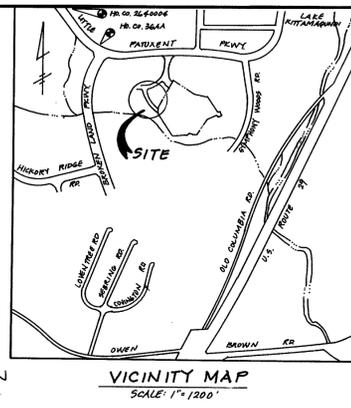


PLAT 4306
ZONED NEW TOWN - OPEN SPACE
HOWARD RESEARCH AND DEVELOPMENT CORPORATION
463 / 196

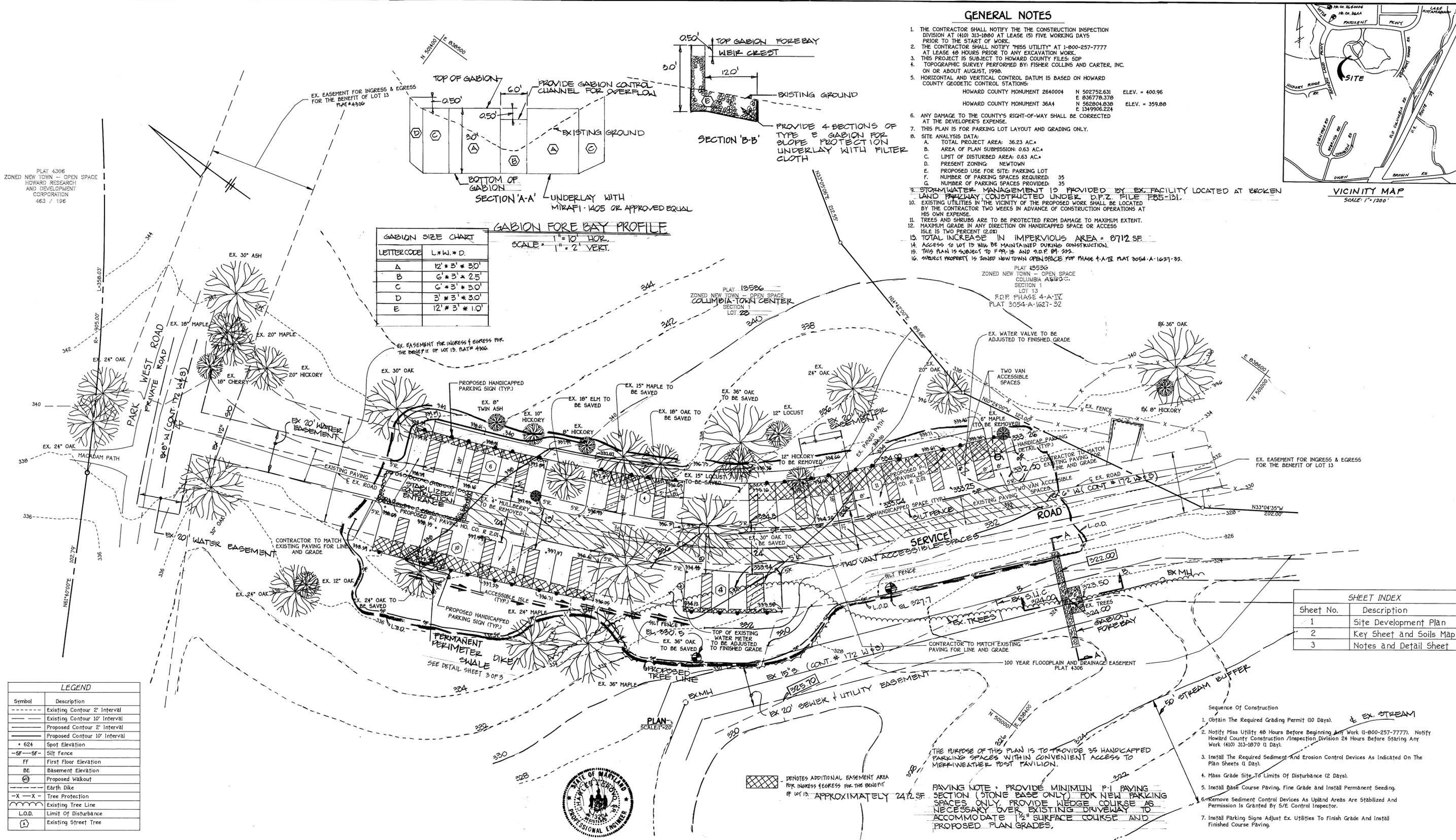
GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION AT (410) 313-1000 AT LEAST (5) FIVE WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THIS PROJECT IS SUBJECT TO HOWARD COUNTY FILES: SDP TOPOGRAPHIC SURVEY PERFORMED BY: FISHER COLLINS AND CARTER, INC. ON OR ABOUT AUGUST, 1998.
- HORIZONTAL AND VERTICAL CONTROL DATUM IS BASED ON HOWARD COUNTY GEODETIC CONTROL STATIONS:
HOWARD COUNTY MONUMENT 2640004 N 502752.631 ELEV. = 400.96
HOWARD COUNTY MONUMENT 364A N 562204.838 E 1349906.224 ELEV. = 359.88
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- THIS PLAN IS FOR PARKING LOT LAYOUT AND GRADING ONLY.
- SITE ANALYSIS DATA:
A. TOTAL PROJECT AREA: 36.23 AC.
B. AREA OF PLAN SUBMISSION: 0.63 AC.
C. LIMIT OF DISTURBED AREA: 0.63 AC.
D. PRESENT ZONING: NEWTOWN
E. PROPOSED USE FOR SITE: PARKING LOT
F. NUMBER OF PARKING SPACES REQUIRED: 35
G. NUMBER OF PARKING SPACES PROVIDED: 35
- STORMWATER MANAGEMENT IS PROVIDED BY EX. FACILITY LOCATED AT BROKEN LAND PARKWAY CONSTRUCTED UNDER D.P.Z. FILE P85-121.
- EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT.
- MAXIMUM GRADE IN ANY DIRECTION ON HANDICAPPED SPACE OR ACCESS ISLE IS TWO PERCENT (2.0%).
- TOTAL INCREASE IN IMPERVIOUS AREA = 8712 SF.
- ACCESS TO LOT IS TO BE MAINTAINED DURING CONSTRUCTION.
- THIS PLAN IS SUBJECT TO F.P.P. 18 AND 2.0.P. 24, 222.
- SUBJECT PROPERTY IS ZONED NEW TOWN OPEN SPACE FOR PHASE 4-A-IV PLAT 3054-A-1621-32.



