	SHEET INDEX
1	COVER SHEET
2	ROAD CONSTRUCTION PLAN
3	ROAD PROFILES
4	GRADING AND SEDIMENT CONTROL PLAN
5	STORM DRAIN DRAINAGE AREA MAP
6	LANDSCAPE PLAN
7	SEDIMENT CONTROL AND STORMWATER MANAGEMENT NOTES AND DETAILS
8	STORM DRAIN AND STORMWATER MANAGEMENT PROFILES
9	FOREST CONSERVATION PLAN

Q\JJND PROJECTS\\$7-077\DW\$\700881.DW9-JCD 2.7.00

WHITETAIL WOODS LOTS 1 THRU 17 & OPEN SPACE LOTS 18 & 19 FINAL ROAD CONSTRUCTION PLANS HOWARD COUNTY, MARYLAND

PARCEL 340

200/244 ZONED R-12

OPEN SPACE

LOT 16

101.3

OPEN SPACE LOT 15

HOWARD COUNTY DEPT. PARKS & RECREATION

FREDERICK G. SIPES

PARCEL 756 SAMUEL REDD, JR.

771/440

ZONED R-12

LOT 9

<u>PLAN</u>

SCALE: 1"=100'

PARCEL 528 GORDON ROYER

799/384 ZONED R-12

LOT 6

PARCEL 255

LOT 29

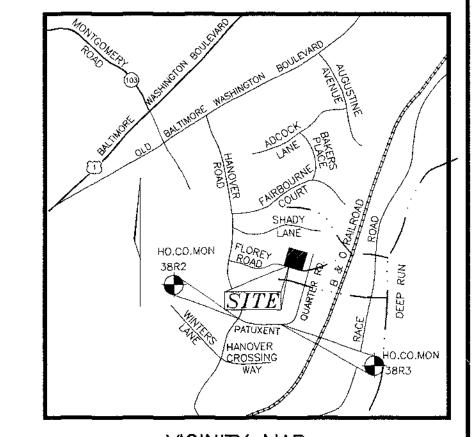
PARCEL 256 LOT 28

PARCEL 257 LOT 26

HENRY W. FLOREY SUBDIVISION

ZONED R-12

FLOREY ROAD



VICINITY MAP

GENERAL NOTES

1. ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED. PROJECT BACKGROUND:

LOCATION: TAX MAP 38 BLOCK 15 PARCEL 262 1ST ELECTION DISTRICT ZONING: R-12

TOTAL TRACT AREA: 6.112 AC. NUMBER OF PROPOSED LOTS: 17 SFD, 2 OPEN SPACE DATE SKETCH PLAN APPROVED: JUNE 24, 1998

APPLICABLE DPZ FILE NUMBERS: S-98-11, P-99-08 3. TRACT BOUNDARY ESTABLISHED BY A BOUNDARY SURVEY BY VOGEL & ASSOCIATES, INC. DATED DECEMBER, 1997.

4. TOPOGRAPHY BASED ON A FIELD RUN SURVEY PREPARED BY VOGEL & ASSOCIATES, INC. DATED AUGUST, 1998. CONTOUR INTERVAL IS 2 FEET.

5. COORDINATES BASED ON NAD 83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS.

N 557,500.663 £ 391,227.052 N 557,417.823 E 391,983.177

38R2 6. WATER AND SEWER FOR THIS PROJECT WILL BE PUBLIC:

WATER & SEWER CONTRACT NO. 14-3281-D

7. EXISTING UTILITIES WERE LOCATED PER COUNTY DRAWINGS AND FIELD RUN SURVEY.
8. STORMWATER MANAGEMENT METHOD: EXTENDED DETENTION OF 3 YR. (WATER QUALITY), 2 YR. AND 10 YR. STORMS. THE FACILITY IS TO BE PRIVATELY OWNED AND JOINTLY MAINTAINED BY HOWARD COUNTY AND THE HOMEOWNERS ASSOCIATION.

9. FOREST CONSERVATION PLAN PREPARED BY EXPLORATION RESEARCH, INC. DATED OCTOBER, 1998. 10. A TRAFFIC STUDY WAS APPROVED(S-98-11) FOR THIS PROJECT.

11. THERE IS NO FLOODPLAIN ON SITE.

12. GEDTECHNICAL REPORT PROVIDED BY HERBST/BENSON & ASSOC. DATE SEPTEMBER ,1998. 13. ALL LANDSCAPING REQUIREMENTS AS SET FORTH IN THE LANDSCAPE. MANUAL SHALL BE COMPLIED WITH(SEE SHEET 6). FINANCIAL SURETY FOR THE REQUIRED

PERIMETER LANDSCAPING WILL BE POSTED AS PART OF THE D.P.W. DEVELOPER'S AGREEMENT. 14. THE EXISTING STRUCTURE ON LOTS 16 & 17 IS TO BE RAZED.

15. OPEN SPACE LOT 19 TO BE DEDICATED TO HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS. OPEN SPACE LOT 18 TO BE OWNER AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION. 16. BASED ON A FIELD INVESTIGATION BY EXPLORATION RESEARCH, INC. ON APRIL, 1998, WATERS OF THE

U.S. ARE LOCATED ONSITE, THERE ARE NO WETLANDS ONSITE, THERE WILL BE NO GRADING OR DISTURBANCE WITHIN THE 50' STREAM BUFFER, 25' WETLAND BUFFER AND FOREST CONSERVATION EASEMENT.

17. THERE ARE STEEP SLOPES LOCATED ONSITE.

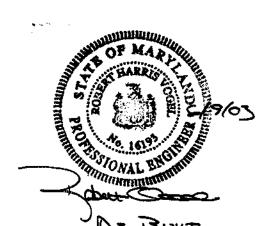
18. FLOREY ROAD IS A PUBLIC ROAD BY MEANS OF A 30' PRESCRIPTIVE RIGHT-OF-WAY.

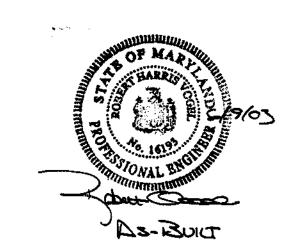
19. # DENOTES STREET LIGHTS, ALL STREETS LIGHTS ARE TO BE 100-WATT TRADITIONARE HPS VAPOR

POST TOP FIXTURES ON A 14' BLACK FIBERGLASS POLE.

