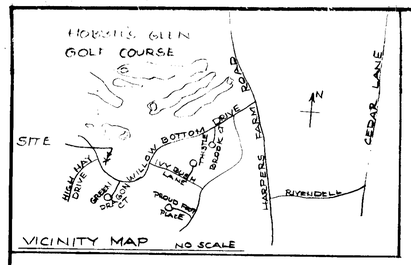
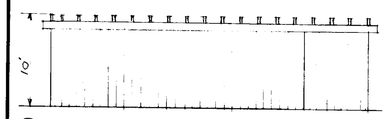
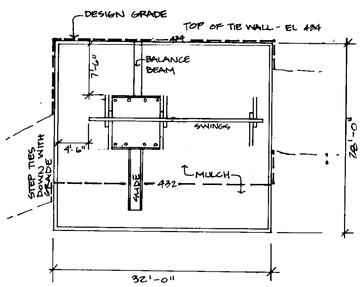


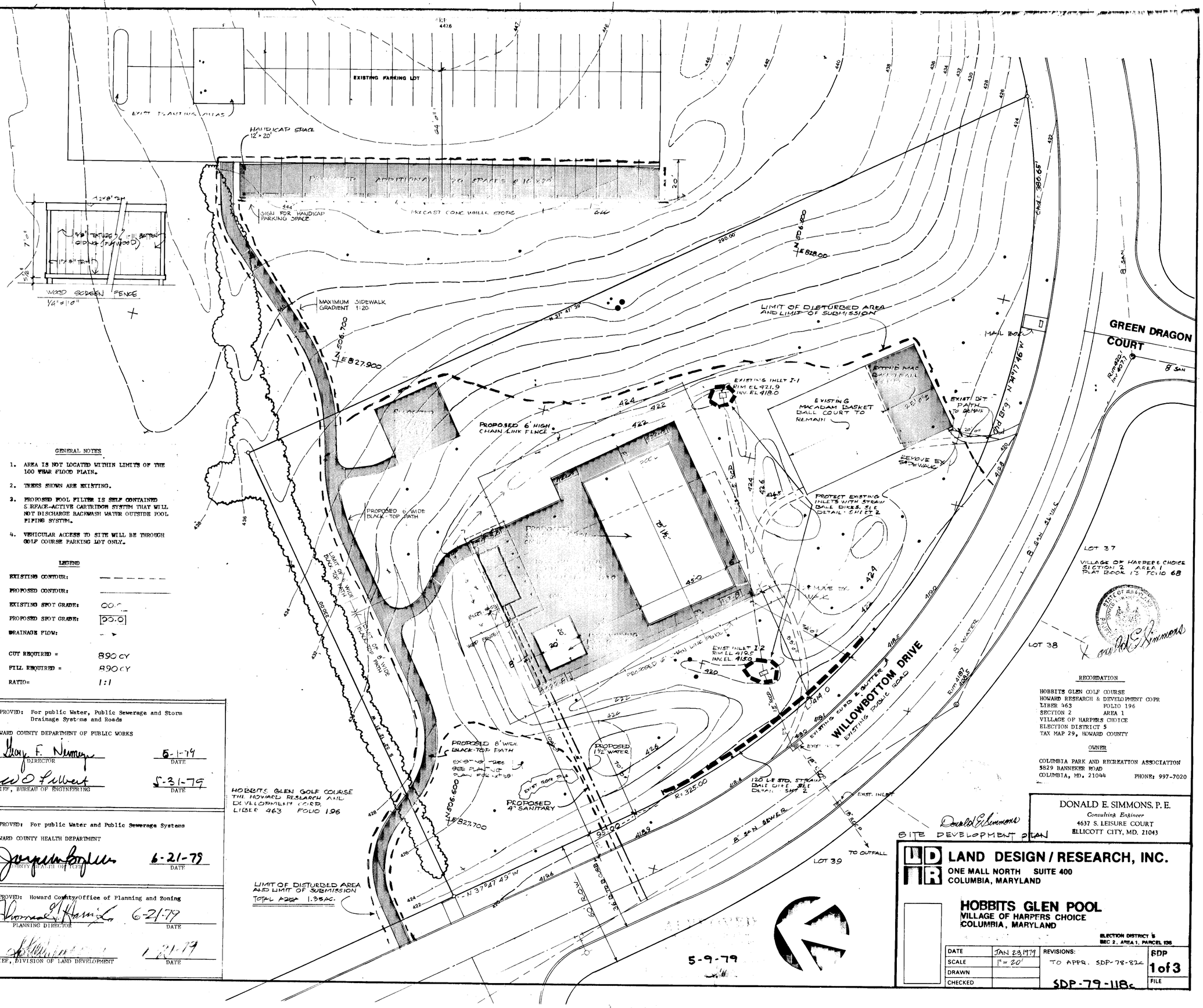


BUILDING ELEVATION
SCALE 1/8 : 1'-0



RELOCATED TOT LOT
SCALE: 3/32" = 1'-0"

ALL PLAY EQUIPMENT RELOCATED FROM ADJ. SITE



GENERAL NOTES

1. AREA IS NOT LOCATED WITHIN LIMITS OF THE 100 YEAR FLOOD PLAIN.
2. TREES SHOWN ARE EXISTING.
3. PROPOSED POOL FILTER IS SELF CONTAINED SURFACE-ACTIVE CARTRIDGE SYSTEM THAT WILL NOT DISCHARGE BACKWASH WATER OUTSIDE POOL PIPING SYSTEM.
4. VEHICULAR ACCESS TO SITE WILL BE THROUGH GOLF COURSE PARKING LOT ONLY.

LEGEND

EXISTING CONTOUR:	— — — — —
PROPOSED CONTOUR:	———
EXISTING SPOT GRADE:	00.0
PROPOSED SPOT GRADE:	00.0
DRAINAGE FLOW:	→
CUT REQUIRED =	890 CY
FILL REQUIRED =	890 CY
RATIO=	1:1

ENGINEER'S CERTIFICATE

I HEREBY 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.

Donald E. Simmons — 5-14-79
DONALD E. SIMMONS, P.E. — DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

C. Wayne Ray — 5/24/79
U.S. SOIL CONSERVATION SERVICE — DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Les Ecker — 5-24-79
DATE

DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AGENTS AS DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY HOWARD SOIL CONSERVATION DISTRICT.