GABION FORE BAY PROFILE
SCALE = 1" = 10' HOR.
1" = 2' VERT.

LETTER CODE	L * W * D
A	12' * 3' * 3.0'
B	6' * 3' * 2.5'
C	6' * 3' * 3.0'
D	3' * 3' * 3.0'
E	12' * 3' * 1.0'



LEGEND

Symbol	Description
--- (dashed)	Existing Contour 2' Interval
--- (dashed)	Existing Contour 10' Interval
--- (dashed)	Proposed Contour 2' Interval
--- (dashed)	Proposed Contour 10' Interval
+ 624	Spot Elevation
-SF-SF-	Silt Fence
FF	First Floor Elevation
BE	Basement Elevation
⊙	Proposed Walkout
---	Earth Dike
-X-X-	Tree Protection
---	Existing Tree Line
L.O.D.	Limit Of Disturbance
(X)	Existing Street Tree

SHEET INDEX

Sheet No.	Description
1	Site Development Plan
2	Key Sheet and Soils Map
3	Notes and Detail Sheet

- Sequence Of Construction**
- Obtain The Required Grading Permit (10 Days).
 - Notify Miss Utility 48 Hours Before Beginning Any Work (1-800-257-7777). Notify Howard County Construction /Inspection Division 24 Hours Before Starting Any Work (410) 313-1870 (1 Day).
 - Install The Required Sediment And Erosion Control Devices As Indicated On The Plan Sheets (1 Day).
 - Mass Grade Site To Limits Of Disturbance (2 Days).
 - Install Base Course Paving, Fine Grade and Install Permanent Seeding.
 - Remove Sediment Control Devices As Upland Areas Are Stabilized And Permission Is Granted By S/E Control Inspector.
 - Install Parking Signs Adjust Ex. Utilities To Finish Grade And Install Finished Course Paving.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
410 461 - 2955

APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE May 6, 1999

ENGINEER'S CERTIFICATE
"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
Signature of Engineer (Print name below signature) Chris Date 3/4/99

DEVELOPER'S CERTIFICATE
"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."
Signature of Developer (Print name below signature) Gregory R. Klar Date 3/5/99

Reviewed for HOWARD SCD and meets Technical Requirements.
Kevin Sumner 5/20/99
U.S.D.A.-Natural Resources Conservation Service
This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
John K. Korman 5/20/99
Howard SCD

OWNER
COLUMBIA ASSOCIATION
SUITE 100
10221 WINCOPIN CIRCLE
COLUMBIA, MD. 21044

DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.
10221 WINCOPIN PKWY
COLUMBIA, MD. 21044

APPROVED - DEPARTMENT OF PLANNING AND ZONING

Chris Hamilton 1/28/00
Chief, Division of Land Development

John D. Williams 1/27/00
Chief, Development Engineering Division

John K. Korman 1/31/00
Director, Department of Planning and Zoning

PROJECT	SECTION	LOT
COLUMBIA TOWN CENTER	1	23

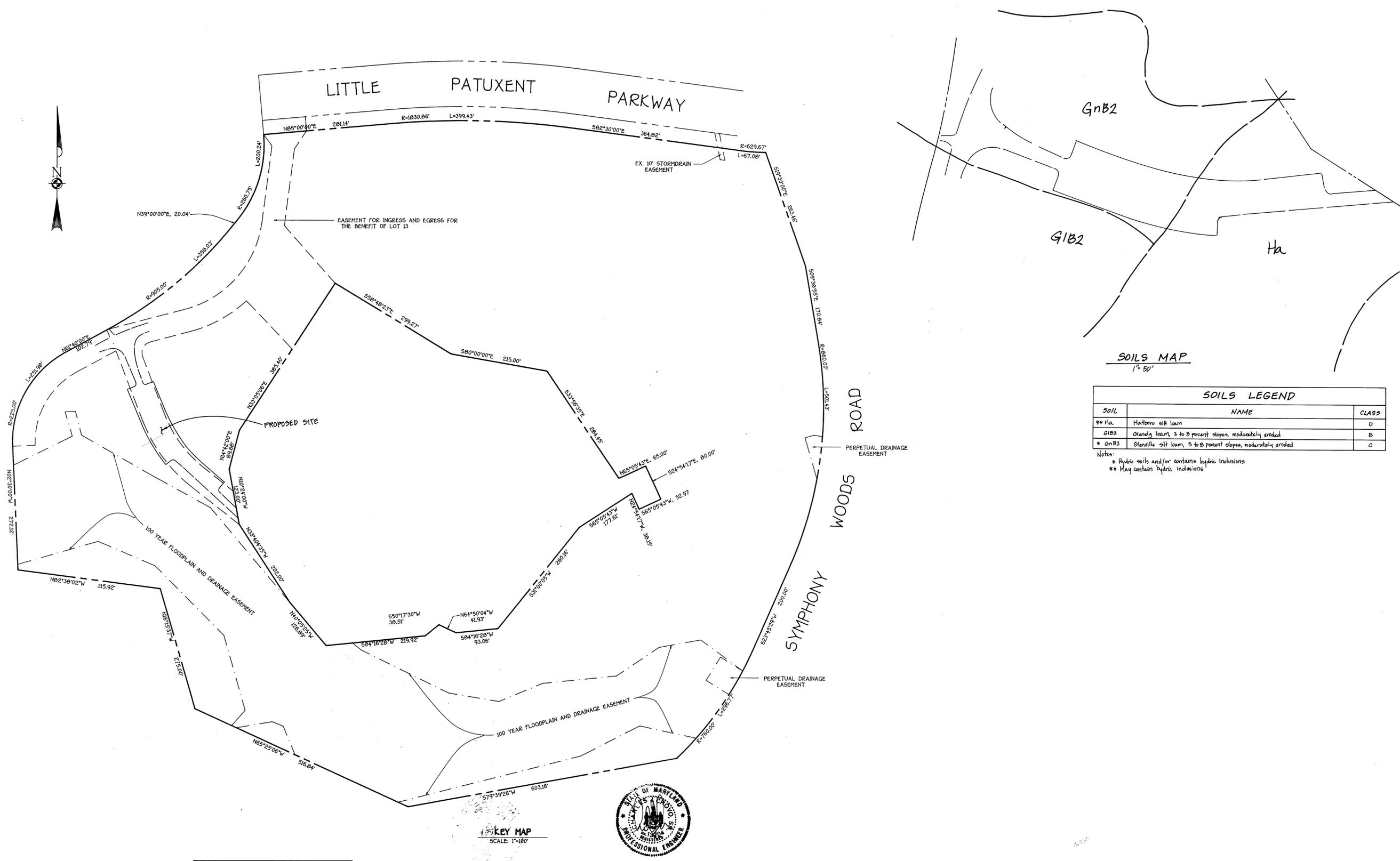
PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
19536	1	OPEN SPACE	36	FIFTH	6053.2