OWNER/DEVELOPER

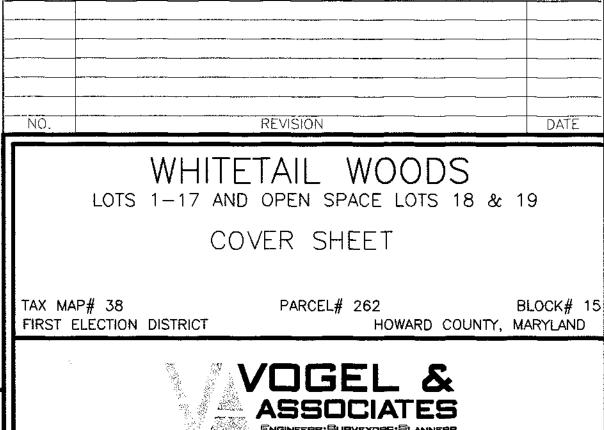
T.B.I. HOMES, INC. 7320 GRACE DRIVE COLUMBIA, MD. 21044





APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

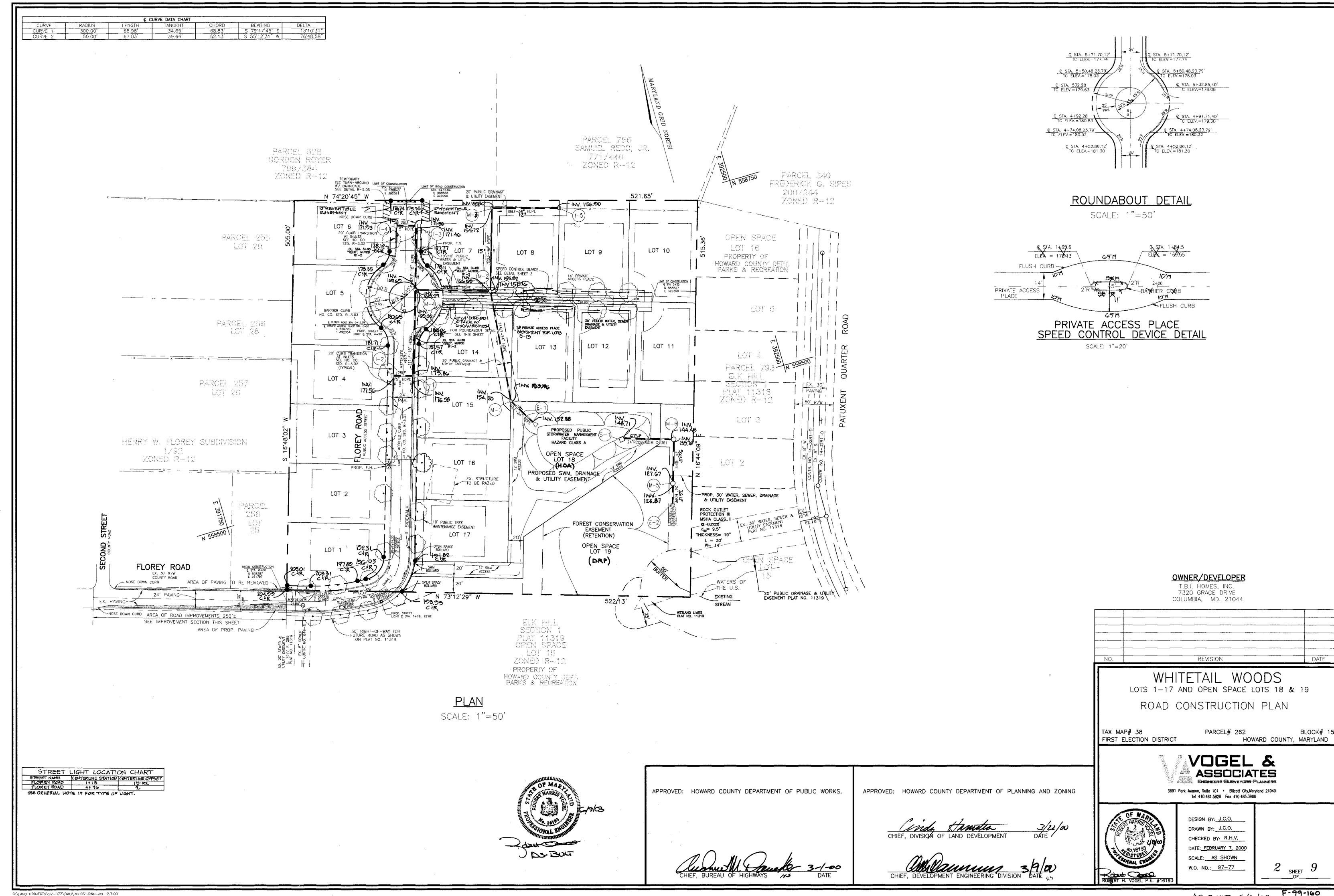
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

