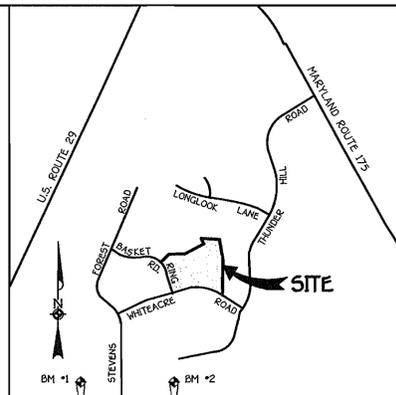


BENCHMARK INFORMATION

BM #1 - HOWARD COUNTY CONTROL STATION 36EA
STANDARD HOWARD COUNTY SURVEY DISC SET ON A CONCRETE MONUMENT
N 496238
E 842117

BM #2 - HOWARD COUNTY CONTROL STATION 36HA
STANDARD HOWARD COUNTY SURVEY DISC SET ON A CONCRETE MONUMENT
N 494638
E 841963



VICINITY MAP
SCALE: 1"=1200'

- GENERAL NOTES:**
- THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION AT 410-313-1800 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
 - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST ONE (1) WEEK PRIOR TO BEGINNING ANY EXCAVATION WORK.
 - LOCATIONS OF EXISTING UTILITIES SHOWN ARE TAKEN FROM PORTIONS OF FIELD RUN TOPOGRAPHY AND EXISTING SCHOOL PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATION AND VERIFICATION OF ALL UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION.
 - THE CONTRACTOR SHALL TAKE ALL MEANS NECESSARY TO PROTECT CONDITIONS TO BE PRESERVED INCLUDING TREES ON SITE, ALL CURBS, SIDEWALKS, PAVEMENT, SIGNS, FENCES, UTILITIES, UTILITY POLES, AND OTHER ITEMS OUTSIDE THE LIMIT OF DISTURBANCE UNLESS INDICATED TO BE REMOVED. IN THE EVENT OF ANY DAMAGE, THE CONTRACTOR SHALL MAKE ALL REPAIRS AND REPLACEMENTS REQUIRED TO THE APPROVAL OF THE ARCHITECT, AND AT NO ADDITIONAL COST TO THE OWNER.
 - SITE ANALYSIS:**
 - PROPERTY OWNER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM, 10910 MARYLAND ROUTE 106, ELLICOTT CITY, MD. 21042
 - USE: TALBOTT SPRINGS ELEMENTARY SCHOOL (GYMNASIUM & ART DEPARTMENT BUILDING ADDITION), WHITEACRE ROAD, COLUMBIA, MD. 21045.
 - TAX MAP 36, PARCEL 283, LOT 216
 - TOTAL AREA OF SITE: 10 ACRES
 - ZONING: NEW TOWN - OPEN SPACE (NT-OS) - FDP-51
 - EXISTING PLAN NO. SDP 72-176
 - ADDITIONAL FLOOR AREA = 6,600 SQ. FT.
 - THERE WILL BE NO INCREASE IN TEACHERS OR STUDENTS. ADDITIONAL PARKING SPACES ARE NOT REQUIRED (PER HOWARD COUNTY PUBLIC SCHOOL SYSTEM).
 - HORIZONTAL AND VERTICAL CONTROL DATUM WAS USED FROM SDP 72-176 & FROM HOWARD COUNTY CONTROL STATIONS 36EA AND 36HA.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
 - TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
 - ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 - THE EXISTING TOPOGRAPHY IS TAKEN FROM A FIELD RUN SURVEY WITH TWO FOOT CONTOUR INTERVALS PREPARED BY FISHER, COLLINS & CARTER, INC. DATED JUNE, 1993.
 - THE COORDINATES SHOWN HEREON ARE BASED ON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM, HOWARD COUNTY MONUMENT NOS. 36EA AND 36HA WERE USED FOR THIS PROJECT.
 - WATER IS PUBLIC (CONTRACT NO. 268 W & S, PATUXENT DRAINAGE AREA).
 - SEWER IS PUBLIC (CONTRACT NO. 295 W & S, PATUXENT DRAINAGE AREA).
 - STORMWATER MANAGEMENT WAS EXEMPT FROM THIS PROJECT.
 - EXISTING UTILITIES ARE BASED ON FIELD RUN TOPOGRAPHY, AS WELL AS CONTRACT NOS. 268 W & S AND 295 W & S.
 - THERE IS NO FLOODPLAIN ON THIS SITE.
 - THERE ARE NO WETLANDS ON THIS SITE.
 - NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.
 - THERE ARE 64 EXISTING PARKING SPACES ON THIS SITE. THE PROPOSED ADDITIONS AND IMPROVEMENTS WILL NOT INCREASE THE NUMBER OF TEACHERS OR STUDENTS, AND WILL NOT REQUIRE ADDITIONAL PARKING SPACES.
 - REFERENCE PREVIOUS FILE NUMBERS: SDP 72-176, FDP-51 AND PLAT BOOK 17, FOLIO 54, F-68-57.
 - THE EXISTING BUILDING IS 46,039 SQ.FT. (BUILDING COVERAGE = 10.6% OF SITE). THE PROPOSED BUILDING ADDITION IS 6,600 SQ.FT. (BUILDING COVERAGE = 1.5% OF SITE). THE TOTAL BUILDING COVERAGE FOR THIS SITE IS 12.6%.
 - The new building addition is 12,999 sq.ft.

ADDRESS CHART	
LOT NO.	ADDRESS
OPEN SPACE LOT 216 TALBOTT SPRINGS ELEM.	9550 BASKET RING ROAD COLUMBIA, MD. 21045

Note:
A building permit for the proposed school expansion shall be applied for within one (1) year measured from the CSD approval letter for this red-line revision or before March 9, 2008.

No.	Revision	Date
1	Labeled ex. concrete sidewalk to be removed & 2 ex. Cherry trees to be relocated, added Bldg permit note, revised per Note No. 12.	3/20/07

LEGEND

Symbol	Description
---	Existing Contour 2' Interval
---	Existing Contour 10' Interval
---	Proposed Contour 2' Interval
---	Proposed Contour 10' Interval
+ 624	Spot Elevation
-SF-	Silt Fence
FF	First Floor Elevation
BE	Basement Elevation
L.O.D.	Limit of Disturbance
○	Existing Tree

SHEET INDEX

SHEET No.	DESCRIPTION
1	DEMOLITION PLAN, VICINITY MAP, GENERAL NOTES
2	SITE IMPROVEMENT PLAN, SCHEMATIC BUILDING PROFILE
3	SITE IMPROVEMENT PLAN, MISC. DETAILS
4	WATER MAIN PROFILE, MISC. DETAILS
5	SEDIMENT & EROSION CONTROL NOTES, MISC. DETAILS

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL OFFICE: 1102 BALTIMORE NATIONAL PKWY
ELLICOTT CITY, MARYLAND 21042
(410) 401-2800

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: **8/26/99**

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) **7/14/99** Date

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) **7/14/99** Date

APPROVED FOR HOWARD COUNTY MEETS TECHNICAL REQUIREMENTS.

