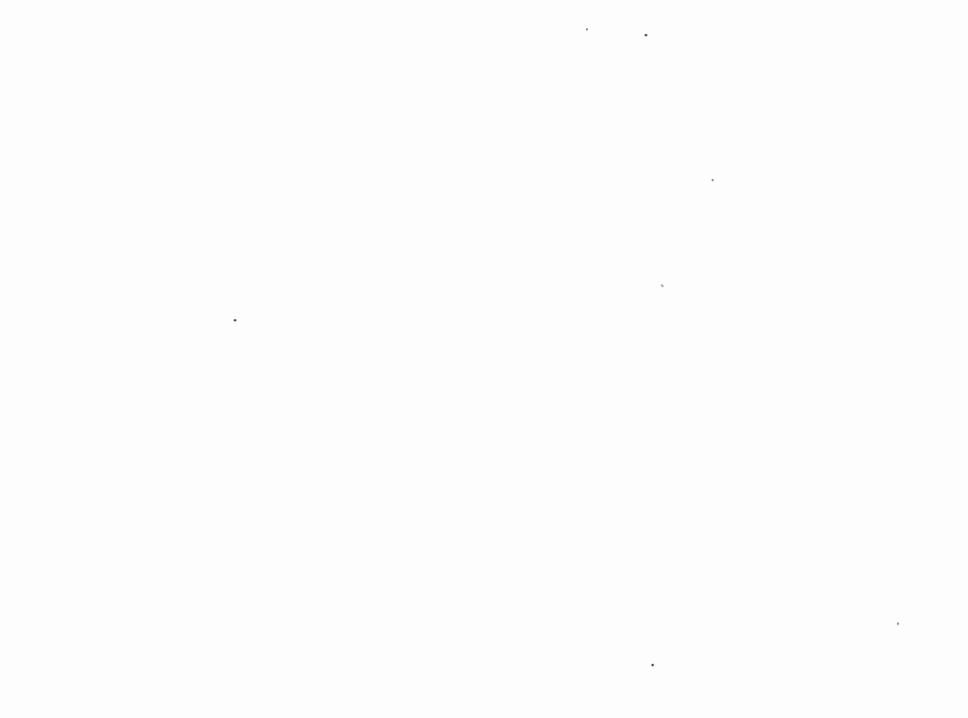
**PLAN VIEW**



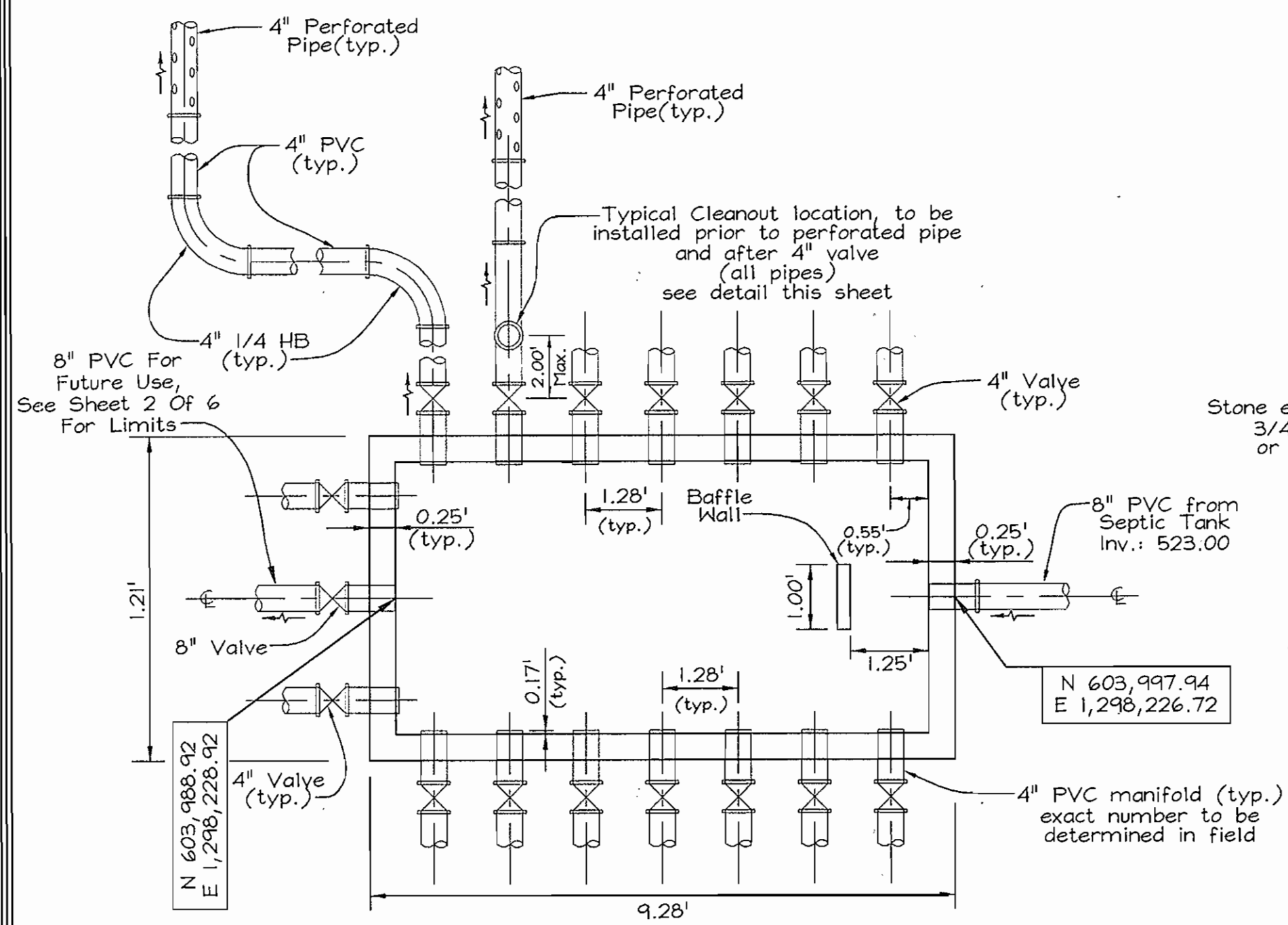
**SECTION VIEW**

**TYPICAL CONCRETE SEPTIC TANK**  
Not to Scale

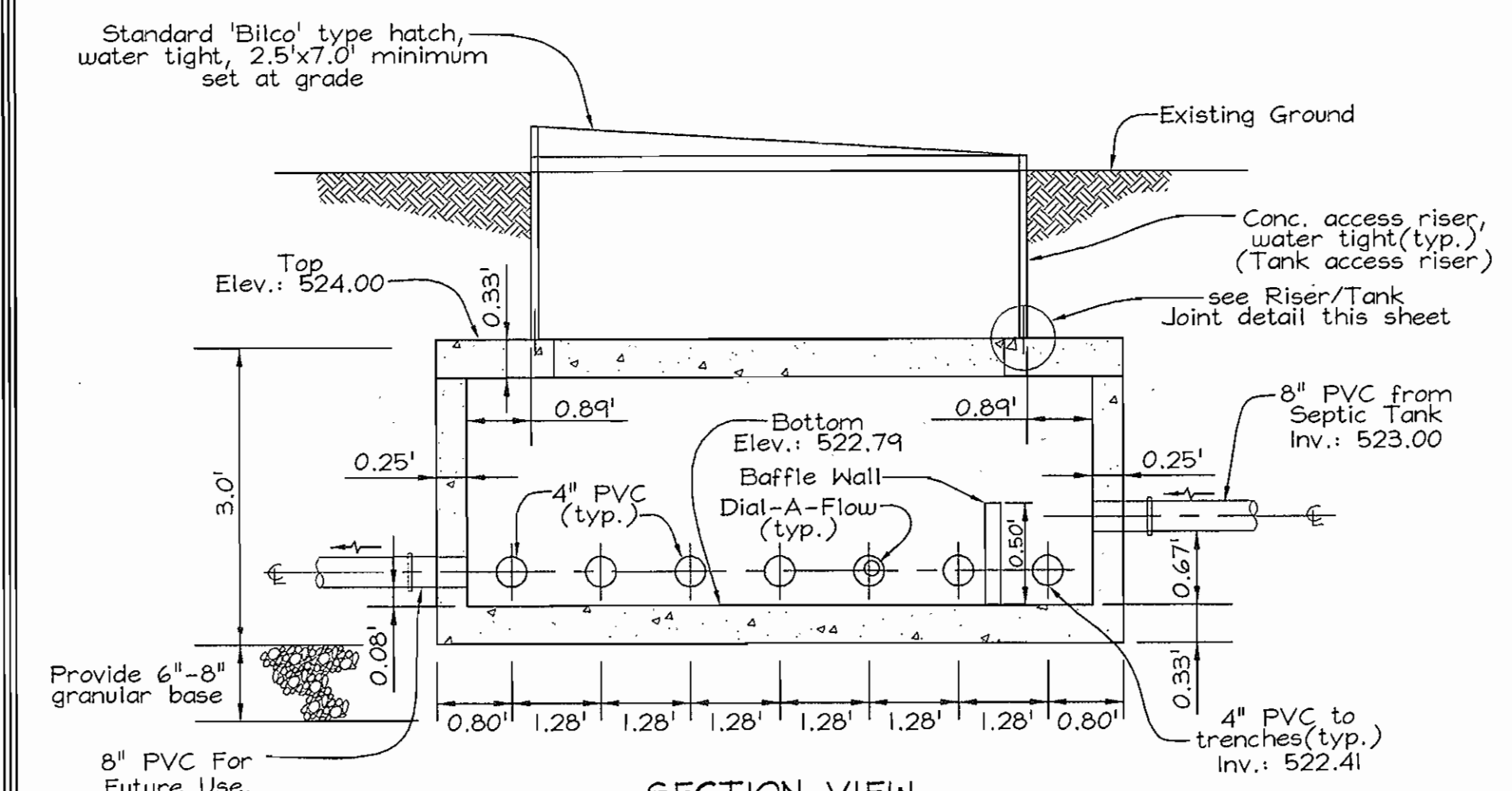
SIZE	ST1	ST2	ST3
3,000 Gal.	3,000 Gal.	3,000 Gal.	6,000 Gal.
RIM ELEV.	528.05(both)	528.24(both)	528.33(both)
TOP ELEV.	524.55	524.90	525.25
BOT. ELEV.	520.08	519.73	519.38
A	13.66'	13.66'	18.66'
B	7.66'	7.66'	10.66'
C	3.50'	3.50'	5.00'
D	N 604,048.88 E 1,298,232.52	N 604,072.39 E 1,298,235.20	N 604,100.87 E 1,298,238.44
E	N 604,035.31 E 1,298,230.98	N 604,058.82 E 1,298,233.65	N 604,082.33 E 1,298,236.33
F	13.24'	13.24'	18.24'