C. A. DIRECTOR OF LAND DEVELOPMENT — 5/22/79
DATE

SITE ANALYSIS

PARCEL 135
TOTAL AREA OF PARCEL - 181.5 ACRES
ZONING - OPEN SPACE FDP #5
PROPOSED NON-PERVIOUS AREA = 14,224 SF
AREA LIMIT OF SUBMISSION =1.33 ACRES

APPROVED: For public Water, Public Sewerage and Storm Drainage Systems and Roads

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Thomas F. Nemeyer — 5-1-79
DIRECTOR — DATE

W O Fulbert — 5-31-79
CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED: For public Water and Public Sewerage Systems

HOWARD COUNTY HEALTH DEPARTMENT

Jacqueline Boylan — 6-21-79
COUNTY HEALTH OFFICER — DATE

APPROVED: Howard County Office of Planning and Zoning

Thomas G. Harris — 6-21-79
PLANNING DIRECTOR — DATE

[illegible] — 6-21-79
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE

RECORDATION

HOBBITS GLEN GOLF COURSE
HOWARD RESEARCH & DEVELOPMENT CORP
LIBER 463 FOLIO 196
SECTION 2 AREA 1
VILLAGE OF HARPERS CHOICE
ELECTION DISTRICT 5
TAX MAP 29, HOWARD COUNTY

OWNER

COLUMBIA PARK AND RECREATION ASSOCIATION
5829 BANNEKER ROAD
COLUMBIA, MD. 21044 PHONE: 997-7020

Donald E. Simmons
SITE DEVELOPMENT PLAN

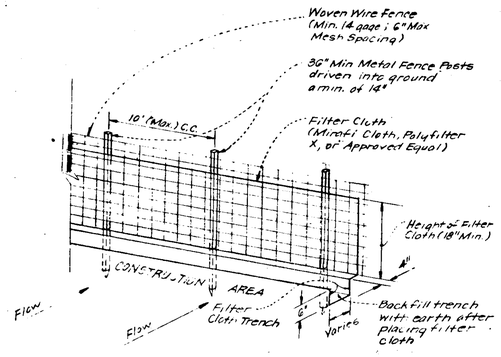
DONALD E. SIMMONS, P. E.
Consulting Engineer
4637 S. LEISURE COURT
ELLICOTT CITY, MD. 21043