Signature of Howard County Engineer **9/29/99** Date

Signature of Howard County Engineer **9/29/99** Date

OWNER
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 MARYLAND ROUTE 106
ELLICOTT CITY, MARYLAND 21042
(410) 313-6600

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Signature of Chief, Division of Land Development **10/7/99** Date

Signature of Chief, Department of Planning and Zoning **10/1/99** Date

Signature of Director, Department of Planning and Zoning **10/2/99** Date

PROJECT	SECTION/AREA	PARCEL NO.
VILLAGE OF OAKLAND MILLS TALBOTT SPRINGS ELEM. SCHOOL OPEN SPACE LOT 216	4/1	283

DEED	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
L. 643 / F. 62	3	NT-OS; FDP-51	36/	SIXTH	6066.03

WATER CODE	SEWER CODE
E03	5580800

DEMOLITION PLAN

VILLAGE OF OAKLAND MILLS; SECTION 4, AREA 1
**TALBOTT SPRINGS
ELEMENTARY SCHOOL**
(GYMNASIUM & ART DEPARTMENT BUILDING ADDITION)
OPEN SPACE LOT 216; PLAT BOOK 17, FOLIO 54
TAX MAP No: 36 PARCEL: 283
SIXTH ELECTION DISTRICT- HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JULY 28, 1999
SHEET 1 OF 5

PUBLIC WATER MAIN CONSTRUCTION WILL BE COMPLETED UNDER AN ADVANCED DEPOSIT ORDER (ADO) WITH HOWARD COUNTY BUREAU OF UTILITIES

NOTE: THE CONTRACTOR IS TO PROTECT THE INTEGRITY OF EXISTING TREES & ROOT SYSTEMS DURING WATER MAIN CONSTRUCTION.

Construction Sequence for Classroom Addition

1. Obtain grading permit.
2. Notify "Miss Utility" at least 48 hours before beginning any work at 1-800-257-7777. Notify the Howard County Office of Construction Inspection at 410-312-1930 24 hours before starting work.
3. Install sediment control measures shown on plans, 1 week.
4. Grade to subgrade classroom addition area.
5. Construct classroom addition, 9 months.
6. Fine grade disturbed areas and stabilize with permanent seeding.
7. Notify Howard County Office of Construction Inspection for permission to remove sediment control measures and stabilize areas with permanent seeding.

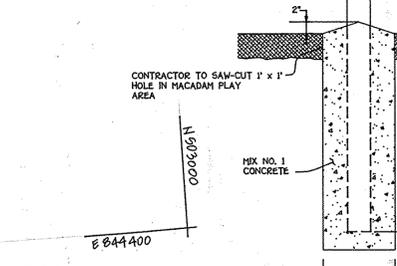
WOOD CARPET NOTES

- HOWARD COUNTY PUBLIC SCHOOL SYSTEM WILL CONTRACT THE INSTALLER OF THE WOOD CARPET PLAY AREA AND PLAY EQUIPMENT INDEPENDENTLY.
- SITE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN WOOD CARPET PLAY AREA TO PERFORATED PIPE DRAIN.
- CONTRACTOR SHALL CONNECT 4" STORM DRAIN TO EXISTING INLET AS INDICATED. EXISTING INLET SHALL BE REPAIRED TO HOWARD COUNTY STANDARD AFTER CONNECTION OF PROPOSED STORM DRAIN.

NOTE: ABSOLUTELY NO CONSTRUCTION TRAFFIC WILL BE PERMITTED TO ENTER OR EXIT THE SITE DURING HEAVY PEDESTRIAN TRAFFIC HOURS. TIMES WILL BE DETERMINED BY HOWARD COUNTY PUBLIC SCHOOL SYSTEM.

NOTE: EXISTING CHAIN LINK FENCE AT GAS METERS AND EQUIPMENT SHOULD BE RESTORED TO LIKE NEW CONDITION FOLLOWING EXTERIOR CONSTRUCTION ACTIVITIES.

NOTE: SEE SHEET 5 FOR "POST CONTROL SPECIFICATIONS".



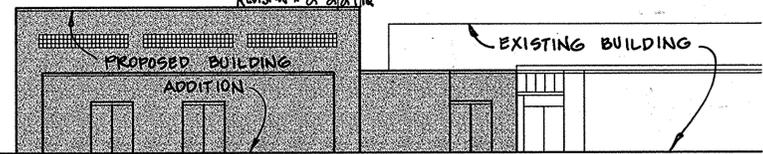
BASKETBALL POST INSTALLATION DETAIL
NO SCALE



REVISION #3
09/16

REVISION #2
09/16

REVISION #1
09/16



PROPOSED WEST ELEVATION
NOT TO SCALE

No.	Revision	Date
1	Added Const. Seq. Notes, new building addition.	9-20-97

SITE DEVELOPMENT PLAN

VILLAGE OF OAKLAND MILLS; SECTION 4, AREA 1
TALBOTT SPRINGS ELEMENTARY SCHOOL
(GYMNASIUM & ART DEPARTMENT BUILDING ADDITION)

OPEN SPACE LOT 216; PLAT BOOK 17, P. 1010 54
TAX MAP No: 36 PARCEL: 283
SIXTH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: JULY 7, 1999
SHEET 2 OF 5

SDP-00-11

LEGEND

Symbol	Description
---	Existing Contour 2' Interval
---	Existing Contour 10' Interval
---	Proposed Contour 2' Interval
---	Proposed Contour 10' Interval
+ 624	Spot Elevation
-SF -SF-	Silt Fence
FF	First Floor Elevation
BE	Basement Elevation
L.O.D.	Limit of Disturbance
○	Existing Tree

PLAN VIEW
SCALE: 1" = 30'

NOTE: THE PURPOSE OF THIS REVISION IS TO ADD A PORTABLE CLASSROOM.