**SEWER CLEANOUT @ DISTRIBUTION BOX**  
Modified Ho. Co. Std. Detail S-2.22  
Not to Scale



**PLAN VIEW**



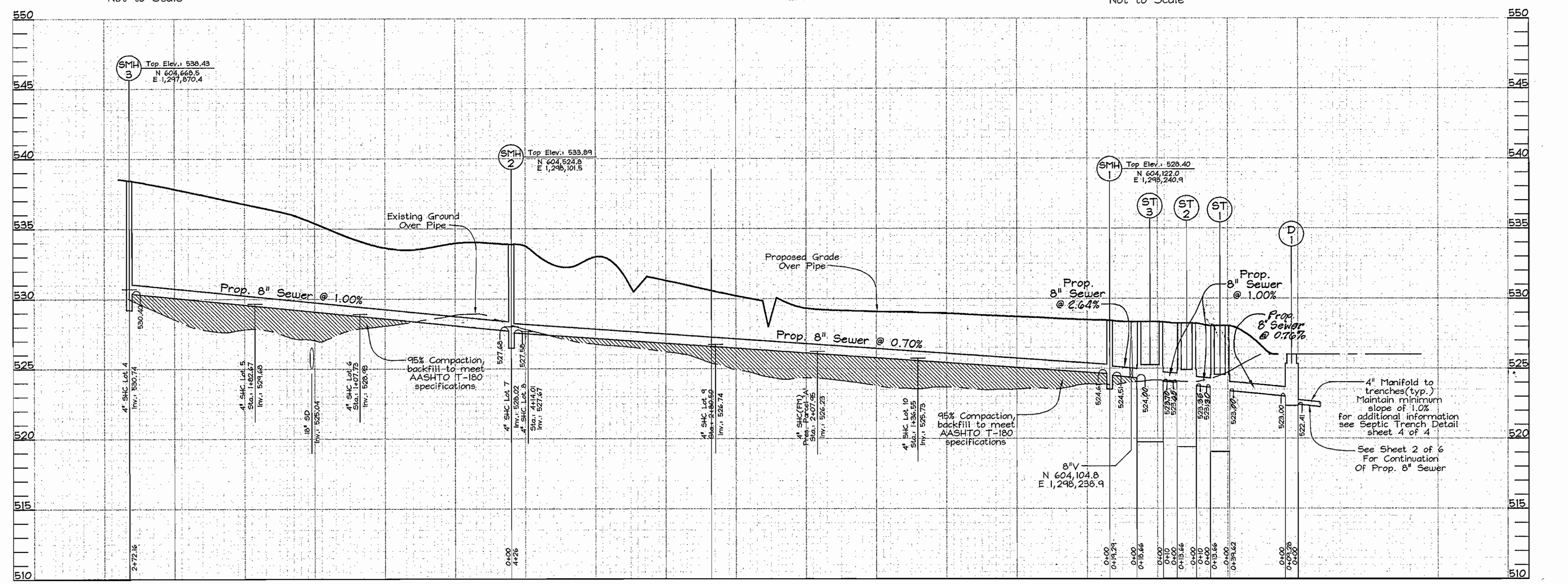
**SECTION VIEW**

**TYPICAL CONCRETE DISTRIBUTION BOX**  
Not to Scale

NOTE: To insure equal distribution to each manifold, provide 'Dial-a-Flow' levelers from American Manufacturing Company, Inc. (or equivalent).

Part #      Size      Color  
170-0038    4" Nominal    4" ID & above    Green  
170-0039    4" Nominal    Under 4" ID      Grey

(For additional information see [www.americansite.com](http://www.americansite.com) or call 1.800.345.3132)



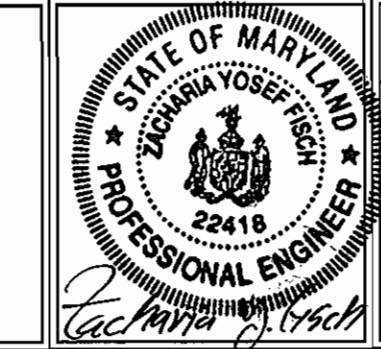
**SEWER PROFILES**  
Scale: Horizontal - 1"=50'  
Vertical - 1"=5'

APPROVED: FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]*  
COUNTY HEALTH OFFICER      DATE: 6/2/02

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*[Signature]*  
CHIEF, BUREAU OF UTILITIES      DATE: 5-24-02

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
*[Signature]*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION      DATE: 7/3/02

**FSH Associates**  
Engineers Planners Surveyors  
8318 Forrest Street, Elkott City, MD 21043  
Tel: 410-750-2251 Fax: 410-750-7350  
E-mail: FSHAssociates@os.com

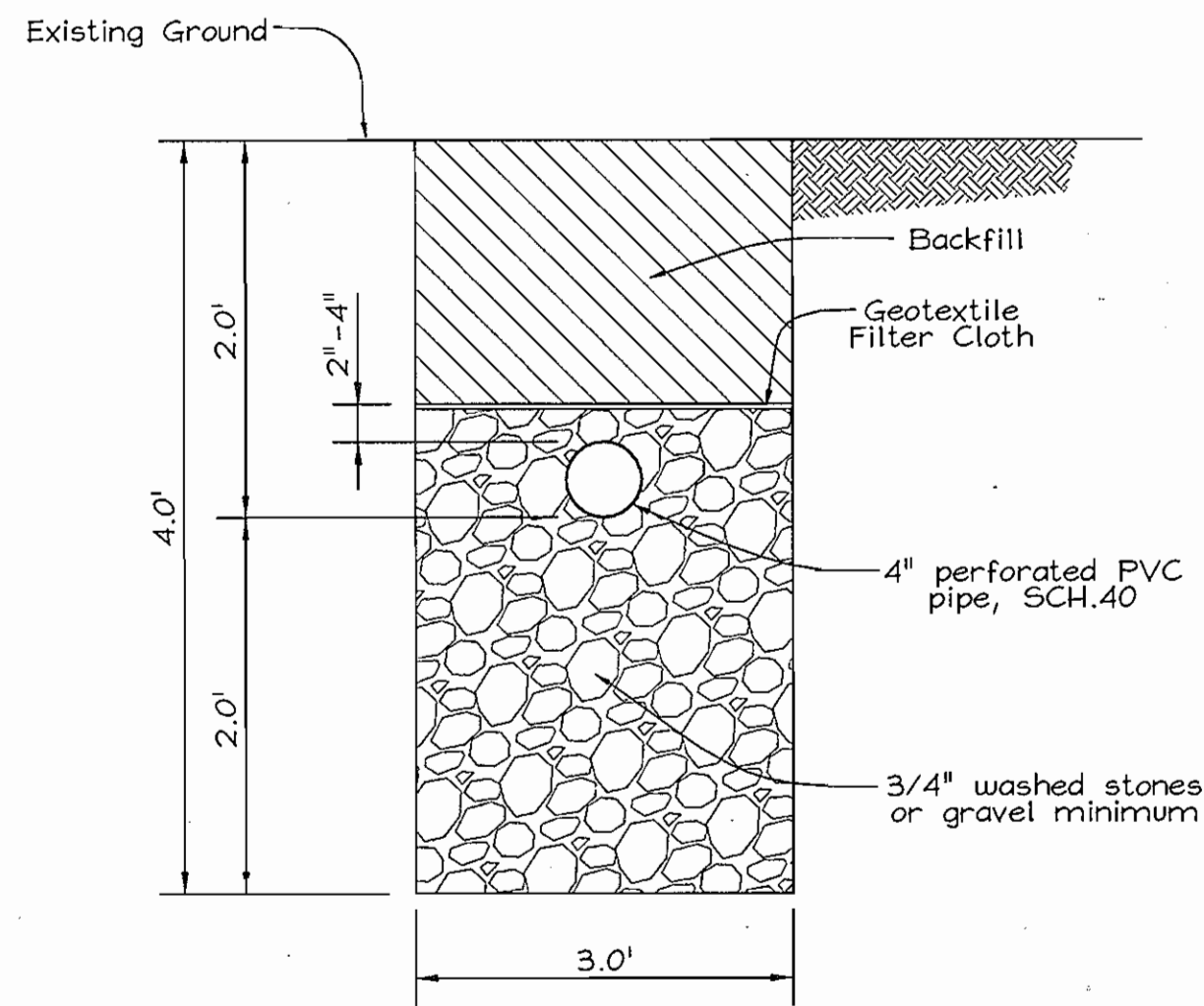
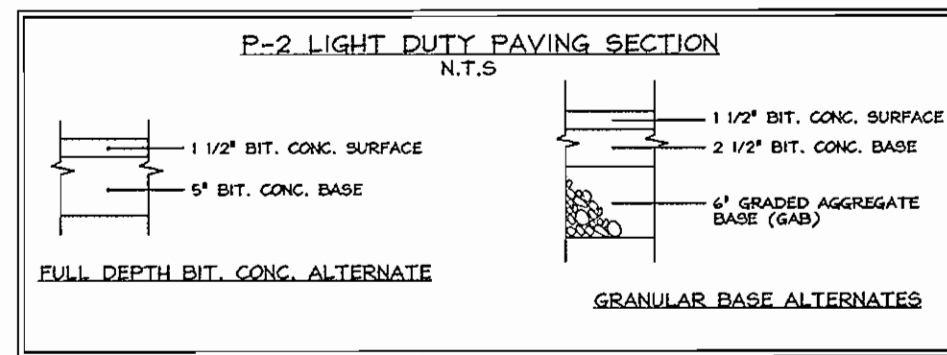


