

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 (303-18955).
- 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 EROSION TREATMENTS.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 30 DAYS OF ALL OTHER DISTURBED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHALL 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. 51), 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	0.495 ACRES
AREA DISTURBED	0.241 ACRES
AREA TO BE ROOFED OR PAVED	0.0719 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.163 ACRES
TOTAL CUT	400 CU.YDS.
TOTAL FILL	400 CU.YDS.
- OFFSITE WASTE/BORROW AREA LOCATION: CLYDS.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON 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 AGENCY SHALL BE REQUESTED IMMEDIATELY UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING OTHER THAN THAT WHICH IS NECESSARY FOR 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 THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- INSTALL SEDIMENT CONTROLS AS SHOWN ON PLAN. (1 day)
- PERFORM NECESSARY GRADING AND STABILIZE THE SITE. (2 days)
- CONSTRUCT DWELLING ON SITE. (90 days)
- AFTER THE SITE IS STABILIZED AND PERMISSION IS GRANTED FROM SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS AND STABILIZE ANY REMAINING DISTURBED AREAS.

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 SQ. FT.)

SEEDING:

FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH NOVEMBER 15, SEED WITH 1 1/2 BUSHEL PER ANNUAL RYE. (3.2 LBS./1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 1 LBS./ACRE OF WEEPING LOVEGRASS (0.7 LBS./1000SQ.FT.). FOR THE PERIOD NOVEMBER 15 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING:

APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 3 FEET OR HIGHER, USE 340 GALLONS PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING. REFER TO THE 1989 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

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 (92 LBS./1000 SQ.FT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER (4 LBS./1000 SQ.FT.) BEFORE SEEDING HARROW OR DISC INTO UPPER THREE INCHES OF SOIL, AT TIME OF SEEDING. APPLY 400 LBS. PER ACRE 38-0-0 UREA/AMMONIUM FERTILIZER (9 LBS./1000 SQ.FT.) AND 500 LBS. PER ACRE (11.5 LBS./1000 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 (2 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS./ACRE (4 LBS./1000 SQ.FT.) KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE (0.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 15 THROUGH FEBRUARY 28, PROTECT SITE BY OPTION (I) - 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 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 3 FEET OR HIGHER USE 340 GALLONS PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE:

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

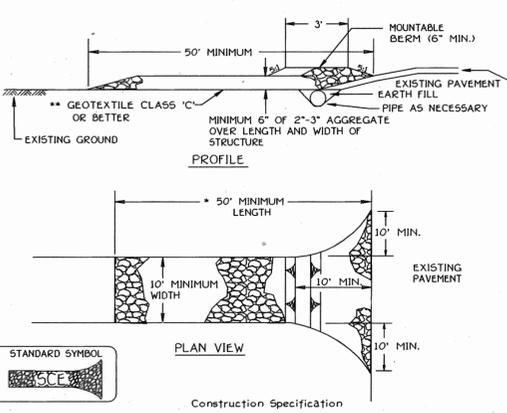
- FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROWNVECH at 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE at 40 LBS./ACRE at the SEEDING REQUIREMENT. OPTIMUM SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.

TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:

- TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND.
- OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURE SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CHINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.

TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTCRACK, POISON IVY, THISTLE OR OTHERS AS SPECIFIED.

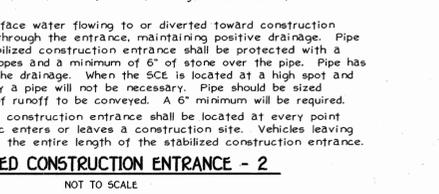
WHERE THE TOPSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.



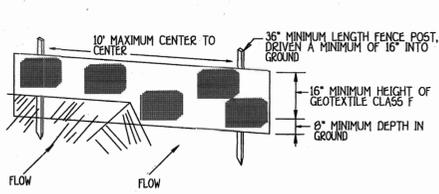
- Length - minimum of 50' (*30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. *The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3" or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

STABILIZED CONSTRUCTION ENTRANCE - 2

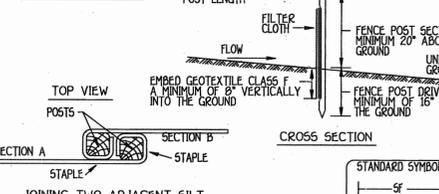
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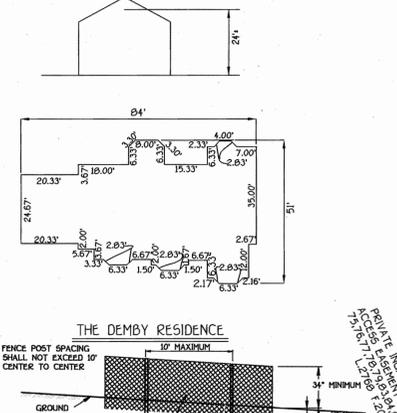
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- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 100 pound per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lb/in (min)	Test: MSMT 509
Tensile Modulus	20 lb/in (min)	Test: MSMT 509
Flow Rate	0.3 gal ft / min (max)	Test: MSMT 322
Filtering Efficiency	75% (min)	Test: MSMT 322
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