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) *Chulh* Date 7/16/99

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) *John K. Hays* Date 7/14/99



APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chief, Division of Land Development
Chief, Department of Engineering Division
Director, Department of Planning and Zoning

10/2/99
10/1/99
10/7/99

OWNER
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 MARYLAND ROUTE 108
ELLCOTT CITY, MARYLAND 21042
(410) 313-6600

LEGEND

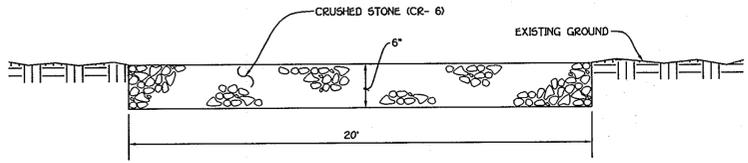
SYMBOL	DESCRIPTION
○	LED POLE MOUNTED LUMINAIRE ON A 25' ROUND ALUMINUM POLE
□	DUAL HEAD LED POLE MOUNTED LUMINAIRE ON A 25' ROUND ALUMINUM POLE

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: 8/26/99

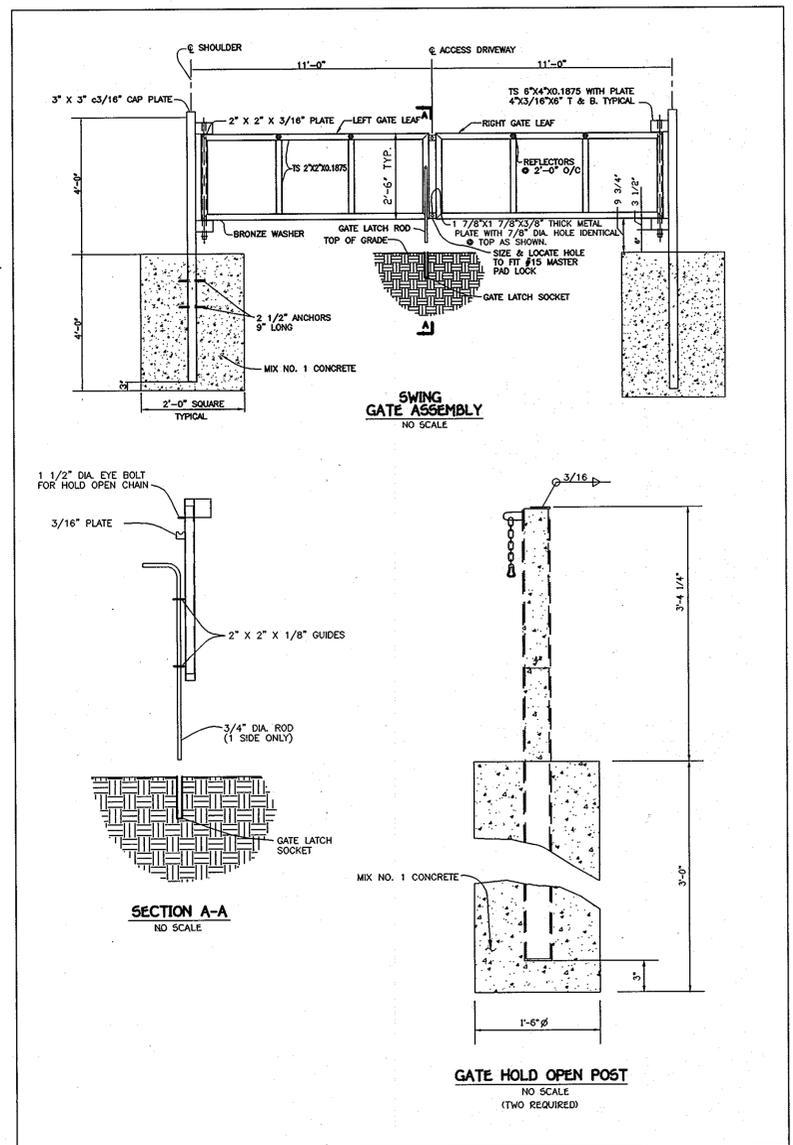
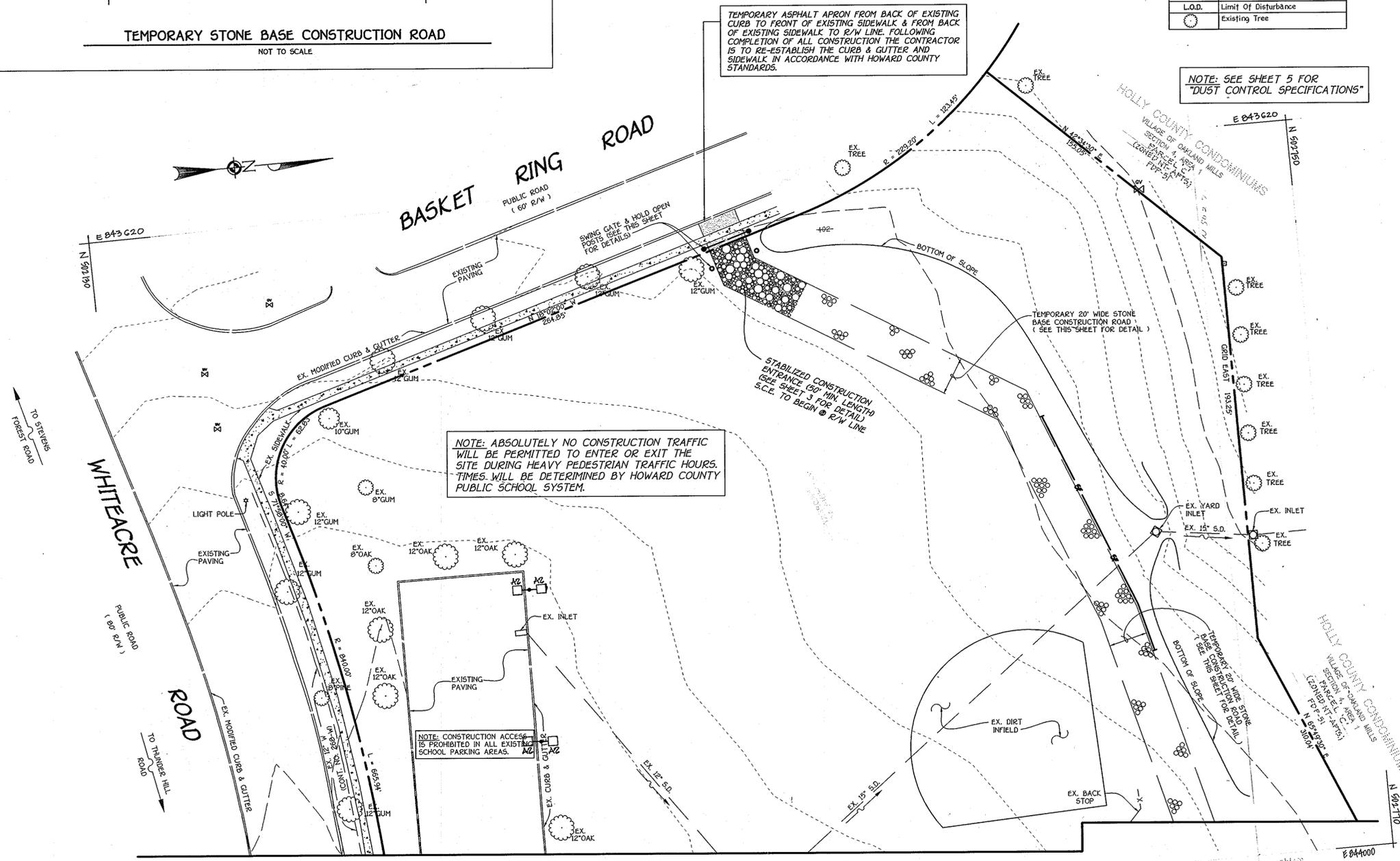
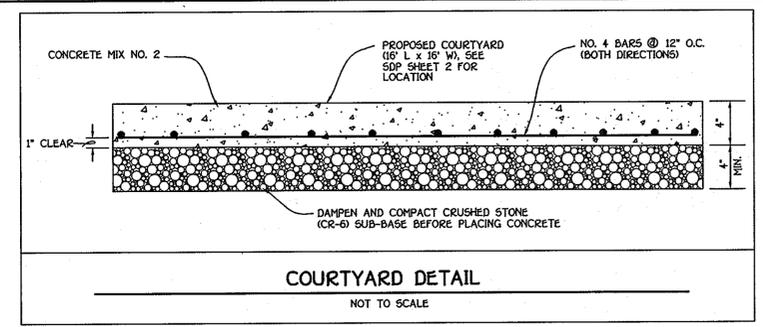
NO.	REVISION	DATE
3	ADDED PORTABLE CLASSROOM	6/9/96
2	ADDED LIGHT POLES WITH LED POLE MOUNTED LUMINAIRES	2/24/92