DESIGN BY: PS	
DRAWN BY: PS	
CHECKED BY: ZYF	
DATE: May 06, 2002	
KCI 1	ASBUILT DATA SHOWN ON PLAN 04/06/04
BY NO.	REVISION
	DATE

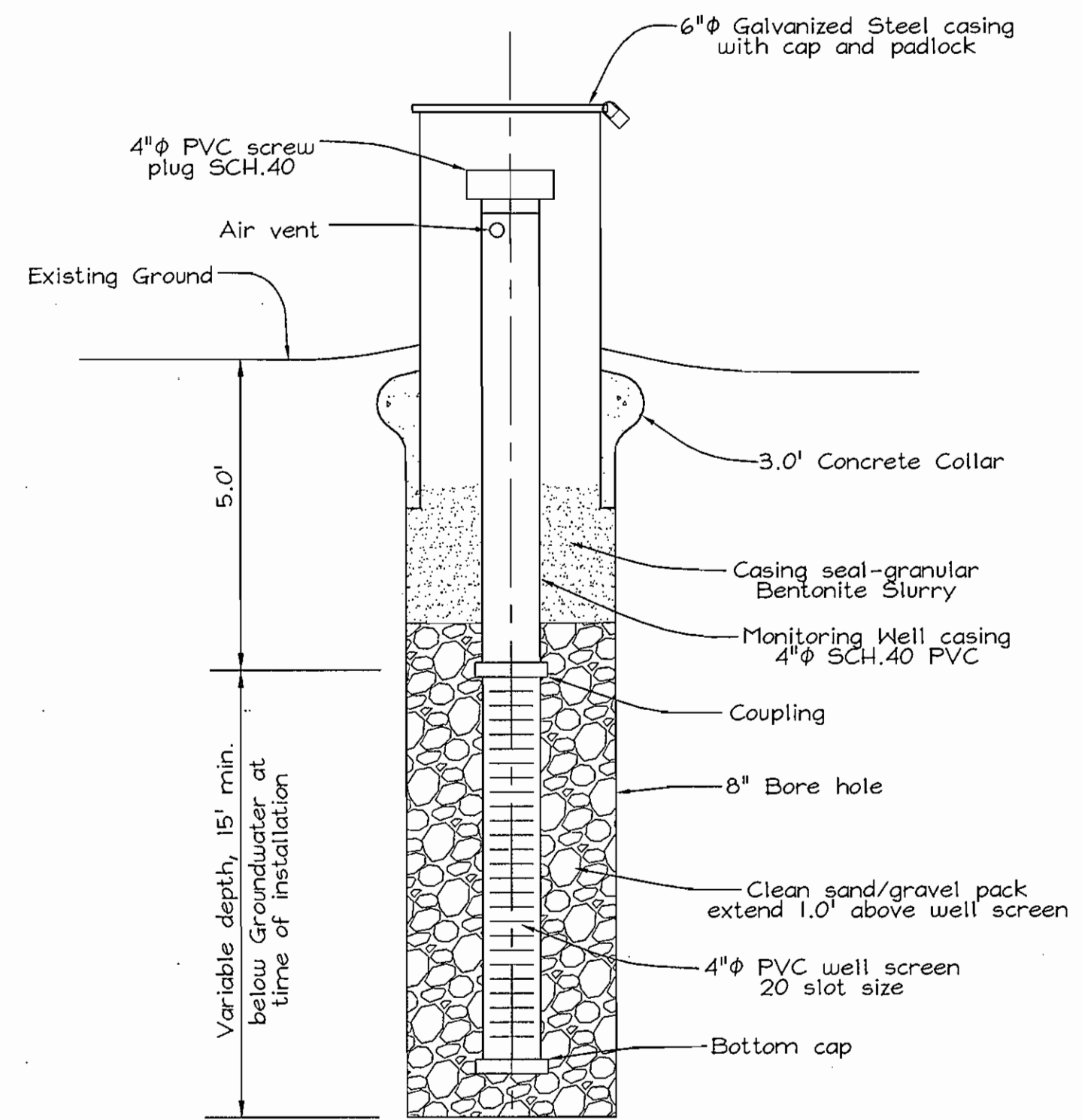
**SEWER PROFILE AND DETAILS**  
600' SCALE MAP NO.: 8 BLOCK NO.: 14#20

WASTEWATER COLLECTION, TREATMENT AND DISPOSAL SYSTEM  
**MAPLE RIDGE**  
LOTS 4 THRU 10 AND PRESERVATION PARCEL 'A'  
CONTRACT NO. 50-4046-D  
TAX MAP 8, GRIDS 14 & 20      PARCELS 51 & 378  
4TH ELECTION DISTRICT      HOWARD COUNTY, MARYLAND