SILT FENCE

NOT TO SCALE

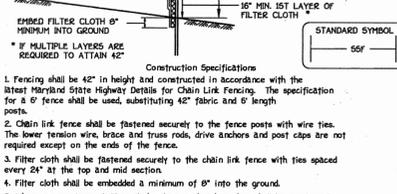


- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Design for Chain Link Fencing. The specification for a 6" fence shall be used, substituting 42" fabric and 6" length posts.
- Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
- Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- Filter cloth shall be embedded a minimum of 6" into the ground.
- When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and silt bulges removed when "bulges" develop in the silt fence or when silt reaches size of fence height.
- Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

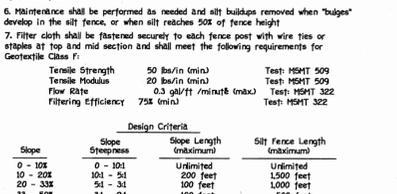
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Tensile Modulus	20 lb/in (min)	Test: MSMT 509
Flow Rate	0.3 gal ft / min (max)	Test: MSMT 322
Filtering Efficiency	75% (min)	Test: MSMT 322

SUPER SILT FENCE

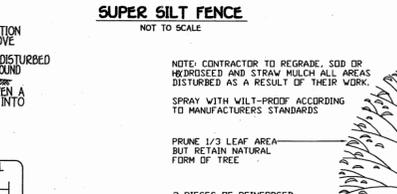
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- 2 PIECES OF REINFORCED RUBBER HOSE
- DOUBLE #12 GALVANIZED WIRE GUYS TWISTED
- 2" x 2" DAK STAKES, NOTCH STAKES TO HOLD WIRE
- WRAP TRUNK TO SECOND TIER OF BRANCHES WITH WATERPROOF TREE WRAP. TIE AT 6" INTERVALS (EXCEPT EVERGREENS)
- REMOVE ANY COVERING FROM TOP OF ROOT CROWN
- 3" MULCH
- MAINTAIN GROUND LEVEL WITH TOP OF ROOT CROWN
- CONSTRUCT 3" SAUCER RIM-FLOOD WITH WATER TWICE WITHIN 24 HOURS
- TOP SOIL MIXTURE
- CONVEX BOTTOM 6" MIN. HT.

TREE PLANTING DETAIL

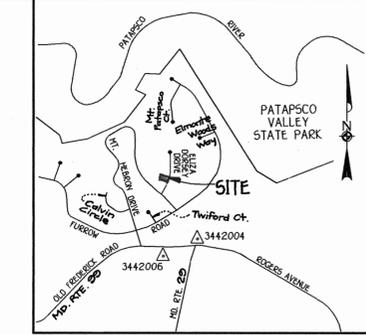
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ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
78	2009 DIANE LANE

LEGEND	
SYMBOL	DESCRIPTION
-+362.5	EXISTING CONTOUR 2' INTERVAL
-SF -SF-	SPOT ELEVATION
---	SILT FENCE
---	PROPOSED WALKOUT
---	EXISTING TREE LINE
L.O.D.	LIMIT OF DISTURBANCE
---SF---SF---	SUPER SILT FENCE
○	EXISTING TREES PER F-91-167



VICINITY MAP

SCALE: 1"=2000'