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461-2000

F.C.C. 403275DFC2



LEGEND	
Symbol	Description
---	Existing Contour 2' Interval
---	Existing Contour 10' Interval
---	Proposed Contour 2' Interval
---	Proposed Contour 10' Interval
+	Spot Elevation
-SF-SF-	Silt Fence
FF	First Floor Elevation
BE	Basement Elevation
L.O.D.	Limit Of Disturbance
(Tree symbol)	Existing Tree



LEGEND	
SYMBOL	DESCRIPTION
(Symbol)	DUAL HEAD LED POLE MOUNTED LUMINAIRE ON A 2 1/2" ROUND ALUMINUM POLE

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 464-2355

NO.	REVISION	DATE
1	ADDED LIGHT POLES WITH LED POLE MOUNTED LUMINAIRES	8/24/99
	REVISION	DATE

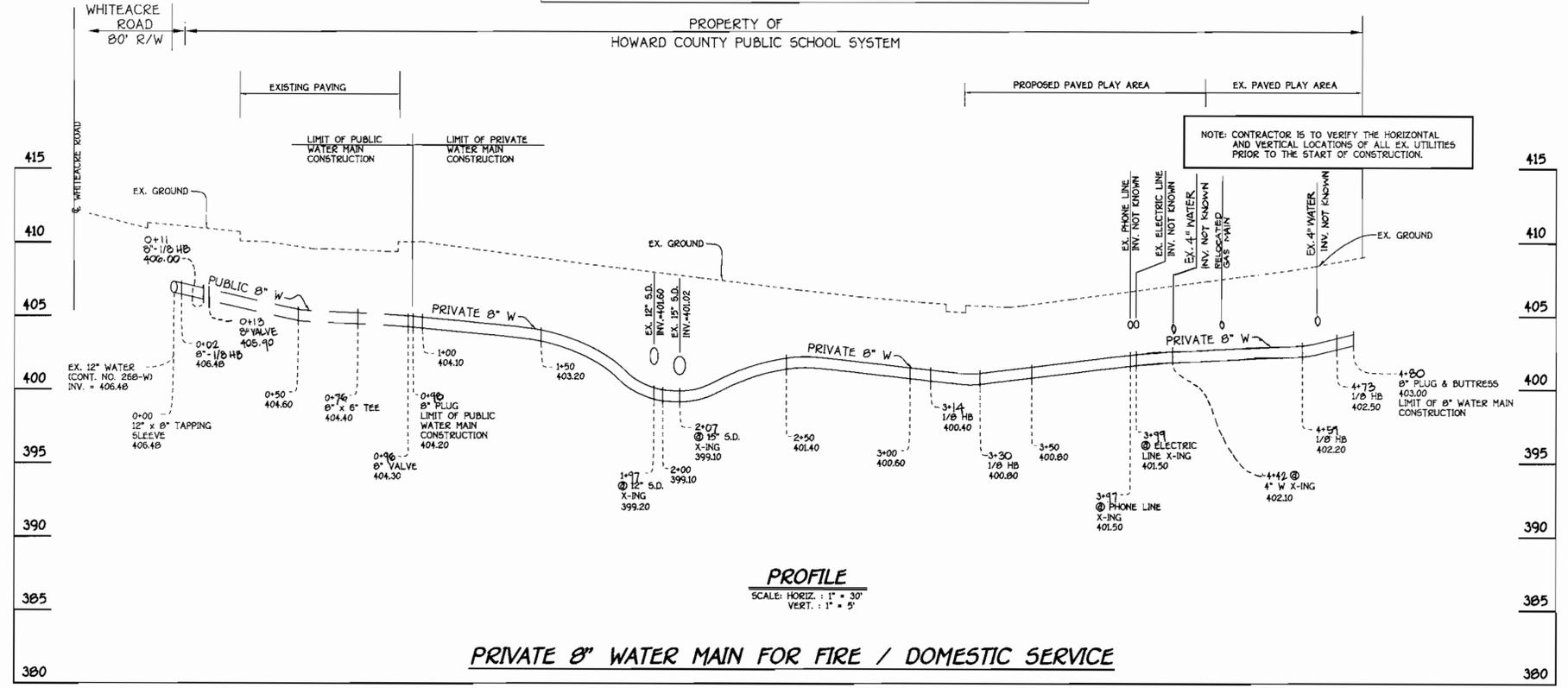
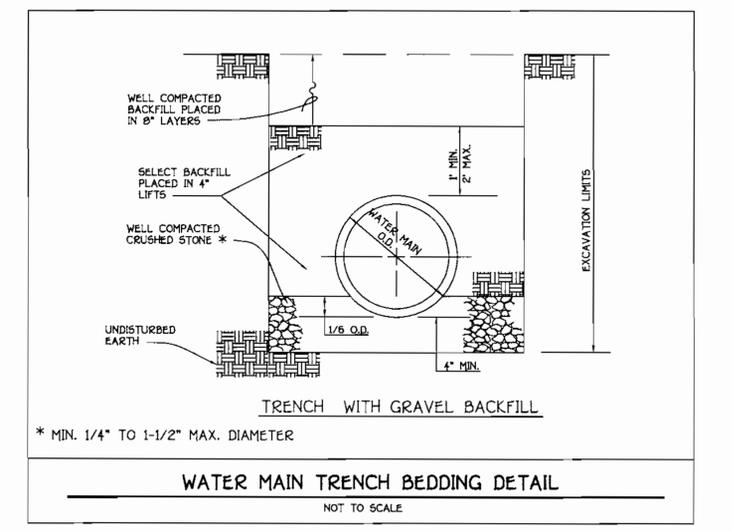
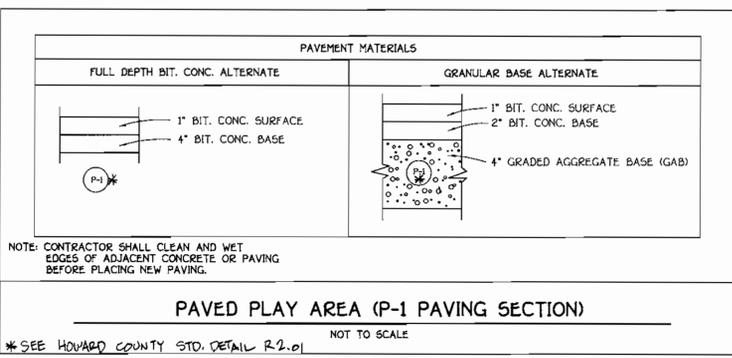
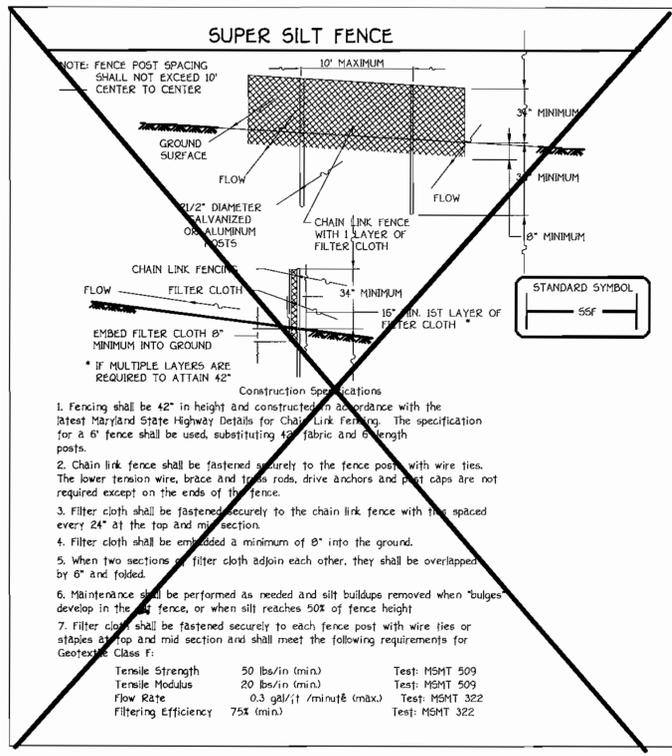