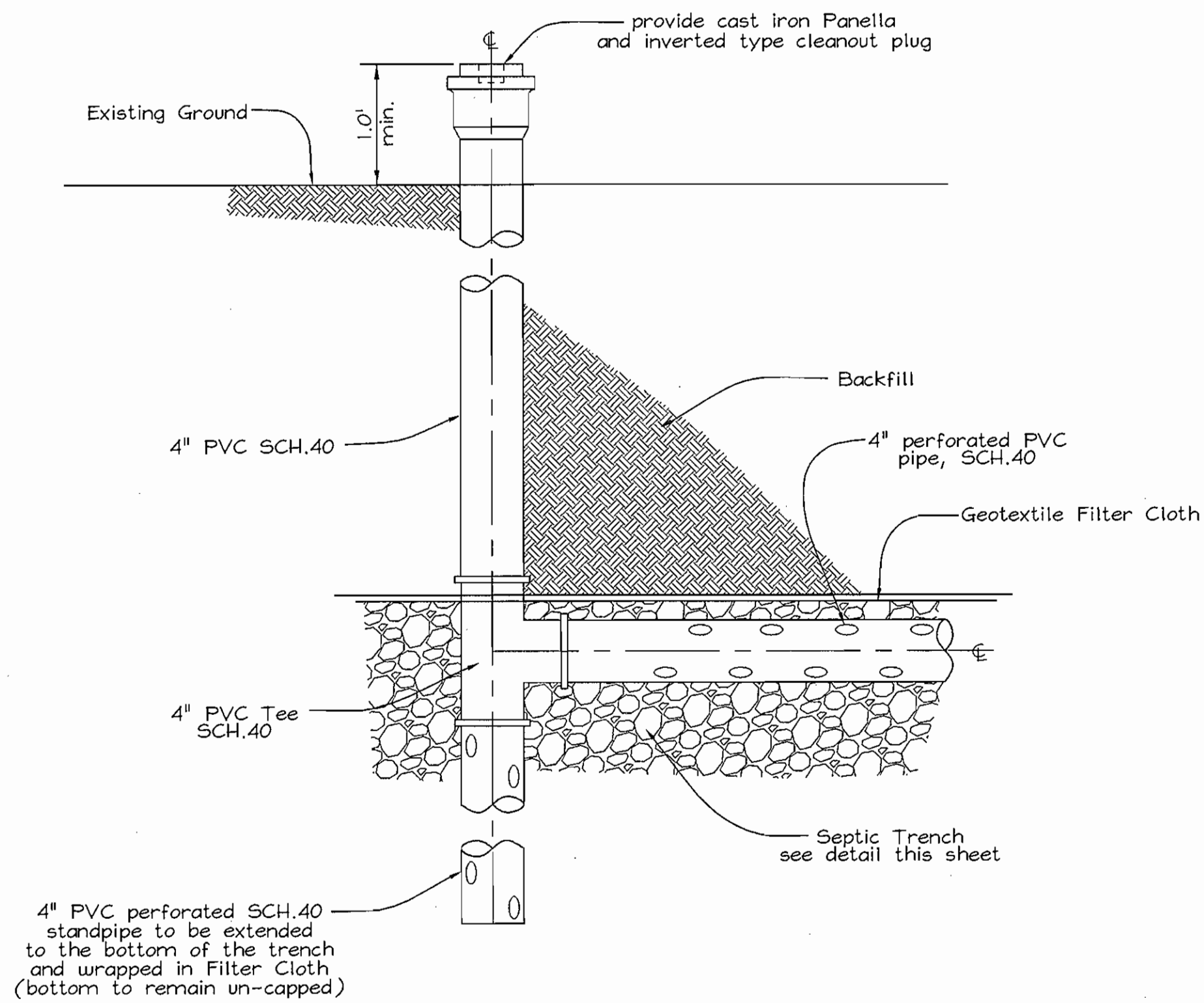
SCALE AS SHOWN  
SHEET NO. 3 OF 6



SEPTIC TRENCH DETAIL  
Not to Scale



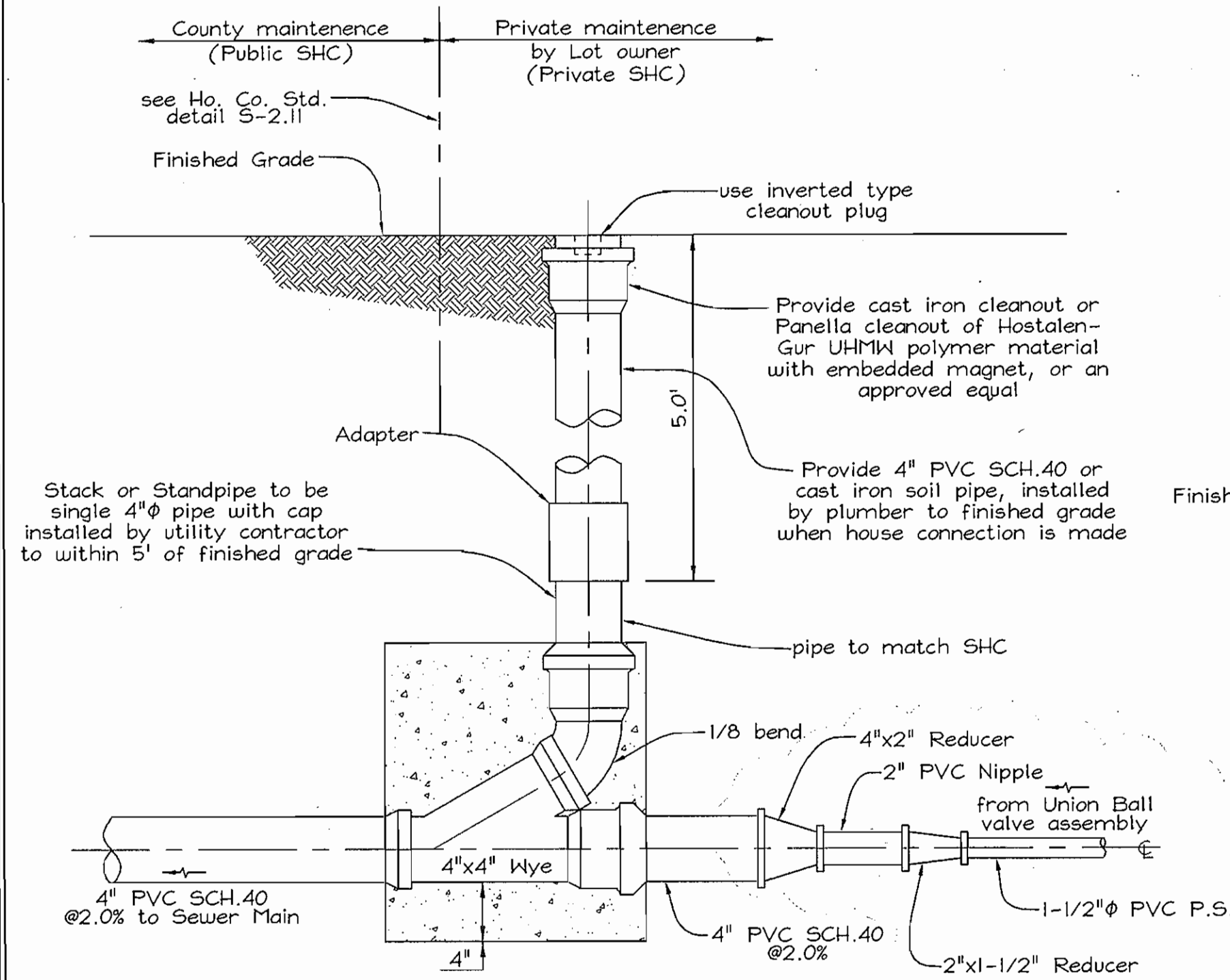
MONITORING WELL DETAIL  
Not to Scale



DISTRIBUTION LATERAL TERMINATION DETAIL  
Not to Scale

SEWER HOUSE CONNECTION CHART			
Lot #	Inv. @ Main	Inv. @ PL	
4	530.74	531.06	
5	529.68	530.12	
6	528.93	529.57	
7	528.02	528.52	
8	527.67	528.27	
9	526.74	527.96	
10	525.73	525.93	
Parcel 'A'	526.23	526.43	

NOTE: Lots 4 thru 10 and Preservation Parcel 'A' require private exterior pump systems.