GENERAL NOTES

- THE SUBJECT PROPERTY IS ZONED R-20 PER THE 10/18/93 COMPREHENSIVE ZONING PLAN.
- THE TOTAL AREA INCLUDED IN THIS SUBMISSION IS 0.495 AC.
- THE TOTAL NUMBER OF LOTS INCLUDED IN THIS SUBMISSION IS 1.
- THE TOTAL DISTURBED AREA IS 0.241 ACRES.
- SIC ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE PER CONT. # 11-3153-D.
- DEPARTMENT OF PLANNING AND ZONING REFERENCE FILE NUMBERS ARE P-89-32, F-89-22, F-91-167.
- UTILITIES SHOWN AS EXISTING ARE TAKEN FROM APPROVED WATER AND SEWER PLANS CONTRACTS 11-3153-D AND 11-1547-D AND APPROVED ROAD CONSTRUCTION PLANS F-89-180, F-89-187, F-89-188, F-89-189.
- ANY DAMAGE TO COUNTY RIGHTS-OF-WAY SHALL BE REPAIRED AT THE DEVELOPER'S EXPENSE.
- ALL COORDINATES ARE BASED ON NAD 83, MARYLAND STATE PLANE GRID AS PROJECTED BY HOWARD COUNTY CONTROL STATIONS 342004 AND 342005.
- IN ACCORDANCE WITH SECTION 129.04X OF THE HOWARD COUNTY SUPPLEMENTARY ZONING DISTRICT REGULATIONS, BAY WINDOWS OR CHIMNEYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, POSESS AND DECES MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR SETBACKS.
- STORMWATER MANAGEMENT IS PROVIDED FOR IN THE EXISTING REGIONAL STORMWATER MANAGEMENT PLAN LOCATED ON LOT 71, PER F-89-187.
- THE DRIVEWAY ENTRANCE IS PER HOWARD COUNTY STANDARD DETAIL R-6.06.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION (410-318-980) AT LEAST 24 HOURS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY THE UTILITY (1-800-257-7777) AT LEAST 48 HOURS PRIOR TO EXCAVATION WORK.
- THIS PLAN IS BASED ON A BOUNDARY SURVEY PERFORMED BY FURUM & JESCOFF.
- TOPOGRAPHY IS BASED ON FIELD-BLENDED TOPOGRAPHY PERFORMED BY FISHER, COLLINS & CARTER, JULY, 1993.
- THIS PROJECT IS EXEMPT FROM THE FOREST CONSERVATION REQUIREMENTS BECAUSE SUBDIVISION HAD A PRELIMINARY PLAN APPROVED PRIOR TO 12-31-92 PER SECTION 18.02.02 (b) (1) OF THE HOWARD COUNTY CODE.
- AS A CONSEQUENCE OF THIS SUBMISSION ON JAN. 29, 2002, THIS SITE DEVELOPMENT PLAN IS SUBJECT TO THE 5TH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
- FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING IN THE AMOUNT OF \$200,000 HAS BEEN POSTED WITH THE GRADING PERMIT.

SCHEDULE A PERIMETER LANDSCAPE EDGE						
PERIMETER	CATEGORY (PROPERTIES/ROADWAYS)	LANDSCAPE TYPE	LINEAR FEET OF ROADWAY FRONTAGE PERIMETER	NUMBER OF PLANTS REQUIRED	NUMBER OF PLANTS PROVIDED	
				SHADE TREES	EVERGREEN TREES	TOTAL TREES
P-1	ADJACENT TO ROADWAY	B	85'	2	2	4
				2	2	4

LANDSCAPING PLANT LIST			
QTY.	KEY	NAME	SIZE
2	☀	ACER SACCHARUM	2 1/2" x 3" CALIFER FULL CROWN, B&B
2	☀	GREEN MOUNTAIN SUGAR MAPLE	3" x 3" CALIFER FULL CROWN, B&B
2	☀	PINUS STROBUS	6" - 8" HT.
2	☀	EASTERN WHITE PINE	6" - 8" HT.

DEVELOPER'S/BUILDER'S CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THIS PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION OF CERTIFICATION OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

NAME: *Shari Rumbly* DATE: *2/28/02*



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.

Shari Rumbly 2/28/02
Date

DEVELOPER'S CERTIFICATE
I/We certify that all development and construction will be done according to this plan, for sediment and erosion control 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.

Shari Rumbly 2/28/02
Date
OWNER/Developer: SI ROSENBUCK

Reviewed for HOWARD COUNTY and meets Technical Requirements.
Jan M. Myers 2/11/02
Date
U.S. Army Natural Resources Conservation Service
Jan M. Myers 2/11/02
Date
This development plan is approved for erosion and sediment control by the HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Jan M. Myers 2/11/02
Date
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

OWNER/BUILDER
HOUSING MARKETING ASSOC.
12116 ARBIE ROAD
SILVER SPRING, MARYLAND 20904
410-679-4242

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Cindy Hanahan 4/5/02
Date
Chief, Division of Land Development
Shari Rumbly 4/8/02
Date
Chief, Development Engineering Division
Shari Rumbly 4/10/02
Date
Director - Department of Planning and Zoning

PROJECT: PATAPSCO PARK ESTATES SECTION: 4 LOTS NO. 78

PLAT: 10721 BLOCK NO. 5 ZONE: R-20 TAX/ZONE: 17 ELEC. DIST. SECOND CENSUS TR. 6121.00

WATER CODE: H-03 SEWER CODE: 1455600

SITE DEVELOPMENT PLAN, SEDIMENT, EROSION CONTROL PLAN, NOTES & DETAILS

SINGLE FAMILY DETACHED PATAPSCO PARK ESTATES LOT 78 SECTION FOUR

TAX MAP No: 17 PARCEL 38 ZONED: R-20 SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND SCALE: 1"= 30' DATE: JANUARY, 2002

SHEET 1 OF 1
P 89-32 F 89-22 F 91-167

SDP 02-077