LAND DESIGN / RESEARCH, INC.
ONE MALL NORTH SUITE 400
COLUMBIA, MARYLAND

HOBBITS GLEN POOL
VILLAGE OF HARPERS CHOICE
COLUMBIA, MARYLAND

ELECTION DISTRICT 5
SEC. 2, AREA 1, PARCEL 135

DATE	JAN 23 1979	REVISIONS: TO APPR. SDP-78-82c	SDP 1 of 3
SCALE	1" = 20'		
DRAWN			
CHECKED		SDP-79-118c	FILE



SILT FENCE DETAIL (OPTIONAL)

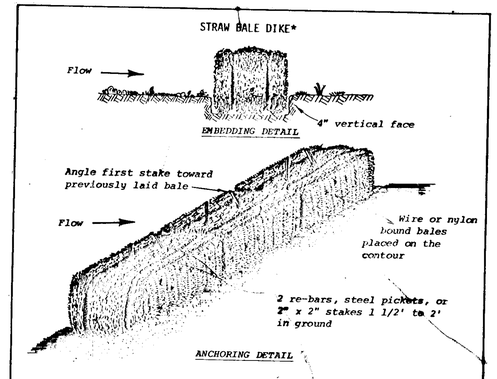
No. Scale

MAY BE USED IN PLACE OF STRAW BALE DIKE.

Notes:

1. Woven Wire fence to be fastened securely to fence posts by use of wire ties.
2. Filter Cloth to be fastened securely to woven wire fence by use of wire ties spaced every 24"x24".
3. Silt fence to be placed in lieu of straw bales and/or diversion dikes at the option of the developer

STRAW BALE DIKE*



Construction Specifications

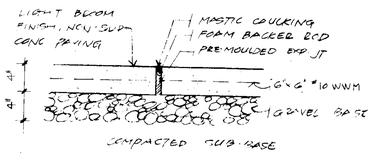
1. Bales shall be placed in a row with ends tightly abutting the adjacent bales.
2. Each bale shall be embedded in the soil a minimum of 4".
3. Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
4. Inspection shall be frequent and repair or replacement shall be made promptly as needed.
5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

GENERAL NOTES

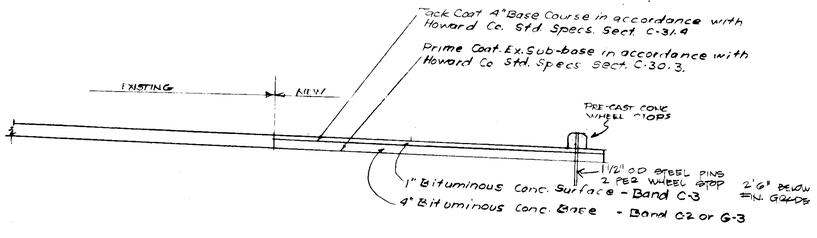
1. Sediment and erosion control measures shall be installed prior to any grading, clearing or disturbance of existing surface of the site.
2. The Office of the Howard County Bureau of Inspections and Permits shall be notified 24 hours before beginning work on the site.
3. Stabilization of disturbed ground shall be done as soon as possible.
4. Sediment control measures shall remain in place until permission for their removal has been obtained from the Bureau of Inspections and Permits.
5. On site inspection and maintenance of sediment control measures, including clean-out of dikes and proper establishment of all planned vegetative measures will be the responsibility of the Developer or his representative on the site, on a continuing day to day basis.
6. The Contractor shall keep all public roads free of sediment deposits left from traffic leaving the construction site.
7. SITE ANALYSIS:

Total area:	3.49 Acres
Area disturbed:	1.48
Area to be paved:	.33
Area to be seeded:	1.55
Area left undisturbed: . .	2.01