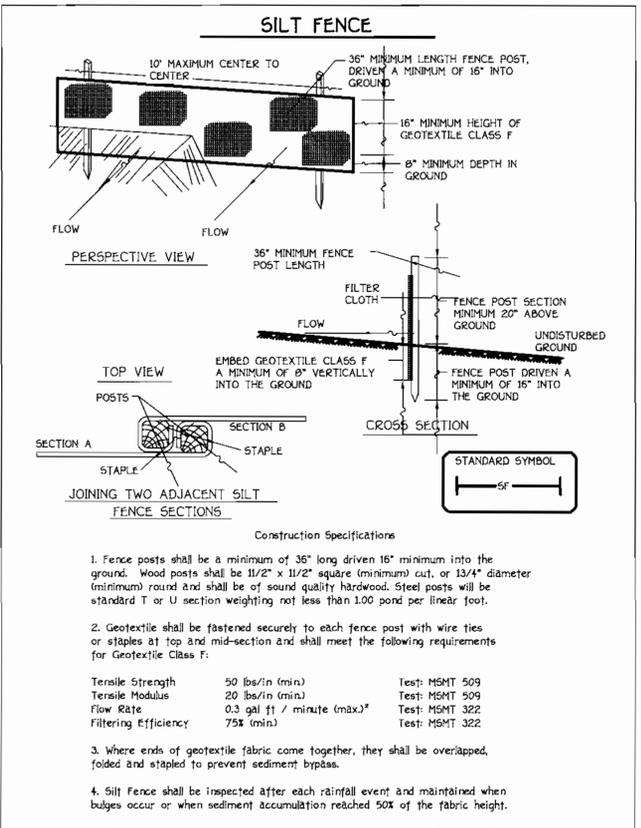
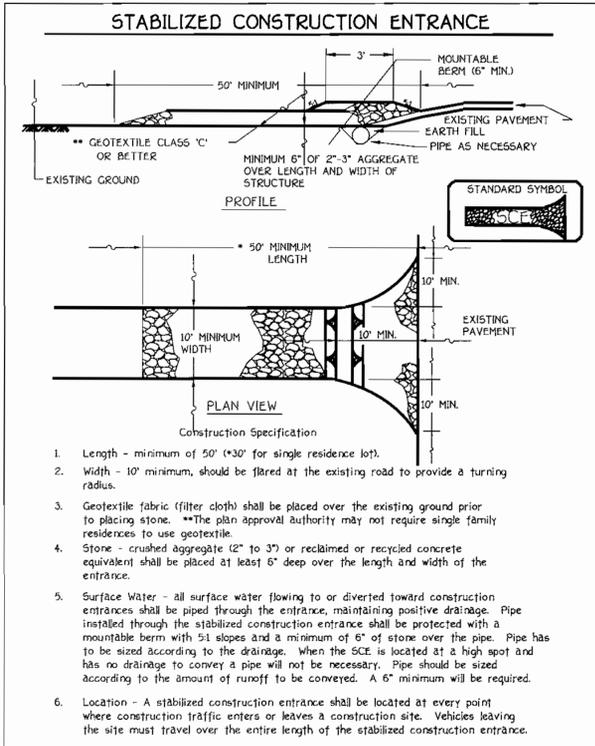
APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE: **8/26/99**

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) **Chell** Date **7/14/99**
DEVELOPER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan, and that any responsible person 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) **John R. Patton** Date **7/14/99**

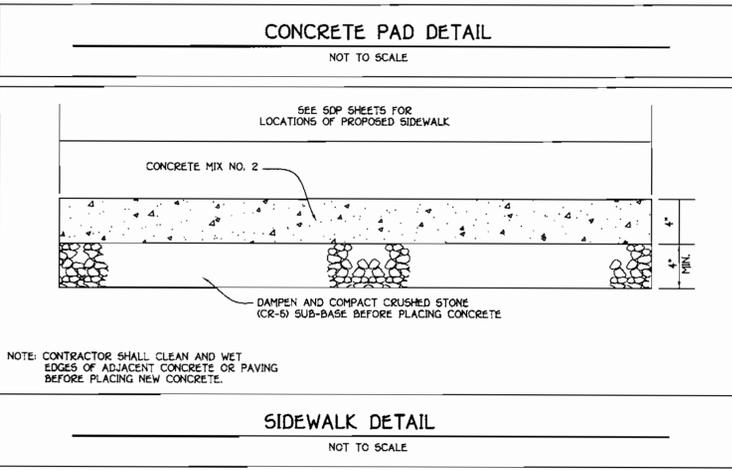
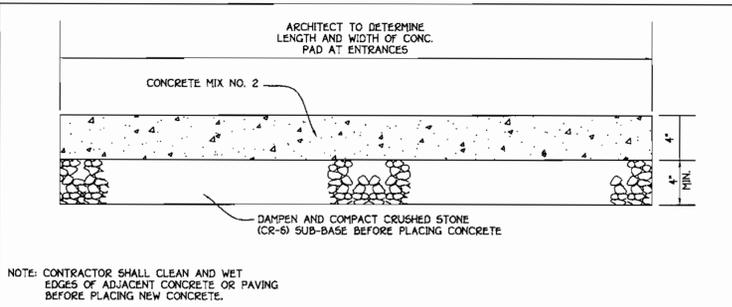
Approved for Howard SCD and meets Technical Requirements.
 N.S.D.A. - Natural Resources Conservation Service
 Signature of Howard SCD **John R. Patton** Date **9/29/99**
OWNER
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 10910 MARYLAND ROUTE 108
 ELICOTT CITY, MARYLAND 21042
 (410) 315-6600