WATER CODE E 31 SEWER CODE S 5521000

SITE DEVELOPMENT PLAN

PARKING ADDITION
COLUMBIA TOWN CENTER
TOWN CENTER SECTION 1 LOT 23

TAX MAP No: 36 PARCEL: 452
FIFTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: FEBRUARY, 1999
SHEET 1 OF 3



GnB2

G1B2

Ha

SOILS MAP
1"=50'

SOILS LEGEND		
SOIL	NAME	CLASS
** Ha	Hatboro silt loam	D
G1B2	Otensig loam, 3 to 8 percent slopes, moderately eroded	B
* GnB2	Glenville silt loam, 3 to 8 percent slopes, moderately eroded	C

Notes:
* Hydric soils and/or contains hydric inclusions
** May contain hydric inclusions

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
410.461.2995

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE May 6, 1999

ENGINEER'S CERTIFICATE
"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

[Signature]
Signature of Engineer (Print name below signature) _____ Date 3/1/99

DEVELOPER'S CERTIFICATE
"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

[Signature]
Signature of Developer (Print name below signature) _____ Date 3/5/99



Reviewed for HOWARD SCD and meets Technical Requirements.
[Signature]
U.S.D.A.-Natural Resources Conservation Service Date 5/20/99

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
[Signature]
Howard SCD Date 5/20/99

OWNER
COLUMBIA ASSOCIATION
SUITE 100
10221 WINCOPIN CIRCLE
COLUMBIA, MD 21044

DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.
10279 LITTLE PATUXENT PLANT
COLUMBIA, MD 21044

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature]
Chief, Division of Land Development Date 1/28/00
[Signature]
Chief, Development Engineering Division Date 1/27/00
[Signature]
Director - Department of Planning and Zoning Date 1/31/00

PROJECT		SECTION		LOT	
COLUMBIA TOWN CENTER		1		23	
PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
13526	1	NT OPEN SPACE	36	FIFTH	G053.2
WATER CODE			SEWER CODE		
E 31			55521000		

KEY MAP
AND SOILS MAP
PARKING ADDITION
COLUMBIA TOWN CENTER

TAX MAP No: 36 PARCEL: 452
FIFTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: FEBRUARY, 1999
SHEET 2 OF 3

STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

Using vegetation as cover for barren soil to protect it from erosion and to reduce erosion. Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and runoff to downstream areas, and improving habitat and visual appearance.

DEFINITION
Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and runoff to downstream areas, and improving habitat and visual appearance.

CONDITIONS WHERE PRACTICES APPLY
This practice shall be used on disturbed areas as specified on the plan and may be used on highly erodible or critically eroding areas. This specification is intended to provide a minimum standard for temporary seeding, for long term vegetative cover, and for permanent seeding. Examples of applicable areas for Temporary Seeding are Temporary Soil Stabilization, cleared areas being left idle between construction phases, earth dikes, etc. and for Permanent Seeding are bare, dune, cut, former, and other areas of final grading, erosion, etc.

EFFECTS ON WATER QUALITY AND QUANTITY
Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff. Infiltration, evaporation, transpiration, and groundwater recharge. Vegetation over time will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone. Sediment control devices must remain in place during grading, seeding, preparation, seeding, mulching and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.

SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS

A. Site Preparation
1. Install erosion and sediment control structures (either temporary or permanent) such as diversion, grade stabilization structures, berms, waterways, or sediment control basins.
2. Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.
3. Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed areas over 5 acres.
4. Soil Amendments (Fertilizer and Lime Specifications)
a. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.
b. Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Fertilizer shall be delivered to the site fully labeled according to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warranty of the producer.
c. Lime materials shall be ground limestone (hydrated or burnt lime) may be substituted which contains at least 50% total oxidized calcium oxide plus magnesium oxide. Limestone shall be ground to such fineness that at least 50% will pass through a #100 mesh sieve and 98-100% will pass through a #20 mesh sieve.
d. Incorporate lime and fertilizer into the top 3-5" of soil by diking or other suitable means.

B. Seeded Preparation
1. Seeded preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable hand tools, pneumatic, mechanical, or tractor drawn implement or plow or rollers mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth, but left in the rough condition. Seeded areas (greater than 30) should be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.
2. Topsoil Fertilizer and Lime Application on the plane.
3. Incorporate lime and fertilizer into the top 3-5" of soil by diking or other suitable means.

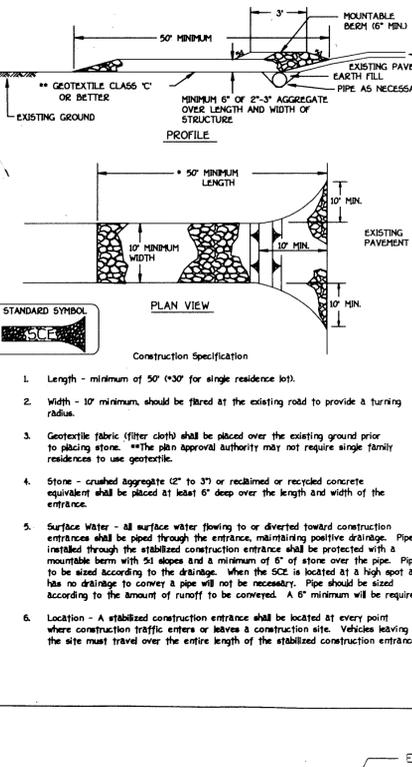
C. Permanent Seeding
1. Minimum soil conditions required for permanent vegetative establishment:
a. Soil shall be 100% loam or 75% loam and 25% silt.
b. Soluble salts shall be less than 500 parts per million ppm.
c. The soil shall contain less than 40% clay, but enough fine grained material (30% silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if loesslike or siltlike loesslike is to be planted, then a silt soil (50% silt plus clay) would be acceptable.
d. Soil shall contain organic matter by weight.
e. Soil must contain sufficient pore space to permit adequate root penetration.
f. If these conditions cannot be met by soil on site, adding topsoil is required in accordance with Section 2) Standard Specifications for Topsoil.
2. Areas previously graded in conformance with the drawings shall be maintained in a true and even grade. The soil shall be graded to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.
3. Apply soil amendments as per soil test or as included on the plan.
4. Mix soil amendments into the top 3-5" of topsoil by diking or other suitable means. Lawn areas should be raked to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Where site conditions will not permit normal seeded preparation, loose surface soil by diking with a heavy duty roller or equipment to roughen the surface. Steep slopes (greater than 3:1) should be tracked by a dozer leaving the soil in an irregular condition parallel to the contour of the slope. The top 1-3" of soil should be loose and friable. Seeded loosening may not be necessary on newly disturbed areas.

D. Seed Specifications
1. All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to re-testing by a recognized seed laboratory. All seed used shall have been tested within the 6 months immediately preceding the date of sowing such material on the site.
2. Note: Seed tags shall be made available to the inspector to verify type and rate of seed used.
3. Inoculant (The inoculant for treating legume seed in the seed mixture shall be the type and rate of inoculant indicated on the container. Add fresh inoculant as directed on package. Use four times the amount of inoculant as directed on package. Inoculant shall be applied to the seed as soon as possible until used. Temperatures above 75-80° F. can weaken bacteria and make the inoculant less effective.)
4. Methods of Seeding
a. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer, broadcast or spread by a suitable device).
b. If fertilizer is being applied at the time of seeding, the application rates shall be as follows:
F200 (Fosphorus) 200 lbs./ac, K20 (Potassium) 200 lbs./ac.
c. Broadcast Seeding: Broadcast seed and fertilizer by hand or machine. Fertilizer may be applied by hydroseeding. Normally, not more than 2 tons/acre shall be applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
d. Seed and fertilizer shall be mixed on site and seeding shall be done immediately and without interruption. Use of conventional drop or broadcast spreaders.
e. Seed spreader shall be incorporated into the subsoil at the rates prescribed on the container or the ground agricultural limestone (30 to 3 tons per acre may be applied by hydroseeding).
f. Mulch: Mulch shall be applied to the seed and fertilizer to provide good seed to soil contact. Mulch shall be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.
g. Outplanting seeders: Mechanical seeders that apply and cover seed with soil.
h. Start 2 1/2" of soil covering seed. Mulch shall be firm after planting.
i. Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.