8. SEEDING
   A. Seed mixture shall be: 40% Kentucky Bluegrass
      20 Chewing Fescue
      20 Kentucky 31
      20 Annual Rye
   B. Seed shall be certified 85 % germination.
   C. Seed shall be applied at the rate of 3 lbs/1000 s.f.
   D. Fertilizer, 10-10-10, shall be applied at the rate of 23 lbs/1000 s.f.
   E. Agricultural lime or Dolomitic lime shall be applied at the rate of 46 lbs/1000 s.f.
   F. Seeded area shall be mulched with weed free grain straw applied at the rate of 70 lbs/1000 s.f. Mulch shall be secured to the ground by stakes and string, asphalt tacks, or other approved method.
9. CONSTRUCTION SEQUENCE:
   A. Obtain grading permit
   B. Install sediment controls.
   C. Grade
   E. Stabilize all areas which will no longer be disturbed by construction.
   F. Construct pool, parking area, etc.
   G. Final grade and stabilize all areas.

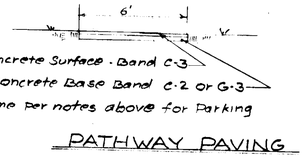


TYPICAL CONCRETE PAVING SECTION



TYPICAL PAVING SECTION - PARKING

No Scale



PATHWAY PAVING

No scale

ALL PAVING AND CURBS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.

STORM DRAIN ANALYSIS

TOTAL AREA = 1.85A
NON PERVIOUS AREA = .32 A = 21%
C = .44 (HCDM FIG 6.00)
t_c = 15 MIN
L = 5.5 (HCDM FIG 6.03a)
Q = CIA = .44 x 5.5 x 1.85 = 4.5 cfs

CAPACITY EXISTING 15" R.C.C.P.
n = .015 S = .0225
Q/$S^{1/2}$ = 55.98

Q = 55.98 x $\sqrt{.0225}$ = 8.4 cfs

PEAK RUN-OFF = 4.5 cfs
CAPACITY = 8.4 cfs

FOR PUBLIC WATER, PUBLIC SEWAGE, PUBLIC STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 6-1-79

CHIEF, BUREAU OF ENGINEERING — DATE 5-31-79

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS

HOWARD COUNTY HEALTH DEPARTMENT

6-24-79
OFFICER — DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 6-21-79

CHIEF, DIV. OF LAND DEVELOPMENT — DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS

C. Wayne Ray — 5/24/79
U.S. SOIL CONSERVATION SERVICE — DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

5-24-79
DATE

DEVELOPER'S CERTIFICATE

I certify that all development and/or construction will be done according to this plan of development and plan for erosion and sediment control. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their agents as deemed necessary. Deviation from this plan will not be made unless authorized by Howard Soil Conservation District.

C. A. Director of Land Development — Date 2/22/79
NORMAN J. [illegible]

ENGINEER'S CERTIFICATE

I hereby 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.

Donald E. Simmons, P.E. — 5-14-79
Date

OWNER
COLUMBIA PARK AND RECREATION ASSOCIATION
5829 BANKER ROAD
COLUMBIA, MD. 21044 997-7020

SITE DETAILS

DONALD E. SIMMONS, P. E.
Consulting Engineer
4637 S. LEISURE COURT
ELLICOTT CITY, MD. 21043