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Division of Land Development **Condi Hamilton** Date **10/7/99**
 Chief, Development Engineering Division **John R. Patton** Date **10/1/99**
 Director - Department of Planning and Zoning **John R. Patton** Date **10/7/99**
 PROJECT: VILLAGE OF OAKLAND MILLS, TALBOTT SPRINGS ELEMENTARY SCHOOL, OPEN SPACE LOT 216 SECTION/AREA 4/1 PARCEL NO. 203
 DEED L. 643/ F. 62 BLOCK NO. 3 ZONE NT-OS; FDP-51 TAX/ZONE 36/ SIXTH CENSUS TR. 6066.03
 WATER CODE E03 SEWER CODE 5580900

SITE DEVELOPMENT PLAN
 VILLAGE OF OAKLAND MILLS; SECTION 4, AREA 1
TALBOTT SPRINGS ELEMENTARY SCHOOL
 (GYMNASIUM & ART DEPARTMENT BUILDING ADDITION)
 OPEN SPACE LOT 216; PLAT BOOK 17, FOLIO 54
 TAX MAP No: 36 PARCEL: 203
 SIXTH ELECTION DISTRICT- HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: JULY 28, 1999
 SHEET 3 OF 5



Chandler



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 18772 DALTONS NATIONAL PKWY
 ELLICOTT CITY, MARYLAND 21117
 410.461.2855

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE: **8/26/99**

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.

Chandler
 Signature of Engineer (Print name below signature) **7/14/99**
 Date

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.

John R. Watson
 Signature of Developer (Print name below signature) **7/14/99**
 Date

Reviewed for Howard SCD and meets Technical Requirements.
Chief Summers
 U.S.D.A. - Natural Resources Conservation Service
 Date: **9/29/99**

This development plan is approved for all erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
John R. Watson
 Howard SCD
 Date: **9/29/99**

OWNER
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 10910 MARYLAND ROUTE 108
 ELLICOTT CITY, MARYLAND 21042
 (410) 313-6600

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Cecily Hamstra
 Chief, Division of Land Development
 Date: **10/1/99**

John R. Watson
 Chief, Development Engineering Division
 Date: **10/7/99**

PROJECT: VILLAGE OF OAKLAND MILLS
 TALBOTT SPRINGS ELEM. SCHOOL
 OPEN SPACE LOT 216

SECTION/AREA: 4/1
 PARCEL NO.: 283

DEED: L. 643/ F. 62
 BLOCK NO.: 3
 ZONE: NT-09
 TAX/ZONE: 36/
 ELEC. DIST.: SIXTH
 CENSUS TR.: 0666.03

WATER CODE: E03
 SEWER CODE: 5580000

SITE DEVELOPMENT PLAN
WATER MAIN PROFILE, NOTES, AND DETAILS
 VILLAGE OF OAKLAND MILLS; SECTION 4, AREA 1
TALBOTT SPRINGS
ELEMENTARY SCHOOL
 (GYMNASIUM & ART DEPARTMENT BUILDING ADDITION)
 OPEN SPACE LOT 216; PLAT BOOK 17, FOLIO 54
 TAX MAP No: 36 PARCEL: 283
 SIXTH ELECTION DISTRICT- HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: JULY 7, 1999
 SHEET 4 OF 5
SDP-00-11

SECTION 20 : STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

DEFINITION: Using vegetation as cover for barren soil to protect it from forces that cause 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 wildlife habitat and visual resources.

CONDITIONS WHERE PRACTICE APPLIES: This practice shall be used on denuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is divided into Temporary Seeding, to quickly establish vegetative cover for short duration (up to one year), and Permanent Seeding, for long term vegetative cover. Examples of applicable areas for Temporary Seeding are temporary soil stockpiles, cleared areas being left idle between construction phases, earth dikes, etc. and for Permanent Seeding are lawns, dams, cut and fill slopes and other areas at final grade, former stockpile and staging areas, 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, percolation, and groundwater recharge. Vegetation 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, seeded 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**
- Site Preparation**
 - Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.
 - Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.
 - Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed area over 5 acres.
 - Soil Amendments (Fertilizer and Lime Specifications)**
 - 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.
 - Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Manure may be substituted for fertilizer with prior approval from the appropriate authority. Fertilizers shall all 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.
 - Lime materials shall be ground limestone (hydrated or burnt lime) but be substituted which contains at least 50% total oxides (calcium oxide plus magnesium oxide). Limestone shall be ground to such fineness that at least 50% will pass through a #100 mesh sieve and 90-100% will pass through a #20 mesh sieve.
 - Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.
 - Seeded Preparation**
 - Temporary Seeding**
 - Seeding preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth, but left in the roughened condition. Sloped areas (greater than 3:1) should be treated by disking with a heavy chain or other equipment to prevent topsoil from running parallel to the contour of the slope.
 - Apply fertilizer and lime as prescribed on the plans.
 - Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.
 - Permanent Seeding**
 - Minimum soil conditions required for permanent vegetative establishment:
 - Soil pH shall be between 6.0 and 7.0.
 - Soluble salts shall be less than 500 parts per million (ppm).
 - The soil shall contain less than 40% clay, but enough fine grained material (0.30X silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if loesslike or siltlike loesslike soils are to be planted, then a sandy soil (0.05X silt plus clay) would be acceptable.
 - Soil shall contain 1.5% minimum organic matter by weight.
 - Soil must contain sufficient pore space to permit adequate root penetration.
 - If these conditions cannot be met by adding topsoil as required in accordance with Section 21 Standard and Specification for Topsoil.
 - Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, they scarified or otherwise loosened 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.
 - Apply soil amendments as per soil test or as included on the plans.
 - Mix soil amendments into the top 3-5" of topsoil by disking 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 and application. Where site conditions will not permit normal seedbed preparation, soil loosening may be done by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3:1) should be tracked by a dozer leaving the soil in an irregular condition with ridges running 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 severely disturbed areas.