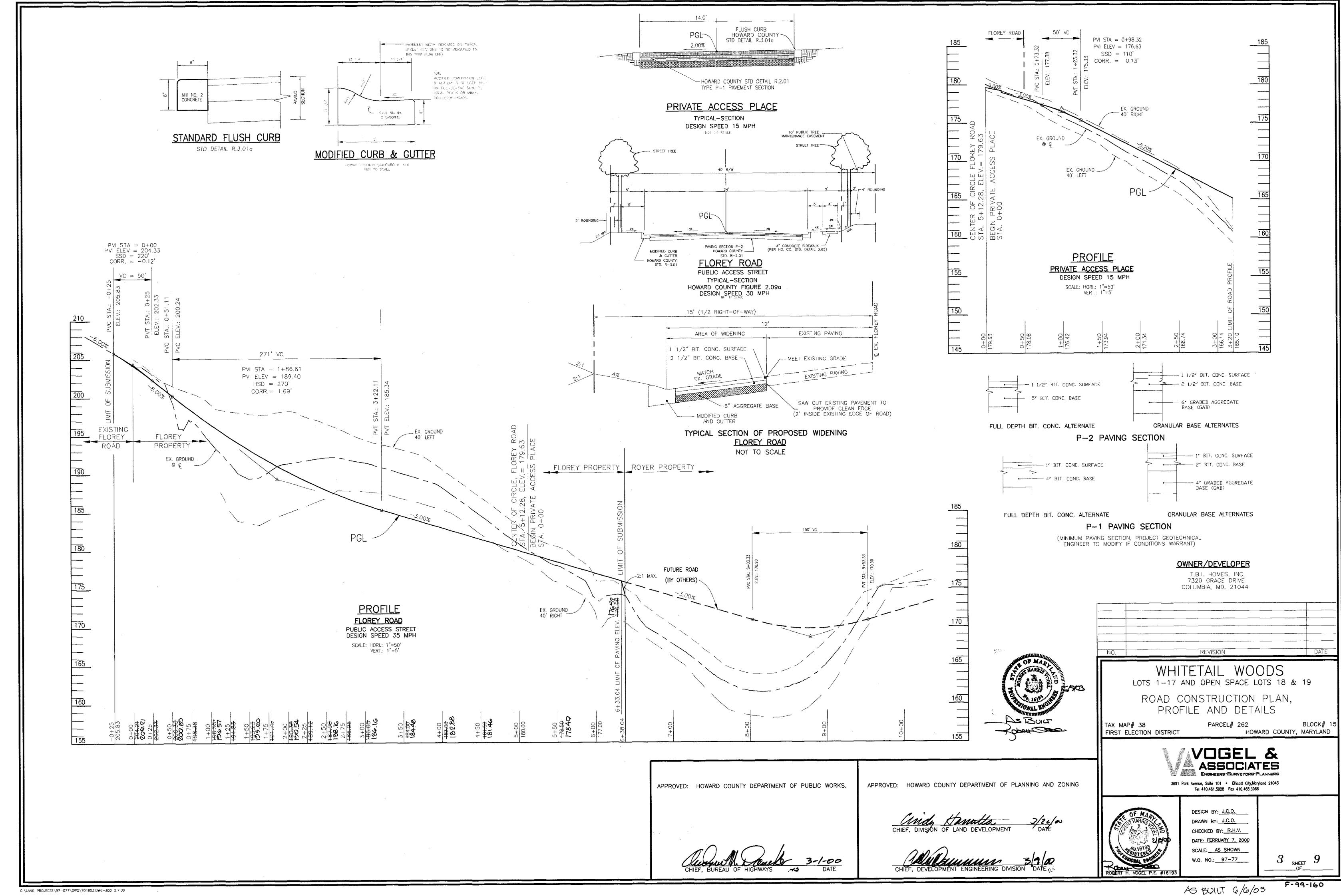


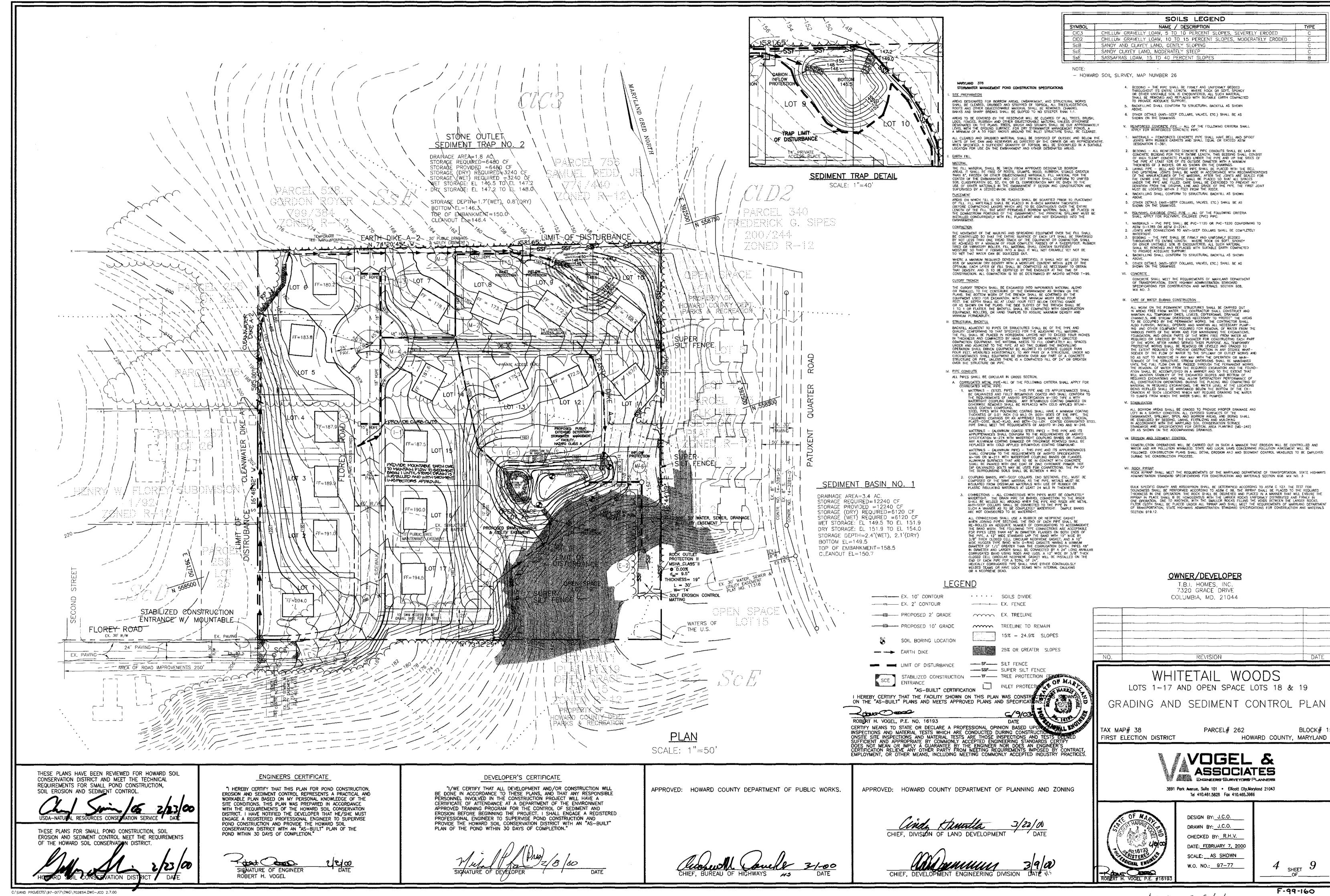
DESIGN BY: J.C.O. DRAWN BY: J.C.O. CHECKED BY: R.H.V. DATE: FEBRUARY 7, 2000 SCALE: AS SHOWN W.O. NO.: 97-77