TYPICAL FORCE MAIN HOUSE CONNECTION  
Modified Ho. Co. Std. Detail S-2.22  
Not to Scale

NOTE: Connection to the County Stub shall be with an Elastomeric connector (such as a Fernco coupling), to allow for slight deflection

NOTE: Connection may also be made on Standpipe with a minimum of 3.5' cover

APPROVED: FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER: [Signature] DATE: 6/24/02

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

FSH Associates  
Engineers Planners Surveyors  
8318 Forrest Street, Ellicott City, MD 21043  
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E-mail: FSHAssociates@cs.com



DESIGN BY: PS  
DRAWN BY: PS  
CHECKED BY: ZYF  
DATE: May 06, 2002

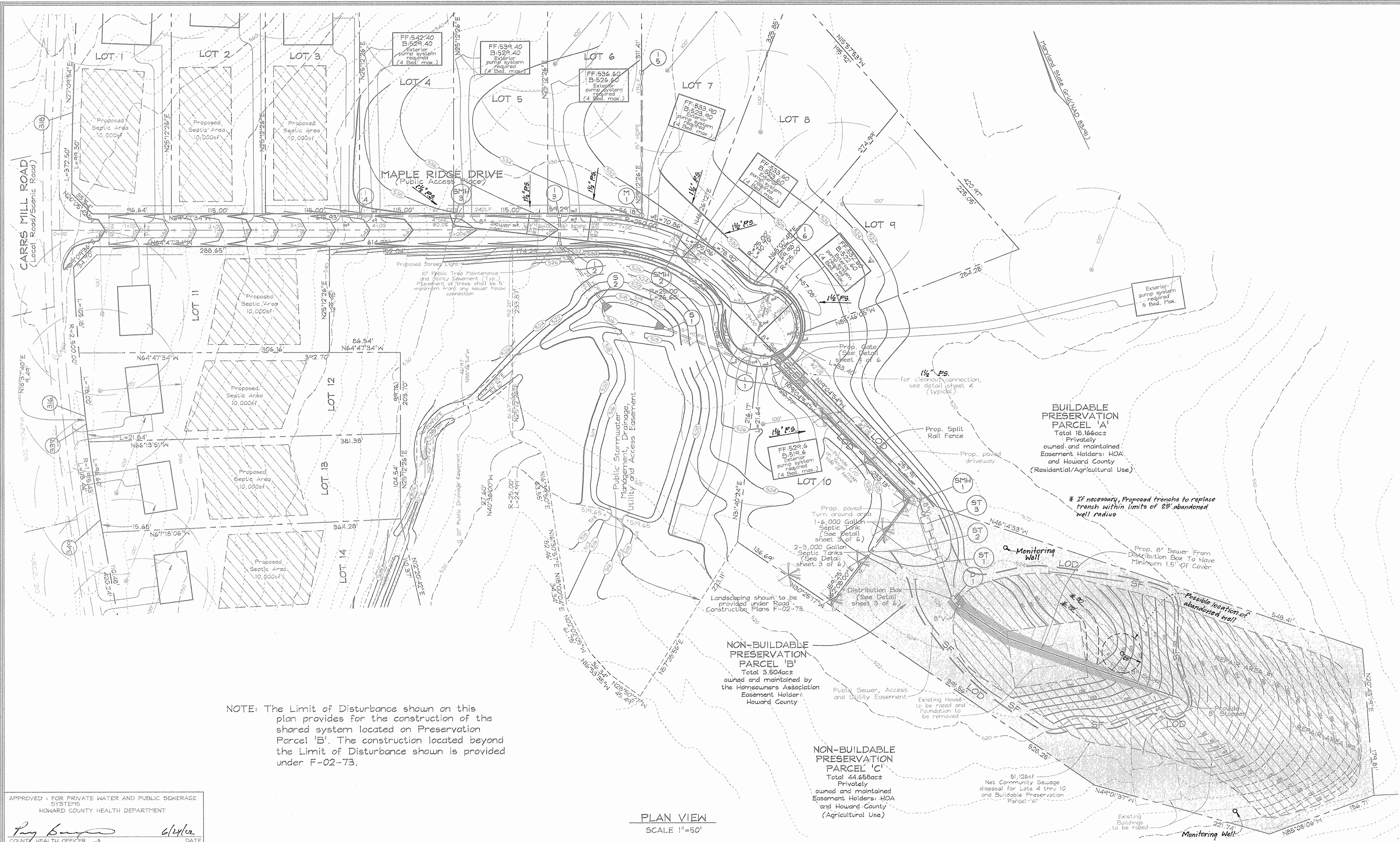
BY NO.	REVISION	DATE

SEWER DETAILS

600' SCALE MAP NO.: 8 BLOCK NO.: 14#20

WASTEWATER COLLECTION, TREATMENT AND DISPOSAL SYSTEM  
MAPLE RIDGE  
LOTS 4 THRU 10 AND PRESERVATION PARCEL 'A'  
CONTRACT NO. 50-4046-D  
TAX MAP 8, GRIDS 14 & 20 PARCELS 51 & 378  
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET NO. 4 OF 6



NOTE: The Limit of Disturbance shown on this plan provides for the construction of the shared system located on Preservation Parcel 'B'. The construction located beyond the Limit of Disturbance shown is provided under F-02-73.