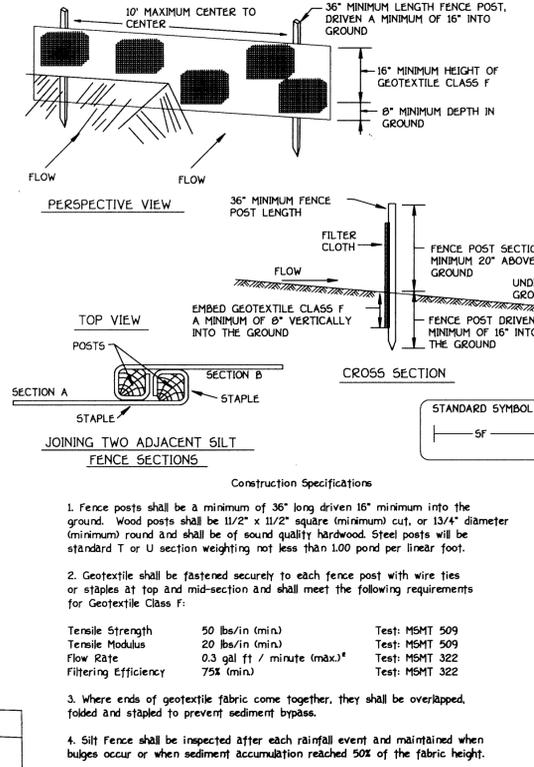
E. Mulch Specifications
1. Mulch shall consist of thoroughly threshed wheat, rice or oat straw, reasonable bright in color, and shall be free of weed seeds or excessive dust and shall be free of noxious weed seeds as specified in the Maryland Seed Law.
2. Woodchips: Fiber Mulch (WCM)
a. WCM shall consist of specially prepared wood cellulose processed into a uniform fibrous material.
b. WCM shall be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniform green slurry.
c. WCM including dye shall contain no generation of plastic fibers.
d. WCM materials shall be manufactured and processed in such a manner that the mulch material will remain in place under normal weather conditions. The mulch material shall form a better-like mulch with a maximum of 6% of stone over the pipe. The mulch material shall have moisture absorption and permeation properties and shall cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
e. WCM must conform to the following physical requirements: fiber length to approximately 10 mm., diameter approximately 1 mm., pH range of 4.0 to 8.5, ash content of less than 10% and water holding capacity of 100%.
f. WCM materials shall be manufactured and processed in such a manner that the mulch material will remain in place under normal weather conditions. The mulch material shall form a better-like mulch with a maximum of 6% of stone over the pipe. The mulch material shall have moisture absorption and permeation properties and shall cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
g. WCM must conform to the following physical requirements: fiber length to approximately 10 mm., diameter approximately 1 mm., pH range of 4.0 to 8.5, ash content of less than 10% and water holding capacity of 100%.