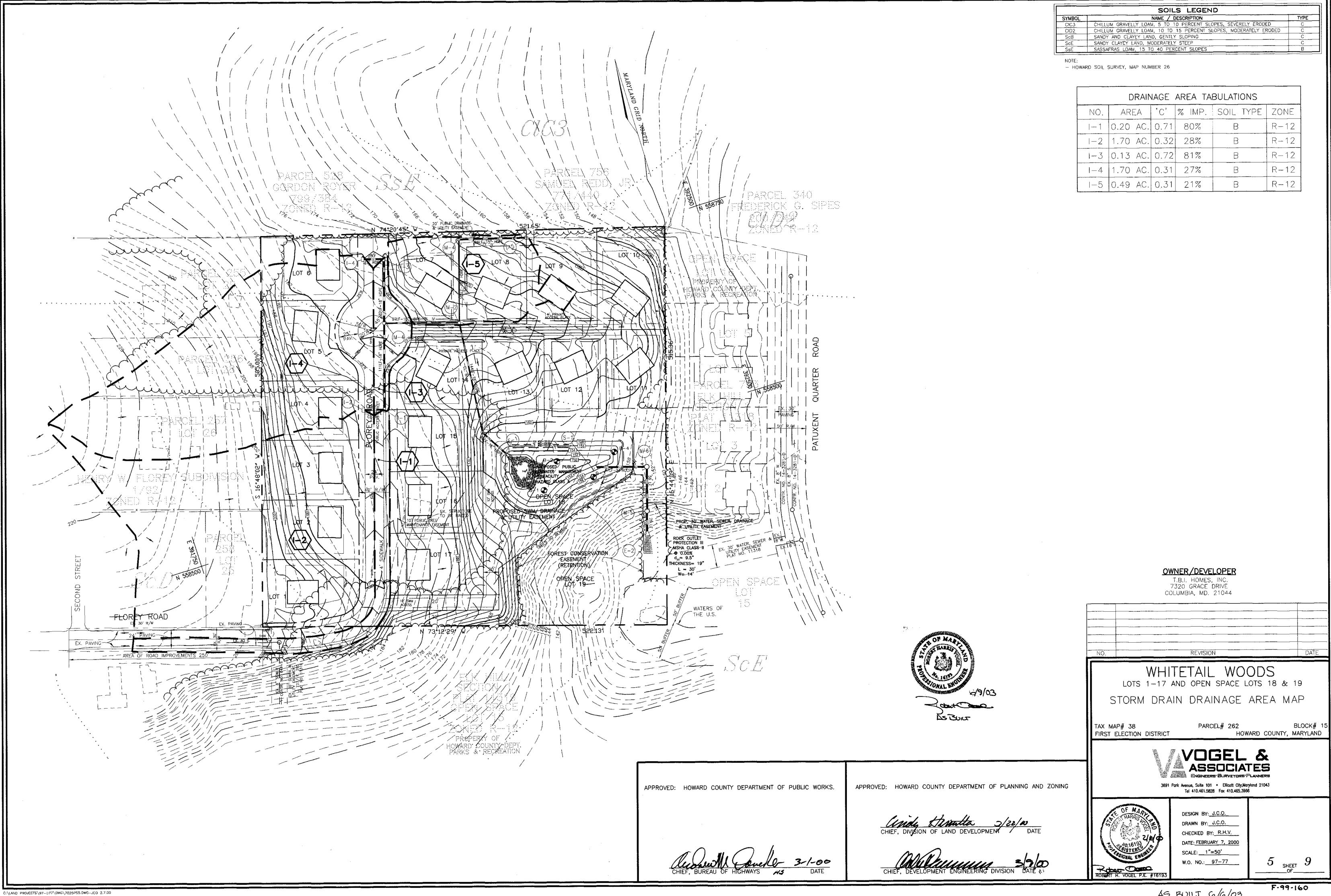
3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043 Tel 410.461.5828 Fax 410.465.3966