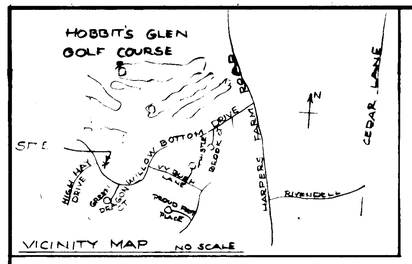
APPROVED
PLANNING BOARD
HOWARD COUNTY
DATE 5-9-79

LAND DESIGN / RESEARCH, INC.
ONE MALL NORTH SUITE 400
COLUMBIA, MARYLAND

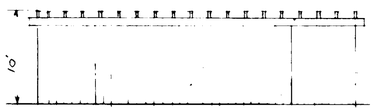
HOBBITS GLEN POOL
VILLAGE OF HARPERS CHOICE
COLUMBIA, MARYLAND

ELECTION DISTRICT 5
SEC 2, AREA 1, PARCEL 138

DATE	1-23-79	REVISIONS:	SDP
SCALE	1" = 20'	TO APPR. SDP-78-82c	2 of 3
DRAWN			
CHECKED		SDP-79-118c	FILE



VICINITY MAP NO SCALE



BUILDING ELEVATION
SCALE 1/8 : 1'-0

LANDSCAPE ARCHITECT TO LOCATE ALL PLANT MATERIAL IN FIELD FOR MAXIMUM SCREENING

PLANT LIST

No.	SYM.	QUAN	SIZE	PLANT NAME	REMARKS
1		16	4'-5½' 12'-14' HGT	PINUS STROBUS WHITE PINE	B&B - FULL
2		28	2'-2½' SPR. 2'-2½' HGT	VIBURNUM RHYTIDOPHYLLUM LEATHERLEAF VIBURNUM	B&B - FULL
3		11	2'-2½' CAL. 6'-8' HGT	PINUS STROBUS WHITE PINE	B&B

KEY

- EXISTING TREES TO REMAIN - PROTECT DURING CONSTRUCTION
- EXISTING TREES TO BE RELOCATED ON SITE
- LOCATION OF RELOCATED EX. EVERGREEN
- LOCATION OF RELOCATED EXISTING TREES

ENGINEER'S CERTIFICATE

I HEREBY 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.

DONALD E. SIMMONS, P.E. — DATE 5-11-79

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION SERVICE — DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

DATE 5-24-79

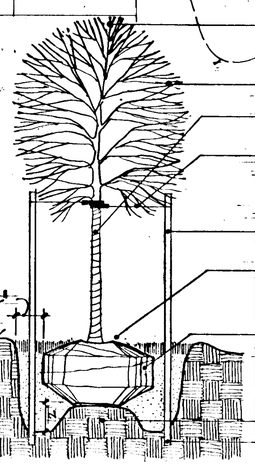
DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AGENTS AS DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY HOWARD SOIL CONSERVATION DISTRICT.

C. A. DIRECTOR OF LAND DEVELOPMENT — DATE

SITE ANALYSIS

PARCEL 135
TOTAL AREA OF PARCEL - 181.5 ACRES
ZONING - OPEN SPACE PDP #5
PROPOSED NON-PREVIOUS AREA = 14,224 SF
AREA LIMIT OF SUBMISSION = .33 ACRES



TREE PLANTING
NO SCALE

APPROVED: For public Water, Public Sewerage and Storm Drainage Systems and Roads

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE

CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED: For public Water and Public Sewerage Systems