- Seed Specifications**
 - 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 this job.
 - Note: Seed tags shall be made available to the inspector to verify type and rate of seed used.
 - Inoculant** - The inoculant for treating legume seed in the seed mixtures shall be a pure culture of nitrogen-fixing bacteria specifically for the species. Inoculant shall not be used later than the date indicated on the container. Add fresh inoculant as directed on package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75-80° F. can weaken bacteria and make the inoculant less effective.
 - Methods of Seeding**
 - Hydroseeding** - Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seeded, or a cultipacker seeder.
 - If fertilizer is being applied at the time of seeding, the application rates amounts will not exceed the following: nitrogen maximum of 100 lbs. per acre total of soluble nitrogen; P205 (phosphorous) 200 lbs/acre; K2O (potassium) 200 lbs/acre.
 - Lime - use only ground agricultural limestone, 60p to 3 tons per acre may be applied by hydroseeding. Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
 - Seed and fertilizer shall be mixed on site and seeding shall be done immediately and without interruption.
 - Dry Seeding** - This includes use of conventional drop or broadcast spreaders.
 - Cultipacker seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seeded must be firm after planting.
 - Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.
 - Mulch Specifications (in order of preference)**
 - Straw shall consist of thoroughly threshed wheat, rye or oat straw, reasonable bright in color, and shall not be musty, moldy, decayed, or excessively dusty and shall be free of noxious weed seeds as specified in the Maryland Seed Law.
 - Wood Cellulose Fiber Mulch (WCFM)**
 - WCFM shall consist of specially prepared wood cellulose processed into a uniform fibrous physical state.
 - WCFM 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 spread slurry.
 - WCFM, including dye, shall contain no germination or growth inhibiting factors.
 - WCFM materials shall be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material shall form a blotter-like ground cover, on application, having moisture absorption and percolation properties and shall cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
 - WCFM material shall contain no elements or compounds at concentration levels that will be phytotoxic.
 - WCFM must conform to the following physical requirements: fiber length to approximately 1.5 mm, diameter approximately 1 mm, pH range of 4.0 to 8.5, ash content of 1.5% maximum and water holding capacity of 90% minimum.
- Note: Only sterile straw mulch should be used in areas where one species of grass is desired.

- Mulching Seeded Areas** - Mulch shall be applied to all seeded areas immediately after seeding.
 - If grading is completed outside of the seeding season, mulch alone shall be applied as prescribed in this section. In the seeding season returns and seeding can be performed in accordance with these specifications.
 - 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 soil surface and shall not be exposed. If a mulch anchoring tool is to be used, the rate should be increased to 2.5 tons/acre.
 - Wood cellulose fiber used as a mulch shall be applied at a net dry weight of 1,500 lbs. per acre. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lbs. of wood cellulose fiber per 100 gallons of water.
- Securing Straw Mulch (Mulch Anchoring)** - 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):
 - 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, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should be used on the contour if possible.
 - Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a net dry weight of 200 pounds/acre. The wood cellulose fiber shall be mixed with water at the mixture shall contain a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
 - Application of liquid binders should be heavier at the edges where wind catches mulch, such as in valleys and crest of banks. The remainder of area should be applied uniform after binder application. Synthetic binders - such as Acrylic DLR (Agro-Tack), DCA-70 Petroseal, Terra Tax II, Terra Tack AR, or other approved equal may be used at rates recommended by the manufacturer to anchor mulch.
 - 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.

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 (313-1859).
- 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: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DICES, PERMITS AND ALL SLOPES STEEPER THAN 3:1; b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING 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 FOR PERMANENT SEEDING (SEC. 50), SOD (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 PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:**

TOTAL AREA OF SITE	10.00 ACRES
AREA DISTURBED	0.20 ACRES
AREA TO BE ROOFED OR PAVED	0.15 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.05 ACRES
TOTAL CUT	500 CU.YDS.
TOTAL FILL	500 CU.YDS.
OFFSITE WASTE/BORROW AREA LOCATION	N/A CU.YDS.
- 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 DESIGN MANUAL, STORM DRAINAGE.
- 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 THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR 150 FEET, BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

PERMANENT SEEDING NOTES

ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:

SEEDBED 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 (92 LBS./1,000 SQ.FT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER (14 LBS./1,000 SQ.FT.) BEFORE SEEDING HARROW OR DISC INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1,000 SQ.FT.) AND 500 LBS. PER ACRE (11.5 LBS./1,000 SQ.FT.) OF 10-20-20 FERTILIZER.

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 100 LBS. PER ACRE (23 LBS./1,000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS./ACRE (14 LBS./1,000 SQ.FT.) KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE (0.05 LBS./1,000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROJECT SITE BY: OPTION (1) - TWO TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING; OPTION (2) - USE SOD; OPTION (3) - SEED WITH 100 LBS./ACRE KENTUCKY 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 (10 TO 90 LBS./1,000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE (5 GAL./1,000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 0 FEET OR HIGHER USE 348 GALLONS PER ACRE (8 GAL./1,000 SQ.FT.) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED 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 10-20-10 FERTILIZER (14 LBS./1,000 SQ.FT.)

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 1.5 BUSHELS PER ACRE OF ANNUAL RYE (32 LBS./ACRE OF WEEPING LOVEGRASS (0.7 LBS./1,000 SQ.FT.) FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROJECT 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 1.5 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHORING TOOL OR 210 GALLONS PER ACRE (5 GAL./1,000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 0 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1,000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1988 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

SECTION 21 : 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 VEGETATIVE GROWTH.
- SPECIFICATIONS:** A. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. B. TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING SUBSOILS. C. TOPSOIL SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1.5" IN DIAMETER. D. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" TO 6" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". E. AVOID SURFACE IRREGULARITIES. F. PLACE TOPSOIL AND APPLY SOIL AMENDMENTS AS SPECIFIED IN "STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION". G. TOPSOIL SHALL NOT BE PLACED DURING FROZEN, MUDDY, OR EXCESSIVELY WET CONDITIONS.
- APPLICATION:** A. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" TO 6" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". B. AVOID SURFACE IRREGULARITIES. C. PLACE TOPSOIL AND APPLY SOIL AMENDMENTS AS SPECIFIED IN "STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION". D. TOPSOIL SHALL NOT BE PLACED DURING FROZEN, MUDDY, OR EXCESSIVELY WET CONDITIONS.