F. Note: Only sterile straw mulch should be used in areas where one species of grass is desired.
G. Seeded Areas - Mulch shall be applied to all seeded areas immediately after seeding.
1. If grading is completed outside of the seeding season, mulch shall be applied as prescribed in this section and maintained until the seeding season returns and seeding can be performed in accordance with these specifications.
2. When straw mulch is used, it shall be spread over all seeded areas at the rate of 2 tons/acre. Mulch shall be applied to a uniform loose depth of between 1" and 2". Mulch applied shall achieve a uniform distribution and depth so that the surface is not exposed. If a mulch anchoring tool is to be used, the rate should be increased.
3. Wood cellulose fiber used as a mulch shall be applied at a net dry weight of 1500 lbs. per acre. The mulch material shall contain a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
4. Securing straw mulch: Anchoring shall be performed immediately following mulch application to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon size of area and erosion hazard:
i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of two (2) inches. This practice is most effective on large areas, and is limited to better slopes and/or steeper slopes. If used on steeper slopes, this practice shall be used on the contour if possible.
ii. A mulch anchor shall be used to anchor the mulch. The anchor shall be applied at a net dry weight of 750 pounds/acre. The wood cellulose fiber shall be mixed with water and applied to the mulch at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
iii. Application of liquid binders shall be heavier at the edges where wind catches mulch, such as in valleys and crest of banks. The remainder of mulch should be applied uniformly after binder application. Synthetic binders - such as Acrylic Latex (AK-200) or Terra Tack, Terra Tack AB or other approved equal may be used at rates recommended by the manufacturer.
iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer's recommendations. Netting is usually available in rolls 4' to 15' feet wide and 300 to 3,000 feet long.

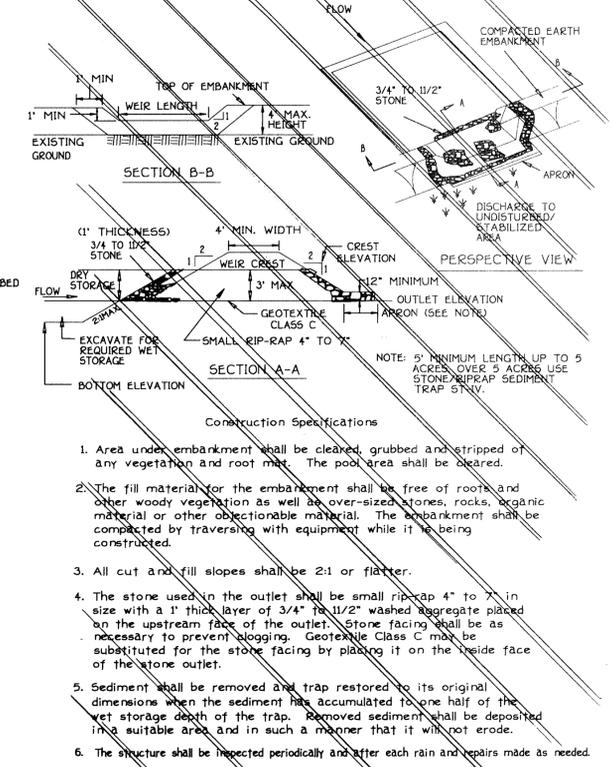
STABILIZED CONSTRUCTION ENTRANCE



SILT FENCE



STONE OUTLET SEDIMENT TRAP - ST II



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 (UNDERSO).
- 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 THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 48 HOURS OF CALIBRATED DAYS FOR ALL PERMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1. M DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPPING/RETAINING SHALL BE FINISHED AND WORKING WITHIN 72 HOURS OF THE DATE OF THE PERMITS. SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE 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, AND REVISIONS THEREOF.
- PERMANENT SEEDING (SEC. 50), SOIL (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 UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS
TOTAL AREA OF SITE 3623 ACRES
AREA DISTURBED 0.63 ACRES
AREA TO BE ROOFED OR PAVED 0.21 ACRES
AREA TO BE VEGETATIVELY STABILIZED 0.42 ACRES
TOTAL CUT 340 CUYD/SEC
TOTAL FILL 340 CUYD/SEC
- ANY 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 PERMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE REQUIRED UNTIL THE FINAL 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.