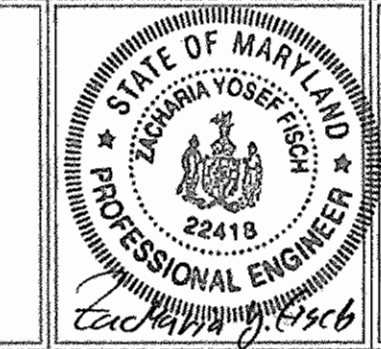
APPROVED: FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 County Health Officer *Ray Boney* 6/14/02 DATE

PLAN VIEW  
 SCALE 1"=50'

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Chief, Bureau of Utilities *R. Benin* 5-24-02 DATE

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND  
 Chief, Development Engineering Division *McDonnell* 7/3/02 DATE

**FSH Associates**  
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 Tel: 410-750-2251 Fax: 410-750-7360  
 E-mail: FSHAssociates@cs.com

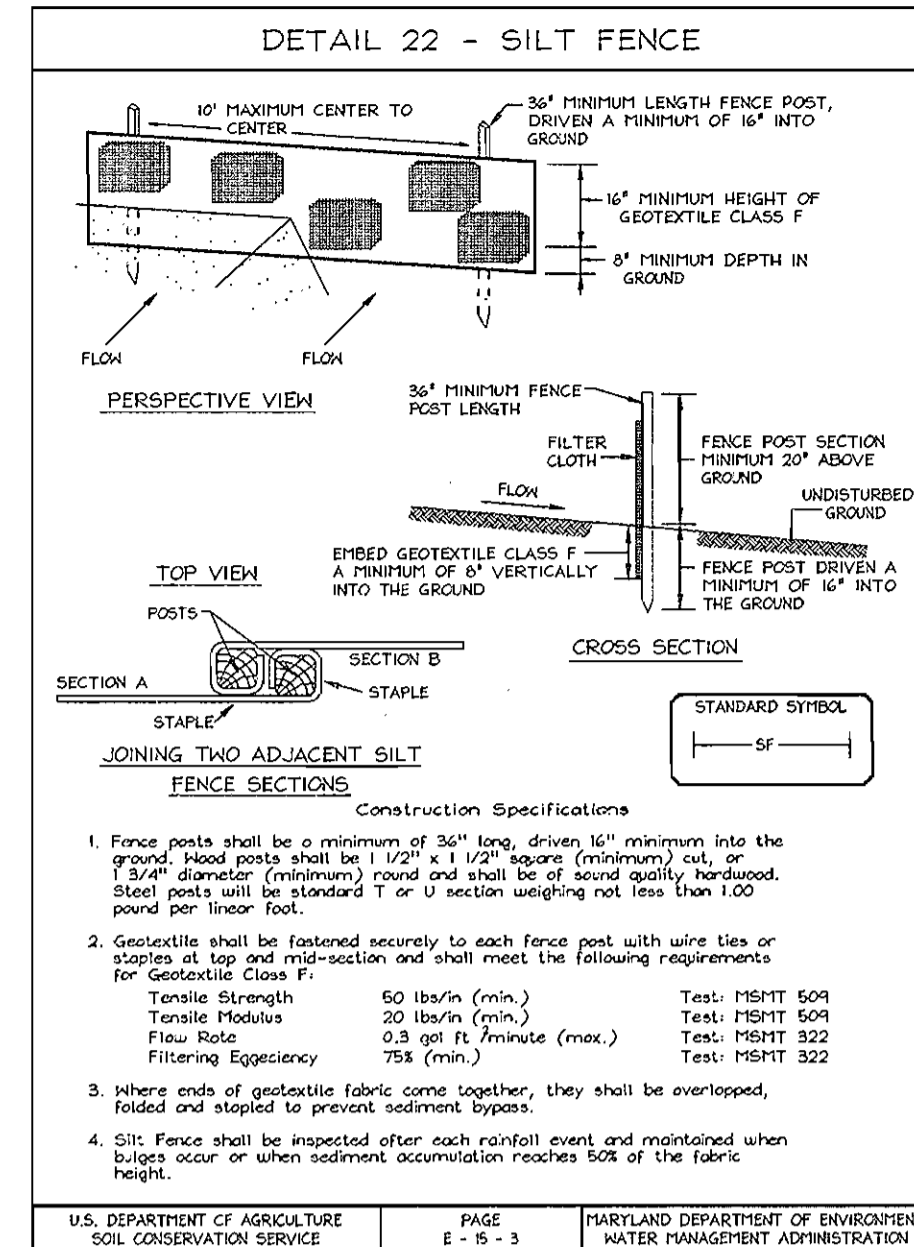
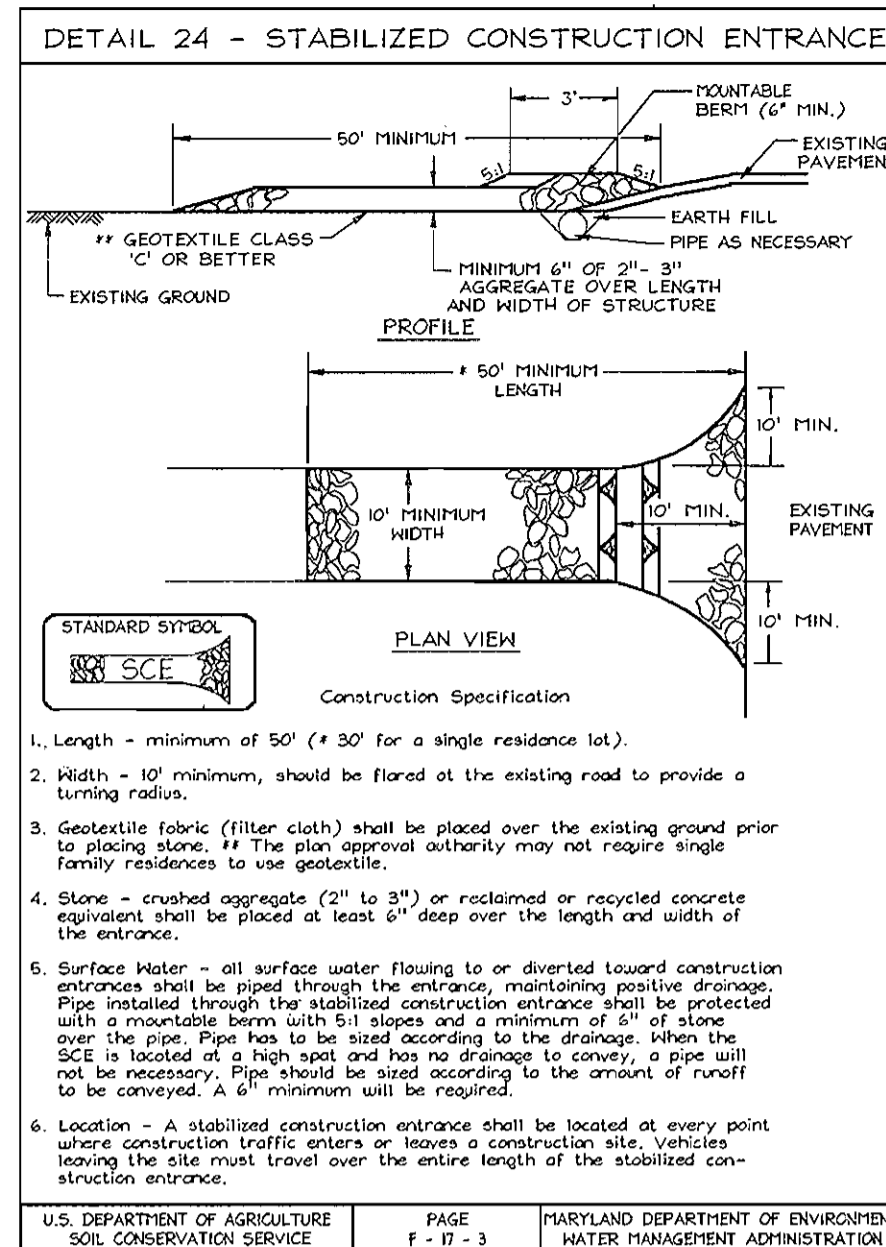