 $_{ ext{SHEET}}$ 9





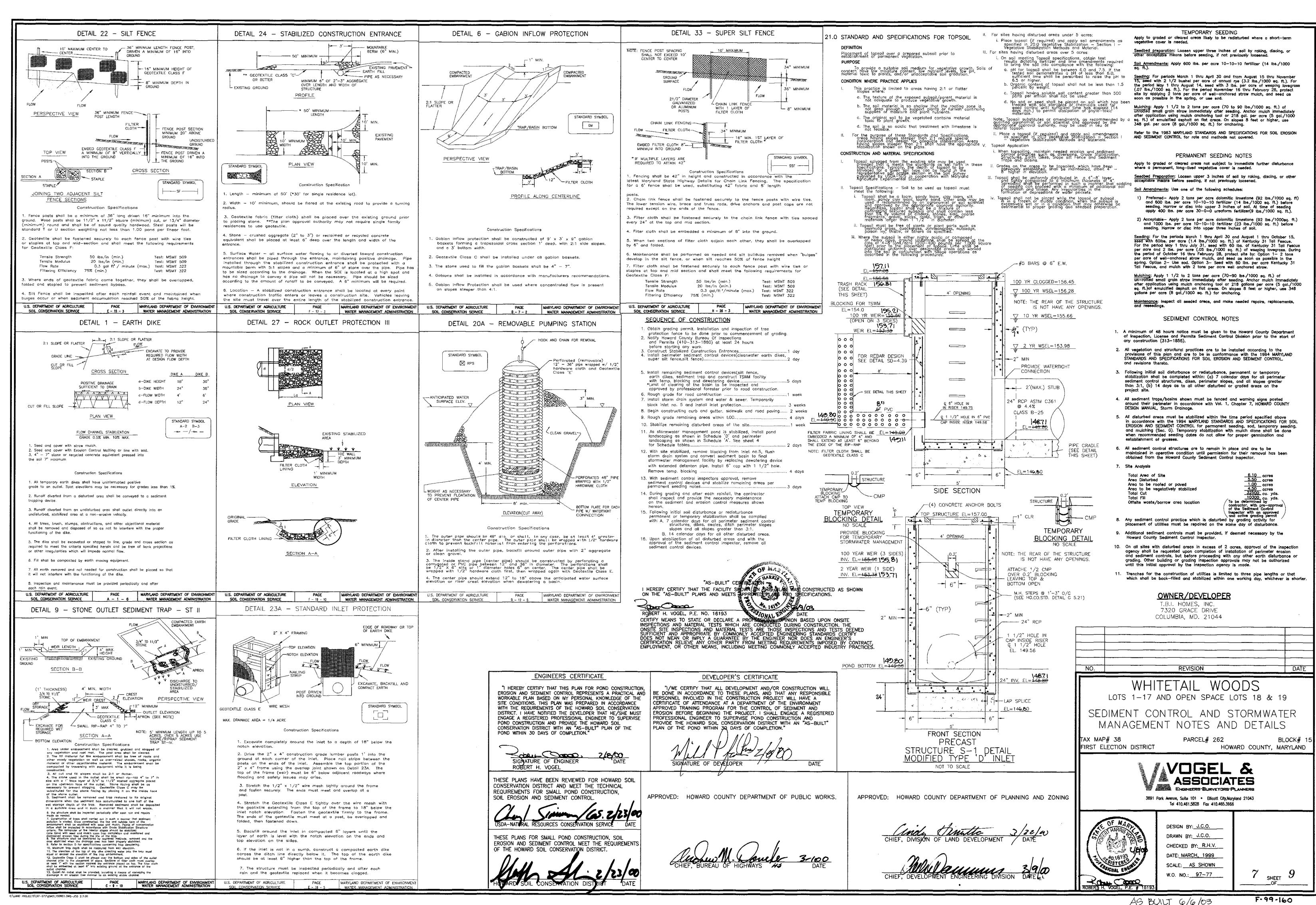


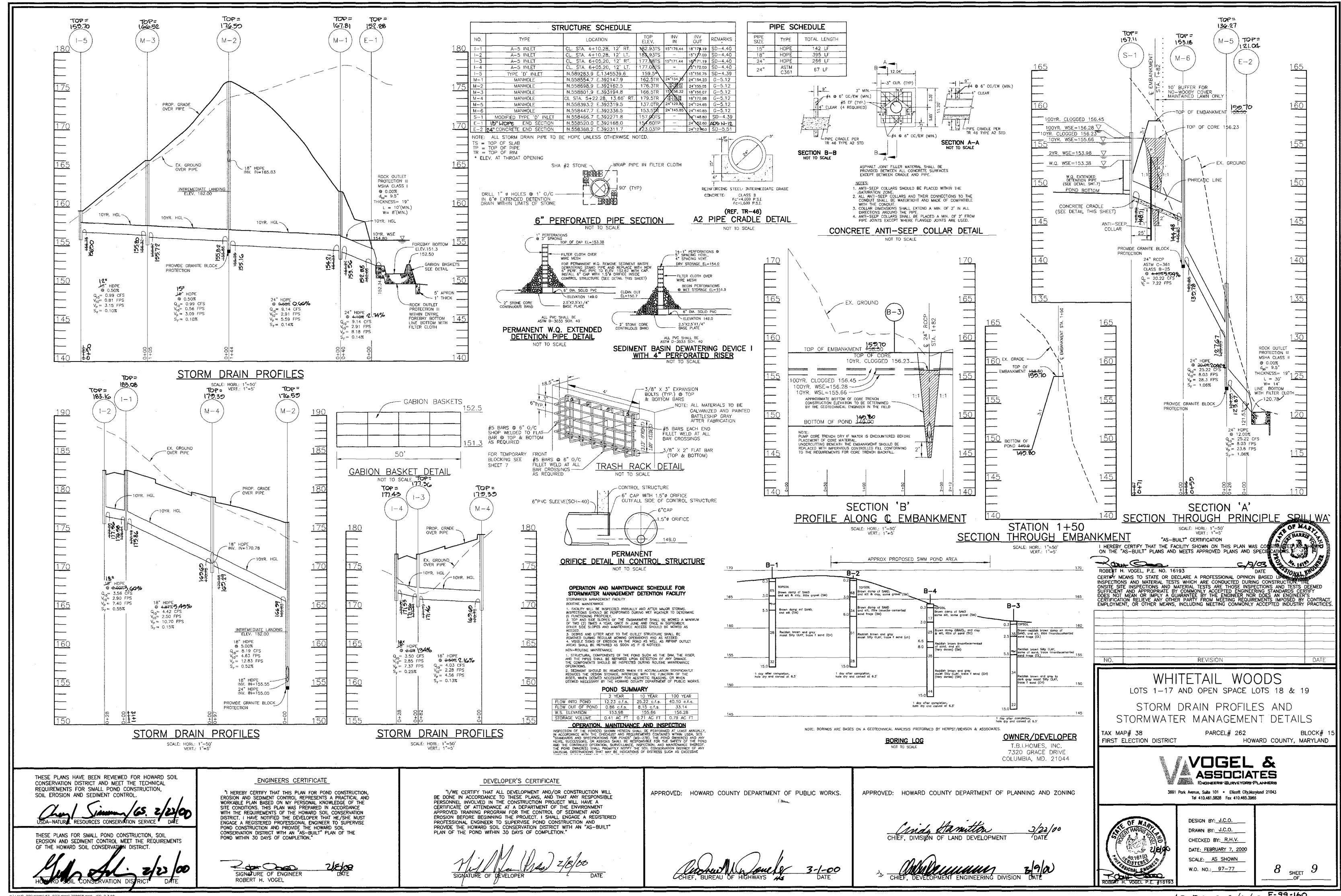


SCHEDULE D SCHEDULE A PERIMETER LANDSCAPE EDGE STORMWATER MANAGEMENT AREA LANDSCAPING 5 6 LANDSCAPE TYPE LANDSCAPE EDGE TOTAL LINEAR FEET OF PERIMETER 587 LANDSCAPE TYPE YES 587 CREDIT FOR EXISTING VEGETATION -17<u>5</u> 412 LINEAR FEET LINEAR FEET OF ROADWAY 150 | 372 | 515 | 521 | 505 | NUMBER OF TREES REQUIRED FRONTAGE/PERIMETER SHADE TREES(1:50) EVERGREEN TREES(1:40) 14 CREDIT FOR EXISTING VEGETATION 515 -180 335 (YES, NO, LINEAR FEET) <u>-200</u> 172 (DESCRIBE BELOW IF NEEDED) CREDIT FOR OTHER LANDSCAPING NO PARCEL 756 CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED) NUMBER OF PLANTS PROVIDED AT FINAL PLAN STAGE NO NO PARCEL 528 SAMUEL REDD, JR. ИО SHADE TREES(1:50)
EVERGREEN TREES(1:40)
SHRUBS(10:1 TREE SUBSTITUTION) 771/440 GORDON ROYER 14 NUMBER OF PLANTS REQUIRED ZONED R-12 799/384 ZONED R-12 TYPE A TYPE B (1:60) (1:50) S 0 (1:40) SHADE TREES NOTE: SUBSTITUTE 4 EVERGREEN TREES FOR 2 SHADE TREE PARCEL 340 EVERGREEN TREES 0 LANDSCAPE PERIMETER $\langle 4 \rangle = 521 \text{ L.F.}$ FREDERICK G. SIPES SHRUBS TEMPORARY STA 6+38.04
TEE TURN-AROUND NUMBER OF PLANTS TO BE PROVIDED 20' PUBLIC DRAINAGE & UTILITY EASEMENT 2007244 N 74'20'45" W TYPE A TYPE B _____x ____x ____x ZONED R-12 and the second of the second o SHADE TREES (1:60) (1:50) EVERGREEN TREES 0 (1:40) mmy N/A OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION) OPEN SPACE THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED 64 LANDSCAPE TREES HAS BEEN POSTED AS PART OF THE LANDSCAPE SURETY IN THE AMOUNT OF \$16,500.00 (WITH The Developers Apreciment). LOT 10 LOT 8 LOT 9 PROPERTY OF HOWARD COUNTY DEPT. PARKS & RECREATION THE SURETY FOR THE 29 STREET TREES ALONG THE PUBLIC RIGHT-OF-WAY OF FLOREY ROAD ARE TO BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT. TREES MAY BE ADJUSTED FOR DRIVEWAY AND STREET LIGHT LOCATION. THE PLANTINGS FOR PERIMETER 1 