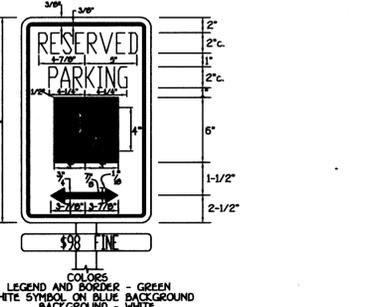
PERMANENT SEEDING NOTES

- 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 (2 LBS./1000 SQT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER (4 LBS./1000 SQT.) BEFORE SEEDING HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 36-0-0 UREAPHOS FERTILIZER (9 LBS./1000 SQT.) AND 500 LBS. PER ACRE (2.5 LBS./1000 SQT.) OF 10-20-20 FERTILIZER.
- SEEDING**
FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 31, SEED WITH 100 LBS. PER ACRE (2 1/2 LBS./1000 SQT.) OF CENTURY 31 TALL FESCUE, FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 10 LBS. PER ACRE (1/4 LBS./1000 SQT.) OF CENTURY 31 TALL FESCUE AND 2 LBS. PER ACRE (0.05 LBS./1000 SQT.) OF WEEPING BLUEGRASS. FOR THE PERIODS OF OCTOBER 15 THROUGH FEBRUARY 28, PROJECT SITE (BY OPTION C) - TWO TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OPTION C) - USE 500 LBS. PER ACRE WITH 100 LBS./ACRE CENTURY 31 TALL FESCUE AND MULCH WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEEDED.
- MULCHING**
APPLY 1 TO 2 TONS PER ACRE (50 TO 100 LBS./1000 SQT.) OF UNMULCHED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE (5 LBS./1000 SQT.) OF ASPHALT ON FLAT ACRES, ON SLOPES 6 FEET OR GREATER USE 340 GALLONS PER ACRE (8 GALL./1000 SQT.) FOR ANCHORING.
- MAINTENANCE**
INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.
* FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROWNWEAT AT 15 LBS./ACRE AND CENTURY 31 TALL FESCUE AT 40 LBS./ACRE AS THE SEEDING EQUIPMENT, OPTIMUM SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.
- 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, IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS**
APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 LBS./1000 SQT.)
- SEEDING**
FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH NOVEMBER 15, SEED WITH 1 BUSHEL PER ACRE OF ANNUAL RYE GRASS (4 LBS./ACRE OF SEED) OR 1 LBS./1000 SQT. FOR THE PERIOD NOVEMBER 15 THRU FEBRUARY 28, PROJECT SITE BY APPLICATING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE 500.
- MULCHING**
APPLY 1 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQT.) OF UNMULCHED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHORING TOOL OR 200 GALLONS PER ACRE (5 GALL./1000 SQT.) OF CEMENT ASPHALT ON FLAT ACRES ON SLOPES 6 FEET OR GREATER, USE 340 GALLONS PER ACRE (8 GALL./1000 SQT.) FOR ANCHORING.
- REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL, FOR RATE AND METHODS NOT COVERED.

P-1 PAVING SECTION



HANDICAPPED PARKING SIGN



NOTE: SPECIAL SHEETING
NOTE: INCREASE SPACING ON "VAN" 50%

SIGN SIZE	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	M
MIN	6	12	3/4	3/4	1-1/2	1-1/2	10	1/2	1-1/2			
STD	9	18	3/4	3/4	1-1/2	2-1/4	1-1/2	21	1-1/2			

APPROVED: DIRECTOR - TRAFFIC & SAFETY DATE: 5/17/99

REVISIONS: FEDERAL HIGHWAY ADMINISTRATION DATE: 5/17/99

MARYLAND DEPARTMENT OF TRANSPORTATION
State Highway Administration
OFFICE OF TRAFFIC AND SAFETY
VAN ACCESSIBLE

DATE: 5/17/99 APPROVAL: [Signature]

DATE: 5/17/99 APPROVAL: [Signature]

DATE: 5/17/99 APPROVAL: [Signature]



ENGINEER'S CERTIFICATE

"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer (Print name below signature) Date: 5/17/99

DEVELOPER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer (Print name below signature) Date: 5/17/99

APPROVED PLANNING BOARD OF HOWARD COUNTY

DATE: May 6, 1999

APPROVED DEPARTMENT OF PLANNING AND ZONING

DATE: 5/2/99

NOTES AND DETAILS

PARKING ADDITION COLUMBIA TOWN CENTER

PROJECT: COLUMBIA TOWN CENTER SECTION: 1 LOT: 25
PLAT: 12526 BLOCK NO. 1 ZONE: R-3 TAX/ZONE: 36 ELECC. DIST.: FIFTH CENSUS TR.: G0332
WATER CODE: E 31 SEWER CODE: 5 952000

TAX MAP No: 36 PARCEL: 452
FIFTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: FEBRUARY, 1999
SHEET 3 OF 3