DESIGN BY: PS	BY NO.	REVISION	DATE
DRAWN BY: PS			
CHECKED BY: ZYF			
DATE: May 06, 2002			

**SEDIMENT AND EROSION CONTROL PLAN**  
 600' SCALE MAP NO.: 8 BLOCK NO.: 14820

WASTEWATER COLLECTION, TREATMENT AND DISPOSAL SYSTEM  
**MAPLE RIDGE**  
 LOTS 4 THRU 10 AND PRESERVATION PARCEL 'A'  
 CONTRACT NO. 50-4046-D  
 TAX MAP 8, GRIDS 14' & 20' PARCELS 51 & 378  
 4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET NO. 5 OF 6



**21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL**

**Definition**  
Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

**Purpose**  
To provide a suitable soil medium for vegetable growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

**Conditions Where Practice Applies**  
1. This practice is limited to areas having 2:1 or flatter slopes where:  
a. The texture of the exposed subsoil/gravel material is not adequate to produce vegetative growth.  
b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.  
c. The original soil to be vegetated contains material toxic to plant growth.  
d. The soil is so acidic that treatment with limestone is not feasible.

2. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

**Construction and Material Specifications**  
1. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.  
2. Topsoil Specifications - Soil to be used as topsoil must meet the following:  
a. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or a soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, sludge, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1/2\"/>

**PERMANENT SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LEIVED VEGETATIVE COVER IS NEEDED.

**SEEDING PREPARATION:** Loosen upper three inches of soil by raking, slicing or other acceptable means before seeding, if not previously loosened.

**SOIL AMENDMENTS:** In lieu of soil test recommendations, use one of the following schedules:  
1) Preferred-ApPLY 2 tons per acre dolomitic limestone (42 lbs/100 sq ft.) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/100 sq ft.) before seeding. Harrow or disc into upper three inches of soil. At the time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (11 lbs/1000 sq ft.).  
2) Acceptable-ApPLY 2 tons per acre dolomitic limestone (42 lbs/100 sq ft.) and apply 1000 lbs. per acre 10-10-10 fertilizer (23 lbs/1000 sq ft.) before seeding. Harrow or disc into upper three inches of soil.

**SEEDING:** For the periods March 1 thru April 30, and August 1 thru October 15, seed with 50 lbs. per acre (14 lbs/1000 sq ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 40 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs/1000 sq ft.) of weeping lovegrass. During the period of October 16 thru February 26, protect site by applying 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option (2) the seed. Option (3) seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

**MULCHING:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft.) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 25 gallons per acre (5 gal/1000 sq ft.) of emulsified asphalt on flat areas. On slopes 3 feet or higher, use 340 gallons per acre (8 gal/1000 sq ft.) for anchoring.

**MAINTENANCE:** Inspect all seeded areas and make needed repairs, replacements and reseedings.

**TEMPORARY SEEDING NOTES**

**SEEDING PREPARATION:** Loosen upper three inches of soil by raking, slicing or other acceptable means before seeding, if not previously loosened.

**SOIL AMENDMENTS:** Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs/1000 sq ft.).

**SEEDING:** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 1 1/2 bushel per acre of annual ryegrass (3.2 lbs/1000 sq ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs/1000 sq ft.). For the period November 1 thru February 26, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

**MULCHING:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft.) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 25 gallons per acre (5 gal/1000 sq ft.) of emulsified asphalt on flat areas. On slopes 3 feet or higher, use 340 gallons per acre (8 gal/1000 sq ft.) for anchoring.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**SEDIMENT CONTROL NOTES**

- A minimum of 48 hours notice must be given to the Howard County Department of Inspection, License and Permits Sediment Control Division prior to the start of any construction (315-1055).
  - All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.
  - Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within (3) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes greater than 3:1. (3) 14 days as to all other disturbed or graded areas on the project site.
  - All sediment traps/basins must be fenced and warning signs posted around their perimeter. Refer to Appendix with Vol. 1, Chapter 7, HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
  - 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, sod, temporary seeding, and mulching (Sec. 5). Temporary stabilization with mulch alone shall be done when recommended seeding rates 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 until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
  - Site Analysis:
 

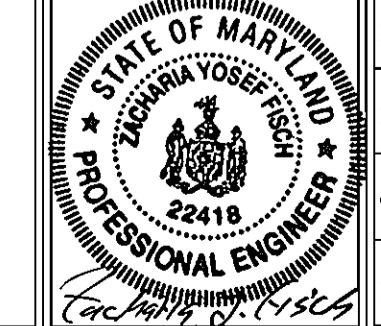
Total Area	3.50 Acres
Area Disturbed	1.43 Acres
Area to be roofed or paved	0.12 Acres
Area to be vegetatively stabilized	1.91 Acres
Total Cut	0.27
Total Fill	0.00
Offsite waste/borrow area location	
  - Additional sediment control practice which is disturbed by grading activity for placement of utilities 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 of perimeter 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 the 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.
- \* To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

APPROVED: FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]*  
COUNTY HEALTH OFFICER  
6/24/02  
DATE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*[Signature]*  
CHIEF, BUREAU OF UTILITIES  
5-24-02  
DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
*[Signature]*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
7/3/02  
DATE

**FSH Associates**  
Engineers Planners Surveyors  
8318 Forest Street, Ellicott City, MD 21043  
Tel: 410-750-2251 Fax: 410-750-7350  
E-mail: FSHAssociates@cs.com



DESIGN BY:	PS				
DRAWN BY:	PS				
CHECKED BY:	ZYF				
DATE:	May 06, 2002	BY NO.		REVISION	

**SEDIMENT AND EROSION CONTROL DETAILS**  
60' SCALE MAP NO.: 8 BLOCK NO.: 14#20

WASTEWATER COLLECTION, TREATMENT AND DISPOSAL SYSTEM  
**MAPLE RIDGE**  
LOTS 4 THRU 10 AND PRESERVATION PARCEL 'A'  
CONTRACT NO. 50-4046-D  
TAX MAP 8, GRIDS 14 & 20 PARCELS 51 & 378  
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET NO. 6 OF 6