SEQUENCE OF CONSTRUCTION

- OBTAIN THE REQUIRED GRADING PERMIT. (1 DAY)
- INSTALL TEMPORARY CONSTRUCTION FENCE. (2 DAYS)
- VISIT THE SITE WITH HOWARD COUNTY FIRE MARSHALL TO MARK INTERNALLY & EXTERNALLY EXITS DURING SCHOOL CONSTRUCTION. (1 DAY)
- INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS INDICATED ON SITE DEVELOPMENT PLAN SHEETS. (2 DAYS)
- DELIVERY AND INSTALLATION OF CONSTRUCTION TRAILERS IN ACCORDANCE WITH SPECIFICATIONS OF THE ARCHITECT AND CONTRACTOR. (1 DAY)
- REMOVAL OF SIDEWALKS, PAVED PLAY AREA, PLAYGROUND EQUIPMENT, ETC. CONTAINED ON SITE DEVELOPMENT PLANS, SHEETS 2 AND 3. (200 DAYS)
- CONSTRUCT BUILDING ADDITION, EXISTING SCHOOL RENOVATIONS, PROPOSED UTILITIES, PROPOSED PLAY AREAS, ETC. IN ACCORDANCE WITH THE INFORMATION CONTAINED ON SITE DEVELOPMENT PLANS, SHEETS 2 AND 3. (200 DAYS)
- FINE GRADE AROUND BUILDING ADDITION. (1 DAY)
- REMOVE TEMPORARY CONSTRUCTION FENCE, CONSTRUCTION TRAILERS, ALL DEBRIS, AND CONSTRUCTION MATERIAL FROM SITE. (10 DAYS)
- REMOVE SEDIMENT AND EROSION CONTROL DEVICES AS PERMISSION IS GRANTED BY S & E INSPECTOR. (3 DAYS)

DUST CONTROL SPECIFICATIONS

DEFINITION: CONTROLLING DUST BLOWING ON CONSTRUCTION SITES AND ROADS.

PURPOSE: TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF SITE DAMAGE, HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.

CONDITIONS WHERE PRACTICE APPLIES: THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.

SPECIFICATIONS

TEMPORARY METHODS

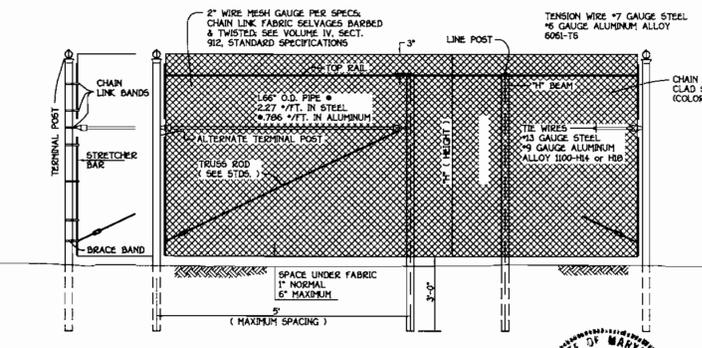
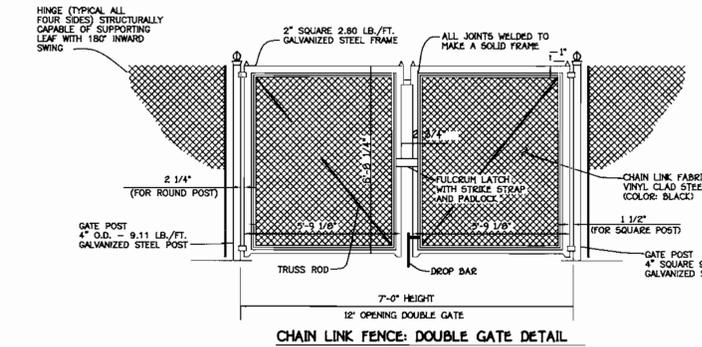
- MULCHES- SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT BLOWING.
- VEGETATIVE COVER- SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
- TILLAGE- TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12" APART. SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- IRRIGATION- THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOSTLY WET AS NEEDED. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW.
- BARRIERS- SOLID BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL BLOWING.
- CALCIUM CHLORIDE- APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

PERMANENT METHODS

- PERMANENT VEGETATION- SEE STANDARDS FOR PERMANENT VEGETATIVE COVER, AND PERMANENT STABILIZATION WITH SOD. EXISTING TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
- TOPSOILING- COVERING WITH LESS ERODIBLE SOIL MATERIALS. SEE STANDARDS FOR TOPSOILING.
- STONE- COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

REFERENCES

- AGRICULTURE HANDBOOK 346. WIND EROSION FORCES IN THE UNITED STATES AND THEIR USE IN PREDICTING SOIL LOSSES.
- AGRICULTURE INFORMATION BULLETIN 354. HOW TO CONTROL WIND EROSION. USDA-ARS.



TYPE	HEIGHT OF FENCE	MIN. TO CONNECT TO
4" POST SPACING MAX.	7'-0"	4" MIN.
" LENGTH OF H. BEAM	8'-0" MIN.	4" MIN.
H. BEAM STEEL	2.25 x 1.95 x 4.10 W/F.T.	4" MIN.
H. BEAM ALUMINUM	2.25 x 1.95 x 4.10 W/F.T.	4" MIN.
TRUSS ROD STEEL	2.875 x 0.8 x 5.75 W/F.T.	4" MIN.
TRUSS ROD ALUMINUM	2.875 x 0.8 x 5.75 W/F.T.	4" MIN.
ALL TRUSS POST STEEL	2.50 x 2.50 x 5.70 W/F.T.	4" MIN.
ALL TRUSS POST ALUMINUM	2.50 x 2.50 x 5.70 W/F.T.	4" MIN.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 1872 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2955

APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE: **8/26/99**

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) **John R. Rabin** Date **9/3/99**

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 Environment Approval Program. I also authorize periodic on-site inspection by the Howard Soil Conservation District."
Signature of Developer (Print name below signature) **John R. Rabin** Date **9/3/99**

OWNER
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 HARELYND ROAD, #208
ELICOTT CITY, MARYLAND 21042
(410) 313-6500

Reviewed for HOWARD SCD and meets Technical Requirements.
John R. Rabin 9/3/99
M.D.A. National Resources Conservation Service
This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
John R. Rabin 9/3/99
Howard SCD

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chris Handa 10/7/99
Chief, Department of Land Development
John R. Rabin 10/1/99
Chief, Development Engineering Division
John R. Rabin 10/7/99
Director, Department of Planning and Zoning

PROJECT	VILLAGE OF OAKLAND MILLS, TALBOTT SPRINGS ELEMENTARY SCHOOL OPEN SPACE LOT 216	SECTION/AREA	4/1	PARCEL NO.	203
DEED	L. 643 / F. 62	BLOCK	3	ZONE	NT-05, FDP-51
TAX/ZONE	36/	ELEC. DIST.	SIXTH	CENSUS TR.	6066.03
WATER CODE	E03	SEWER CODE	5580800		

**SITE DEVELOPMENT PLAN
SEDIMENT & EROSION CONTROL
NOTES AND DETAILS**
VILLAGE OF OAKLAND MILLS; SECTION 4, AREA 1
**TALBOTT SPRINGS
ELEMENTARY SCHOOL**
(GYMNASIUM & ART DEPARTMENT BUILDING ADDITION)
OPEN SPACE LOT 216; PLAT BOOK 17, FOLIO 54
TAX MAP No: 36 PARCEL: 203
SIXTH ELECTION DISTRICT- HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JULY 28, 1999
SHEET 5 OF 5