HOWARD COUNTY HEALTH DEPARTMENT

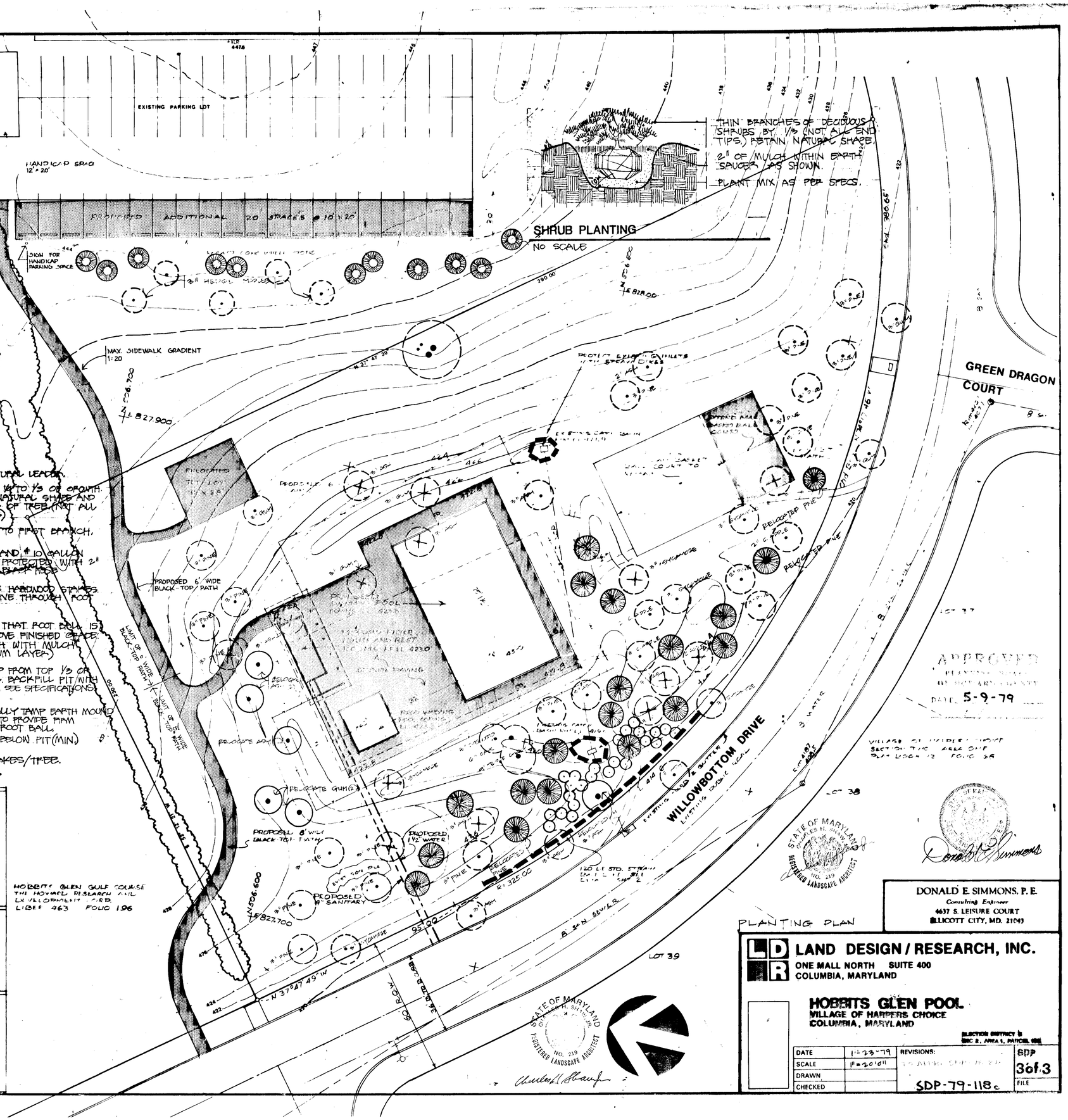
COUNTY HEALTH OFFICER — DATE 6-21-79

APPROVED: Howard County Office of Planning and Zoning

PLANNING DIRECTOR — DATE

CHIEF, DIVISION OF LAND DEVELOPMENT — DATE

HOBBIT'S GLEN GOLF COURSE
THE HOWARD RESEARCH AND DEVELOPMENT CORP.
LIBER 463 FOLIO 196



SHRUB PLANTING
NO SCALE

THIN BRANCHES OF DECIDUOUS SHRUBS BY 1/3 (NOT ALL END TIPS.) RETAIN NATURAL SHAPE.
2" OF MULCH WITHIN EARTH SAUCER AS SHOWN.
PLANT MIX AS PER SPECS.

APPROVED
PLANNING BOARD
DECISION AND ORDER
DATE 5-9-79

VILLAGE OF HARPER'S CHOICE
SECTION TWO AREA ONE
PLAT LIBER 13 FOLIO 58

STATE OF MARYLAND
CHARLES H. SAUER JR.
REGISTERED LANDSCAPE ARCHITECT
NO. 219

PLANTING PLAN

DONALD E. SIMMONS, P.E.
Consulting Engineer
4637 S. LEISURE COURT
ELLICOTT CITY, MD. 21043

LAND DESIGN / RESEARCH, INC.
ONE MALL NORTH SUITE 400
COLUMBIA, MARYLAND

HOBBITS GLEN POOL
VILLAGE OF HARPERS CHOICE
COLUMBIA, MARYLAND

ELECTION DISTRICT 13
SEC. 2, AREA 1, PARCEL 135

DATE	12-23-79	REVISIONS:	SDP 36f.3
SCALE	1" = 20'-0"		
DRAWN			
CHECKED		SDP-79-118c	FILE