WILL BE DETERMINED AT SITE DEVELOPMENT PLAN STAGE. LOT 5 LOT 5 LANDSCAPING PLANT SCHEDULE QUANTITY SYMBOL REMARKS -19'X4"CONC. 800 PINUS STROBUS(WHITE PINE) 6' - 8'HT. LOT 12 LOT 11 LOT 14 ACER RUBRUM(RED MAPLE) 2 1/2" - 3"CAL. (40' O.C.) SEE "LAUCSCAPE CPPU SALAI ON ORDELEGE, FOR GALLMORE WASHINGTON DETROPOLIER APPAS" FOR ALL MATERIAL PRODUCT, AND PROCEDURE CRECK AND AND AND SET CRECK CARDONS THI EADER MUSIC PEVAIL BUYALT PLANTANUS X ACERIFOLIA 2 1/2" - 3"CAL. (40' O.C.) PARCEL 257 CROWN- SEE DANDSOME DO NOT PROME EVEROPER'N HRIES 1.0011 (2.6) . 1 1 1 STREET TREE CALCULATIONS 50' R/W LOT 15 REQUIRED PROVIDED Florey road 1180 UF / 40' — I STRANDS OF GALVANIZED WIRE TWISTED FOR SUPPORT PROPOSED PUBLIC TORNWATER MANAGEMENT S PRNATE ACCESS PLACE 500 UF / 40' - UPRIGHT STAFES DET IN GROUND TO FIRM BRAZING LOT 3 HENRY W. FLOREY SUBDIVISION HAZARD CLASS A — Dur Borlah at Bore FROM -TOP OF BALL ZONED R-12 JUST DEPTH MULCH × PROPOSED SWM, DRAINAGE & UTILITY EASEMENT EX. STRUCTURE TO BE RAZED

10' PUBLIC, TREE

MAINTENANCE EASEMENT LOT 2 PROP. 30' WATER, SEWER, DRAINAGE & UTILITY EASEMENT PARCEL 258 LOT 25 - COOSENSO SUBSOIL FOREST CONSERVATION EASEMENT LOT 17 (RETENTION) TREE PLANTING AND STAKING OPEN SPACE LOT 19 FLOREY ROAD OWNER/DEVELOPER T.B.I. HOMES, INC. 7320 GRACE DRIVE 24' PAVING----EXISTING COLUMBIA, MD. 21044 EX. PAVING-STREAM CREDIT = 200'AREA OF ROAD IMPROVEMENTS 250' LANDSCAPE PERIMETER = 372 L.F. REVISION WHITETAIL WOODS ZONED R-12 **SCALE** 1"=50' LOTS 1-17 AND OPEN SPACE LOTS 18 & 19 PROPERTY OF HOWARD COUNTY DEPT. PARKS & RECREATION LANDSCAPING PLAN As. BUILT TAX MAP# 38 PARCEL# 262 BLOCK# 1 FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND VOGEL & **ASSOCIATES** 3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043 Tel 410.461.5828 Fax 410.465.3968 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING DESIGN BY: J.C.O. DRAWN BY: J.C.O. CHECKED BY: R.H.V. DATE: FEBRUARY 7, 2000 SCALE: AS SHOWN 6 SHEET 9 W.O. NO.: 97-77





	SOILS LEGEND	
SYMBOL	NAME / DESCRIPTION	TYPE
CIC3	CHILLUM GRAVELLY LOAM, 5 TO 10 PERCENT SLOPES, SEVERELY ERODED	Ç
CID2	CHILLUM GRAVELLY LOAM, 10 TO 15 PERCENT SLOPES, MODERATELY ERODED	C
ScB	SANDY AND CLAYEY LAND, GENTLY SLOPING	В
ScE	SANDY CLAYEY LAND, MODERATELY STEEP	₿
SsE	SASSAFRAS LOAM, 15 TO 40 PERCENT SLOPES	8

- HOWARD SOIL SURVEY, MAP NUMBER 26

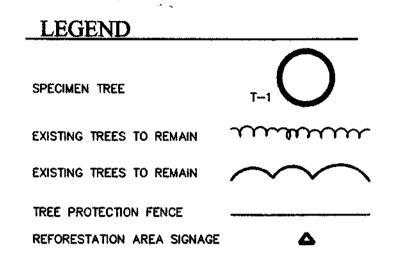
NARRATIVE

This forest conservation plan was prepared in accordance with the Howard County Forest Conservation Manual whereby priority forest areas were preserved to the greatest extent practical. Disturbance to steep slopes and stream buffers is minimized. A fee-in-lieu for the required reforestation area of 2.05 acres is proposed since no on-site or off-site reforestation is practical. Existing woodland is being retained on all areas suitable for forest conservation easements on this site. Therefore, onsite reforestation is not feasible. The developer has no land available for offsite reforestation. As neither on-site or offsite reforestation is feasible, a fee-in-lieu is proposed.

SPECIMEN TREE LIST

- T1 Acer Rubrum/Red Maple/32"dbh/to be retained
- T2 Liriodendron rulipifera/Tulip Poplar/30"dbh/Fair Condition/to be retained

T3 Quercus Palustrus/Pin Oak/36"dbh/Poor Condition/ to be removed



FOREST CONSERVATION WORKSHEET (1/100 ac.) 1. Basic Site Data A. Total Tract Area B. Area Within 100 Year Floodplain C. Area Within Ag, Use or Preservation Parcel D. Net Tract Area Zoning Use Category: R-12 2. Information for Calculations E. Afforestation Minimum (15% x D) F. Conservation Threshold (20% x D) 1.22 G. Existing Forest on Net Tract Area H. Forest Area Above Conservation Threshold 3.24 1.87 . Breakeven Point (I=.2 x H+F) K. Forest Areas to be Cleared 3.86 L. Forest Areas to be Retained 0.60 3. Planting Requirements M. Reforestation for Clearing Above Threshold (1) If L is greater than or equal to F, then (2) If L is less than F, then M≈H x .25

N. Reforestation for Clearing Below the Threshold

(1) If G is greater than F, & L is less than F,

Then N+@ x (F-L) (2) If G is less than or equal to F, then N=2 x K
P. Credit for retention above the Conservation threshold
Q. Total Reforestation Required Q=M+N+P
R. Total Afforestation Required (1) If G is less than E, then R=E-G (2) If G is less than E, and you are clearing

forest then, R=E-G+(2xK) S. Total Planting Requirement (S=Q+R)

FOREST TREE PROTECTION AND MANAGEMENT NOTES

1. Tree Protection devices shall be installed prior to any grading and land clearing.

2. After the boundaries of the retention areas have been staked and flagged and before any disturbance has taken place a preconstruction meeting with the Howard County Inspector is required.

4. No grading, storage of equipment, vehicles, equipment staging or dumping is permitted within Forest Conservation Easement Areas.

5. Attachment of signs or any other objects to trees is prohibited.

6. Root pruning will be performed with rotary ditching equipment or vibratory knife as conditions warrant.

7. Any significant changes made to the Forest Conservation Plan shall be made with the prior consent of the Howard County

8. No burial of discarded material is permitted within the Forest

Conservation and Planting areas.

9. No open burning within 100 feet of wooded areas is permitted.
10. POST CONSTRUCTION PHASE:

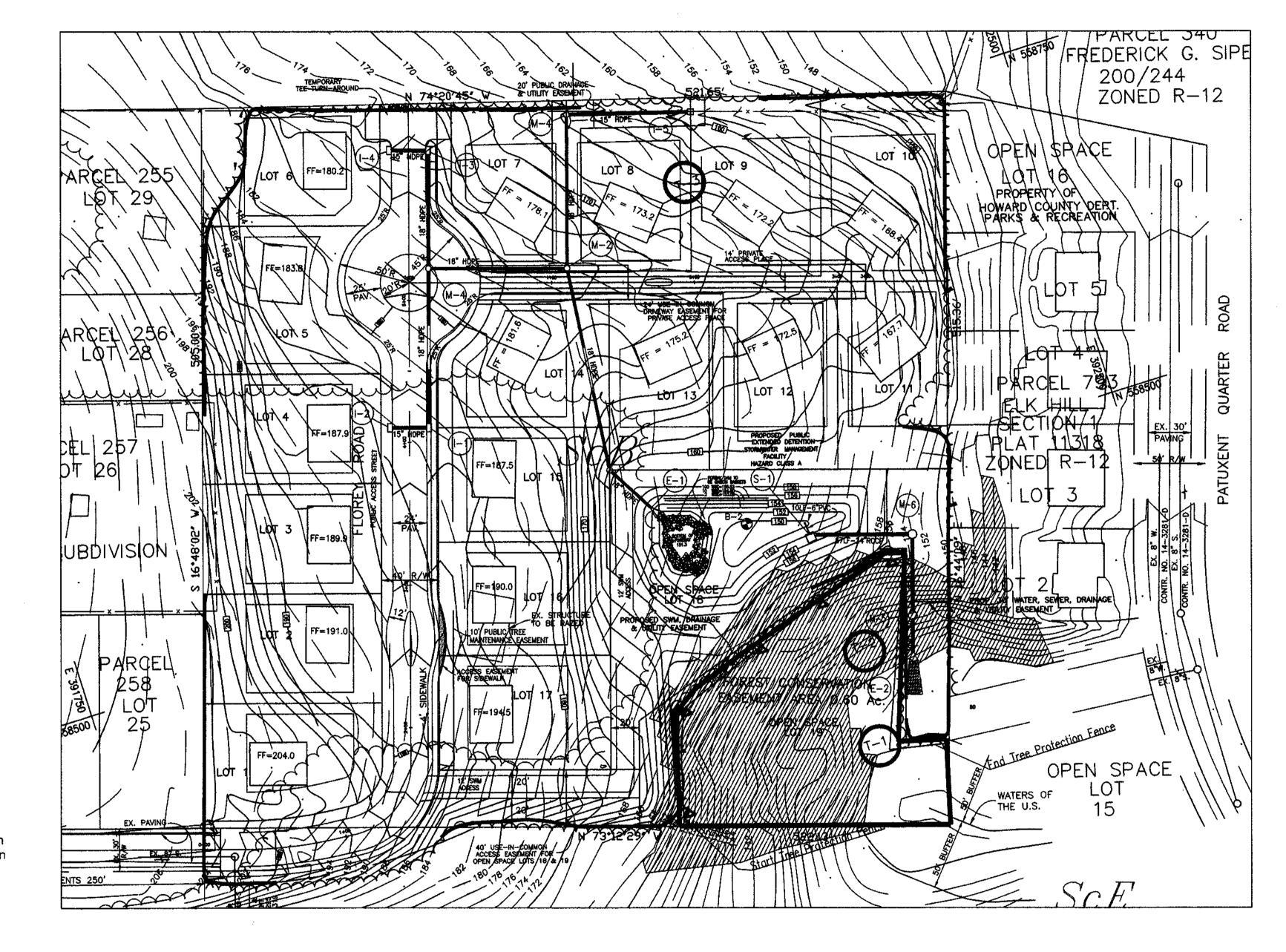
a) Inspect existing trees around perimeter of site for signs of root or trunk damage or excessive soil compaction. *

b) Remove dead or dying trees and evaluate for hazard tree removal. *
c) All temporary forest protection devices shall be removed after construction.

d) Following completion of construction, prior to use, the County Inspector

e) shall inspect the entire site for compliance with the Forest Conservation Plan.

* A licensed arborist or forester should be retained for this service as needed.



PLAN Scale: 1"=50'

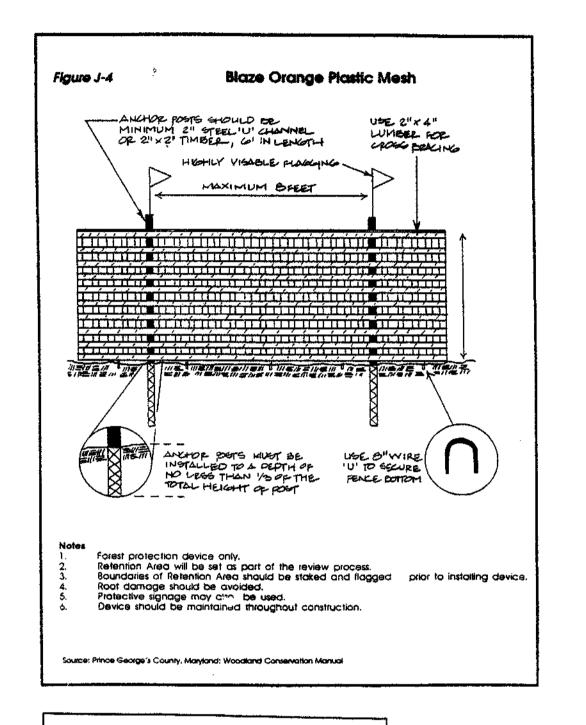
FEE-IN-LIEU NOTE: THE OBLIGATION FOR 2.05 ACRES OF REFORESTATION WILL BE ADDRESSED BY PAYMENT OF A FEE-IN-LIEU AT THE RATE OF THIRTY (30) CENTS PER SQUARE FOOT. THE TOTAL AMOUNT OF THE FEE-IN-LIEU TO BE PAID IS \$26,789.40.

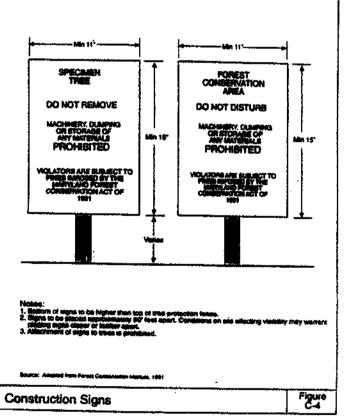
PRESERVATION AREA NOTES

1. All proposed activities shall conform to the terms, conditions and schedules of an approved Soil Erosion and Sediment Control Plan.

2. Blaze orange plastic fence or silt fence (where applicable) shall be installed along all tree save areas that are within 50 feet of proposed construction activities. The Tree Protective Devices shall be in place at the time of construction activities commence. No protective device shall be installed along tree save areas that are greater than 50 feet from construction activity. The location of all Tree Protective Devices shall be shown on the Soil Erosion and Sediment Control Plan which will be incorporated into this Forest Conservation Plan by reference.

Approved: Department of Planning and Zoning Ends Hanutton 3/22/10 Chief, Division of Land Development 3/9/00 Date * Chief, Development Engineering Division Approved: Howard County Department of Public Works 3-100 Chief, Bureau of Highways /45 Date





OWNER/DEVELOPER

TERRA MASS L.L.C. P.O. BOX 2695 ELLICOTT CITY, MARYLAND 21041

WHITETAIL WOODS



HISTORIC ELLICOTT CITY, MARYLAND 21043

PHONE: (410) 750-1150 FAX: (410) 750-7350

FOREST CONSERVATION PLAN

TAX MAP #38 PARCEL #262 1ST ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

3691 Park Avenue, Suita 101 • Ellicott City, Maryland 21043 Tel 410.461.5828 Fax 410.465.3966



DRAWN BY: J.C.O. CHECKED BY: R.H.V. DATE: 11/23/99 SCALE: 1"=50" W.O. NO.: 98005

 $_{ ext{SHEET}}$ $oldsymbol{9}$

BLOCK # 15